

# REPORT

## **Voluntary Investigation & Remediation Plan** Cessna Aircraft Company GA1 Facility Columbus, Muscogee County, Georgia

June 2016



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## Acronyms

bls	Below land surface
Cessna	Cessna Aircraft Company
CSIA	Compound Specific Isotope Analyses
CSM	Conceptual Site Model
DCE	Dichloroethene
EPA	U.S. Environmental Protection Agency
EPD	Georgia Environmental Protection Division
ESA	Environmental Site Assessment
GA1	Cessna GA1 facility
Heatcraft	Heatcraft Worldwide Refrigeration
Kemira	Kemira Chemicals Inc.
NFA	No Further Action
NS	Norfolk Southern Corporation
PAH	Polyaromatic hydrocarbons
PQL	Practical quantification limit
PVC	Polyvinyl Chloride
RRS	Risk Reduction Standard
TCE	Trichloroethene
TPH	Total petroleum hydrocarbon
μg/kg	Micrograms per kilogram
μg/L	Micrograms per liter
VRP	Voluntary Remediation Program
VISL	Vapor intrusion screening level
VOC	Volatile organic compound
$\delta^{13}\text{C}\text{‰}$	Carbon 13:Carbon 12 isotope ratio calibrated to the international Vienna Pee Dee Belemnite scale measured in parts per thousand.
$\delta^{37}\text{Cl}\text{‰}$	Chlorine 37:Chlorine 35 isotope ratio calibrated to the international Standard Mean Ocean Chloride scale measured in parts per thousand.



# Section 1

## Introduction

This Voluntary Investigation and Remediation Plan (VIRP) has been prepared for the Cessna Aircraft Company (Cessna) GA1 facility (GA1) in response to volatile organic compounds (VOCs) discovered in soil and groundwater during a Phase II Environmental Site Assessment (ESA) that was performed at the facility. The site is approximately 14.5 acres and located at 4800 Cargo Drive in Columbus, Georgia (**Figure 1-1**).

### 1.1 Background

GA1 is a former Cessna facility that was used to fabricate and assemble parts that were shipped to other Cessna facilities for small business jet and general aviation aircraft assembly. Operations began at GA1 in approximately 1982. Structures at the facility include the manufacturing building and chemical storage building (**Figure 1-2**). The facility is now leased by Heatcraft Worldwide Refrigeration (Heatcraft) and used as a warehouse for storage and shipping of refrigeration units that are manufactured nearby.

The GA1 manufacturing building previously housed several machinery work stations, a vapor degreaser, a wastewater treatment unit, and a metal plating area. The machinery work stations were located over concrete containment pits that collected machine oil. The vapor degreaser and metal plating operations also had concrete containment pits. The wastewater treatment unit was located on the manufacturing building floor.

The bottom of the vapor degreaser pit was approximately 8 feet below the manufacturing building floor. The vapor degreaser used Neu-Tri Solvent, which consisted of 99.4% trichloroethene (TCE). The vapor degreaser heated the TCE to form a vapor in the cleaning tank. Aluminum parts were then lowered into the vapor where dirt, oil, and grease from the manufacturing process were removed from the part. The vapor degreaser was decommissioned in 2010. During decommissioning, all solvent was removed along with the secondary containment pit. All pits have been backfilled with concrete.

### 1.2 Investigation Summary

Environmental sampling has been completed at the site beginning in 2010 up to the present. These investigations are summarized below and the investigation results are discussed in detail in **Section 3**.

Five shallow monitoring wells were installed and sampled in 2010. The groundwater samples were analyzed for VOCs and metals as part of a Phase I/II ESA. The VOC and metals results were all below the practical quantification limits (PQLs), with the exception of two minor barium detections that appeared to be background.

A machine oil seep was discovered in 2012 along the outside wall of the manufacturing building adjacent to the “AESAs” machine pit. The seep was investigated and reported to the Georgia Environmental Protection Division (EPD) Land Protection Branch. EPD entered the report into the Complaint Tracking System as Complaint Id.: 67460. A small area of surface soil was excavated for offsite disposal and the extent of oil in subsurface soil was delineated using total petroleum hydrocarbon (TPH) analyses. A groundwater sample was also collected

in the oil release area and analyzed for TPH and polyaromatic hydrocarbons (PAHs). TPH was not detected in groundwater. Naphthalene and 2-methylnaphthalene were detected in groundwater at concentrations of 37 micrograms per liter ( $\mu\text{g}/\text{L}$ ) and 14  $\mu\text{g}/\text{L}$ , respectively. A “No Further Action” (NFA) request was submitted to the Land Protection Branch in July 2012. The Land Protection Branch responded in March 2014 and recommended the following actions prior to issuing an NFA.

- Verify the groundwater flow direction;
- Include the distance to nearest waterway and any source of drinking water; and
- Notify the adjacent landowner, Norfolk Southern Corporation (NS).

CDM Smith began fulfilling these requests in April 2014.

ETS Environmental & Associates, LLC conducted Phase I/II ESAs during April-May 2014 that included soil and groundwater sampling in the former vapor degreaser, wastewater treatment, and plating areas. VOCs were discovered in soil and groundwater that exceeded EPD’s release notification requirements under the Hazardous Site Response Act (HSRA). A Release Notification was submitted along with a Water Resource Survey to EPD’s Hazardous Sites Response Program in June 2014. The nearest water well identified by the survey was approximately 5 miles to the northwest.

CDM Smith conducted a more in-depth soil and groundwater investigation during July of 2014 to provide an initial delineation of onsite VOCs in soil and groundwater. The work included groundwater screening, soil borings, and permanent monitoring well installation. Indoor air samples were also collected during this investigation. The initial indoor air samples reported TCE and 1,1,2,2-tetrachloroethane slightly above the U.S. Environmental Protection Agency (EPA) vapor intrusion screening level (VISL) for residential properties. VOCs were delineated to the site boundary in soil and groundwater, and the need for additional investigation off site was identified.

The property immediately downgradient of the site is owned by NS and an access agreement for this property was obtained in October 2014. Soil sampling and groundwater screening were completed on the NS property during December 2014. Based on the laboratory results, VOCs in soil were successfully delineated, but additional downgradient groundwater sampling on the Kemira Chemicals Inc. (Kemira) property would be required to complete the delineation of VOCs in groundwater.

During April 2015, CDM Smith discussed the site status with Mr. David Reuland of EPD’s Response and Remediation Program. CDM Smith disclosed Cessna’s intentions to enter Georgia’s Voluntary Remediation Program (VRP) once the offsite delineation was complete. Mr. Reuland decided at that time to hold off on scoring the site for inclusion on the Hazardous Site Inventory.

Multiple requests for access to the Kemira property were denied during the period from January into May 2015. CDM Smith updated Mr. Reuland of EPD on the site status in June 2015 and it was concluded that the current investigations on site and on NS property should be completed, followed by submittal of the VRP application. As a result, permanent groundwater monitoring wells were installed along the Kemira property line on NS property in January 2016.

An additional air sampling event was also completed during October 2015. The 2015 indoor air sample results were similar to 2014 with TCE and several other VOCs exceeding the EPA VISLs for residential properties.

## 1.3 Environmental Setting

### 1.3.1 Land Use

The site is located in an industrial park and is currently zoned for light industrial and manufacturing activity. All adjacent and surrounding properties are also zoned industrial (Figure 1-1). The site is bordered by Cargo Drive to the west and an NS railroad to the immediate south. Beyond the NS railroad to the south is Kemira. McCauley Propeller Systems is directly north of the site. Heatcraft owns the parcel of land to the east and Insite Columbus LLC and International Paper Company own the parcels of land to the west across Cargo Drive.

### 1.3.2 Topography and Drainage

**Figure 1-3** is a topographic map of the site vicinity and shows the primary drainage directions and surface streams. Onsite drainage is to the south toward Bull Creek. Bull Creek lies approximately 1,000 feet south of the site. While the topographic map shows several tributaries along with Bull Creek in the alluvial valley south of the site, current aerial photographs and site reconnaissance indicate that Bull Creek and the drainage in the valley have been realigned. Bull Creek flows to the southwest and into the Chattahoochee River.

### 1.3.3 Geology and Hydrogeology

The site is located along a regional physiographic feature, referred to as the Fall Line, where crystalline Piedmont bedrock to the north plunges downward to the south and is covered by the coastal plain Tuscaloosa and Eutaw Formations (**Figure 1-4**). The crystalline bedrock is primarily gneiss. Quaternary stream alluvium and alluvial terrace deposits are also present in the site vicinity along Bull Creek. A conceptual geologic section is provided on **Figure 1-5**.

Groundwater in the region occurs in all four of the geologic formations. Groundwater flow generally follows surface topography and is toward streams where groundwater discharges. Bull Creek likely serves as the local hydraulic base level for the site and groundwater passing beneath the site is expected to ultimately discharge to Bull Creek.

## Section 2

### Site Investigations

Several site investigations have been completed using groundwater screening, soil borings, monitoring well installation, and indoor/outdoor air sampling. CDM Smith has developed Risk Reduction Standards (RRSs) for soil and groundwater to guide delineation and the interpretation of investigation results. The RRSs are discussed below, followed by the site investigation results.

#### 2.1 RRSs

Default RRSs and site-specific RRSs have been calculated for soil and groundwater for all VOCs and metals that have been detected in soil and groundwater at the site (**Table 2-1**). The RRS calculations are shown in **Appendix A**. The site-specific RRS calculations do not make any changes to the parameters, definitions, and standard assumptions provided in Appendix III, Table 3 of the Rules for Hazardous Site Response and are included for future reference. In addition, the site-specific RRSs do not address vapor intrusion. Appropriate RRSs will be proposed in the future as corrective action objectives and scope are developed.

#### 2.2 Machine Oil Release

The machine oil release was discovered by Cessna and reported to EPD on February 8, 2012. A small quantity of oil was discovered on the ground near a roof drain (**Figure 2-1**). Soil in the vicinity of the roof drain next to the building foundation was excavated for visual inspection. The inspection revealed that the oil was seeping from beneath the building foundation. A buried polyvinyl chloride (PVC) elbow on the downspout from the roof drain was cracked, allowing oil to seep into the pipe, which flowed approximately 50 feet southwest of the building. A small area of visibly stained soil at the piping discharge, estimated to be a few cubic yards, was immediately excavated to prevent any further migration and prevent potential exposures, placed in a lined "Gaylord Box" for storage, and clean soil was used to backfill the excavation. The roof drain was disconnected from the downspout and the PVC pipe was capped to prevent additional oil from seeping into the pipe. Further investigation found that the "ASEA" pit inside the building was adjacent to the downspout.

Ensuing environmental investigations were completed by CDM Smith in 2012 that included soil and groundwater sampling and analyses (**Table 2-2**). The laboratory reports for the machine oil investigation are included in **Appendix B**. The soil sampling was completed using Geoprobe® and continuous soil cores. In the vicinity of the ASEA pit, the TPH concentrations in soil were highest near the pit and in shallow soil. From this point, the oil was found to be beneath the footprint of the foundation footing of the manufacturing building and the building extension to the south. The data indicated that the oil extent was limited. TPH was not detected in groundwater at MW-8 and naphthalene slightly exceeded the Type 1/3 groundwater RRS of 20 µg/L at 37 µg/L.

#### 2.3 Soil/Source Investigation

The soil/source investigation was completed in several phases to fully delineate VOCs in soil to the Type 1 RRSs. This soil sampling was also completed using Geoprobe® and continuous soil cores. Following sample collection, the boring were abandoned. Boring logs are included

in **Appendix C**. The soil/source sampling locations are shown on **Figure 2-2**. The laboratory data are summarized in **Table 2-3** with the laboratory reports included in **Appendix D**. Soil samples from borings SB-1 through SB-7 were analyzed for VOCs, arsenic, cadmium, lead, and zinc. The samples from locations SB-5, SB-6, and SB-7 were additionally analyzed for hexavalent chromium. Cadmium and hexavalent chromium were not detected. The remainder of the soil samples were analyzed for VOCs and not metals because the metals were not detected at concentrations of concern. A total of 10 VOCs have been detected in soil. TCE is the only VOC that has been detected above the Type 1/3 RRS in soil.

## 2.4 Groundwater Investigation

The groundwater investigation included initial groundwater screening followed by permanent monitoring well installation. **Figure 2-3** shows the groundwater sample locations and **Table 2-4** summarizes the groundwater analytical results. Monitoring well construction details are included in **Table 2-5** and the laboratory reports are in Appendix D.

### 2.4.1 Site-Specific Hydrogeology

The subsurface conditions encountered during the site investigations are consistent with the regional description. CDM Smith has identified three zones of hydrogeologic interest at the site, as summarized below.

- **Unit A** – Unconsolidated coastal plain sediments and recent alluvium. This unit is present in the south portion of the site and extends off site to the south. The upper 15-20 feet consists of interbedded sand, silty sand, and silty clay. The water table is at a depth of approximately 18 to 20 feet below land surface (bls) and groundwater flow is to the south-southeast (**Figure 2-4**). The lower portion of Unit A is permeable sand and permeable sand and gravel to a depth of approximately 30 feet bls.
- **Unit B** – Piedmont saprolite. Unit B is below Unit A and encountered at depths ranging from approximately 30 to 35 feet bls and ranges in thickness from less than 1 foot up to 15 feet. Although water bearing, Unit B is primarily silt and has a relatively low permeability. Based on water levels at well locations MW-3 and MW-4, and upward hydraulic gradient exists from Unit B to Unit A.
- **Unit C** – Piedmont biotite gneiss bedrock. The bedrock depth ranged from approximately 30 feet to 45 feet bls. One boring, MW-3C, has been completed into bedrock and the rock was dense biotite gneiss with few fractures. It is possible that the 82.5-foot depth to groundwater measured in MW-3C was not an equilibrated water level and the true water level is higher.

### 2.4.2 Groundwater Laboratory Results

The earliest groundwater data were collected in 2010 during a Phase I/II ESA at five “GW” locations (**Figure 2-3**). All VOCs were reported to be below the PQL. With the exception of GW-8, these wells were abandoned.

Groundwater screening was initiated in 2014 and was completed using Geoprobe® with temporary well points. All of the groundwater screening samples were collected from 20-foot to 25-foot bls within and adjacent to the manufacturing building and at 15-foot bls on the NS property where the land surface elevations are lower. The temporary well points were purged for a total volume of approximately 5 gallons prior to sample collection for screening purposes. Following sample collection, the boring were abandoned.

Monitoring wells completed in Unit A and Unit B were installed using conventional hollow-stem augering techniques and were completed using 2-inch diameter PVC screen and riser. The bedrock monitoring well was installed using Sonic drilling techniques and was also completed using 2-inch diameter PVC screen and riser. The monitoring wells have conventional construction with sand pack installed to above the screen, followed by a 2-foot thick bentonite seal, and grouted to land surface.

Groundwater sampling from the monitoring wells included standard well purging procedures. The Unit A and Unit B wells were all purged using a peristaltic pump with disposable polyethylene tubing. The well purge parameters (pH, conductivity, turbidity, and temperature) were allowed to stabilize prior to sample collection. The well purge logs are in **Appendix E**.

## 2.5 Vapor Intrusion Investigation

A preliminary vapor intrusion investigation has been completed for the manufacturing building that included collecting indoor air samples and outdoor air samples during two sampling events. A sub-slab soil vapor sample was also collected to assess whether VOCs detected in air samples potentially originate from beneath the manufacturing building or another source.

### 2.5.1 Air Sampling

**Figure 2-5** shows the air sample locations for the 2014 and 2015 sampling events. Indoor air samples were collected from three locations in the manufacturing building. One outdoor control location was sampled in 2014 and two outdoor control locations were sampled in 2015. Sample Indoor 2 was located over the former vapor degreaser pit and the remaining two samples were collected from the northwest and the northeast areas of the manufacturing building.

For both events, the air sampling was conducted while the manufacturing building was unoccupied. The HVAC system was operated normally for 24 hours prior to sampling and during sampling. Six-liter Summa canisters equipped with laboratory-calibrated flow controllers were used to collect composite samples over a 24-hour period. The samples were submitted for laboratory analyses by EPA Method TO-15. The air sample analytical results from 2014 are summarized in **Table 2-6**, and the 2015 results are summarized in **Table 2-7**. Seven VOCs that had been reported in soil and/or groundwater were reported above the PQL in indoor air in 2014, and ten were reported above the PQL in 2015. The indoor air results have been compared to the VISLs. Based on guidance from EPD's Risk Assessment Program, the VISLs were developed using EPA's currently recommended exposure factors and a  $10^{-5}$  target excess lifetime cancer risk, and a target hazard index of 0.1 was used because more than one VOC was reported.

### 2.5.2 Compound Specific Isotope Analyses

Compound Specific Isotope Analyses (CSIA) were completed on a groundwater sample from MW-3A, a sub-slab soil vapor sample collected adjacent to the former vapor degreaser pit, and on air samples Indoor 1 and Indoor 2 collected in 2015. MW-3A is immediately downgradient of the former vapor degreaser pit.

The CSIA characterized carbon and chlorine in TCE to assess whether the TCE in indoor air is from soil vapor intrusion or potentially another source. CSIA is a laboratory method that

determines the isotope ratios for elements in specific compounds. The isotopic ratio for an element is known to within a few percent; however, that ratio can change during degradation. CSIA measures these changes in isotope ratios very precisely. The samples were sent to the University of Oklahoma, School of Geology and Geophysics, for CSIA analyses. The laboratory results are summarized in **Table 2-8**.

The carbon data are reported as the carbon 13:carbon 12 isotope ratio calibrated to the international Vienna Pee Dee Belemnite scale ( $\delta^{13}\text{C}$ ) measured in parts per thousand (‰). The chlorine data are reported as the chlorine 37:chlorine 35 isotope ratio calibrated to the international Standard Mean Ocean Chloride scale ( $\delta^{37}\text{Cl}$ ) measured in ‰.

The database of available isotope signatures for TCE “parent” compounds are typically between  $\delta^{13}\text{C}$ ‰ -27 and -32. The average indoor air was  $\delta^{13}\text{C}$ ‰ -25.5 and the sub-soil vapor  $\delta^{13}\text{C}$ ‰ was -25.5. This suggests that the TCE could be slightly degraded, and the TCE in indoor air could be derived from vapor intrusion. The MW-3A  $\delta^{13}\text{C}$ ‰ of -26.4 suggests that the TCE in groundwater is degraded to lesser extent than the TCE in the indoor air and soil gas, but the results are consistent.

The TCE “parent” compounds are typically between  $\delta^{37}\text{Cl}$ ‰ 3 and 4.5. The  $\delta^{37}\text{Cl}$ ‰ values can increase from TCE degradation. The average indoor air was  $\delta^{37}\text{Cl}$ ‰ 3 and the sub-soil vapor  $\delta^{37}\text{Cl}$ ‰ was 3.8. This suggests that the TCE is relatively un-degraded, and the TCE in indoor air could be derived from vapor intrusion. The MW-3A  $\delta^{37}\text{Cl}$ ‰ of 2 again suggests that the TCE in groundwater is degraded to lesser extent than the TCE in the indoor air and soil gas, but these results are consistent.



## Section 3

### Conclusions

Based on the currently available data, the former vapor degreaser appears to be the source of VOCs at the site. The VOCs could have leaked through cracks in the concrete pit or could have migrated through the concrete pore space. TCE was known to have been used in the former vapor degreaser and TCE is primary VOC of concern. The extent of the machine oil in soil has been mapped. Groundwater does not appear to be effected by the machine oil. EPD's recommended actions for obtaining an NFA for the machine oil release have been fulfilled. PAHs and metals are not considered to be constituents of concern for the site based on the available data. Additional conclusions on the VOC distributions in soil and groundwater are provided below followed by the conceptual site model (CSM) that describes that VOC fate and transport mechanisms and potential risks associated with the VOCs.

#### 3.1 VOC Delineation

The distribution of VOCs in soil exceeding the Type 1/3 and Type 4 RRSs is shown on **Figure 3-1**. TCE is the only VOC that exceeds the soil RRSs. The soil TCE concentrations are highest in the immediate vicinity of the former vapor degreaser, up to 14,000 micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), and decrease radially away from the former vapor degreaser. The soil is below the Type 1/3 RRS at distances ranging from approximately 40 to 50 feet away from the former vapor degreaser. The soil TCE concentrations tend to be highest at the 10-foot depth.

The depth to groundwater beneath the manufacturing building ranges from approximately 19 feet to 20 feet bls, and the groundwater depth decreases downslope to 5.4 feet at MW-7A near the stream. Drainage and stream realignment is known to have occurred on the Kemira property, but the current nature of this feature has not been verified because of the lack of access. The stream head is intermittent on site where surface elevations are higher. CDM Smith currently postulates that shallow groundwater discharges to the realigned stream in the offsite area. Flow in this stream has been observed at all times viewed at the Kemira south property line on Canal Street.

**Figure 3-2** shows the distribution of VOCs in groundwater that exceed the Type 1/3 RRSs. With the exception of a single detection of naphthalene at GW-8, TCE and 1,1-dichloroethene (DCE) are the only VOCs that exceed the RRSs. All locations that have 1,1-DCE detections also have TCE detections and at higher concentrations. As a result, mapping of TCE in groundwater is representative of the VOC extent.

The VOCs in groundwater beneath the manufacturing building have spread radially from the former vapor degreaser in a manner similar to soil. The VOCs have also migrated downgradient in groundwater to the southeast. The extent of VOCs in groundwater has not been fully delineated and is assumed to extend onto Kemira property.

The highest TCE concentration in groundwater measured to date is from location SB-4 beneath the manufacturing building at 16,600  $\mu\text{g}/\text{L}$ . While SB-4 is slightly upgradient of the former vapor degreaser, it was screened in a highly permeable sand and gravel zone that could allow preferential VOC migration. The VOCs then decrease in the downgradient direction, and **Figure 3-3** includes a plot of TCE versus distance from SB-4. The data points



selected are the highest and believed to be located along the TCE migration centerline. Based on the extrapolation on Figure 3-3, TCE on the order of 200 µg/L is projected in groundwater at the stream. The monitoring well furthest downgradient, MW-7A, contained 100 µg/L TCE in groundwater. However, the adjacent screening sample, SB-36, contained 540 µg/L TCE in groundwater.

## 3.2 Conceptual Site Model

**Figure 3-4** provides a CSM for the Cessna GA1 site. The VOCs released from the former vapor degreaser entered the earthen fill soil underlying the former vapor degreaser. This soil consists of silty sand and was likely derived from the cut area forming the paved parking lot north of the manufacturing building. Soil beneath the fill is undisturbed stratified silty clayey sand to silty sandy clay with interbedded permeable sand lenses.

The VOCs in soil have migrated downward and laterally from the former vapor degreaser pit. The VOCs in soil likely migrate as vapors and also as a liquid through capillary action resulting in the radial distribution. Vapor migration is also supported by the indoor air sampling results.

Because the former vapor degreaser pit is covered by the concrete floor of the manufacturing building, this soil has not been subjected to leaching from rainfall infiltration. Although leaching has not occurred, the VOCs have reached groundwater in Unit A and Unit B and maintain a similar distribution in groundwater as in soil beneath the manufacturing building. Unit C bedrock groundwater does not appear to be effected and the two detected VOCs are believed to be artifacts of the potable water used for the Sonic drilling.

The CSIA indicates that some TCE degradation could be occurring. The presence of 1,1-DCE in soil and groundwater is indicative of TCE degradation, but the proportion of 1,1-DCE to TCE is low. As a result, the TCE degradation potential appears to be low.

## Section 4

### Recommendations and Preliminary Schedule

CDM Smith recommends that the site proceed under the VRP. Cessna should periodically reassess the access situation with Kemira in an attempt to complete the delineation in groundwater. However, the lack of offsite access does not necessarily preclude development of an effective remediation approach because the VOCs on the Kemira property will attenuate over time if an effective remedy is implemented on the Cessna property.

A focused feasibility study should be completed to identify the best alternative(s) for remediation. The primary remediation objectives should be to mitigate vapor intrusion and offsite VOC migration in groundwater. A secondary objective could include soil remediation to reduce VOC mass loading to groundwater. However, the soil may not otherwise present risks based on the current property use. An environmental covenant should also be considered to prevent groundwater use and contact with the VOCs in soil.

CDM Smith proposes the following preliminary schedule. However, vapor intrusion mitigation efforts may be initiated prior to remediation. A more detailed schedule will be included in the feasibility study and future semi-annual progress reports.

Feasibility Study (FS) Development	Submittal within three months of enrollment in the VRP
Pre-Design Investigation	Within three months following FS approval
Remedial Action Design	Three months
Procure Contractor for Remediation	Two months
Remedial Action Construction	Three months
Compliance Status Report	Within five years of enrollment in the VRP

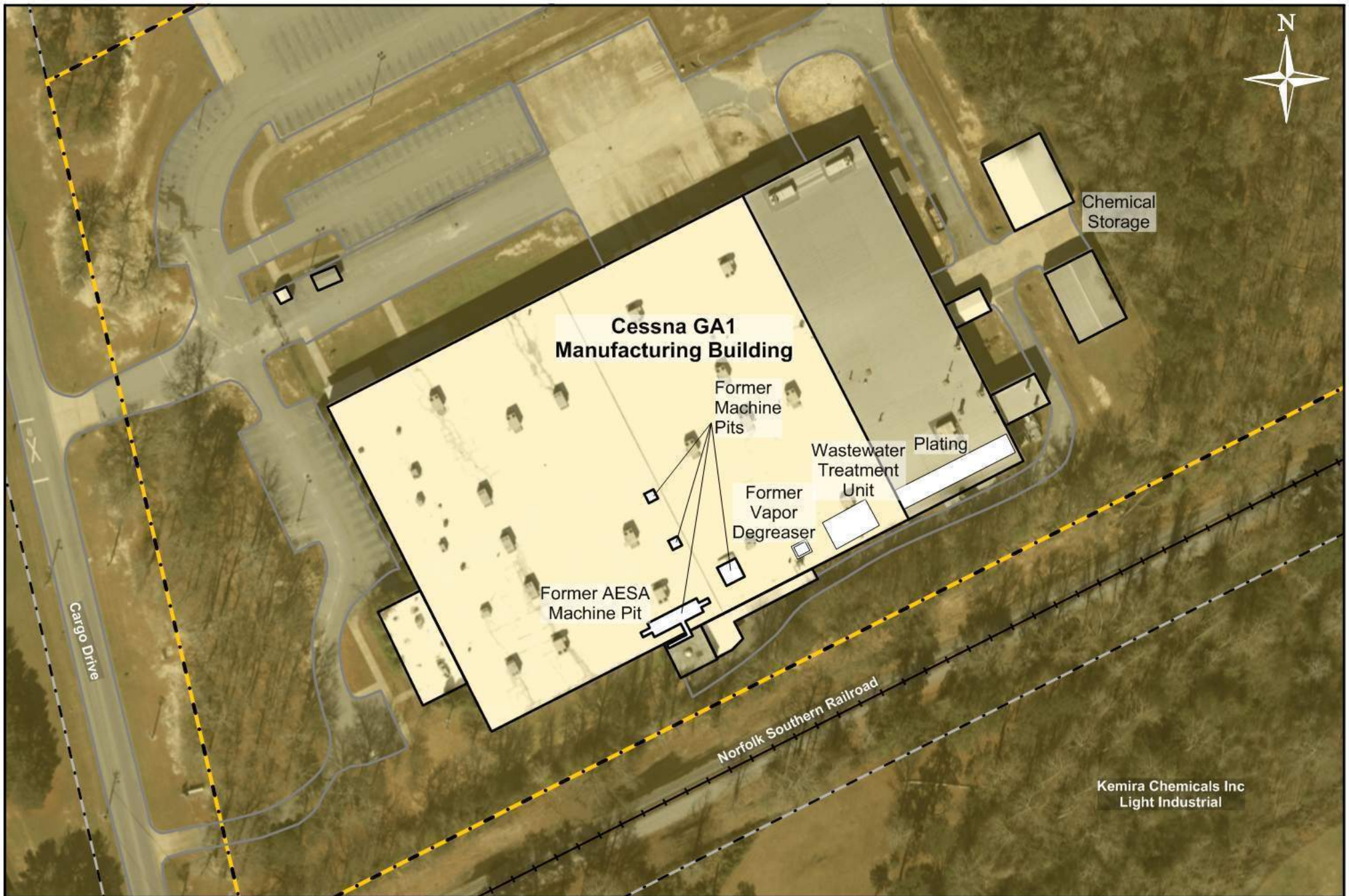
*Horizontal and vertical delineation is considered complete outside of gaining potential access to the neighboring Kemira property.*

# Figures

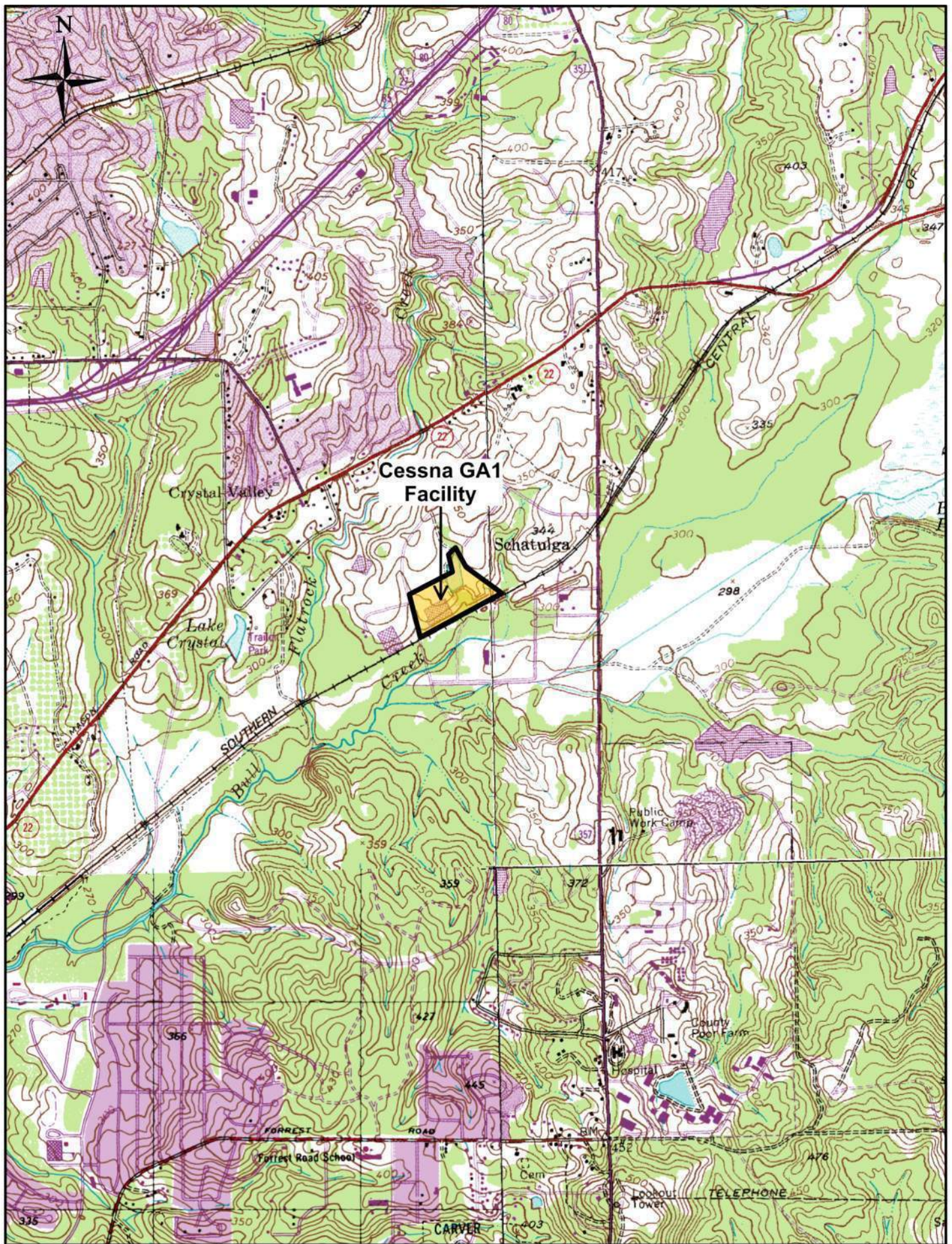




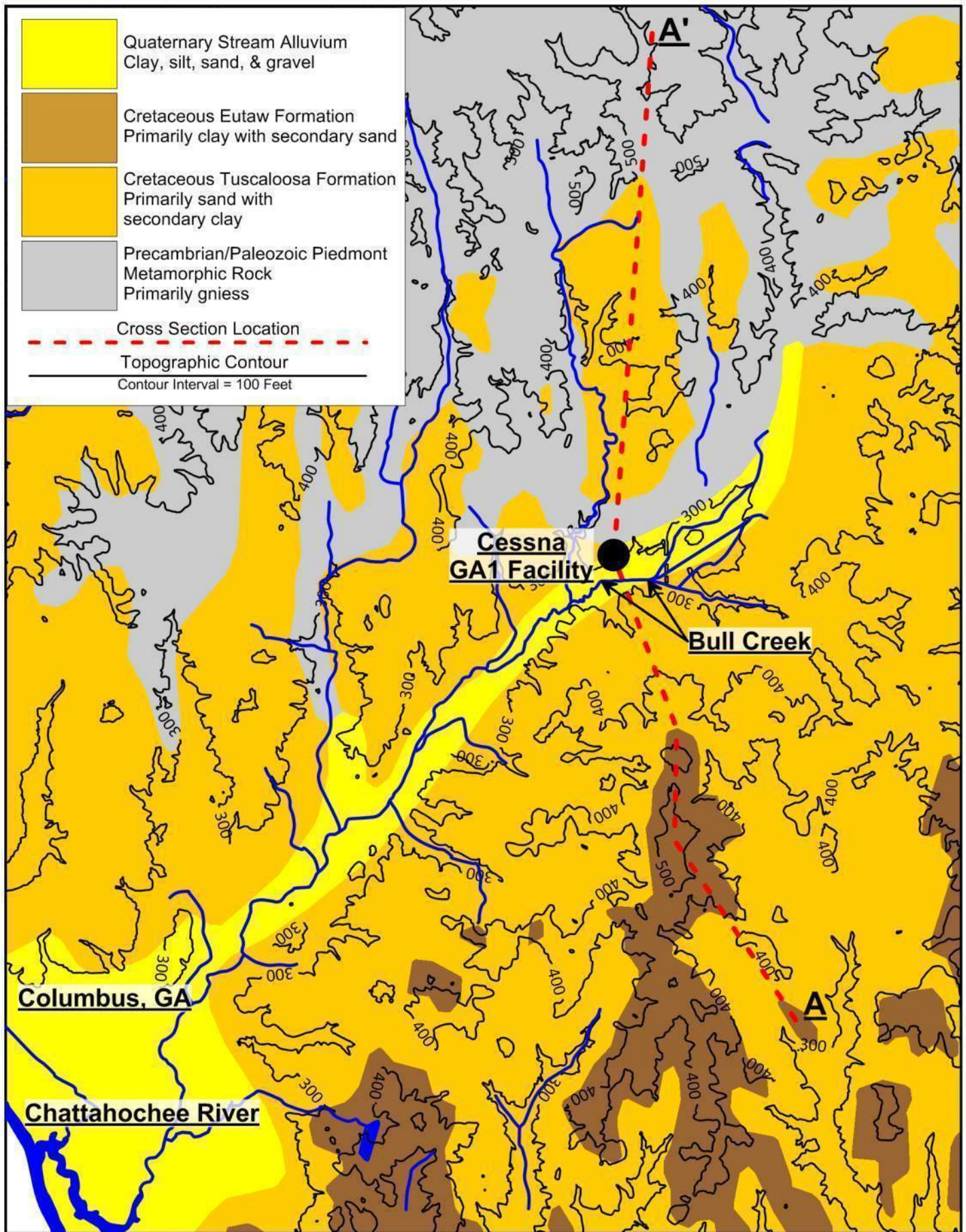












Map Source: USGS Open-File Report 2005-1323, Preliminary integrated geologic map databases for the United States: Alabama, Florida, Georgia, Mississippi, North Carolina, and South Carolina.



Scale in Miles



**CDM  
Smith**

**Figure 1-4  
Geologic Map**

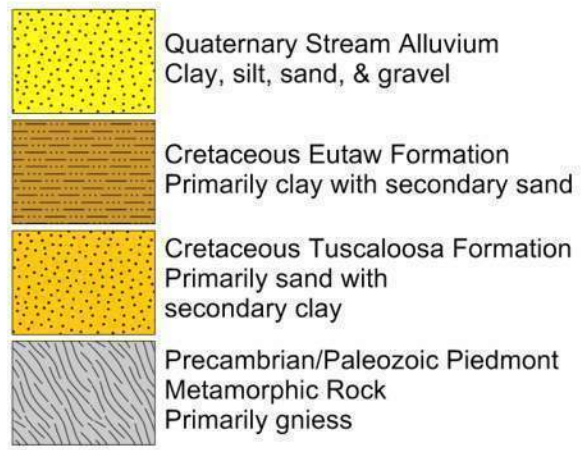
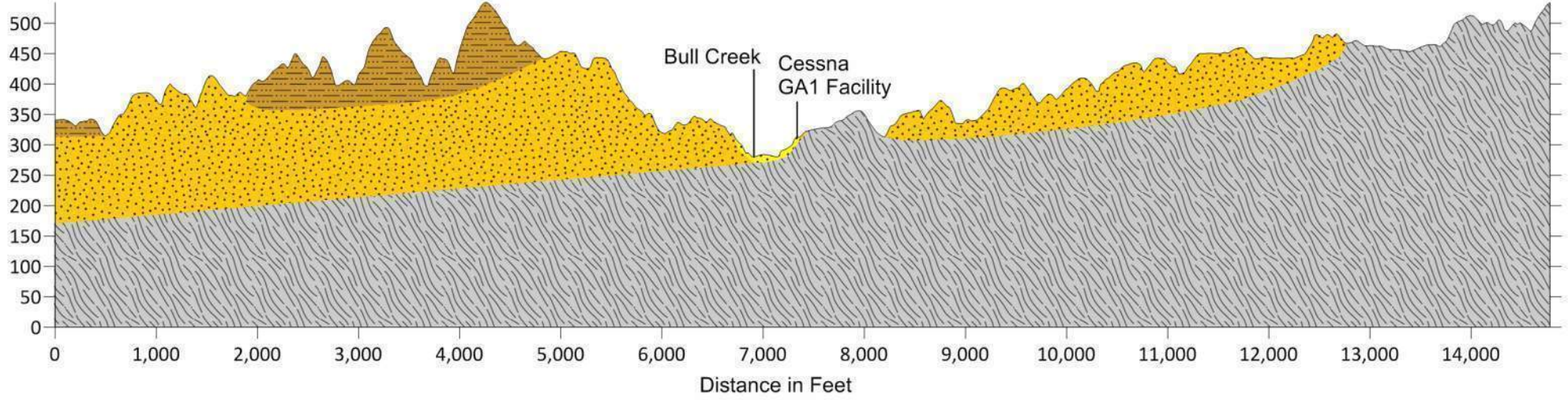
Cessna GA1 Facility  
Columbus, Muscogee County, Georgia



A South

A' North

Elevation in Feet

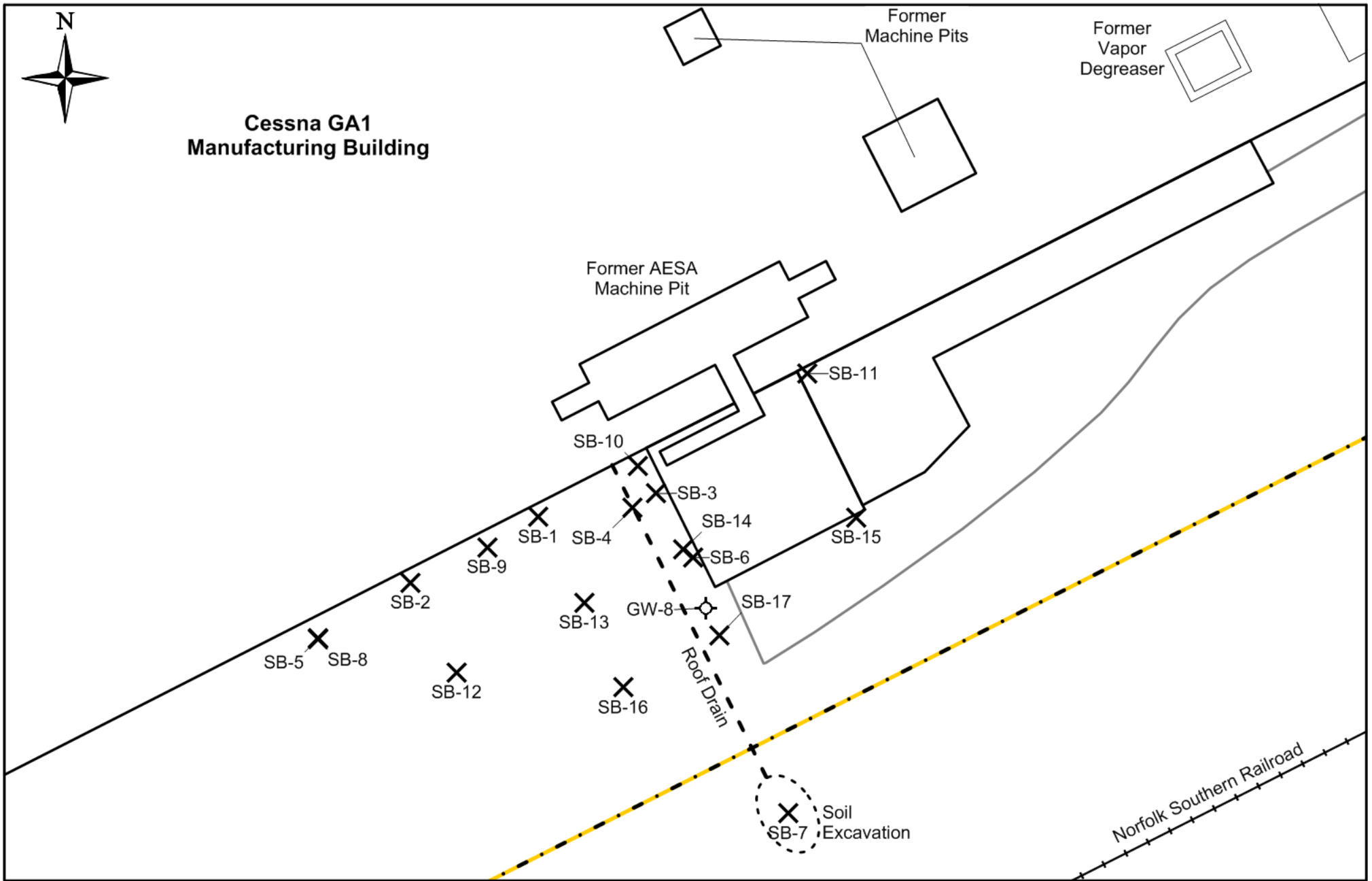


Data Source: USGS Open-File Report 2005-1323, Preliminary integrated geologic map databases for the United States: Alabama, Florida, Georgia, Mississippi, North Carolina, and South Carolina.



**Figure 1-5**  
**Conceptual Geologic Section**  
 Cessna GA1 Facility  
 Columbus, Muscogee County, Georgia





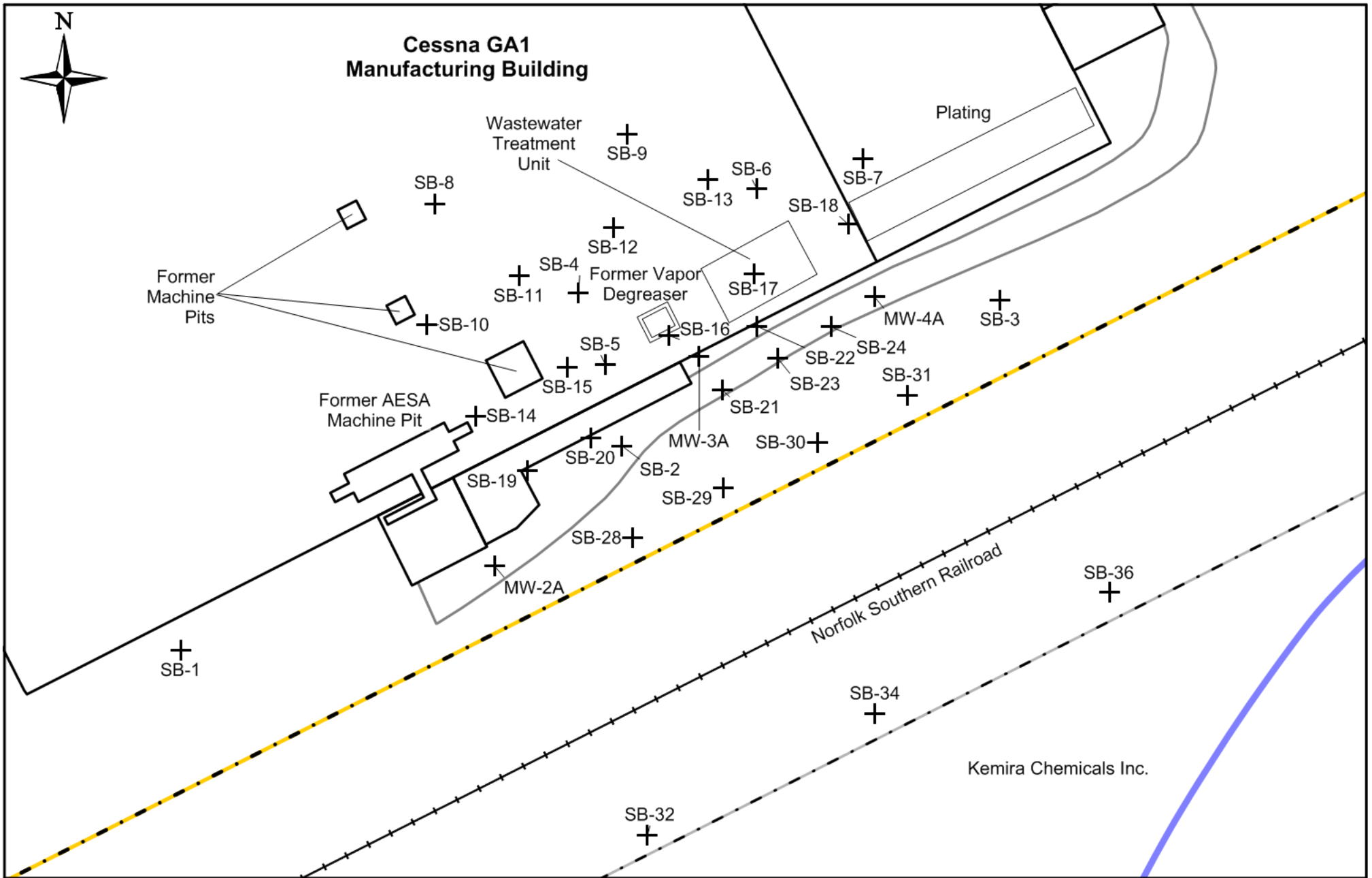
Machine Oil Investigation  
Soil Boring  
X

Unit A  
Monitoring Well  
⊕

Site Boundary  
Offsite Properties

Scale in Feet  
0 25 50

**Figure 2-1**  
**Machine Oil Investigation**  
Cessna GA1 Facility  
Columbus, Muscogee County, Georgia



Offsite Properties  
 Site Boundary

Stream

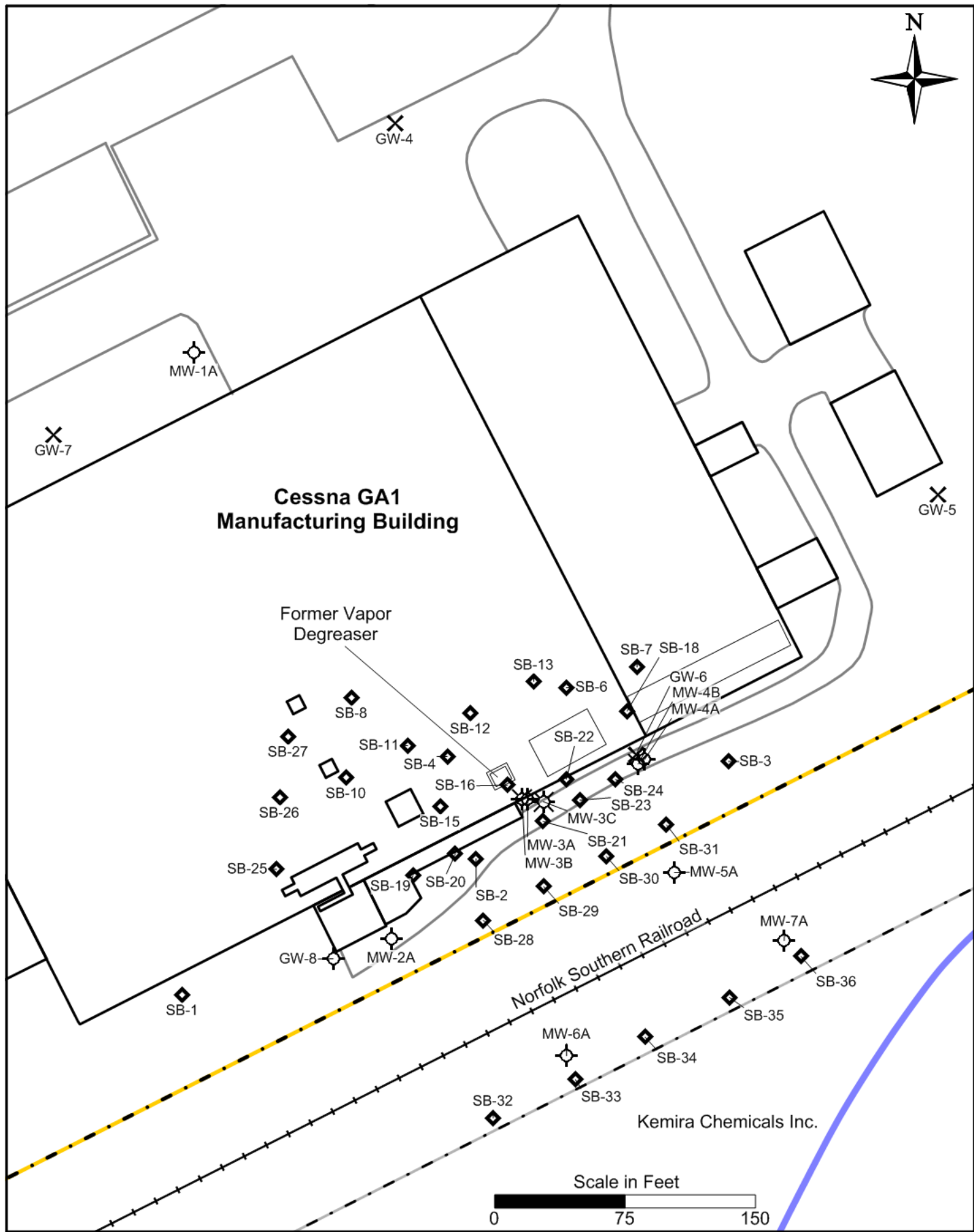
Site Investigation  
 Soil Boring









Scale in Feet  
 0 50 100

**Figure 2-2**  
**Soil Boring Locations**

Cessna GA1 Facility  
 Columbus, Muscogee County, Georgia

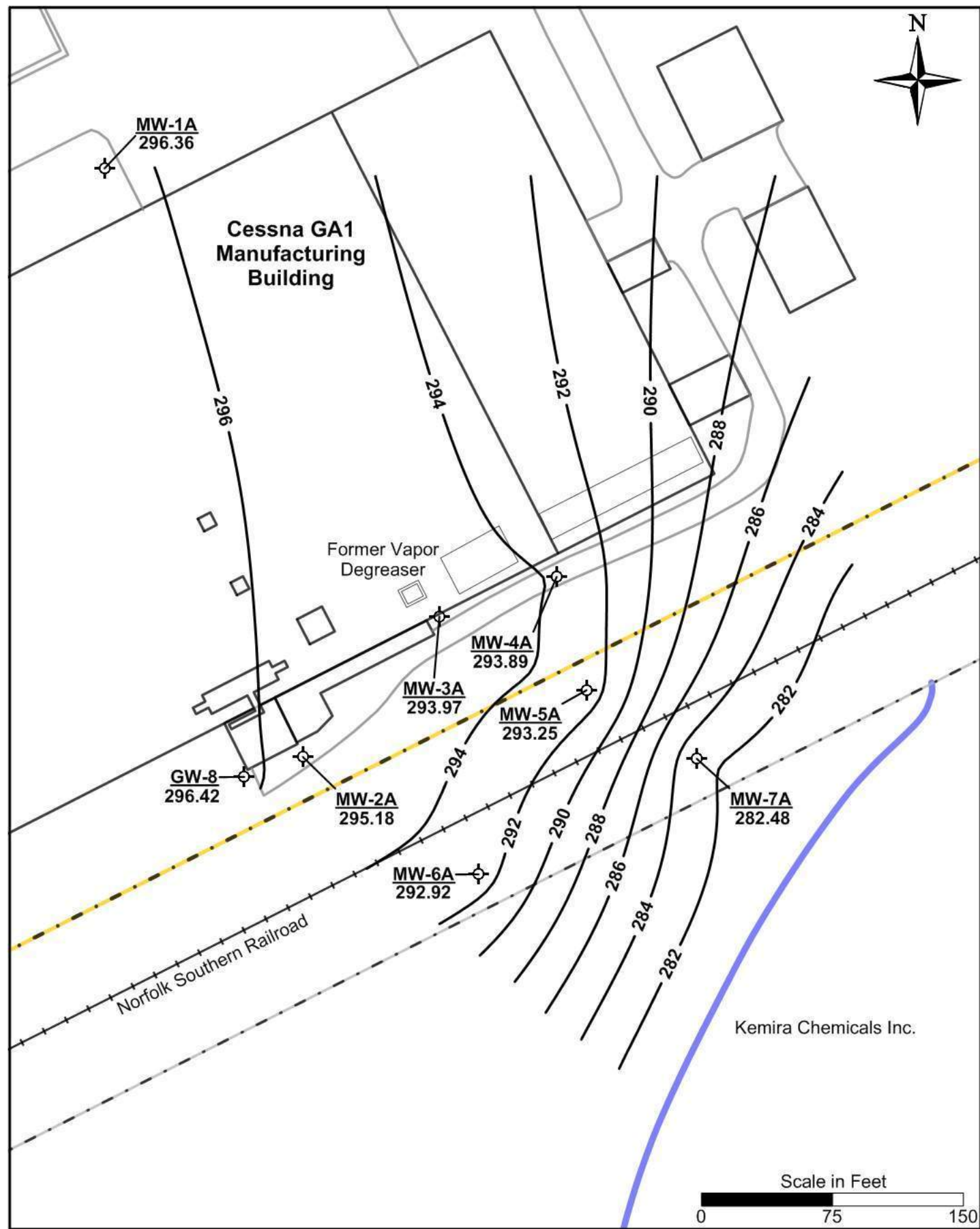







-  Stream
-  Offsite Properties
-  Site Boundary
-  Abandoned Monitoring Well
-  Unit A Sediments Monitoring Well
-  Unit B Saprolite Monitoring Well
-  Unit C Upper Bedrock Monitoring Well
-  Unit A Screening Location



**Figure 2-3: Groundwater Investigation Locations**  
 Cessna GA1 Facility  
 Columbus, Muscogee County, Georgia



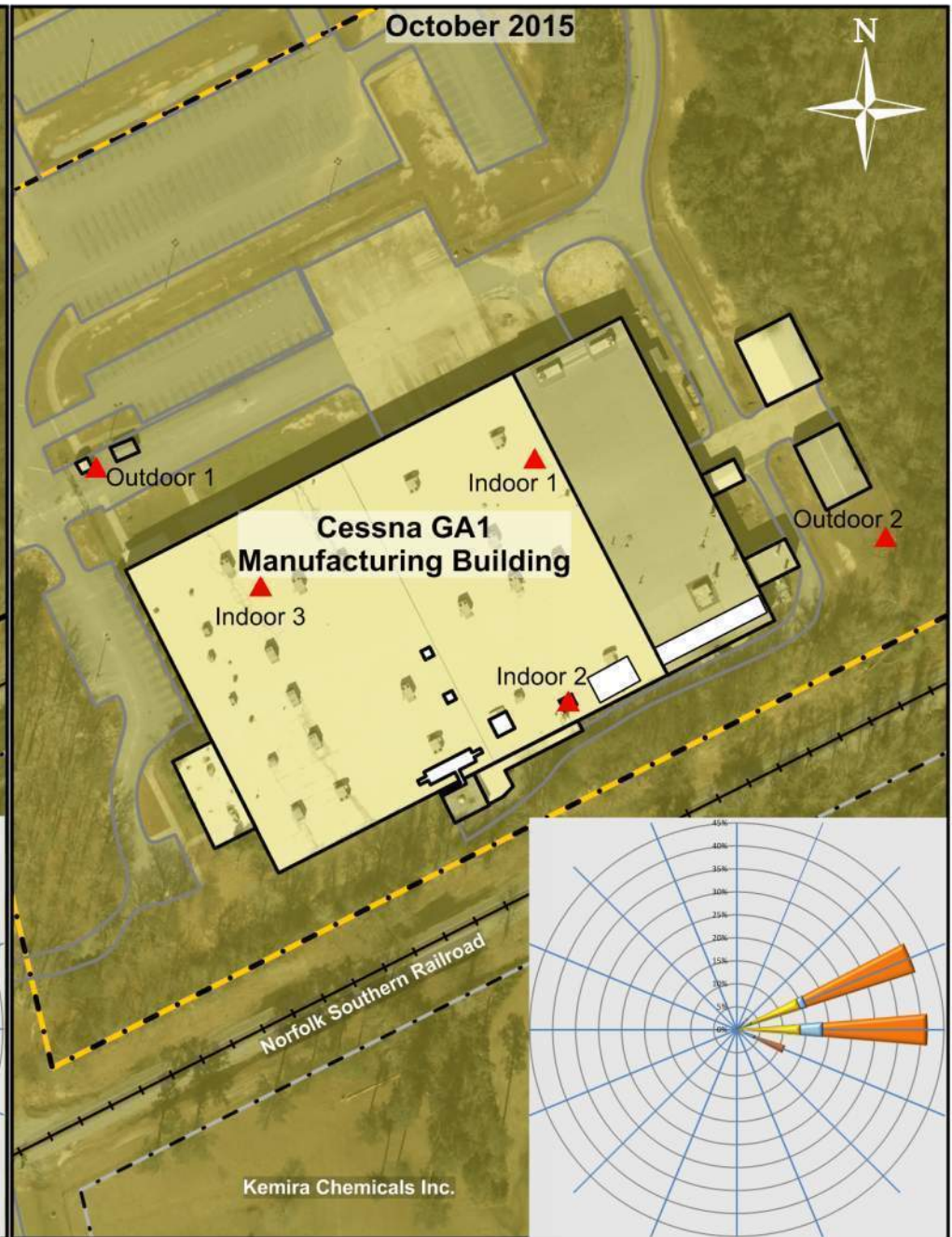
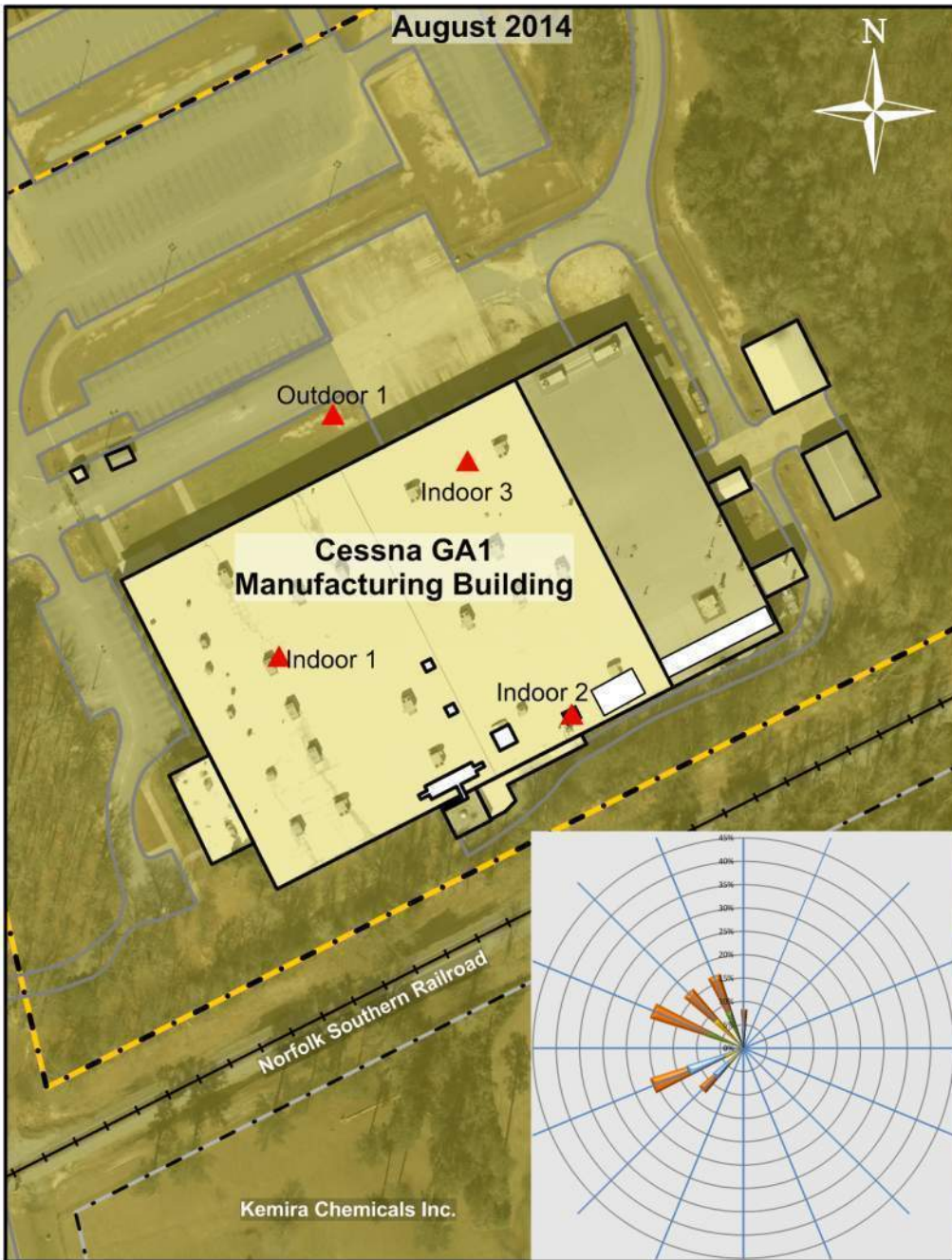
-  Stream
-  Offsite Properties
-  Site Boundary

 Unit A Sediments Monitoring Well

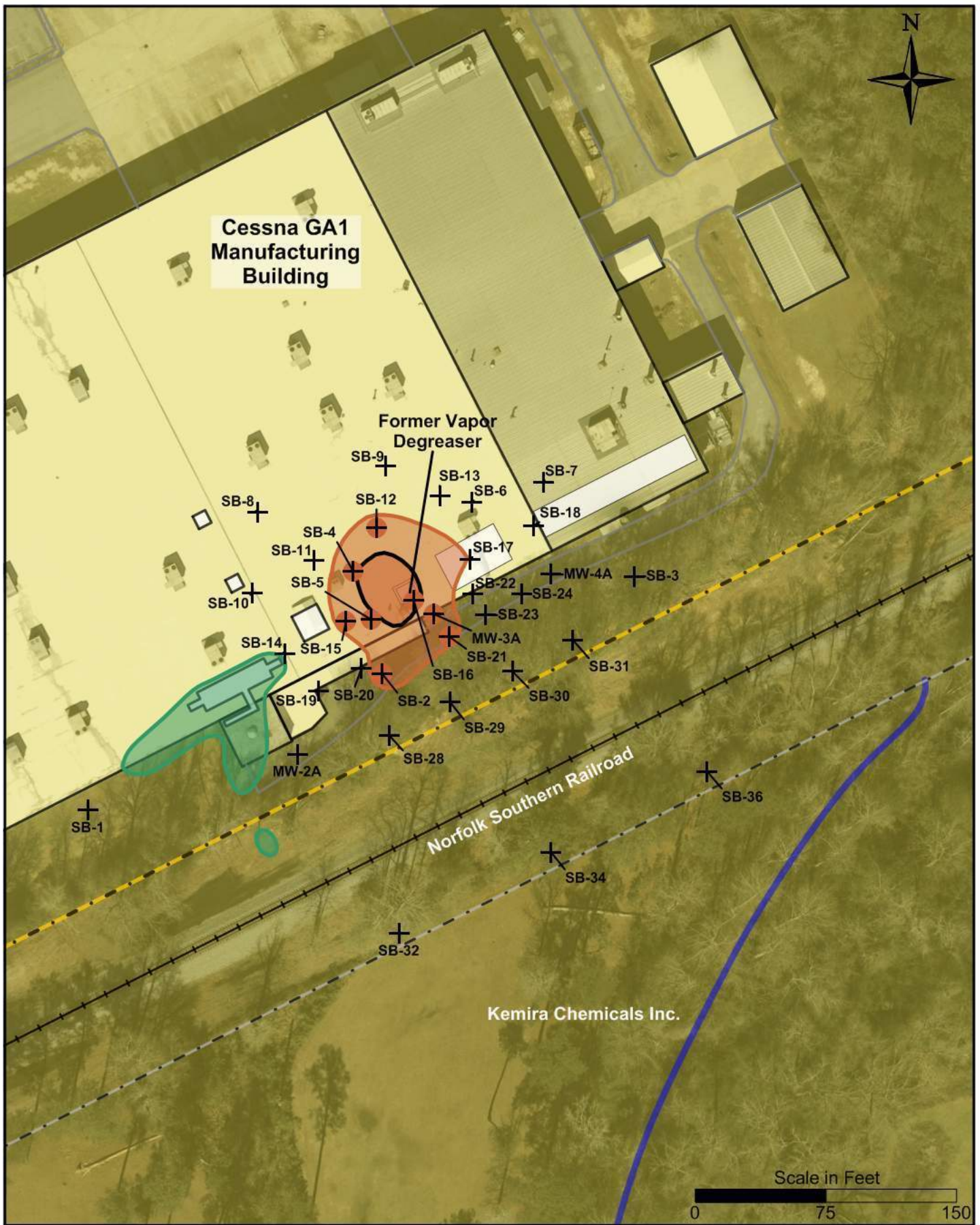
Unit A Potentiometric Surface  
 1/19/16  
 290  
 Contour Interval = 2 Feet  
 North American Vertical Datum, 1988

**Figure 2-4: Unit A Potentiometric Surface**  
 Cessna GA1 Facility  
 Columbus, Muscogee County, Georgia









**Cessna GA1  
Manufacturing  
Building**

**Former Vapor  
Degreaser**

**Norfolk Southern Railroad**

**Kemira Chemicals Inc.**

Scale in Feet

0 75 150

Stream

Offsite Properties

+ Soil Boring below Type 1/3 and Type 4 RRSs

Site Boundary

⊕ Soil Boring exceeds Type 1/3 RRS

Machine Oil  
Extent

Soil Exceeds  
Type 1/3 RRS

Soil Exceeds  
Type 4 RRS

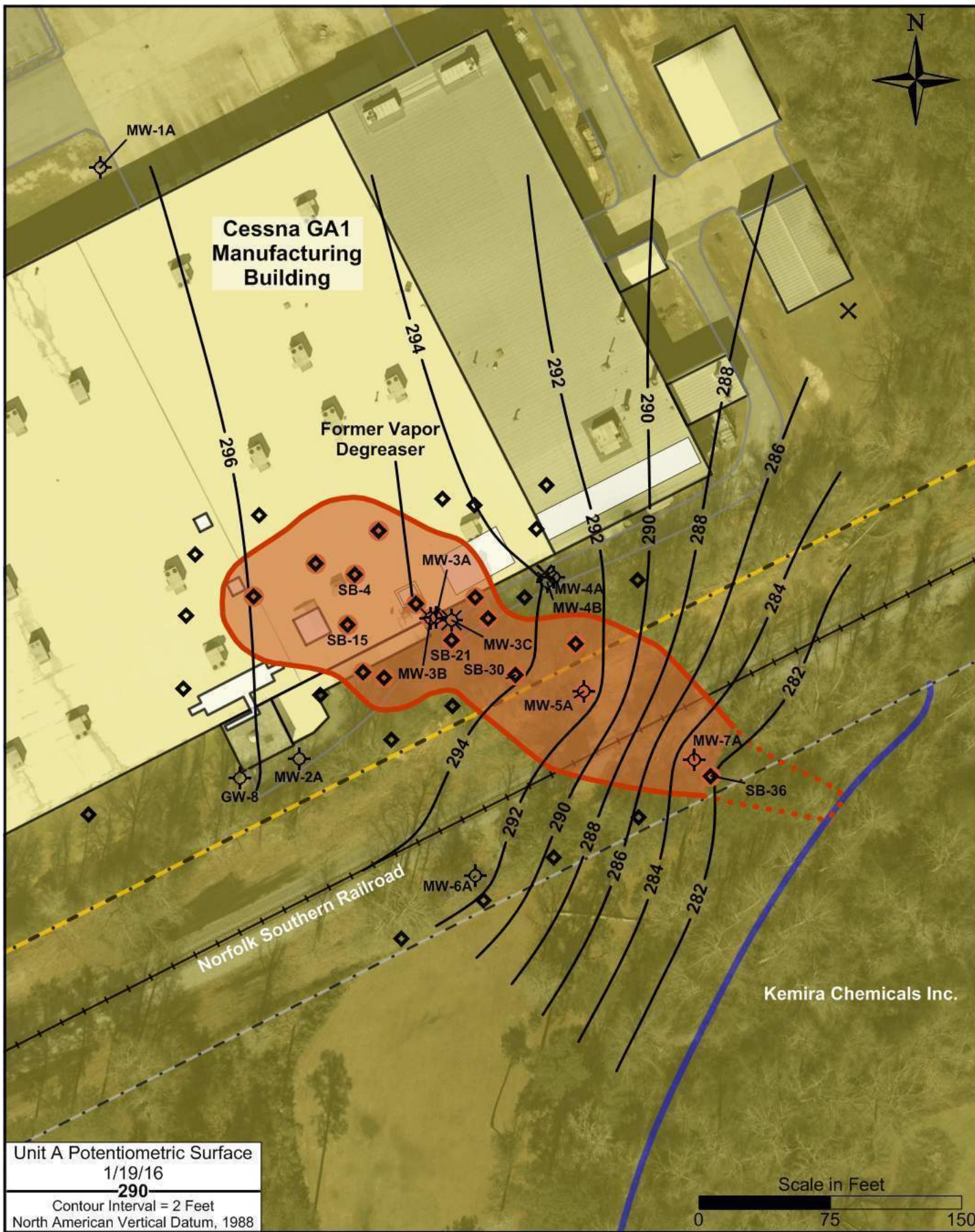
**Figure 3-1: Soil  
RRS Exceedances**

Cessna GA1 Facility

Columbus, Muscogee County, Georgia







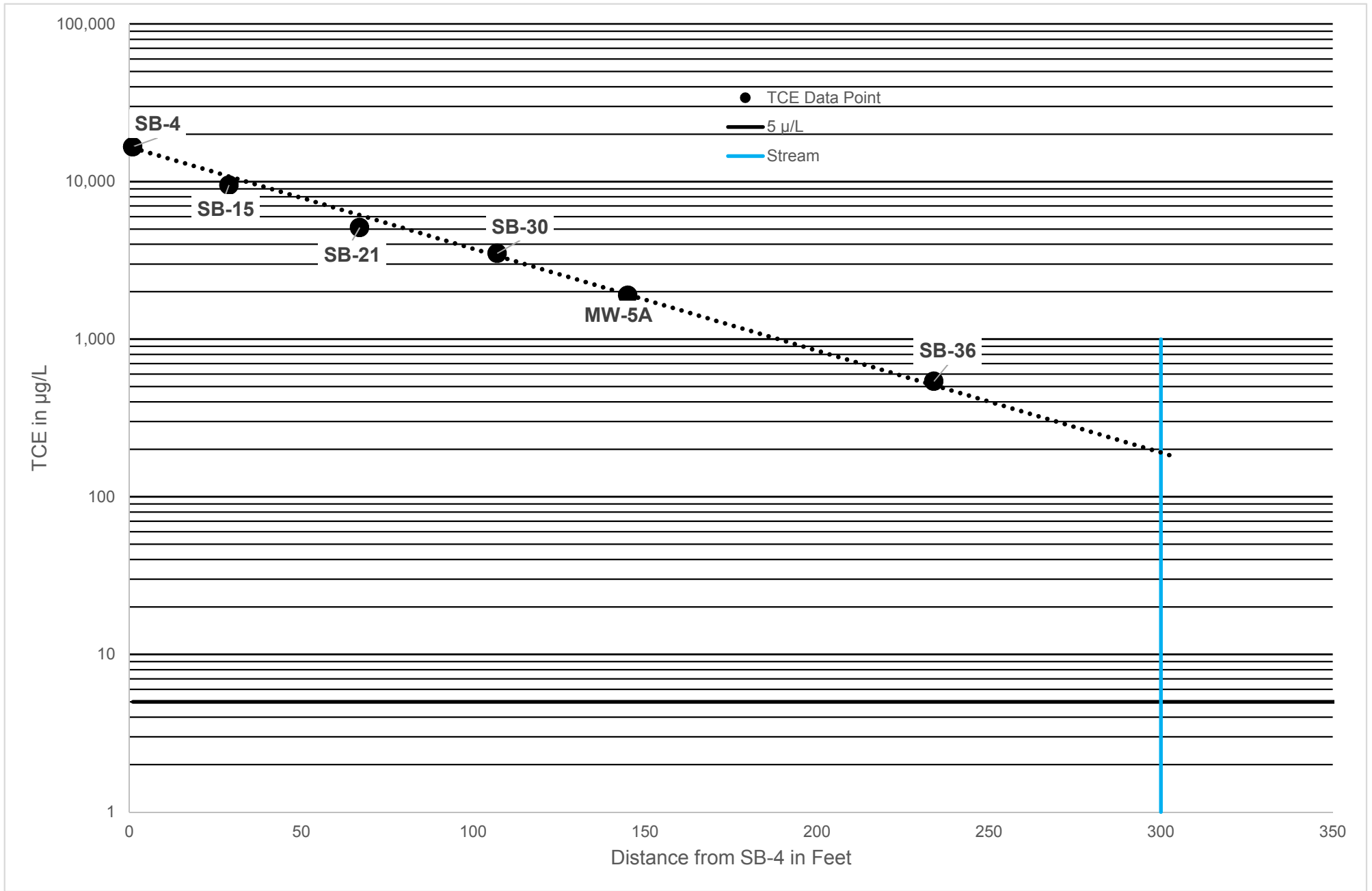
Unit A Potentiometric Surface  
1/19/16  
290  
Contour Interval = 2 Feet  
North American Vertical Datum, 1988

Scale in Feet  
0 75 150

- Offsite Properties
- Site Boundary
- Abandoned Monitoring Well
- Unit A Sediments Monitoring Well
- Unit B Saprolite Monitoring Well
- Unit C Upper Bedrock Monitoring Well
- Unit A Screening Location
- Exceeds Type 1/3 RRS
- Stream
- Inferred Extent
- Groundwater Exceeds Type 1/3 RRS



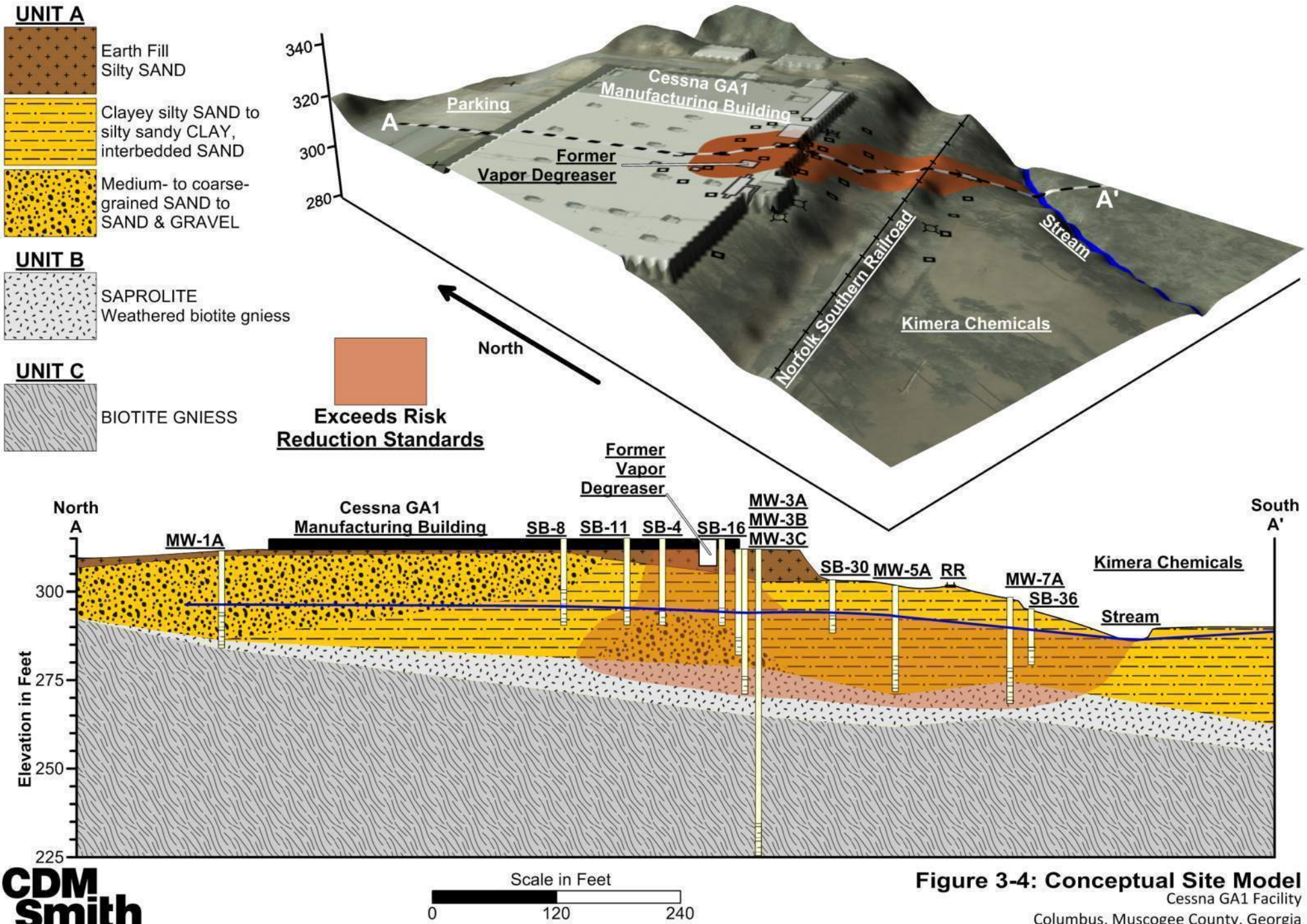
**Figure 3-2: Groundwater RRS Exceedances**  
Cessna GA1 Facility  
Columbus, Muscogee County, Georgia



**Figure 3-3: TCE Distribution in Groundwater**  
 Cessna GA1 Facility  
 Columbus, Muscogee County, Georgia







# Tables

Substance	CAS No.	Vadose Zone Soil RRSs, mg/kg						Groundwater RRSs, µg/L			
		Residential (off site)			Non-Residential (on site)			Residential (off site)		Non-Residential (on site)	
		Type 1	Type 2* HH	Type 2** SL	Type 3	Type 4* HH	Type 4** SL	Type 1	Type 2*	Type 3	Type 4*
Acetone	67641	<b>400</b>	33,000	<u>33</u>	<b>400</b>	260,000	<u>190</u>	4,000	<b>8,000</b>	4,000	<b>46,000</b>
Chloroform	67663	<b>3.9</b>	3.9	<u>0.44</u>	<b>4.9</b>	4.9	<u>0.44</u>	<b>80</b>	2.6	<b>80</b>	3.4
Trichloroethane, 1,1,1-	71556	<b>20</b>	2,300	<u>19</u>	20	11,000	<b>98</b>	200	<b>2,700</b>	200	<b>14,000</b>
Carbon Disulfide	75150	<b>400</b>	180	<u>24</u>	<b>400</b>	900	<u>24</u>	<b>4,000</b>	330	<b>4,000</b>	1,700
Bromodichloromethane	75274	<b>3.7</b>	3.7	<u>0.43</u>	<b>4.8</b>	4.7	<u>0.43</u>	<b>80</b>	1.6	<b>80</b>	2.1
Dichloroethane, 1,1-	75343	<b>400</b>	42	<u>23</u>	<b>400</b>	54	<u>23</u>	<b>4,000</b>	32	<b>4,000</b>	46
Dichloroethene, 1,1-	75354	<b>0.7</b>	51	<u>0.72</u>	0.7	250	<b>3.7</b>	7	<b>100</b>	7	<b>520</b>
2-Butanone	78933	<b>200</b>	9,300	<u>9.6</u>	<b>200</b>	54,000	<u>50</u>	2,000	<b>2,300</b>	2,000	<b>12,000</b>
Trichloroethane, 1,1,2-	79005	<b>0.5</b>	0.52	<u>0.032</u>	<b>0.5</b>	2.6	<u>0.032</u>	<b>5</b>	0.12	<b>5</b>	0.58
Trichloroethene	79016	<b>0.5</b>	1.4	<u>0.036</u>	<b>0.5</b>	7.1	<u>0.037</u>	<b>5</b>	1.0	5	<b>5.2</b>
Naphthalene	91203	<b>100</b>	55	<u>1.3</u>	<b>100</b>	77	<u>1.3</u>	<b>20</b>	1.8	<b>20</b>	2.4
Cumene	98828	<b>21.88</b>	890	<u>6.9</u>	21.88	4,800	<b>33</b>	PQL	<b>210</b>	PQL	<b>1,000</b>
Ethylbenzene	100414	<b>70</b>	92	<u>16</u>	<b>70</b>	120	<u>16</u>	<b>700</b>	19	<b>700</b>	29
Toluene	108883	<b>100</b>	3,600	<u>14</u>	<b>100</b>	33,000	<u>72</u>	<b>1,000</b>	880	1,000	<b>5,200</b>
Dichloroethene, 1,2-cis-	156592	<b>7</b>	160	<u>0.41</u>	<b>7</b>	4,100	<u>1.2</u>	<b>70</b>	31	70	<b>200</b>
Xylenes	1330207	<b>1,000</b>	230	<u>200</u>	<b>1,000</b>	1,100	<u>200</u>	<b>10,000</b>	58	<b>10,000</b>	290
Lead	7439921	<b>75</b>	NC	NC	<b>400</b>	NC	NC	<b>15</b>	NC	<b>15</b>	NC
Arsenic	7440382	<b>20</b>	6.1	<u>5.8</u>	<b>38</b>	38	<u>5.8</u>	<b>10</b>	0.57	<b>10</b>	1.9
Zinc	7440666	100	23,000	<b>5,800</b>	2,800	610,000	<b>39,000</b>	2,000	<b>4,700</b>	2,000	<b>31,000</b>

RRS - Risk Reduction Standard, **BOLD** values are selected for corrective action planning and delineation.

CAS - Chemical Abstract System

Type 1 - Default based on standard exposure assumptions and defined risk levels for residential properties.

HH - Human health effects.

Type 2 - Based on site-specific risk assessment for residential properties. Applicable soil RRS is underlined.

SL - Soil leaching to groundwater.

Type 3 - Default based on standard exposure assumptions and defined risk levels for non-residential properties.

PQL - Practical quantification limit.

Type 4 - Based on site-specific risk assessment for non-residential properties. Applicable soil RRS is underlined.

NC - Not calculated.

\* - Calculated using standard exposure assumptions and excludes vapor intrusion. Values are rounded to two significant digits to be consistent with the toxicity database.

\*\* - Based on an assumed dilution attenuation factor (DAF) of 20 for a 0.13-acre source area. Values are rounded to two significant digits to be consistent with the toxicity database. If a SL RRS is implemented for corrective action, data will be collected to derive a site-specific DAF and the SL RRS will be re-evaluated.

Soil Boring	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7
Depth	3 Feet	3 Feet	3 Feet	3 Feet	3 Feet	3 Feet	2 Feet
TPH-DRO (mg/Kg)	6,400	2,800	9,100	BRL	BRL	5,800	18,000

Soil Boring	SB-8			SB-9			SB-10		
Depth	5 Feet	10 Feet	15 Feet	5 Feet	10 Feet	15 Feet	5 Feet	10 Feet	15 Feet
TPH-DRO (mg/Kg)	16	BRL	BRL	BRL	BRL	BRL	4,400	BRL	BRL

Soil Boring	SB-11			SB-12			SB-13		
Depth	5 Feet	10 Feet	15 Feet	5 Feet	10 Feet	15 Feet	5 Feet	10 Feet	15 Feet
TPH-DRO (mg/Kg)	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL

Soil Boring	SB-14			SB-15			SB-16		
Depth	5 Feet	10 Feet	15 Feet	5 Feet	10 Feet	15 Feet	5 Feet	10 Feet	15 Feet
TPH-DRO (mg/Kg)	600	BRL	BRL	BRL	BRL	18	BRL	BRL	BRL

Soil Boring	SB-17		
Depth	5 Feet	10 Feet	15 Feet
TPH-DRO (mg/Kg)	BRL	880	BRL

Monitoring Well	MW-8
Depth	18 Feet
TPH-SGT/HEM (mg/L)	BRL
Naphthalene (µg/L)	37
2-Methylnaphthalene (µg/L)	14

BRL - Below Reporting Limit

TPH - Total petroleum hydrocarbons

DRO - Diesel range organics

SGT/HEM - Silica gel treated N-hexane extractable material

mg/kg - Milligram per kilogram

mg/L - Milligram per liter

µg/L - Microgram per liter

**Table 2-2: Machine Oil Investigation Results**  
 Cessna GA1 Facility  
 Columbus, Muscogee County, Georgia

T	On-Site RRS	SB-1	SB-2			SB-3	SB-4		SB-5		SB-6	SB-7
		4-6 ft	8-10 ft	12-14 ft	6-8 ft	8-10 ft	10-12 ft	10-12 ft	12-14 ft	4-6 ft	8-10 ft	
		4/14/2014	4/14/2014	4/14/2014	4/14/2014	4/14/2014	4/14/2014	4/14/2014	4/15/2014	4/15/2014	4/15/2014	4/15/2014
1,1,2-Trichloroethane	500	< 4.6	< 5.1	< 5.9	< 5.1	76	13.8	< 4.3	< 8.2	< 4.8	< 4.7	
1,1-Dichloroethane	400,000	< 4.6	< 5.1	< 5.9	< 5.1	46.7	25.9	65.6	24.4	< 4.8	< 4.7	
1,1-Dichloroethene	3,700	< 4.6	< 5.1	< 5.9	< 5.1	28.3	8.8	57.5	< 8.2	< 4.8	< 4.7	
Acetone	400,000	49.1	62.7	< 59	< 51	< 44	< 49	< 43	< 82	< 48	< 47	
cis-1,2-Dichloroethene	7,000	< 4.6	63.1	40.2	< 5.1	32.7	11.4	14.1	< 8.2	< 4.8	< 4.7	
Ethylbenzene	70,000	< 4.6	< 5.1	< 5.9	< 5.1	< 4.4	< 4.9	< 4.3	< 8.2	< 4.8	< 4.7	
Isopropyl benzene	21,880	< 4.6	< 5.1	< 5.9	< 5.1	< 4.4	< 4.9	< 4.3	< 8.2	< 4.8	< 4.7	
Total Xylenes	1,000,000	< 9.3	< 10	< 12	< 10	< 8.9	< 9.9	< 8.6	< 16	< 9.6	< 9.4	
Toluene	100,000	< 4.6	< 5.1	< 5.9	< 5.1	< 4.4	< 4.9	< 4.3	< 8.2	< 4.8	< 4.7	
Trichloroethene	500	< 4.6	<b>8,410</b>	<b>778</b>	< 5.1	<b>6,550</b>	<b>698</b>	<b>4,810</b>	<b>1,520</b>	35.7	< 4.7	
Arsenic	38,000	540	< 1,100	< 510	< 360	590	< 450	600	< 1,100	< 2,600	< 1,700	
Lead	400,000	5,800	7,900	4,000	6,000	5,200	4,200	9,100	6,600	6,300	6,200	
Zinc	26,000,000	3,600	2,600	2,400	9,300	5,200	3,900	7,800	8,500	14,400	5,100	

Compound	On-Site RRS	MW-2				MW-3				MW-4	
		1 ft	5 ft	10 ft	15 ft	1 ft	5 ft	10 ft	15 ft	5 ft	10 ft
		7/7/2014	7/7/2014	7/7/2014	7/7/2014	7/7/2014	7/7/2014	7/7/2014	7/7/2014	7/7/2014	7/7/2014
1,1,2-Trichloroethane	500	< 2.5	< 3.3	< 2.9	< 2.8	< 2.8	< 3.2	< 2.8	< 3.9	< 3.3	< 3.9
1,1-Dichloroethane	400,000	< 2.5	< 3.3	< 2.9	< 2.8	< 2.8	< 3.2	3.8	< 3.9	< 3.3	< 3.9
1,1-Dichloroethene	3,700	< 2.5	< 3.3	< 2.9	< 2.8	< 2.8	< 3.2	< 2.8	< 3.9	< 3.3	< 3.9
Acetone	400,000	< 50	< 65	< 58	< 57	120	< 63	74	< 78	< 67	< 78
cis-1,2-Dichloroethene	7,000	< 2.5	< 3.3	< 2.9	< 2.8	< 2.8	< 3.2	17	< 3.9	< 3.3	< 3.9
Ethylbenzene	70,000	< 2.5	< 3.3	< 2.9	< 2.8	55	< 3.2	< 2.8	< 3.9	< 3.3	< 3.9
Isopropyl benzene	21,880	< 2.5	< 3.3	< 2.9	< 2.8	3.1	< 3.2	< 2.8	< 3.9	< 3.3	< 3.9
Total Xylenes	1,000,000	2.8	< 3.3	< 2.9	< 2.8	261	< 3.2	< 2.8	< 3.9	< 3.3	< 3.9
Toluene	100,000	< 2.5	< 3.3	< 2.9	< 2.8	28	< 3.2	< 2.8	< 3.9	< 3.3	< 3.9
Trichloroethene	500	< 2.5	< 3.3	< 2.9	< 2.8	< 2.8	5.4	<b>1,100</b>	<b>610</b>	< 3.3	< 3.9

RRS - Risk Reduction Standard, refer to Table 2-1.

Shaded values exceed the RRS.

Concentrations are ug/kg.

< - Below the practical quantitation limit.

Compound	On-Site RRS	MW-4	SB-8				SB-9			SB-10		
		11 ft	5 ft	10 ft	15 ft	5-ft	10-ft	15-ft	5-ft	10-ft	15-ft	
		7/7/2014	7/8/2014	7/8/2014	7/8/2014	7/8/2014	7/8/2014	7/8/2014	7/8/2014	7/8/2014	7/8/2014	7/8/2014
1,1,2-Trichloroethane	500	< 2.6	< 3.8	< 4.4	< 3.2	< 3.4	< 3.5	< 3.4	< 3.2	< 3.9	< 4.1	
1,1-Dichloroethane	400,000	< 2.6	< 3.8	< 4.4	< 3.2	< 3.4	< 3.5	< 3.4	< 3.2	< 3.9	< 4.1	
1,1-Dichloroethene	3,700	< 2.6	< 3.8	< 4.4	< 3.2	< 3.4	< 3.5	< 3.4	< 3.2	< 3.9	< 4.1	
Acetone	400,000	< 52	< 77	< 88	< 63	< 69	< 70	< 69	< 63	< 78	< 82	
cis-1,2-Dichloroethene	7,000	< 2.6	< 3.8	< 4.4	< 3.2	< 3.4	< 3.5	< 3.4	< 3.2	< 3.9	< 4.1	
Ethylbenzene	70,000	< 2.6	< 3.8	< 4.4	< 3.2	< 3.4	< 3.5	< 3.4	< 3.2	< 3.9	< 4.1	
Isopropyl benzene	21,880	< 2.6	< 3.8	< 4.4	< 3.2	< 3.4	< 3.5	< 3.4	< 3.2	< 3.9	< 4.1	
Total Xylenes	1,000,000	< 2.6	< 3.8	< 4.4	< 3.2	< 3.4	< 3.5	< 3.4	< 3.2	< 3.9	< 4.1	
Toluene	100,000	< 2.6	< 3.8	< 4.4	< 3.2	< 3.4	< 3.5	< 3.4	< 3.2	< 3.9	< 4.1	
Trichloroethene	500	< 2.6	< 3.8	< 4.4	< 3.2	< 3.4	< 3.5	< 3.4	< 3.2	< 3.9	< 4.1	

Compound	On-Site RRS	SB-11			SB-12			SB-13			SB-14
		5-ft	10-ft	15-ft	5-ft	10-ft	15-ft	5-ft	10-ft	15-ft	10-ft
		7/8/2014	7/8/2014	7/8/2014	7/8/2014	7/8/2014	7/8/2014	7/8/2014	7/8/2014	7/8/2014	7/8/2014
1,1,2-Trichloroethane	500	< 3.0	< 3.6	< 4.2	< 3.0	< 3.1	< 3.5	< 3.2	< 3.5	< 4.2	< 3.1
1,1-Dichloroethane	400,000	< 3.0	< 3.6	< 4.2	< 3.0	< 3.1	14	< 3.2	< 3.5	< 4.2	< 3.1
1,1-Dichloroethene	3,700	< 3.0	< 3.6	< 4.2	< 3.0	< 3.1	10	< 3.2	< 3.5	< 4.2	< 3.1
Acetone	400,000	< 60	< 72	< 85	< 61	< 62	< 70	< 63	< 71	< 83	< 62
cis-1,2-Dichloroethene	7,000	< 3.0	< 3.6	< 4.2	< 3.0	< 3.1	< 3.5	< 3.2	< 3.5	< 4.2	< 3.1
Ethylbenzene	70,000	< 3.0	< 3.6	< 4.2	< 3.0	< 3.1	< 3.5	< 3.2	< 3.5	< 4.2	< 3.1
Isopropyl benzene	21,880	< 3.0	< 3.6	< 4.2	< 3.0	< 3.1	< 3.5	< 3.2	< 3.5	< 4.2	< 3.1
Total Xylenes	1,000,000	< 3.0	< 3.6	< 4.2	< 3.0	< 3.1	< 3.5	< 3.2	< 3.5	< 4.2	< 3.1
Toluene	100,000	< 3.0	< 3.6	< 4.2	< 3.0	< 3.1	< 3.5	< 3.2	< 3.5	< 4.2	< 3.1
Trichloroethene	500	36	12	< 4.2	<b>2,700</b>	29	110	34	< 3.5	< 4.2	< 3.1

RRS - Risk Reduction Standard, refer to Table 2-1.

Shaded values exceed the RRS.

Concentrations are ug/kg.

< - Below the practical quantitation limit.

Compound	On-Site RRS	SB-14	SB-15				SB-16			SB-17		
		15-ft	5-ft	10-ft	15-ft	5-ft	10-ft	15-ft	5-ft	10-ft	15-ft	
		7/8/2014	7/8/2014	7/8/2014	7/8/2014	7/8/2014	7/8/2014	7/8/2014	7/8/2014	7/8/2014	7/8/2014	7/8/2014
1,1,2-Trichloroethane	500	< 2.7	< 3.0	< 2.7	< 3.6	< 3.6	4.0	< 3.7	< 2.6	< 3.1	< 2.8	
1,1-Dichloroethane	400,000	< 2.7	< 3.0	28	< 3.6	< 3.6	7.2	16	< 2.6	< 3.1	< 2.8	
1,1-Dichloroethene	3,700	< 2.7	< 3.0	50	< 3.6	< 3.6	< 2.8	< 3.7	< 2.6	3.4	< 2.8	
Acetone	400,000	< 53	< 60	< 55	< 72	< 72	< 57	< 75	< 52	< 61	< 56	
cis-1,2-Dichloroethene	7,000	< 2.7	< 3.0	23	< 3.6	< 3.6	< 2.8	< 3.7	< 2.6	< 3.1	< 2.8	
Ethylbenzene	70,000	< 2.7	< 3.0	< 2.7	< 3.6	< 3.6	< 2.8	< 3.7	< 2.6	< 3.1	< 2.8	
Isopropyl benzene	21,880	< 2.7	< 3.0	< 2.7	< 3.6	< 3.6	< 2.8	< 3.7	< 2.6	< 3.1	< 2.8	
Total Xylenes	1,000,000	< 2.7	< 3.0	< 2.7	< 3.6	< 3.6	< 2.8	< 3.7	< 2.6	< 3.1	< 2.8	
Toluene	100,000	< 2.7	< 3.0	< 2.7	< 3.6	< 3.6	< 2.8	< 3.7	< 2.6	< 3.1	< 2.8	
Trichloroethene	500	< 2.7	19	1,900	44	3,400	12,000	14,000	< 2.6	490	< 2.8	

Compound	On-Site RRS	SB-18			SB-19			SB-20			SB-21
		5-ft	10-ft	15-ft	5-ft	10-ft	15-ft	5-ft	10-ft	15-ft	5-ft
		7/8/2014	7/8/2014	7/8/2014	7/9/2014	7/9/2014	7/9/2014	7/9/2014	7/9/2014	7/9/2014	7/9/2014
1,1,2-Trichloroethane	500	< 2.9	< 3.6	< 2.9	< 3.3	< 3.5	< 3.8	< 3.1	< 2.5	< 3.2	< 2.5
1,1-Dichloroethane	400,000	4.5	< 3.6	< 2.9	< 3.3	< 3.5	< 3.8	< 3.1	< 2.5	< 3.2	< 2.5
1,1-Dichloroethene	3,700	< 2.9	< 3.6	< 2.9	< 3.3	< 3.5	< 3.8	< 3.1	< 2.5	< 3.2	< 2.5
Acetone	400,000	< 59	< 72	< 58	< 67	< 70	< 75	< 61	< 50	< 64	< 50
cis-1,2-Dichloroethene	7,000	< 2.9	< 3.6	< 2.9	< 3.3	< 3.5	< 3.8	< 3.1	< 2.5	< 3.2	< 2.5
Ethylbenzene	70,000	< 2.9	< 3.6	< 2.9	< 3.3	< 3.5	< 3.8	< 3.1	< 2.5	< 3.2	< 2.5
Isopropyl benzene	21,880	< 2.9	< 3.6	< 2.9	< 3.3	< 3.5	< 3.8	< 3.1	< 2.5	< 3.2	< 2.5
Total Xylenes	1,000,000	< 2.9	< 3.6	< 2.9	< 3.3	< 3.5	< 3.8	< 3.1	< 2.5	< 3.2	< 2.5
Toluene	100,000	< 2.9	< 3.6	< 2.9	< 3.3	< 3.5	< 3.8	< 3.1	< 2.5	< 3.2	< 2.5
Trichloroethene	500	5.3	< 3.6	< 2.9	< 3.3	< 3.5	< 3.8	< 3.1	26	19	19

RRS - Risk Reduction Standard, refer to Table 2-1.

Shaded values exceed the RRS.

Concentrations are ug/kg.

< - Below the practical quantitation limit.

Compound	On-Site RRS	SB-21		SB-22			SB-23			SB-24	
		10-ft	15-ft	5-ft	10-ft	15-ft	5-ft	10-ft	15-ft	5-ft	10-ft
		7/9/2014	7/9/2014	7/9/2014	7/9/2014	7/9/2014	7/9/2014	7/9/2014	7/9/2014	7/9/2014	7/9/2014
1,1,2-Trichloroethane	500	< 3.6	< 3.3	< 2.8	< 3.3	< 3.7	< 3.8	< 2.8	< 4.8	< 3.4	< 3.0
1,1-Dichloroethane	400,000	< 3.6	< 3.3	< 2.8	< 3.3	< 3.7	< 3.8	< 2.8	< 4.8	< 3.4	< 3.0
1,1-Dichloroethene	3,700	< 3.6	< 3.3	< 2.8	< 3.3	< 3.7	< 3.8	< 2.8	< 4.8	< 3.4	< 3.0
Acetone	400,000	< 73	< 66	< 56	< 66	< 73	< 76	< 55	< 96	< 68	63
cis-1,2-Dichloroethene	7,000	< 3.6	< 3.3	< 2.8	19	18	< 3.8	< 2.8	< 4.8	< 3.4	< 3.0
Ethylbenzene	70,000	< 3.6	< 3.3	< 2.8	< 3.3	< 3.7	< 3.8	< 2.8	< 4.8	< 3.4	< 3.0
Isopropyl benzene	21,880	< 3.6	< 3.3	< 2.8	< 3.3	< 3.7	< 3.8	< 2.8	< 4.8	< 3.4	< 3.0
Total Xylenes	1,000,000	< 3.6	< 3.3	< 2.8	< 3.3	< 3.7	< 3.8	< 2.8	< 4.8	< 3.4	< 3.0
Toluene	100,000	< 3.6	< 3.3	< 2.8	< 3.3	< 3.7	< 3.8	< 2.8	< 4.8	< 3.4	< 3.0
Trichloroethene	500	1,100	120	< 2.8	71	51	< 3.8	180	8.6	< 3.4	< 3.0

Compound	On-Site RRS	SB-24	SB-28		SB-29		SB-30		SB-31		
		15-ft	2-ft	5-ft	2-ft	5-ft	2-ft	5-ft	2-ft	5-ft	10-ft
		7/9/2014	12/9/2014	12/9/2014	12/9/2014	12/9/2014	12/9/2014	12/9/2014	12/8/2014	12/8/2014	12/8/2014
1,1,2-Trichloroethane	500	< 2.8	< 2.8	< 2.4	< 3.0	< 3.0	< 3.6	< 2.6	< 3.0	< 3.4	< 3.0
1,1-Dichloroethane	400,000	< 2.8	< 2.8	< 2.4	< 3.0	< 3.0	< 3.6	< 2.6	< 3.0	< 3.4	< 3.0
1,1-Dichloroethene	3,700	< 2.8	< 2.8	< 2.4	< 3.0	< 3.0	< 3.6	< 2.6	< 3.0	< 3.4	< 3.0
Acetone	400,000	< 57	< 57	< 48	< 59	< 59	< 72	< 53	< 60	< 69	< 60
cis-1,2-Dichloroethene	7,000	< 2.8	< 2.8	< 2.4	< 3.0	< 3.0	< 3.6	< 2.6	< 3.0	< 3.4	< 3.0
Ethylbenzene	70,000	< 2.8	< 2.8	< 2.4	< 3.0	< 3.0	< 3.6	< 2.6	< 3.0	< 3.4	< 3.0
Isopropyl benzene	21,880	< 2.8	< 2.8	< 2.4	< 3.0	< 3.0	< 3.6	< 2.6	< 3.0	< 3.4	< 3.0
Total Xylenes	1,000,000	< 2.8	< 2.8	< 2.4	< 3.0	< 3.0	< 3.6	< 2.6	< 3.0	< 3.4	< 3.0
Toluene	100,000	< 2.8	< 2.8	< 2.4	< 3.0	< 3.0	< 3.6	< 2.6	< 3.0	< 3.4	< 3.0
Trichloroethene	500	< 2.8	< 2.8	< 2.4	< 3.0	< 3.0	< 3.6	< 2.6	< 3.0	< 3.4	< 3.0

RRS - Risk Reduction Standard, refer to Table 2-1.

Shaded values exceed the RRS.

Concentrations are ug/kg.

< - Below the practical quantitation limit.



Compound	Off-Site RRS	SB-32		SB-34		SB-36	
		2-ft	5-ft	2-ft	5-ft	2-ft	5-ft
		12/8/2014	12/8/2014	12/8/2014	12/8/2014	12/8/2014	12/8/2014
1,1,2-Trichloroethane	500	< 2.7	< 2.9	< 3.8	< 3.2	< 2.6	< 3.4
1,1-Dichloroethane	400,000	< 2.7	< 2.9	< 3.8	< 3.2	< 2.6	< 3.4
1,1-Dichloroethene	700	< 2.7	< 2.9	< 3.8	< 3.2	< 2.6	< 3.4
Acetone	400,000	< 55	< 57	< 76	< 64	< 53	< 67
cis-1,2-Dichloroethene	7,000	< 2.7	< 2.9	< 3.8	< 3.2	< 2.6	< 3.4
Ethylbenzene	70,000	< 2.7	< 2.9	< 3.8	< 3.2	< 2.6	< 3.4
Isopropyl benzene	21,880	< 2.7	< 2.9	< 3.8	< 3.2	< 2.6	< 3.4
Total Xylenes	1,000,000	< 2.7	< 2.9	< 3.8	< 3.2	< 2.6	< 3.4
Toluene	100,000	< 2.7	< 2.9	< 3.8	< 3.2	< 2.6	< 3.4
Trichloroethene	500	< 2.7	< 2.9	< 3.8	< 3.2	< 2.6	< 3.4

RRS - Risk Reduction Standard, refer to Table 2-1.

Shaded values exceed the RRS.

Concentrations are ug/kg.

< - Below the practical quantitation limit.

Compound	On-Site RRS	GW-4	GW-5	GW-6	GW-7	GW-8				
		5/6/2010	5/6/2010	5/6/2010	5/6/2010	5/6/2010	2/27/2012	4/15/2014	8/4/2014	1/19/2016
1,1,1-Trichloroethane	14,000	BRL	BRL	BRL	BRL	BRL	< 1.0	< 1.0	< 5.0	< 5.0
1,1-Dichloroethane	4,000	BRL	BRL	BRL	BRL	BRL	< 1.0	< 1.0	< 5.0	< 5.0
1,1-Dichloroethene	520	BRL	BRL	BRL	BRL	BRL	< 1.0	< 1.0	< 5.0	< 5.0
2-Butanone	12,000	BRL	BRL	BRL	BRL	BRL	< 5.0	< 5.0	< 50	< 50
Bromodichloromethane	80	BRL	BRL	BRL	BRL	BRL	< 1.0	< 1.0	< 5.0	< 5.0
Carbon Disulfide	4,000	BRL	BRL	BRL	BRL	BRL	< 2.0	< 2.0	< 5.0	< 5.0
Chloroform	80	BRL	BRL	BRL	BRL	BRL	< 1.0	< 1.0	< 5.0	< 5.0
cis-1,2-Dichloroethene	200	BRL	BRL	BRL	BRL	BRL	< 1.0	< 1.0	< 5.0	< 5.0
Trichloroethene	5.2	BRL	BRL	BRL	BRL	BRL	< 1.0	< 1.0	< 5.0	< 5.0
Naphthalene	20	--	--	--	--	--	37 / 12	< 1.0	--	--

Compound	On-Site RRS	SB-1	SB-2	SB-3	SB-4	SB-6	SB-7	SB-8	SB-10	SB-11	SB-12
		4/15/2014	4/15/2014	4/15/2014	4/15/2014	4/15/2014	4/15/2014	7/8/2014	7/8/2014	7/8/2014	7/8/2014
1,1,1-Trichloroethane	14,000	< 1.0	< 25	< 1.0	< 250	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	4,000	< 1.0	< 25	< 1.0	< 250	< 1.0	< 1.0	< 5.0	5.5	31	5.9
1,1-Dichloroethene	520	< 1.0	< 25	< 1.0	< 250	1.9	< 1.0	< 5.0	<b>30</b>	<b>39</b>	<b>18</b>
2-Butanone	12,000	< 5.0	< 130	< 5.0	< 370	< 5.0	< 5.0	< 50	< 50	< 50	< 50
Bromodichloromethane	80	< 1.0	< 25	< 1.0	< 250	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	4,000	< 2.0	< 50	< 2.0	< 500	< 2.0	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	80	< 1.0	< 25	< 1.0	< 250	1.7	< 1.0	< 5.0	< 5.0	< 5.0	18
cis-1,2-Dichloroethene	200	< 1.0	47.8	< 1.0	< 250	< 1.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethene	5.2	< 1.0	<b>2,200</b>	< 1.0	<b>16,600</b>	2.1	< 1.0	< 5.0	<b>430</b>	<b>1,100</b>	<b>64</b>

RRS - Risk Reduction Standard, refer to Table 2-1.

Concentrations are µg/L

Shaded values exceed the RRS.

BRL - Below reporting level.

< - Below the practical quantitation limit

Compound	On-Site RRS	SB-13	SB-15	SB-16	SB-18	SB-19	SB-20	SB-21	SB-22	SB-23	SB-24
		7/8/2014	7/8/2014	7/8/2014	7/8/2014	7/9/2014	7/9/2014	7/9/2014	7/9/2014	7/9/2014	7/9/2014
1,1,1-Trichloroethane	14,000	< 5.0	6	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	4,000	< 5.0	72	30	< 5.0	< 5.0	< 5.0	15	< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	520	< 5.0	<b>120</b>	<b>12</b>	< 5.0	< 5.0	< 5.0	<b>7.6</b>	< 5.0	< 5.0	< 5.0
2-Butanone	12,000	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Bromodichloromethane	80	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	4,000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	80	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,2-Dichloroethene	200	< 5.0	< 5.0	5.4	< 5.0	< 5.0	< 5.0	24	< 5.0	< 5.0	< 5.0
Trichloroethene	5.2	< 5.0	<b>9,500</b>	<b>2,500</b>	< 5.0	< 5.0	<b>41</b>	<b>5,100</b>	82	<b>53</b>	< 5.0

Compound	On-Site RRS	SB-25	SB-26	SB-27	SB-28	SB-29	SB-30	SB-31	MW-1A		MW-2A
		12/9/2014	12/9/2014	12/9/2014	12/9/2014	12/9/2014	12/9/2014	12/8/2014	8/4/2014	1/19/2016	8/4/2014
1,1,1-Trichloroethane	14,000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	4,000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	17	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	520	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<b>9.5</b>	< 5.0	< 5.0	< 5.0	< 5.0
2-Butanone	12,000	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Bromodichloromethane	80	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	4,000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	80	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,2-Dichloroethene	200	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	17	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethene	5.2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<b>3,500</b>	<b>260</b>	< 5.0	< 5.0	< 5.0

RRS - Risk Reduction Standard, refer to Table 2-1.

< - Below the practical quantitation limit

Concentrations are µg/L

Shaded values exceed the RRS.

Compound	On-Site RRS	MW-2A	MW-3A	MW-3A	MW-3B		MW-3C	MW-4A		MW-4B	
		1/19/2016	8/4/2014	1/20/2016	8/4/2014	1/20/2016	1/20/2016	8/4/2014	1/20/2016	8/4/2014	1/20/2016
1,1,1-Trichloroethane	14,000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	4,000	< 5.0	< 5.0	8.6	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	520	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Butanone	12,000	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Bromodichloromethane	80	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	7	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	4,000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	6.8	< 5.0
Chloroform	80	< 5.0	< 5.0	< 5.0	< 5.0	9	57	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,2-Dichloroethene	200	< 5.0	< 5.0	12	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethene	5.2	< 5.0	160	1,000	71	11	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

Compound	Off-Site RRS	MW-5A	MW-6A	MW-7A	SB-32	SB-33	SB-34	SB-35	SB-36
		1/19/2016	1/19/2016	1/19/2016	12/8/2014	12/8/2014	12/8/2014	12/8/2014	12/8/2014
1,1,1-Trichloroethane	2,700	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	4,000	10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	100	6.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Butanone	2,300	< 50	< 50	190	< 50	< 50	< 50	< 50	< 50
Bromodichloromethane	80	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Disulfide	4,000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	80	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,2-Dichloroethene	70	30	< 5.0	49	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethene	5	1,900	< 5.0	100	< 5.0	< 5.0	< 5.0	< 5.0	540

RRS - Risk Reduction Standard, refer to Table 2-1.

< - Below the practical quantitation limit

Concentrations are µg/L

Shaded values exceed the RRS.

Well Code	Geologic Unit	Date Installed	Total Depth Feet	Elevation TOC Feet	Screen Depth Feet		Water Level Feet TOC (8/7/14)		Water Level Feet TOC (1/19/16)	
					From	To	Depth	Elevation	Depth	Elevation
MW-1A	A	Jul-14	27.5	311.09	17.5	27.5	15.15	295.94	14.73	296.36
MW-2A	A	Jul-14	33	311.89	23	33	18.17	293.72	16.71	295.18
MW-3A	A	Jul-14	30	312.09	25	30	19.41	292.68	18.12	293.97
MW-3B	B	Jul-14	41	312.32	36	41	19.43	292.89	18.14	294.18
MW-3C	C	Jan-16	87.5	312.32	77.5	87.5	--	--	82.50	229.82
MW-4A	A	Jul-14	30	313.17	25	30	20.51	292.66	19.28	293.89
MW-4B	B	Jul-14	47	313.11	42	47	21.14	291.97	18.95	294.16
MW-5A	A	Nov-15	30	299.59	20	30	--	--	6.34	293.25
MW-6A	A	Nov-15	21.5	298.34	11.5	21.5	--	--	5.42	292.92
MW-7A	A	Nov-15	30	297.88	20	30	--	--	15.40	282.48
GW-8	A	May-10	18	314.34	8	18	20.26	294.08	17.92	296.42

A - Unconsolidated Coastal Plain sediments and recent alluvium

B - Piedmont saprolite

C - Piedmont upper bedrock

Elevation is National Geodetic Vertical Datum, 1929

All wells are 2-inch diameter

TOC - Top of casing



Compound	Indoor 1	Indoor 2	Indoor 3	Outdoor 1	VISL
	8/12/2014	8/12/2014	8/12/2014	8/12/2014	
2-Butanone*	1.6	2	3.8	2.4	2,200
Acetone*	14	15	27	14	14,000
Carbon disulfide*	< 1.6	0.28 J	4.2	1.4 J	310
Ethylbenzene*	0.89	1	0.82 J	0.54 J	49
Toluene*	4.2	5.7	4.7	4.8	2,200
Trichloroethene*	<b>13</b>	<b>16</b>	<b>14</b>	<b>3.1</b>	0.88
Xylene (total)*	6	6.5	5.4	2.6	44
1,1,2,2-Tetrachloroethane	< 1.4	0.16 J	< 1.4	<b>8.8</b>	2.1
2,2,4-Trimethylpentane	1.7	2.6	1.8	2.3	NC
Benzene	1.2	1.6	3.3	1.7	13
Chloromethane	1.2	1.3	1.8	1.4	39
Cyclohexane	0.66 J	0.98	0.49 J	< 0.69	2,600
Chlorodifluoromethane	17	17	18	2.9	44
Methyl Isobutyl Ketone	2.7	3	2.5	0.44 J	1,300
n-Butane	6.6	11	6.7	7.8	NC
n-Heptane	1.2	1.6	1.1	1.3	NC
n-Hexane	4.7	7.1	4.9	5.6	310
Trichlorofluoromethane	1.1	1.2	1.2	1.2	NC

VISL - EPA Vapor intrusion screening level based on non-residential exposure assumptions, a  $10^{-5}$  target excess lifetime cancer risk, and a 0.1 target hazard index.

\* - Compound detected in soil and/or groundwater. Concentrations are  $\mu\text{g}/\text{m}^3$ .

J - Estimated value above the method detection limit but lower than the laboratory reporting limit.

B - Compound was detected in a blank. < - Below the practical quantitation limit.

**Bold** - Non-estimated value exceeds the VISL.

NC - Not calculated, the supporting input values are not available.

Compound	Indoor 1	Indoor 2	Indoor 3	Outdoor 1	Outdoor 2	VISL
	10/4/2015	10/4/2015	10/4/2015	10/4/2015	10/4/2015	
2-Butanone*	13	17	15	2.6	2.9	2,200
Acetone*	33	47	52	14	16	14,000
Carbon disulfide*	1.2 J	3.4	19	0.93 J	12	310
cis-1,2-Dichloroethene*	0.71 J	1.7	0.19 J	< 0.79	< 0.79	NC
Ethylbenzene*	0.57 J	0.51 J	1.1	< 0.87	< 0.87	49
Naphthalene*	< 2.6	0.42 J	<b>4.2</b>	< 2.6	< 2.6	1.3
Toluene*	5.5	5.9	6.9	0.66 J	0.65 J	2,200
Trichloroethene*	<b>9.4</b>	<b>31</b>	<b>3.4</b>	< 1.1	< 1.1	0.88
Xylene (total)*	3.7	3.3	7.8	0.35 J	< 3	44
1,2,4-Trimethylbenzene	2.4	1.4	2.3	< 0.98	< 0.98	3.1
4-Isopropyltoluene	0.74 J	0.5 J	1.9	< 1.1	< 1.1	NC
Chloromethane	1.8	15	2.5	1.2	1.3	39
Dichlorodifluoromethane	4.5	4.3	3.1	3.2	2.7	44
Isopropyl alcohol	6.1 J	7.3 J	70	< 12	< 12	88
n-Butane	3.2	3	2.1	2.6	2.1	NC
n-Hexane	3.8	5.2	5.3	0.25 J	0.2 J	310
Styrene	4.3	2.2	1.7	0.19 J	0.24 J	440
Tetrahydrofuran	17	19	11 J	< 15	< 15	880
Trichlorofluoromethane	2.4	2.2	1.6	1.6	1.4	NC

VISL - EPA Vapor intrusion screening level based on non-residential exposure assumptions, a  $10^{-5}$  target excess lifetime cancer risk, and a 0.1 target hazard index.

\* - Compound detected in soil and/or groundwater.

Concentrations are  $\mu\text{g}/\text{m}^3$ .

J - Estimated value above the method detection limit but lower than the laboratory reporting limit.

< - Below the practical quantitation limit.

**Bold** - Non-estimated value exceeds the VISL.

NC - Not calculated, the supporting input values are not available.

Sample	Compound	Isotope	
		Carbon ( $\delta^{13}\text{C}\text{‰}$ )	Chlorine ( $\delta^{37}\text{Cl}\text{‰}$ )
Indoor Air 1	Trichloroethene	-25.4	2.9
Indoor Air 2	Trichloroethene	-25.6	3.1
Sub-Slab Soil Vapor	Trichloroethene	-25.5	3.8
MW-3A	Trichloroethene	-26.4	2.0

Results reported in parts per thousand (‰).

$^{13}\text{C}/^{12}\text{C}$  calibrated to the international Vienna Pee Dee Belemnite scale.

$^{37}\text{Cl}/^{35}\text{Cl}$  calibrated to the international Standard Mean Ocean Chloride scale.

Appendix A  
RRS Calculations

**Type 1 Risk Reduction Standards (RRSs) pose no significant risk on the basis of  
STANDARDIZED EXPOSURE ASSUMPTIONS and defined risk level for  
RESIDENTIAL PROPERTIES.**

**RAGS Equation 6  
Residential Soil - Carcinogenic Effects**

$$C_{car} \text{ mg/kg} = \frac{TR \times BW \times AT_{car} \times 365 \text{ days/year}}{EF \times ED \times [(SF_o \times 10^{-6} \text{ kg/mg} \times IR_{soil}) + (SF_i \times IR_{air} \times \{1/VF + 1/PEF\})]}$$

Parameter	Definition (units)	Default Value	Source
$C_{car}$	Concentration in soil (mg/kg)	Calculated	Not Applicable
$TR_{A/B}$	IRIS Carcinogen Class A/B target excess lifetime cancer risk	1.E-05	HSRA Rules
$TR_C$	IRIS Carcinogen Class C target excess lifetime cancer risk	1.E-04	HSRA Rules
$SF_i$	Inhalation cancer slope factor (mg/kg-dy) <sup>-1</sup> = IUR x 1,000 x BW 70 kg / IR <sub>air</sub> 20 m <sup>3</sup> /dy	Chemical-Specific	Not Applicable
IUR	Inhalation unit risk (ug/m <sup>3</sup> ) <sup>-1</sup>	Chemical-Specific	Not Applicable
$SF_o$	Oral cancer slope factor (mg/kg-dy) <sup>-1</sup>	Chemical-Specific	Not Applicable
$AT_{car}$	Averaging Time (yr)	70	HSRA Rules

**RAGS Equation 7  
Residential Soil - Noncarcinogenic Effects**

$$C_{noncar} \text{ mg/kg} = \frac{THI \times BW \times AT_{noncar} \times 365 \text{ days/year}}{ED \times EF \times \{[(1/RfD_o) \times 10^{-6} \text{ kg/mg} \times IR_{soil}] + [(1/RfD_i) \times IR_{air} \times (1/VF + 1/PEF)]\}}$$

Parameter	Definition (units)	Default Value	Source
$C_{noncar}$	Concentration in soil (mg/kg)	Calculated	Not Applicable
THI	Target hazard index (none)	1	HSRA Rules
$RfD_o$	Oral chronic reference dose (mg/kg-dy)	Chemical-Specific	Not Applicable
$RfD_i$	Inhalation chronic reference dose (mg/kg-dy) = $RfC_i \times IR_{air} \times 20 \text{ m}^3/\text{dy} / BW \text{ 70 kg}$	Chemical-Specific	Not Applicable
$RfC_i$	Inhalation reference concentration (mg/m <sup>3</sup> )	Chemical-Specific	Not Applicable
$AT_{noncar}$	Averaging time (yr)	30	HSRA Rules



Standard Assumptions			
BW	Body weight (kg)	70	HSRA Rules
EF	Exposure frequency (dy/yr)	350	HSRA Rules
ED	Exposure duration (yr)	30	HSRA Rules
IR <sub>air</sub>	Inhalation rate (m <sup>3</sup> /dy)	15	HSRA Rules
IR <sub>soil</sub>	Soil ingestion rate (mg/dy)	114	HSRA Rules
PEF	Particulate emission factor (m <sup>3</sup> /kg)	4.63E+09	HSRA Rules

Soil-to-Air Volatilization Factor (VF)			
$VF (m^3/kg) = \frac{(LS \times V \times DH) \times (\pi \times \alpha \times T)^{1/2}}{A \times 2 \times D_{ei} \times E \times K_{as} \times 10^{-3} \text{ kg/g}}$			
Parameter	Definition (units)	Default Value	Source
LS	Length of side of contaminated area (m)	45	HSRA Rules
V	Wind speed in mixing zone (m/s)	2.25	HSRA Rules
A	Area of contamination (cm <sup>2</sup> )	2.03E+07	HSRA Rules
DH	Diffusion height (m)	2	HSRA Rules
α	(D <sub>ei</sub> × E)/[E + (ρ <sub>s</sub> × (1-E)/K <sub>as</sub> )] (cm <sup>2</sup> /s)	Chemical-specific	HSRA Rules
T	Exposure Interval (s)	7.90E+08	HSRA Rules
ρ <sub>s</sub>	Density of soil solids (g/cm <sup>3</sup> )	2.65	HSRA Rules
D <sub>ei</sub>	Effective diffusivity (cm <sup>2</sup> /s)	D <sub>i</sub> × E <sup>0.33</sup>	HSRA Rules
D <sub>i</sub>	Molecular Diffusivity (cm <sup>2</sup> /s)	Chemical-specific	Not Applicable
E	Total soil porosity	0.35	HSRA Rules
K <sub>as</sub>	Soil-air partition coefficient (g soil/cm <sup>3</sup> air)	(H/K <sub>d</sub> ) × 41	HSRA Rules
H	Henry's Law Constant (atm-m <sup>3</sup> /mole)	Chemical-specific	Not Applicable
K <sub>d</sub>	Soil-water partition coefficient (cm <sup>3</sup> /g)	K <sub>OC</sub> × OC	HSRA Rules
K <sub>OC</sub>	Organic carbon partition coefficient (cm <sup>3</sup> /g)	Chemical-specific	Not Applicable
OC	Soil Organic Carbon Content (none)	2.0E-02	HSRA Rules

HSRA Rules: Georgia Hazardous Response Act Rules, 391-3-19, Appendix III, Media Target Concentrations and Standard Exposure Assumptions.  
<http://rules.sos.state.ga.us/docs/391/3/19/Appendix%20I-IV.pdf>

RAGS: Risk Assessment Guidance for Superfund, Volume I - Human Health Evaluation Manual (Part B, Chapter 3, Development of Risk-Based Preliminary Remediation Goals), U.S. Environmental Protection Agency, December 1991.  
<http://www.epa.gov/oswer/riskassessment/ragsb/pdf/chapt3.pdf>

IRIS: U.S. Environmental Protection Agency Integrated Risk Information System  
<https://cfpub.epa.gov/ncea/iris2/atoz.cfm>

Substance	CAS No.	VF m <sup>3</sup> /mg	Carcinogenic Effects					Noncarcinogenic Effects				HSRA Criteria			Type 1 RRS mg/kg
			Car. Class	Sf <sub>i</sub> (mg/kg-dy) <sup>-1</sup>	IUR (ug/m <sup>3</sup> ) <sup>-1</sup>	Sf <sub>o</sub> (mg/kg-dy) <sup>-1</sup>	C <sub>car</sub> mg/kg	RfD <sub>o</sub> mg/kg-dy	RfC <sub>i</sub> mg/kg-dy	RfD <sub>i</sub> mg/kg-dy	C <sub>noncar</sub> mg/kg	App. I mg/kg	App. III Table 2 mg/kg	App III Table 1 X 100 mg/kg	
Acetone	67641	6.7E+03	NA	NA	NA	NA	NC	9.0E-01	3.1E+01	8.9E+00	1.9E+05	2.74	ND	4.0E+02	4.0E+02
Chloroform	67663	2.8E+03	B	8.1E-02	2.3E-05	3.1E-02	3.9E+00	1.0E-02	9.8E-02	2.8E-02	3.5E+02	0.68	ND	8.0E+00	3.9E+00
Trichloroethane, 1,1,1-	71556	1.5E+03	NA	NA	NA	NA	NC	2.0E+00	5.0E+00	1.4E+00	1.1E+04	5.44	ND	2.0E+01	2.0E+01
Carbon Disulfide	75150	8.9E+02	NA	NA	NA	NA	NC	1.0E-01	7.0E-01	2.0E-01	8.5E+02	0.005	ND	4.0E+02	4.0E+02
Bromodichloromethane	75274	4.3E+03	B	1.3E-01	3.7E-05	6.2E-02	3.7E+00	2.0E-02		NC	1.3E+04	1.18	ND	8.0E+00	3.7E+00
Dichloroethane, 1,1-	75343	2.1E+03	C	5.6E-03	1.6E-06	5.7E-03	4.2E+02	2.0E-01		NC	1.3E+05	0.03	ND	4.0E+02	4.0E+02
Dichloroethylene, 1,1-	75354	8.6E+02	C	NC			NC	5.0E-02	2.0E-01	5.7E-02	2.4E+02	0.36	ND	7.0E-01	7.0E-01
Methyl Ethyl Ketone (2-Butan	78933	7.8E+03	NA	NA	NA	NA	NC	6.0E-01	5.0E+00	1.4E+00	4.8E+04	0.79	ND	2.0E+02	2.0E+02
Trichloroethane, 1,1,2-	79005	8.8E+03	C	5.6E-02	1.6E-05	5.7E-02	1.7E+02	4.0E-03	2.0E-04	5.7E-05	2.4E+00	0.5	ND	5.0E-01	5.0E-01
Trichloroethylene	79016	2.4E+03	A	1.4E-02	4.1E-06	4.6E-02	1.8E+01	5.0E-04	2.0E-03	5.7E-04	6.6E+00	0.13	ND	5.0E-01	5.0E-01
~Naphthalene	91203	6.4E+04	C	1.2E-01	3.4E-05		6.1E+02	2.0E-02	3.0E-03	8.6E-04	2.6E+02	100	ND	2.0E+00	1.0E+02
Cumene	98828	8.4E+03	NA	NA	NA	NA	NC	1.0E-01	4.0E-01	1.1E-01	4.4E+03	21.88	ND	ND	2.188E+01
Ethylbenzene	100414	7.6E+03	NA	NA	NA	NA	NC	1.0E-01	1.0E+00	2.9E-01	9.1E+03	20	ND	7.0E+01	7.0E+01
Toluene	108883	5.6E+03	NA	NA	NA	NA	NC	8.0E-02	5.0E+00	1.4E+00	2.2E+04	14.4	ND	1.0E+02	1.0E+02
Dichloroethylene, 1,2-cis-	156592	2.7E+03	NA	NA	NA	NA	NC	2.0E-03		NC	1.3E+03	NC	ND	7.0E+00	7.0E+00
Xylenes	1330207	7.7E+03	NA	NA	NA	NA	NC	2.0E-01	1.0E-01	2.9E-02	1.1E+03	20	ND	1.0E+03	1.0E+03
~Lead and Compounds	7439921	NA	B	NC			NC			NC	NC	400	7.5E+01	1.5E+00	7.5E+01
Arsenic, Inorganic	7440382	NA	A	1.5E+01	4.3E-03	1.5E+00	1.0E+01	3.0E-04	1.5E-05	4.3E-06	1.9E+02	41	2.0E+01	1.0E+00	2.0E+01
Zinc and Compounds	7440666	NA	NA	NA	NA	NA	NC	3.0E-01		NC	1.9E+05	2800	1.0E+02	2.0E+02	1.0E+02

Data Input
Database look up values
Spreadsheet calculation

NA - Not Applicable, applies to inhalation for nonvolatile substances and substances not Classified as Class A, B, or C carcinogens.

NC - Not Calculated, the supporting input data are not established.

ND - No Data, database does not include this parameter.

**Type 2 Risk Reduction Standards (RRSs) pose no significant risk on the basis of SITE SPECIFIC RISK ASSESSMENT for RESIDENTIAL PROPERTIES.**

<b>RAGS Equation 6</b>			
<b>Non-Residential Soil - Carcinogenic Effects</b>			
<b><math>C_{car} \text{ mg/kg} = \frac{TR \times BW \times AT_{car} \times 365 \text{ days/year}}{EF \times ED \times [(SF_o \times 10^{-6} \text{ kg/mg} \times IR_{soil}) + (SF_i \times IR_{air} \times \{1/VF + 1/PEF\})]}</math></b>			
Parameter	Definition (units)	Default Value	Source
$C_{car}$	Concentration in soil (mg/kg)	Calculated	Not Applicable
$TR_{A/B}$	IRIS Carcinogen Class A/B target excess lifetime cancer risk	1.E-05	HSRA Rules
$TR_C$	IRIS Carcinogen Class C target excess lifetime cancer risk	1.E-05	HSRA Rules
$SF_i$	Inhalation cancer slope factor (mg/kg-dy) <sup>-1</sup> = IUR x 1,000 x BW 70 kg / IR <sub>air</sub> 20 m <sup>3</sup> /dy	Chemical-Specific	Not Applicable
IUR	Inhalation unit risk (ug/m <sup>3</sup> ) <sup>-1</sup>	Chemical-Specific	Not Applicable
$SF_o$	Oral cancer slope factor (mg/kg-dy) <sup>-1</sup>	Chemical-Specific	Not Applicable
$AT_{car-adult}$	Adult averaging Time (yr)	70	HSRA Rules
$AT_{car-child}$	Child averaging Time (yr)	70	HSRA Rules

<b>RAGS Equation 7</b>			
<b>Non-Residential Soil - Noncarcinogenic Effects</b>			
<b><math>C_{noncar} \text{ mg/kg} = \frac{THI \times BW \times AT_{noncar} \times 365 \text{ days/year}}{ED \times EF \times \{[(1/RfD_o) \times 10^{-6} \text{ kg/mg} \times IR_{soil}] + [(1/RfD_i) \times IR_{air} \times (1/VF + 1/PEF)]\}}</math></b>			
Parameter	Definition (units)	Default Value	Source
$C_{noncar}$	Concentration in soil (mg/kg)	Calculated	Not Applicable
THI	Target hazard index (none)	1	HSRA Rules
$RfD_o$	Oral chronic reference dose (mg/kg-dy)	Chemical-Specific	Not Applicable
$RfD_i$	Inhalation chronic reference dose (mg/kg-dy) = RfC <sub>i</sub> x IR <sub>air</sub> 20 m <sup>3</sup> /dy / BW 70 kg	Chemical-Specific	Not Applicable
$RfC_i$	Inhalation reference concentration (mg/m <sup>3</sup> )	Chemical-Specific	Not Applicable
$AT_{noncar-adult}$	Adult averaging Time (yr)	30	HSRA Rules
$AT_{noncar-child}$	Child averaging Time (yr)	6	HSRA Rules

Standard Assumptions			
BW <sub>adult</sub>	Adult Body weight (kg)	70	HSRA Rules
BW <sub>child</sub>	Child body weight (kg)	15	HSRA Rules
EF	Exposure frequency (dy/yr)	350	HSRA Rules
ED <sub>adult</sub>	Adult exposure duration (yr)	30	HSRA Rules
ED <sub>child</sub>	Adult exposure duration (yr)	6	HSRA Rules
IR <sub>air-adult</sub>	Adult inhalation rate (m <sup>3</sup> /dy)	15	HSRA Rules
IR <sub>air-child</sub>	Child inhalation rate (m <sup>3</sup> /dy)	15	HSRA Rules
IR <sub>soil-adult</sub>	Adult soil ingestion rate (mg/dy)	114	HSRA Rules
IR <sub>soil-child</sub>	Child soil ingestion rate (mg/dy)	200	HSRA Rules
PEF	Particulate emission factor (m <sup>3</sup> /kg)	4.63E+09	HSRA Rules

Soil-to-Air Volatilization Factor (VF)			
VF (m <sup>3</sup> /kg) =		$\frac{(LS \times V \times DH) \times (\pi \times \alpha \times T)^{1/2}}{A \times 2 \times D_{ei} \times E \times K_{as} \times 10^{-3}} \text{ kg/g}$	
Parameter	Definition (units)	Default Value	Source
LS	Length of side of contaminated area (m)	45	HSRA Rules
V	Wind speed in mixing zone (m/s)	2.25	HSRA Rules
A	Area of contamination (cm <sup>2</sup> )	2.03E+07	HSRA Rules
DH	Diffusion height (m)	2	HSRA Rules
α	(D <sub>ei</sub> × E)/[E + (ρ <sub>s</sub> × (1-E)/K <sub>as</sub> )] (cm <sup>2</sup> /s)	Chemical-specific	HSRA Rules
T	Exposure Interval (s)	7.90E+08	HSRA Rules
ρ <sub>s</sub>	Density of soil solids (g/cm <sup>3</sup> )	2.65	HSRA Rules
D <sub>ei</sub>	Effective diffusivity (cm <sup>2</sup> /s)	D <sub>i</sub> × E <sup>0.33</sup>	HSRA Rules
D <sub>i</sub>	Molecular Diffusivity (cm <sup>2</sup> /s)	Chemical-specific	Not Applicable
E	Total soil porosity	0.35	HSRA Rules
K <sub>as</sub>	Soil-air partition coefficient (g soil/cm <sup>3</sup> air)	(H/K <sub>d</sub> ) × 41	HSRA Rules
H	Henry's Law Constant (atm-m <sup>3</sup> /mole)	Chemical-specific	Not Applicable
K <sub>d</sub>	Soil-water partition coefficient (cm <sup>3</sup> /g)	K <sub>OC</sub> × OC	HSRA Rules
K <sub>OC</sub>	Organic carbon partition coefficient (cm <sup>3</sup> /g)	Chemical-specific	Not Applicable
OC	Soil Organic Carbon Content (none)	2.0E-02	HSRA Rules

HSRA Rules: Georgia Hazardous Response Act Rules, 391-3-19, Appendix III, Media Target Concentrations and Standard Exposure Assumptions.  
<http://rules.sos.state.ga.us/docs/391/3/19/Appendix%20I-IV.pdf>

RAGS: Risk Assessment Guidance for Superfund, Volume I - Human Health Evaluation Manual (Part B, Chapter 3, Development of Risk-Based Preliminary Remediation Goals), U.S. Environmental Protection Agency, December 1991.  
<http://www.epa.gov/oswer/riskassessment/ragsb/pdf/chapt3.pdf>

IRIS: U.S. Environmental Protection Agency Integrated Risk Information System  
<https://cfpub.epa.gov/ncea/iris2/atoz.cfm>



Substance	CAS No.	VF m <sup>3</sup> /mg	Carcinogenic Effects							Noncarcinogenic Effects						Type 2 RRS mg/kg
			Car. Class	TR	Sf <sub>i</sub> (mg/kg-dy) <sup>-1</sup>	IUR (ug/m <sup>3</sup> ) <sup>-1</sup>	Sf <sub>o</sub> (mg/kg-dy) <sup>-1</sup>	C <sub>car-adult</sub> mg/kg	C <sub>car-child</sub> mg/kg	THI	RfD <sub>o</sub> mg/kg-dy	RfC <sub>i</sub> mg/kg-dy	RfD <sub>i</sub> mg/kg-dy	C <sub>noncar-adult</sub> mg/kg	C <sub>noncar-child</sub> mg/kg	
Acetone	67641	6.7E+03	NA	NA	NA	NA	NA	NC	NC	1	9.0E-01	3.1E+01	8.9E+00	1.9E+05	3.3E+04	3.3E+04
Chloroform	67663	2.8E+03	B	1.E-05	8.1E-02	2.3E-05	3.1E-02	3.9E+00	4.1E+00	1	1.0E-02	9.8E-02	2.8E-02	3.5E+02	7.3E+01	3.9E+00
Trichloroethane, 1,1,1-	71556	1.5E+03	NA	NA	NA	NA	NA	NC	NC	1	2.0E+00	5.0E+00	1.4E+00	1.1E+04	2.3E+03	2.3E+03
Carbon Disulfide	75150	8.9E+02	NA	NA	NA	NA	NA	NC	NC	1	1.0E-01	7.0E-01	2.0E-01	8.5E+02	1.8E+02	1.8E+02
Bromodichloromethane	75274	4.3E+03	B	1.E-05	1.3E-01	3.7E-05	6.2E-02	3.7E+00	3.9E+00	1	2.0E-02		NC	1.3E+04	1.6E+03	3.7E+00
Dichloroethane, 1,1-	75343	2.1E+03	C	1.E-05	5.6E-03	1.6E-06	5.7E-03	4.2E+01	4.5E+01	1	2.0E-01		NC	1.3E+05	1.6E+04	4.2E+01
Dichloroethylene, 1,1-	75354	8.6E+02	C	1.E-05	NC			NC	NC	1	5.0E-02	2.0E-01	5.7E-02	2.4E+02	5.1E+01	5.1E+01
Methyl Ethyl Ketone (2-Butanone)	78933	7.8E+03	NA	NA	NA	NA	NA	NC	NC	1	6.0E-01	5.0E+00	1.4E+00	4.8E+04	9.3E+03	9.3E+03
Trichloroethane, 1,1,2-	79005	8.8E+03	C	1.E-05	5.6E-02	1.6E-05	5.7E-02	1.7E+01	1.7E+01	1	4.0E-03	2.0E-04	5.7E-05	2.4E+00	5.2E-01	5.2E-01
Trichloroethylene	79016	2.4E+03	A	1.E-05	1.4E-02	4.1E-06	4.6E-02	1.8E+01	1.9E+01	1	5.0E-04	2.0E-03	5.7E-04	6.6E+00	1.4E+00	1.4E+00
~Naphthalene	91203	6.4E+04	C	1.E-05	1.2E-01	3.4E-05		6.1E+01	6.5E+01	1	2.0E-02	3.0E-03	8.6E-04	2.6E+02	5.5E+01	5.5E+01
Cumene	98828	8.4E+03	D	1.E-05	NC			NC	NC	1	1.0E-01	4.0E-01	1.1E-01	4.4E+03	8.9E+02	8.9E+02
Ethylbenzene	100414	7.6E+03	D	1.E-05	8.8E-03	2.5E-06	1.1E-02	9.2E+01	9.4E+01	1	1.0E-01	1.0E+00	2.9E-01	9.1E+03	1.8E+03	9.2E+01
Toluene	108883	5.6E+03	NA	NA	NA	NA	NA	NC	NC	1	8.0E-02	5.0E+00	1.4E+00	2.2E+04	3.6E+03	3.6E+03
Dichloroethylene, 1,2-cis-	156592	2.7E+03	NA	NA	NA	NA	NA	NC	NC	1	2.0E-03		NC	1.3E+03	1.6E+02	1.6E+02
Xylenes	1330207	7.7E+03	NA	NA	NA	NA	NA	NC	NC	1	2.0E-01	1.0E-01	2.9E-02	1.1E+03	2.3E+02	2.3E+02
~Lead and Compounds	7439921	NA	B	1.E-05	NC			NC	NC	1			NC	NC	NC	NC
Arsenic, Inorganic	7440382	NA	A	1.E-05	1.5E+01	4.3E-03	1.5E+00	1.0E+01	6.1E+00	1	3.0E-04	1.5E-05	4.3E-06	1.9E+02	2.3E+01	6.1E+00
Zinc and Compounds	7440666	NA	NA	NA	NA	NA	NA	NC	NC	1	3.0E-01		NC	1.9E+05	2.3E+04	2.3E+04

RRS does not include leaching to groundwater or vapor intrusion.

NA - Not Applicable, applies to inhalation for nonvolatile substances and substances not Classified as Class A, B, or C carcinogens.

NC - Not Calculated, the supporting input data are not established.

ND - No Data, database does not include this parameter.

Data Input
Database look up values
Spreadsheet calculation

**Type 3 Risk Reduction Standards (RRSs) pose no significant risk on the basis of  
STANDARDIZED EXPOSURE ASSUMPTIONS and defined risk level for  
NON-RESIDENTIAL PROPERTIES.**

### RAGS Equation 6

#### Non-Residential Soil - Carcinogenic Effects

$$C_{car} \text{ mg/kg} = \frac{TR \times BW \times AT_{car} \times 365 \text{ days/year}}{EF \times ED \times [(SF_o \times 10^{-6} \text{ kg/mg} \times IR_{soil}) + (SF_i \times IR_{air} \times \{1/VF + 1/PEF\})]}$$

Parameter	Definition (units)	Default Value	Source
$C_{car}$	Concentration in soil (mg/kg)	Calculated	Not Applicable
$TR_{A/B}$	IRIS Carcinogen Class A/B target excess lifetime cancer risk	1.E-05	HSRA Rules
$TR_C$	IRIS Carcinogen Class C target excess lifetime cancer risk	1.E-04	HSRA Rules
$SF_i$	Inhalation cancer slope factor (mg/kg-dy) <sup>-1</sup> = IUR x 1,000 x BW 70 kg / IR <sub>air</sub> 20 m <sup>3</sup> /dy	Chemical-Specific	Not Applicable
IUR	Inhalation unit risk (ug/m <sup>3</sup> ) <sup>-1</sup>	Chemical-Specific	Not Applicable
$SF_o$	Oral cancer slope factor (mg/kg-dy) <sup>-1</sup>	Chemical-Specific	Not Applicable
$AT_{car}$	Averaging Time (yr)	70	HSRA Rules

### RAGS Equation 7

#### Non-Residential Soil - Noncarcinogenic Effects

$$C_{noncar} \text{ mg/kg} = \frac{THI \times BW \times AT_{noncar} \times 365 \text{ days/year}}{ED \times EF \times \{[(1/RfD_o) \times 10^{-6} \text{ kg/mg} \times IR_{soil}] + [(1/RfD_i) \times IR_{air} \times (1/VF + 1/PEF)]\}}$$

Parameter	Definition (units)	Default Value	Source
$C_{noncar}$	Concentration in soil (mg/kg)	Calculated	Not Applicable
THI	Target hazard index (none)	1	HSRA Rules
$RfD_o$	Oral chronic reference dose (mg/kg-dy)	Chemical-Specific	Not Applicable
$RfD_i$	Inhalation chronic reference dose (mg/kg-dy) = $RfC_i \times IR_{air} \times 20 \text{ m}^3/\text{dy} / BW \text{ 70 kg}$	Chemical-Specific	Not Applicable
$RfC_i$	Inhalation reference concentration (mg/m <sup>3</sup> )	Chemical-Specific	Not Applicable
$AT_{noncar}$	Averaging time (yr)	25	HSRA Rules

Standard Assumptions			
BW	Body weight (kg)	70	HSRA Rules
EF	Exposure frequency (dy/yr)	250	HSRA Rules
ED	Exposure duration (yr)	25	HSRA Rules
IR <sub>air</sub>	Inhalation rate (m <sup>3</sup> /dy)	20	HSRA Rules
IR <sub>soil</sub>	Soil ingestion rate (mg/dy)	50	HSRA Rules
PEF	Particulate emission factor (m <sup>3</sup> /kg)	4.63E+09	HSRA Rules

Soil-to-Air Volatilization Factor (VF)			
$VF (m^3/kg) = \frac{(LS \times V \times DH) \times (\pi \times \alpha \times T)^{1/2}}{A \times 2 \times D_{ei} \times E \times K_{as} \times 10^{-3} \text{ kg/g}}$			
Parameter	Definition (units)	Default Value	Source
LS	Length of side of contaminated area (m)	45	HSRA Rules
V	Wind speed in mixing zone (m/s)	2.25	HSRA Rules
A	Area of contamination (cm <sup>2</sup> )	2.03E+07	HSRA Rules
DH	Diffusion height (m)	2	HSRA Rules
α	(D <sub>ei</sub> × E)/[E + (ρ <sub>s</sub> × (1-E)/K <sub>as</sub> )] (cm <sup>2</sup> /s)	Chemical-specific	HSRA Rules
T	Exposure Interval (s)	7.90E+08	HSRA Rules
ρ <sub>s</sub>	Density of soil solids (g/cm <sup>3</sup> )	2.65	HSRA Rules
D <sub>ei</sub>	Effective diffusivity (cm <sup>2</sup> /s)	D <sub>i</sub> × E <sup>0.33</sup>	HSRA Rules
D <sub>i</sub>	Molecular Diffusivity (cm <sup>2</sup> /s)	Chemical-specific	Not Applicable
E	Total soil porosity	0.35	HSRA Rules
K <sub>as</sub>	Soil-air partition coefficient (g soil/cm <sup>3</sup> air)	(H/K <sub>d</sub> ) × 41	HSRA Rules
H	Henry's Law Constant (atm-m <sup>3</sup> /mole)	Chemical-specific	Not Applicable
K <sub>d</sub>	Soil-water partition coefficient (cm <sup>3</sup> /g)	K <sub>OC</sub> × OC	HSRA Rules
K <sub>OC</sub>	Organic carbon partition coefficient (cm <sup>3</sup> /g)	Chemical-specific	Not Applicable
OC	Soil Organic Carbon Content (none)	2.0E-02	HSRA Rules

HSRA Rules: Georgia Hazardous Response Act Rules, 391-3-19, Appendix III, Media Target Concentrations and Standard Exposure Assumptions.

<http://rules.sos.state.ga.us/docs/391/3/19/Appendix%20I-IV.pdf>

RAGS: Risk Assessment Guidance for Superfund, Volume I - Human Health Evaluation Manual (Part B, Chapter 3, Development of Risk-Based Preliminary Remediation Goals), U.S. Environmental Protection Agency, December 1991.

<http://www.epa.gov/oswer/riskassessment/ragsb/pdf/chapt3.pdf>

IRIS: U.S. Environmental Protection Agency Integrated Risk Information System

<https://cfpub.epa.gov/ncea/iris2/atoz.cfm>

Substance	CAS No.	VF m <sup>3</sup> /mg	Carcinogenic Effects					Noncarcinogenic Effects					HSRA Criteria		Type 3 RRS	
			TR	Sf <sub>i</sub> (mg/kg-dy) <sup>-1</sup>	IUR (ug/m <sup>3</sup> ) <sup>-1</sup>	Sf <sub>o</sub> (mg/kg-dy) <sup>-1</sup>	C <sub>car</sub> mg/kg	THI	RfD <sub>o</sub> mg/kg-dy	RfC <sub>i</sub> mg/kg-dy	RfD <sub>i</sub> mg/kg-dy	C <sub>noncar</sub> mg/kg	App. I mg/kg	App III X 100 mg/kg	< Water Table mg/kg	< 2 Ft Depth mg/kg
Acetone	67641	6.7E+03	NA	NA	NA	NA	NC	1	9.0E-01	3.1E+01	8.9E+00	2.6E+05	2.74E+00	4.00E+02	4.0E+02	4.0E+02
Chloroform	67663	2.8E+03	1.E-05	8.1E-02	2.3E-05	3.1E-02	4.9E+00	1	1.0E-02	9.8E-02	2.8E-02	3.9E+02	6.80E-01	8.00E+00	4.9E+00	4.9E+00
Trichloroethane, 1,1,1-	71556	1.5E+03	NA	NA	NA	NA	NC	1	2.0E+00	5.0E+00	1.4E+00	1.1E+04	5.44E+00	2.00E+01	2.0E+01	2.0E+01
Carbon Disulfide	75150	8.9E+02	NA	NA	NA	NA	NC	1	1.0E-01	7.0E-01	2.0E-01	9.0E+02	5.00E-03	4.00E+02	4.0E+02	4.0E+02
Bromodichloromethane	75274	4.3E+03	1.E-05	1.3E-01	3.7E-05	6.2E-02	4.7E+00	1	2.0E-02		NC	4.1E+04	1.18E+00	8.00E+00	4.7E+00	4.7E+00
Dichloroethane, 1,1-	75343	2.1E+03	1.E-04	5.6E-03	1.6E-06	5.7E-03	5.4E+02	1	2.0E-01		NC	4.1E+05	3.00E-02	4.00E+02	4.0E+02	4.0E+02
Dichloroethylene, 1,1-	75354	8.6E+02	1.E-04	NC			NC	1	5.0E-02	2.0E-01	5.7E-02	2.5E+02	3.60E-01	7.00E-01	7.0E-01	7.0E-01
Methyl Ethyl Ketone (2-Butan	78933	7.8E+03	NA	NA	NA	NA	NC	1	6.0E-01	5.0E+00	1.4E+00	5.4E+04	7.90E-01	2.00E+02	2.0E+02	2.0E+02
Trichloroethane, 1,1,2-	79005	8.8E+03	1.E-04	5.6E-02	1.6E-05	5.7E-02	2.2E+02	1	4.0E-03	2.0E-04	5.7E-05	2.6E+00	5.00E-01	5.00E-01	5.0E-01	5.0E-01
Trichloroethylene	79016	2.4E+03	1.E-05	1.4E-02	4.1E-06	4.6E-02	2.4E+01	1	5.0E-04	2.0E-03	5.7E-04	7.1E+00	1.30E-01	5.00E-01	5.0E-01	5.0E-01
~Naphthalene	91203	6.4E+04	1.E-04	1.2E-01	3.4E-05		7.7E+02	1	2.0E-02	3.0E-03	8.6E-04	2.8E+02	1.00E+02	2.00E+00	1.0E+02	1.0E+02
Cumene	98828	8.4E+03	NA	NA	NA	NA	NC	1	1.0E-01	4.0E-01	1.1E-01	4.8E+03	2.19E+01	ND	2.19E+01	2.19E+01
Ethylbenzene	100414	7.6E+03	NA	NA	NA	NA	NC	1	1.0E-01	1.0E+00	2.9E-01	1.1E+04	2.00E+01	7.00E+01	7.0E+01	7.0E+01
Toluene	108883	5.6E+03	NA	NA	NA	NA	NC	1	8.0E-02	5.0E+00	1.4E+00	3.3E+04	1.44E+01	1.00E+02	1.0E+02	1.0E+02
Dichloroethylene, 1,2-cis-	156592	2.7E+03	NA	NA	NA	NA	NC	1	2.0E-03		NC	4.1E+03	NC	7.00E+00	7.0E+00	7.0E+00
Xylenes	1330207	7.7E+03	NA	NA	NA	NA	NC	1	2.0E-01	1.0E-01	2.9E-02	1.1E+03	2.00E+01	1.00E+03	1.0E+03	1.0E+03
~Lead and Compounds	7439921	NA	1.E-05	NC			NC	1			NC	NC	4.00E+02	1.50E+00	4.0E+02	4.0E+02
Arsenic, Inorganic	7440382	NA	1.E-05	1.5E+01	4.3E-03	1.5E+00	3.8E+01	1	3.0E-04	1.5E-05	4.3E-06	6.1E+02	4.10E+01	1.00E+00	3.8E+01	3.8E+01
Zinc and Compounds	7440666	NA	NA	NA	NA	NA	NC	1	3.0E-01		NC	6.1E+05	2.80E+03	2.00E+02	2.8E+03	2.8E+03

Data Input
Database look up values
Spreadsheet calculation

NA - Not Applicable, applies to inhalation for nonvolatile substances and substances not Classified as Class A, B, or C carcinogens.

NC - Not Calculated, the supporting input data are not established.

ND - No Data, database does not include this parameter.



**Type 3 Risk Reduction Standards (RRSs) pose no significant risk on the basis of SITE-SPECIFIC RISK ASSESSMENT for NON-RESIDENTIAL PROPERTIES.**

<b>RAGS Equation 6</b>			
<b>Non-Residential Soil - Carcinogenic Effects</b>			
<b><math>C_{car} \text{ mg/kg} = \frac{TR \times BW \times AT_{car} \times 365 \text{ days/year}}{EF \times ED \times [(SF_o \times 10^{-6} \text{ kg/mg} \times IR_{soil}) + (SF_i \times IR_{air} \times \{1/VF + 1/PEF\})]}</math></b>			
Parameter	Definition (units)	Default Value	Source
$C_{car}$	Concentration in soil (mg/kg)	Calculated	Not Applicable
$TR_{A/B}$	IRIS Carcinogen Class A/B target excess lifetime cancer risk	1.E-05	HSRA Rules
$TR_C$	IRIS Carcinogen Class C target excess lifetime cancer risk	1.E-05	HSRA Rules
$SF_i$	Inhalation cancer slope factor (mg/kg-dy) <sup>-1</sup> = IUR x 1,000 x BW 70 kg / $IR_{air}$ 20 m <sup>3</sup> /dy	Chemical-Specific	Not Applicable
IUR	Inhalation unit risk (ug/m <sup>3</sup> ) <sup>-1</sup>	Chemical-Specific	Not Applicable
$SF_o$	Oral cancer slope factor (mg/kg-dy) <sup>-1</sup>	Chemical-Specific	Not Applicable
$AT_{car}$	Averaging Time (yr)	70	HSRA Rules

<b>RAGS Equation 7</b>			
<b>Non-Residential Soil - Noncarcinogenic Effects</b>			
<b><math>C_{noncar} \text{ mg/kg} = \frac{THI \times BW \times AT_{noncar} \times 365 \text{ days/year}}{ED \times EF \times \{[(1/RfD_o) \times 10^{-6} \text{ kg/mg} \times IR_{soil}] + [(1/RfD_i) \times IR_{air} \times (1/VF + 1/PEF)]\}}</math></b>			
Parameter	Definition (units)	Default Value	Source
$C_{noncar}$	Concentration in soil (mg/kg)	Calculated	Not Applicable
THI	Target hazard index (none)	1	HSRA Rules
$RfD_o$	Oral chronic reference dose (mg/kg-dy)	Chemical-Specific	Not Applicable
$RfD_i$	Inhalation chronic reference dose (mg/kg-dy) = $RfC_i \times IR_{air}$ 20 m <sup>3</sup> /dy / BW 70 kg	Chemical-Specific	Not Applicable
$RfC_i$	Inhalation reference concentration (mg/m <sup>3</sup> )	Chemical-Specific	Not Applicable
$AT_{noncar}$	Averaging time (yr)	25	HSRA Rules

Standard Assumptions			
BW	Body weight (kg)	70	HSRA Rules
EF	Exposure frequency (dy/yr)	250	HSRA Rules
ED	Exposure duration (yr)	25	HSRA Rules
IR <sub>air</sub>	Inhalation rate (m <sup>3</sup> /dy)	20	HSRA Rules
IR <sub>soil</sub>	Soil ingestion rate (mg/dy)	50	HSRA Rules
PEF	Particulate emission factor (m <sup>3</sup> /kg)	4.63E+09	HSRA Rules

Soil-to-Air Volatilization Factor (VF)			
$VF (m^3/kg) = \frac{(LS \times V \times DH) \times (\pi \times \alpha \times T)^{1/2}}{A \times 2 \times D_{ei} \times E \times K_{as} \times 10^{-3} \text{ kg/g}}$			
Parameter	Definition (units)	Default Value	Source
LS	Length of side of contaminated area (m)	45	HSRA Rules
V	Wind speed in mixing zone (m/s)	2.25	HSRA Rules
A	Area of contamination (cm <sup>2</sup> )	2.03E+07	HSRA Rules
DH	Diffusion height (m)	2	HSRA Rules
$\alpha$	$(D_{ei} \times E) / [E + (\rho_s \times (1-E) / K_{as})]$ (cm <sup>2</sup> /s)	Chemical-specific	HSRA Rules
T	Exposure Interval (s)	7.90E+08	HSRA Rules
$\rho_s$	Density of soil solids (g/cm <sup>3</sup> )	2.65	HSRA Rules
D <sub>ei</sub>	Effective diffusivity (cm <sup>2</sup> /s)	D <sub>i</sub> x E <sup>0.33</sup>	HSRA Rules
D <sub>i</sub>	Molecular Diffusivity (cm <sup>2</sup> /s)	Chemical-specific	Not Applicable
E	Total soil porosity	0.35	HSRA Rules
K <sub>as</sub>	Soil-air partition coefficient (g soil/cm <sup>3</sup> air)	(H/K <sub>d</sub> ) x 41	HSRA Rules
H	Henry's Law Constant (atm-m <sup>3</sup> /mole)	Chemical-specific	Not Applicable
K <sub>d</sub>	Soil-water partition coefficient (cm <sup>3</sup> /g)	K <sub>OC</sub> x OC	HSRA Rules
K <sub>OC</sub>	Organic carbon partition coefficient (cm <sup>3</sup> /g)	Chemical-specific	Not Applicable
OC	Soil Organic Carbon Content (none)	2.0E-02	HSRA Rules

HSRA Rules: Georgia Hazardous Response Act Rules, 391-3-19, Appendix III, Media Target Concentrations and Standard Exposure Assumptions.

<http://rules.sos.state.ga.us/docs/391/3/19/Appendix%20I-IV.pdf>

RAGS: Risk Assessment Guidance for Superfund, Volume I - Human Health Evaluation Manual (Part B, Chapter 3, Development of Risk-Based Preliminary Remediation Goals), U.S. Environmental Protection Agency, December 1991.

<http://www.epa.gov/oswer/riskassessment/ragsb/pdf/chapt3.pdf>

IRIS: U.S. Environmental Protection Agency Integrated Risk Information System

<https://cfpub.epa.gov/ncea/iris2/atoz.cfm>

Substance	CAS No.	VF m <sup>3</sup> /mg	Carcinogenic Effects						Noncarcinogenic Effects					Type 4 RRS mg/kg
			Car. Class	TR	Sf <sub>i</sub> (mg/kg-dy) <sup>-1</sup>	IUR (ug/m <sup>3</sup> ) <sup>-1</sup>	Sf <sub>o</sub> (mg/kg-dy) <sup>-1</sup>	C <sub>car</sub> mg/kg	THI	RfD <sub>o</sub> mg/kg-dy	RfC <sub>i</sub> mg/kg-dy	RfD <sub>i</sub> mg/kg-dy	C <sub>noncar</sub> mg/kg	
Acetone	67641	6.7E+03	NA	NA	NA	NA	NA	NC	1	9.0E-01	3.1E+01	8.9E+00	2.6E+05	2.6E+05
Chloroform	67663	2.8E+03	B	1.E-05	8.1E-02	2.3E-05	3.1E-02	4.9E+00	1	1.0E-02	9.8E-02	2.8E-02	3.9E+02	4.9E+00
Trichloroethane, 1,1,1-	71556	1.5E+03	NA	NA	NA	NA	NA	NC	1	2.0E+00	5.0E+00	1.4E+00	1.1E+04	1.1E+04
Carbon Disulfide	75150	8.9E+02	NA	NA	NA	NA	NA	NC	1	1.0E-01	7.0E-01	2.0E-01	9.0E+02	9.0E+02
Bromodichloromethane	75274	4.3E+03	B	1.E-05	1.3E-01	3.7E-05	6.2E-02	4.7E+00	1	2.0E-02		NC	4.1E+04	4.7E+00
Dichloroethane, 1,1-	75343	2.1E+03	C	1.E-05	5.6E-03	1.6E-06	5.7E-03	5.4E+01	1	2.0E-01		NC	4.1E+05	5.4E+01
Dichloroethylene, 1,1-	75354	8.6E+02	C	1.E-05	NC			NC	1	5.0E-02	2.0E-01	5.7E-02	2.5E+02	2.5E+02
Methyl Ethyl Ketone (2-Butan	78933	7.8E+03	NA	NA	NA	NA	NA	NC	1	6.0E-01	5.0E+00	1.4E+00	5.4E+04	5.4E+04
Trichloroethane, 1,1,2-	79005	8.8E+03	C	1.E-05	5.6E-02	1.6E-05	5.7E-02	2.2E+01	1	4.0E-03	2.0E-04	5.7E-05	2.6E+00	2.6E+00
Trichloroethylene	79016	2.4E+03	A	1.E-05	1.4E-02	4.1E-06	4.6E-02	2.4E+01	1	5.0E-04	2.0E-03	5.7E-04	7.1E+00	7.1E+00
~Naphthalene	91203	6.4E+04	C	1.E-05	1.2E-01	3.4E-05		7.7E+01	1	2.0E-02	3.0E-03	8.6E-04	2.8E+02	7.7E+01
Cumene	98828	8.4E+03	D	1.E-05	NC			NC	1	1.0E-01	4.0E-01	1.1E-01	4.8E+03	4.79E+03
Ethylbenzene	100414	7.6E+03	D	1.E-05	8.8E-03	2.5E-06	1.1E-02	1.2E+02	1	1.0E-01	1.0E+00	2.9E-01	1.1E+04	1.2E+02
Toluene	108883	5.6E+03	NA	NA	NA	NA	NA	NC	1	8.0E-02	5.0E+00	1.4E+00	3.3E+04	3.3E+04
Dichloroethylene, 1,2-cis-	156592	2.7E+03	NA	NA	NA	NA	NA	NC	1	2.0E-03		NC	4.1E+03	4.1E+03
Xylenes	1330207	7.7E+03	NA	NA	NA	NA	NA	NC	1	2.0E-01	1.0E-01	2.9E-02	1.1E+03	1.1E+03
~Lead and Compounds	7439921	NA	B	1.E-05	NC			NC	1			NC	NC	NC
Arsenic, Inorganic	7440382	NA	A	1.E-05	1.5E+01	4.3E-03	1.5E+00	3.8E+01	1	3.0E-04	1.5E-05	4.3E-06	6.1E+02	3.8E+01
Zinc and Compounds	7440666	NA	NA	NA	NA	NA	NA	NC	1	3.0E-01		NC	6.1E+05	6.1E+05

RRS does not include leaching to groundwater or vapor intrusion.

NA - Not Applicable, applies to inhalation for nonvolatile substances and substances not Classified as Class A, B, or C carcinogens

NC - Not Calculated, the supporting input data are not established.

ND - No Data, database does not include this parameter.

Data Input
Database look up values
Spreadsheet calculation

## Soil Screening for Migration to Groundwater

### Supplemental Guidance for Developing Soil Screening Levels at Superfund Sites (2002): Soil Partitioning Equation 4-10

$$C_{\text{soil}} \text{ mg/kg} = C_{\text{leachate}} \times (K_d + \{(\theta_w + \theta_a) \times H\} / \rho_b)$$

Parameter	Definition (units)	Default Value	Source
$C_{\text{soil}} =$	Concentration in soil leaching at $C_{\text{leachate}}$ (mg/kg)	Calculated	Not Applicable
$C_{\text{leachate}} =$	Concentration in leachate (mg/L)	Chemical-Specific	DAF below
$K_d =$	Soil-water partition coefficient (L/kg), $K_d = K_{oc} \times F_{oc}$	Chemical-Specific	Not Applicable
$K_{oc} =$	Soil organic carbon/water partition coefficient (L/kg)	Chemical-Specific	RSLs
$F_{oc} =$	Fraction organic carbon in soil (g/g)	0.002	Assumed
$\theta_w =$	Water-filled soil porosity ( $L_{\text{water}} / L_{\text{soil}}$ )	0.3	Assumed
$\theta_a =$	Air-filled soil porosity ( $L_{\text{air}} / L_{\text{soil}}$ ), $= n \times \theta_w$	0.13	Assumed
$H =$	Henry's Law Constant (dimensionless)	Chemical-Specific	RSLs
$n =$	soil porosity ( $L_{\text{pore}} / L_{\text{soil}}$ ), $= 1 - (\rho_b / \rho_s)$	0.43	Assumed
$\rho_b =$	Dry soil bulk density (kg/L)	1.5	Assumed
$\rho_s =$	Soil particle density (kg/L)	2.65	Assumed

### Dilution Attenuation Factor (DAF)

Parameter	Definition (units)	Default Value	Source
$C_{\text{leachate}} \text{ mg/L} =$	$RRS_{\text{GW}} \times \text{DAF}$		
$RRS_{\text{GW}} =$	Groundwater Risk Reduction Standard (mg/l)	Chemical-Specific	HSRA
$\text{DAF} =$	Dilution Attenuation Factor	20	Assumed

HSRA: Georgia Hazardous Site Response Act

<http://epd.georgia.gov/comparison-existing-contamination-risk-reduction-standards-391-3-19-07>

RSLs: U.S. Environmental Protection Agency Regional Screening Levels (RSLs) - Generic Tables (May 2016).

<https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables-may-2016>

Supplemental Guidance for Developing Soil Screening Levels at Superfund Sites (2002)

<https://semspub.epa.gov/work/11/175237.pdf>

Substance	CAS No.	H	K <sub>oc</sub> L/kg	K <sub>d</sub> L/kg	Type 2			Type 4		
					RRS <sub>GW</sub> mg/L	C <sub>leachate</sub> mg/L	C <sub>soil</sub> mg/kg	RRS <sub>GW</sub> mg/L	C <sub>leachate</sub> mg/L	C <sub>soil</sub> mg/kg
Acetone	67641	1.43E-03	2.36E+00	4.73E-03	8.0E+00	1.60E+02	3.3E+01	4.6E+01	9.20E+02	1.9E+02
Chloroform	67663	1.50E-01	3.18E+01	6.36E-02	8.0E-02	1.60E+00	4.4E-01	8.0E-02	1.60E+00	4.4E-01
Trichloroethane, 1,1,1-	71556	7.03E-01	4.39E+01	8.78E-02	2.7E+00	5.40E+01	1.9E+01	1.4E+01	2.80E+02	9.8E+01
Carbon Disulfide	75150	5.89E-01	2.17E+01	4.35E-02	4.0E+00	8.00E+01	2.4E+01	4.0E+00	8.00E+01	2.4E+01
Bromodichloromethane	75274	8.67E-02	3.18E+01	6.36E-02	8.0E-02	1.60E+00	4.3E-01	8.0E-02	1.60E+00	4.3E-01
Dichloroethane, 1,1-	75343	2.30E-01	3.18E+01	6.36E-02	4.0E+00	8.00E+01	2.3E+01	4.0E+00	8.00E+01	2.3E+01
Dichloroethylene, 1,1-	75354	1.07E+00	3.18E+01	6.36E-02	1.0E-01	2.00E+00	7.2E-01	5.2E-01	1.04E+01	3.7E+00
Methyl Ethyl Ketone (2-Butanone)	78933	2.33E-03	4.51E+00	9.02E-03	2.3E+00	4.60E+01	9.6E+00	1.2E+01	2.40E+02	5.0E+01
Trichloroethane, 1,1,2-	79005	3.37E-02	6.07E+01	1.21E-01	5.0E-03	1.00E-01	3.2E-02	5.0E-03	1.00E-01	3.2E-02
Trichloroethylene	79016	4.03E-01	6.07E+01	1.21E-01	5.0E-03	1.00E-01	3.6E-02	5.2E-03	1.04E-01	3.7E-02
~Naphthalene	91203	1.80E-02	1.54E+03	3.09E+00	2.0E-02	4.00E-01	1.3E+00	2.0E-02	4.00E-01	1.3E+00
Cumene	98828	4.70E-01	6.98E+02	1.40E+00	2.1E-01	4.20E+00	6.9E+00	1.0E+00	2.00E+01	3.3E+01
Ethylbenzene	100414	3.22E-01	4.46E+02	8.92E-01	7.0E-01	1.40E+01	1.6E+01	7.0E-01	1.40E+01	1.6E+01
Toluene	108883	2.71E-01	2.34E+02	4.68E-01	1.0E+00	2.00E+01	1.4E+01	5.2E+00	1.04E+02	7.2E+01
Dichloroethylene, 1,2-cis-	156592	1.67E-01	3.96E+01	7.92E-02	7.0E-02	1.40E+00	4.1E-01	2.0E-01	4.00E+00	1.2E+00
Xylenes	1330207	2.71E-01	3.83E+02	7.66E-01	1.0E+01	2.00E+02	2.0E+02	1.0E+01	2.00E+02	2.0E+02
~Lead and Compounds	7439921	0.00E+00	NA	9.00E+02	NC	NC	NC	NC	NC	NC
Arsenic, Inorganic	7440382	0.00E+00	NA	2.90E+01	1.0E-02	2.00E-01	5.8E+00	1.0E-02	2.00E-01	5.8E+00
Zinc and Compounds	7440666	0.00E+00	NA	6.20E+01	4.7E+00	9.40E+01	5.8E+03	3.1E+01	6.20E+02	3.9E+04

Data Input
Database look up values
Spreadsheet calculation

NA - Not Applicable, applies to volatile substances.

NC - Not Calculated



**Type 2 Risk Reduction Standards (RRSs) pose no significant risk on the basis of SITE-SPECIFIC RISK ASSESSMENT for RESIDENTIAL PROPERTIES.**

<b>RAGS Equation 1</b>			
<b>Residential Groundwater - Carcinogenic Effects</b>			
<b><math>C_{car} \text{ mg/L} = \frac{TR \times BW \times AT_{car} \times 365 \text{ days/year}}{EF \times ED \times [(SF_o \times IR_{GW}) + (SF_i \times IR_{air} \times K)]}</math></b>			
Parameter	Definition (units)	Default Value	Source
$C_{car}$	Concentration in groundwater (mg/L)	Calculated	Not Applicable
$TR_{A/B}$	IRIS Carcinogen Class A/B target excess lifetime cancer risk	1.E-05	HSRA Rules
$TR_{C/D}$	IRIS Carcinogen Class C/D target excess lifetime cancer risk	1.E-05	HSRA Rules
$SF_i$	Inhalation cancer slope factor (mg/kg-dy) <sup>-1</sup> = IUR x 1,000 x BW 70 kg / IR <sub>air</sub> 20 m <sup>3</sup> /dy	Chemical-Specific	Not Applicable
$SF_o$	Oral cancer slope factor (mg/kg-dy) <sup>-1</sup>	Chemical-Specific	Not Applicable
IUR	Inhalation unit risk (ug/m <sup>3</sup> ) <sup>-1</sup>	Chemical-Specific	Not Applicable
$AT_{car-adult}$	Adult averaging time (yr)	70	HSRA Rules
$AT_{car-child}$	Averaging time (yr)	70	HSRA Rules

<b>RAGS Equation 2</b>			
<b>Residential Groundwater - Noncarcinogenic Effects</b>			
<b><math>C_{noncar} \text{ mg/L} = \frac{THI \times BW \times AT_{noncar} \times 365 \text{ days/year}}{ED \times EF \times [(1/RfD_i) \times K \times IR_{air}] + [(1/RfD_o) \times IR_{GW}]}</math></b>			
Parameter	Definition (units)	Default Value	Source
$C_{noncar}$	Concentration in groundwater (mg/L)	Calculated	Not Applicable
THI	Target hazard index (none)	1	HSRA Rules
RfD <sub>o</sub>	Oral chronic reference dose (mg/kg-dy)	Chemical-Specific	Not Applicable
RfD <sub>i</sub>	Inhalation chronic reference dose (mg/kg-dy) = RfC <sub>i</sub> x IR <sub>air</sub> 20 m <sup>3</sup> /dy / BW 70 kg	Chemical-Specific	Not Applicable
$AT_{noncar-adult}$	Adult averaging time (yr)	30	HSRA Rules
$AT_{noncar-child}$	Child averaging time (yr)	6	HSRA Rules

Standard Assumptions			
$BW_{adult}$	Adult body weight (kg)	70	HSRA Rules
$BW_{child}$	Child body weight (kg)	15	HSRA Rules
EF	Exposure frequency (dy/yr)	350	HSRA Rules
$ED_{adult}$	Adult exposure Duration (yr)	30	HSRA Rules
$ED_{child}$	Child exposure Duration (yr)	6	HSRA Rules
$IR_{GW-adult}$	Daily water ingestion rate (L/dy)	2	HSRA Rules
$IR_{GW-child}$	Daily water ingestion rate (L/dy)	1	HSRA Rules
$IR_{air}$	Daily inhalation rate (m <sup>3</sup> /dy)	15	HSRA Rules
K	Water-to-air volatilization factor (L/m <sup>3</sup> )	0.5	HSRA Rules

HSRA Rules: Georgia Hazardous Response Act Rules, 391-3-19, Appendix III, Media Target Concentrations and Standard Exposure Assumptions.

<http://rules.sos.state.ga.us/docs/391/3/19/Appendix%20I-IV.pdf>

RAGS: Risk Assessment Guidance for Superfund, Volume I - Human Health Evaluation Manual (Part B, Chapter 3, Development of Risk-Based Preliminary Remediation Goals), U.S. Environmental Protection Agency, December 1991.

<http://www.epa.gov/oswer/riskassessment/raqsb/pdf/chapt3.pdf>

IRIS: U.S. Environmental Protection Agency Integrated Risk Information System

<https://cfpub.epa.gov/ncea/iris2/atoz.cfm>

Substance	CAS No.	Carcinogenic Effects							Noncarcinogenic Effects						Type 2 RRS mg/L
		Car. Class	TR	Sf <sub>i</sub> (mg/kg-dy) <sup>-1</sup>	IUR (ug/m <sup>3</sup> ) <sup>-1</sup>	Sf <sub>o</sub> (mg/kg-dy) <sup>-1</sup>	C <sub>car-child</sub> mg/L	C <sub>car-adult</sub> mg/L	THI	RfD <sub>o</sub> mg/kg-dy	RfC <sub>i</sub> mg/kg-dy	RfD <sub>i</sub> mg/kg-dy	C <sub>noncar-child</sub> mg/L	C <sub>noncar-adult</sub> mg/L	
Acetone	67641	NA	NA	NA	NA	NA	NC	NC	1	9.0E-01	3.1E+01	8.9E+00	8.0E+00	2.4E+01	8.0E+00
Chloroform	67663	B	1.E-05	8.1E-02	2.3E-05	3.1E-02	2.9E-03	2.6E-03	1	1.0E-02	9.8E-02	2.8E-02	4.3E-02	1.6E-01	2.6E-03
Trichloroethane, 1,1,1-	71556	NA	NA	NA	NA	NA	NC	NC	1	2.0E+00	5.0E+00	1.4E+00	2.7E+00	1.2E+01	2.7E+00
Carbon Disulfide	75150	NA	NA	NA	NA	NA	NC	NC	1	1.0E-01	7.0E-01	2.0E-01	3.3E-01	1.3E+00	3.3E-01
Bromodichloromethane	75274	B	1.E-05	1.3E-01	3.7E-05	6.2E-02	1.8E-03	1.6E-03	1	2.0E-02		NC	3.1E-01	7.3E-01	1.6E-03
Dichloroethane, 1,1-	75343	C	1.E-05	5.6E-03	1.6E-06	5.7E-03	3.8E-02	3.2E-02	1	2.0E-01		NC	3.1E+00	7.3E+00	3.2E-02
Dichloroethylene, 1,1-	75354	C	1.E-05	NC			NC	NC	1	5.0E-02	2.0E-01	5.7E-02	1.0E-01	4.3E-01	1.0E-01
Methyl Ethyl Ketone (2-Butan	78933	NA	NA	NA	NA	NA	NC	NC	1	6.0E-01	5.0E+00	1.4E+00	2.3E+00	8.5E+00	2.3E+00
Trichloroethane, 1,1,2-	79005	C	1.E-05	5.6E-02	1.6E-05	5.7E-02	3.8E-03	3.2E-03	1	4.0E-03	2.0E-04	5.7E-05	1.2E-04	5.5E-04	1.2E-04
Trichloroethylene	79016	A	1.E-05	1.4E-02	4.1E-06	4.6E-02	1.2E-02	8.5E-03	1	5.0E-04	2.0E-03	5.7E-04	1.0E-03	4.3E-03	1.0E-03
~Naphthalene	91203	C	1.E-05	1.2E-01	3.4E-05		2.0E-03	1.9E-03	1	2.0E-02	3.0E-03	8.6E-04	1.8E-03	8.2E-03	1.8E-03
Cumene	98828	D	1.E-05	NC			NC	NC	1	1.0E-01	4.0E-01	1.1E-01	2.1E-01	8.5E-01	2.1E-01
Ethylbenzene	100414	D	1.E-05	8.8E-03	2.5E-06	1.1E-02	2.4E-02	1.9E-02	1	1.0E-01	1.0E+00	2.9E-01	4.3E-01	1.6E+00	1.9E-02
Toluene	108883	NA	NA	NA	NA	NA	NC	NC	1	8.0E-02	5.0E+00	1.4E+00	8.8E-01	2.4E+00	8.8E-01
Dichloroethylene, 1,2-cis-	156592	NA	NA	NA	NA	NA	NC	NC	1	2.0E-03		NC	3.1E-02	7.3E-02	3.1E-02
Xylenes	1330207	NA	NA	NA	NA	NA	NC	NC	1	2.0E-01	1.0E-01	2.9E-02	5.8E-02	2.7E-01	5.8E-02
~Lead and Compounds	7439921	B	1.E-05	NC	NA		NC	NC	1		NA	NC	NC	NC	NC
Arsenic, Inorganic	7440382	A	1.E-05	NA	NA	1.5E+00	1.2E-03	5.7E-04	1	3.0E-04	NA	NC	4.7E-03	1.1E-02	5.7E-04
Zinc and Compounds	7440666	NA	NA	NA	NA	NA	NC	NC	1	3.0E-01	NA	NC	4.7E+00	1.1E+01	4.7E+00

PQL - Practical quantification limit

Data Input
Database look up values
Spreadsheet calculation

NA - Not Applicable, applies to substances not Classified as Class A, B, or C carcinogens.

NC - Not Calculated, the supporting input data are not established.

ND - No Data, database does not include this parameter.

**Table A-12**  
**Type 2 Groundwater RRSs**  
**Calculations**

**Type 4 Risk Reduction Standards (RRSs) pose no significant risk on the basis of SITE-SPECIFIC RISK ASSESSMENT for NON-RESIDENTIAL PROPERTIES.**

<b>RAGS Equation 1</b>			
<b>Non-Residential Groundwater - Carcinogenic Effects</b>			
<b><math>C_{car} \text{ mg/L} = \frac{TR \times BW \times AT_{car} \times 365 \text{ days/year}}{EF \times ED \times [(SF_o \times IR_{GW}) + (SF_i \times IR_{air} \times K)]}</math></b>			
Parameter	Definition (units)	Default Value	Source
$C_{car}$	Concentration in groundwater (mg/L)	Calculated	Not Applicable
$TR_{A/B}$	IRIS Carcinogen Class A/B target excess lifetime cancer risk	1.E-05	HSRA Rules
$TR_{C/D}$	IRIS Carcinogen Class C/D target excess lifetime cancer risk	1.E-05	HSRA Rules
$SF_i$	Inhalation cancer slope factor (mg/kg-dy) <sup>-1</sup> = IUR x 1,000 x BW 70 kg / IR <sub>air</sub> 20 m <sup>3</sup> /dy	Chemical-Specific	Not Applicable
$SF_o$	Oral cancer slope factor (mg/kg-dy) <sup>-1</sup>	Chemical-Specific	Not Applicable
IUR	Inhalation unit risk (ug/m <sup>3</sup> ) <sup>-1</sup>	Chemical-Specific	Not Applicable
$AT_{car}$	Averaging Time (yr)	70	HSRA Rules

<b>RAGS Equation 2</b>			
<b>Non-Residential Groundwater - Noncarcinogenic Effects</b>			
<b><math>C_{noncar} \text{ mg/L} = \frac{THI \times BW \times AT_{noncar} \times 365 \text{ days/year}}{ED \times EF \times \{[(1/RfD_i) \times K \times IR_{air}] + [(1/RfD_o) \times IR_{GW}]\}}</math></b>			
Parameter	Definition (units)	Default Value	Source
$C_{noncar}$	Concentration in groundwater (mg/L)	Calculated	Not Applicable
THI	Target hazard index (none)	1	HSRA Rules
$RfD_o$	Oral chronic reference dose (mg/kg-dy)	Chemical-Specific	Not Applicable
$RfD_i$	Inhalation chronic reference dose (mg/kg-dy) = RfC <sub>i</sub> x IR <sub>air</sub> 20 m <sup>3</sup> /dy / BW 70 kg	Chemical-Specific	Not Applicable
$AT_{noncar}$	Averaging time (yr)	25	HSRA Rules

<b>Standard Assumptions</b>			
BW	Body weight (kg)	70	HSRA Rules
EF	Exposure frequency (dy/yr)	250	HSRA Rules
ED	Exposure duration (yr)	25	HSRA Rules
IR <sub>GW</sub>	Daily water ingestion rate (L/dy)	1	HSRA Rules
IR <sub>air</sub>	Daily inhalation rate (m <sup>3</sup> /dy)	20	HSRA Rules
K	Water-to-air volatilization factor (L/m <sup>3</sup> )	0.5	HSRA Rules

HSRA Rules: Georgia Hazardous Response Act Rules, 391-3-19, Appendix III, Media Target Concentrations and Standard Exposure Assumptions.

<http://rules.sos.state.ga.us/docs/391/3/19/Appendix%20I-IV.pdf>

RAGS: Risk Assessment Guidance for Superfund, Volume I - Human Health Evaluation Manual (Part B, Chapter 3, Development of Risk-Based Preliminary Remediation Goals), U.S. Environmental Protection Agency, December 1991.

<http://www.epa.gov/oswer/riskassessment/ragsb/pdf/chapt3.pdf>

IRIS: U.S. Environmental Protection Agency Integrated Risk Information System

<https://cfpub.epa.gov/ncea/iris2/atoz.cfm>



Substance	CAS No.	Carcinogenic Effects						Noncarcinogenic Effects					Type 4 RRS mg/L
		Car. Class	TR	Sf <sub>i</sub> (mg/kg-dy) <sup>-1</sup>	IUR (ug/m <sup>3</sup> ) <sup>-1</sup>	Sf <sub>o</sub> (mg/kg-dy) <sup>-1</sup>	C <sub>car</sub> mg/L	THI	RfD <sub>o</sub> mg/kg-dy	RfC <sub>i</sub> mg/kg-dy	RfD <sub>i</sub> mg/kg-dy	C <sub>noncar</sub> mg/L	
Acetone	67641	NA	NA	NA	NA	NA	NC	1	9.0E-01	3.1E+01	8.9E+00	4.6E+01	4.6E+01
Chloroform	67663	B	1.E-05	8.1E-02	2.3E-05	3.1E-02	3.4E-03	1	1.0E-02	9.8E-02	2.8E-02	2.2E-01	3.4E-03
Trichloroethane, 1,1,1-	71556	NA	NA	NA	NA	NA	NC	1	2.0E+00	5.0E+00	1.4E+00	1.4E+01	1.4E+01
Carbon Disulfide	75150	NA	NA	NA	NA	NA	NC	1	1.0E-01	7.0E-01	2.0E-01	1.7E+00	1.7E+00
Bromodichloromethane	75274	B	1.E-05	1.3E-01	3.7E-05	6.2E-02	2.1E-03	1	2.0E-02	ND	NC	2.0E+00	2.1E-03
Dichloroethane, 1,1-	75343	C	1.E-05	5.6E-03	1.6E-06	5.7E-03	4.6E-02	1	2.0E-01	ND	NC	2.0E+01	4.6E-02
Dichloroethylene, 1,1-	75354	C	1.E-05	NC	ND	ND	NC	1	5.0E-02	2.0E-01	5.7E-02	5.2E-01	5.2E-01
Methyl Ethyl Ketone (2-Butanone)	78933	NA	NA	NA	NA	NA	NC	1	6.0E-01	5.0E+00	1.4E+00	1.2E+01	1.2E+01
Trichloroethane, 1,1,2-	79005	C	1.E-05	5.6E-02	1.6E-05	5.7E-02	4.6E-03	1	4.0E-03	2.0E-04	5.7E-05	5.8E-04	5.8E-04
Trichloroethylene	79016	A	1.E-05	1.4E-02	4.1E-06	4.6E-02	1.5E-02	1	5.0E-04	2.0E-03	5.7E-04	5.2E-03	5.2E-03
~Naphthalene	91203	C	1.E-05	1.2E-01	3.4E-05	ND	2.4E-03	1	2.0E-02	3.0E-03	8.6E-04	8.7E-03	2.4E-03
Cumene	98828	D	1.E-05	NC	ND	ND	NC	1	1.0E-01	4.0E-01	1.1E-01	1.0E+00	1.0E+00
Ethylbenzene	100414	D	1.E-05	8.8E-03	2.5E-06	1.1E-02	2.9E-02	1	1.0E-01	1.0E+00	2.9E-01	2.3E+00	2.9E-02
Toluene	108883	NA	NA	NA	NA	NA	NC	1	8.0E-02	5.0E+00	1.4E+00	5.2E+00	5.2E+00
Dichloroethylene, 1,2-cis-	156592	NA	NA	NA	NA	NA	NC	1	2.0E-03	ND	NC	2.0E-01	2.0E-01
Xylenes	1330207	NA	NA	NA	NA	NA	NC	1	2.0E-01	1.0E-01	2.9E-02	2.9E-01	2.9E-01
~Lead and Compounds	7439921	B	1.E-05	NC	NA	ND	NC	1	ND	NA	NC	NC	NC
Arsenic, Inorganic	7440382	A	1.E-05	NA	NA	1.5E+00	1.9E-03	1	3.0E-04	NA	NC	3.1E-02	1.9E-03
Zinc and Compounds	7440666	NA	NA	NA	NA	NA	NC	1	3.0E-01	NA	NC	3.1E+01	3.1E+01

Data Input
Database look up values
Spreadsheet calculation

NA - Not Applicable, applies to substances not Classified as Class A, B, or C carcinogens.

NC - Not Calculated, the supporting input data are not established.

ND - No Data, database does not include this parameter.

Appendix B  
Machine Oil Investigation  
Laboratory Reports



June 05, 2012

Jeff Weeber  
CDM Smith Inc.  
3715 Northside Parkway  
Atlanta GA 30327

TEL: (404) 720-1400  
FAX: (404) 467-4130

RE: CESSNA

Dear Jeff Weeber:

Order No: 1205J50

Analytical Environmental Services, Inc. received 31 samples on May 24, 2012 8:33 am for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/11-06/30/12.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sharissa Hall  
Project Manager

3785 Presidential Parkway, Atlanta GA 30340-3704  
 TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

Date: 5/23/12 Page 1 of 3

COMPANY: <b>CDM Smith</b> PHONE: (404) 720-1400 SAMPLED BY: <b>Nick Fuller</b>		ADDRESS: 3715 Northside Parkway NW B-300 S-400 ATLANTA, GA 30327 FAX:		ANALYSIS REQUESTED Visit our website <a href="http://www.aesatlanta.com">www.aesatlanta.com</a> to check on the status of your results, place bottle orders, etc.		No # of Containers 14	
SIGNATURE: <i>Nick Fuller</i>		PRESERVATION (See codes)		REMARKS		Turnaround Time Request Standard 5 Business Days 2 Business Day Rush Next Business Day Rush Same Day Rush (auth req.) Other	
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)	
1	SB-8 (S)	5/23/12	0840	X		SO	X
2	SB-8 (10)	5/23/12	0845	X		SO	X
3	SB-8 (15)	5/23/12	0855	X		SO	X
4	SB-12 (S)	5/23/12	0915	X		SO	X
5	SB-12 (10)	5/23/12	0920	X		SO	X
6	SB-12 (15)	5/23/12	1005	X		SO	X
7	SB-9 (6)	5/23/12	1020	X		SO	X
8	SB-9 (10)	5/23/12	1025	X		SO	X
9	SB-9 (15)	5/23/12	1030	X		SO	X
10	SB-13 (S)	5/23/12	1100	X		SO	X
11	SB-13 (10)	5/23/12	1105	X		SO	X
12	SB-13 (15)	5/23/12	1110	X		SO	X
13	SB-10 (S)	5/23/12	1140	X		SO	X
14	SB-10 (10)	5/23/12	1145	X		SO	X
RELINQUISHED BY: <i>Nick Fuller</i> 5/24/12 0833		DATE/TIME RECEIVED BY: <i>PLS</i> 5/24/12		PROJECT NAME: <b>Cessna</b>		PROJECT INFORMATION	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD:		PROJECT #: SITE ADDRESS: <b>Columbus, GA</b>		Total # of Containers: 14	
OUT:		VIA:		SEND REPORT TO: <b>Jeff Weeber</b>		Turnaround Time Request Standard 5 Business Days 2 Business Day Rush Next Business Day Rush Same Day Rush (auth req.) Other	
IN:		VIA:		INVOICE TO:		STATE PROGRAM (if any):	
CLIENT: <i>CDM Smith</i>		UPS MAIL COURIER		(IF DIFFERENT FROM ABOVE)		E-mail? Y/N; Fax? Y/N	
GARY HOUND		OTHER		WeeberJL@CDM Smith.COM		DATA PACKAGE: I II III IV	
PO#:		QUOTE #:		PO#:		STATE PROGRAM (if any):	

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AFS WILL PROCEED AS STANDARD TAT.  
 SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water  
 PRESERVATIVE CODES: H+1 = Hydrochloric acid + ice I = Ice only N = Nitric acid S+1 = Sulfuric acid + ice SM+1 = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704  
TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1205JSD

Date: 5/23/12 Page 2 of 3

COMPANY: CDM Smith  
 ADDRESS: 3715 Northside Parkway NW, Atlanta, GA 30327  
 PHONE: (404) 720-1400  
 SAMPLED BY: Nick Fuller  
 SIGNATURE: [Signature]

#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	ANALYSIS REQUESTED		REMARKS	No # of Containers
		DATE	TIME				PRESERVATION (See codes)	PREPARED		
1	SB-10 (15)	5/23/12	1150	X		SO				1
2	SB-14 (5)	5/23/12	1300	X		SO				1
3	SB-14 (10)	5/23/12	1305	X		SO				1
4	SB-14 (15)	5/23/12	1310	X		SO				1
5	SB-17 (5)	5/23/12	1430	X		SO				1
6	SB-17 (10)	5/23/12	1435	X		SO				1
7	SB-17 (15)	5/23/12	1440	X		SO				1
8	SB-16 (5)	5/23/12	1520	X		SO				1
9	SB-16 (10)	5/23/12	1525	X		SO				1
10	SB-16 (15)	5/23/12	1530	X		SO				1
11	SB-15 (5)	5/23/12	1605	X		SO				1
12	SB-15 (10)	5/23/12	1610	X		SO				1
13	SB-15 (15)	5/23/12	1615	X		SO				1
14	SB-11 (5)	5/23/12	1710	X		SO				1

RELINQUISHED BY: [Signature] DATE/TIME: 5/24/12 0833  
 RECEIVED BY: [Signature] DATE/TIME: 5/24/12 8:33

PROJECT NAME: CESSNA  
 PROJECT #: Columbus, GA  
 SITE ADDRESS: Columbus, GA  
 SEND REPORT TO: Jeff Weeber  
 INVOICE TO: (IF DIFFERENT FROM ABOVE)  
 weeberjl@cdsmith.com  
 QUOTE #: PO#:

RECEIPT: Total # of Containers: 14

Turnaround Time Request:  
 Standard 5 Business Days  
 2 Business Day Rush  
 Next Business Day Rush  
 Same Day Rush (auth req.)  
 Other

STATE PROGRAM (if any):  
 E-mail? Y / N, Fax? Y / N  
 DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS:  
 SHIPMENT METHOD: VIA: CLIENT, FEDEX, UPS, MAIL, COURIER, GREYHOUND, OTHER

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC, AES WILL PROCEED AS STANDARD TAT.  
 SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air, GW = Groundwater, SE = Sediment, SO = Soil, SW = Surface Water, W = Water (Blanks), DW = Drinking Water (Blanks), O = Other (specify), WW = Waste Water  
 PRESERVATIVE CODES: H+I = Hydrochloric acid + ice, I = Ice only, N = Nitric acid, S+I = Sulfuric acid + ice, S/M+I = Sodium Bisulfate/Methanol + ice, O = Other (specify), NA = None





ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1205JSU

Date: 5/23/12 Page 3 of 3

COMPANY: <b>COM Smith</b>		ADDRESS: <b>3715 Northside Parkway NW B. 300 S. 400 Atlanta, GA 30327</b>		ANALYSIS REQUESTED		Visit our website <b>www.aesatlanta.com</b> to check on the status of your results, place bottle orders, etc.		No # of Containers	
PHONE: <b>(404) 720-1400</b>		FAX:		PRESERVATION (See codes)		REMARKS			
SAMPLED BY: <b>Nick Folker</b>		SIGNATURE: <i>Nick Folker</i>		DATE		TIME			
SAMPLE ID		SAMPLED		DATE/TIME		COMPOSITE		MATRIX (See codes)	
#		DATE	TIME	Grab	Composite	Matrix			
1	SB-11 (10)	5/23/12	1715	X		SO			1
2	SB-11 (15)	5/23/12	1720	X		SO			1
3	FDN-1	5/23/12	1725	X	X	SO			1
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
RELINQUISHED BY: <i>Nick Folker</i>		DATE/TIME: 5/23/12 0833		RECEIVED BY: <i>Ph</i>		DATE/TIME: 5/24/12		PROJECT INFORMATION	
1: <i>Nick Folker</i>		2: <i>Ph</i>		3: <i>8:33</i>		PROJECT NAME: <b>Cessna</b>		PROJECT #:	
3: <i>8:33</i>						SITE ADDRESS: <b>Columbus, GA</b>		Turnaround Time Request	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD		VIA:		SEND REPORT TO: <b>Jeff Weeber</b>		Standard 5 Business Days	
		VIA:		VIA:		INVOICE TO: <b>Weeber JL @ comsmith.com</b>		2 Business Day Rush	
		CLIENT: <i>Ph</i>		UPS MAIL COURIER		QUOTE #: <b>PO#:</b>		Next Business Day Rush	
		GREYHOUND OTHER		OTHER				Same Day Rush (auth req.)	
								Other	
								STATE PROGRAM (if any):	
								E-mail? Y/N; Fax? Y/N	
								DATA PACKAGE: I II III IV	

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT. SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

**Analytical Environmental Services, Inc**

**Date:** 4-Jun-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-8 (5)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 5/23/2012 8:40:00 AM
<b>Lab ID:</b> 1205J50-001	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	16	7.6		mg/Kg-dry	161990	1	05/30/2012 10:15	SN
Surr: Dioctylphthalate	84.5	47.4-128		%REC	161990	1	05/30/2012 10:15	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	11.8	0		wt%	R222053	1	05/24/2012 18:30	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 4-Jun-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-8 (10)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 5/23/2012 8:45:00 AM
<b>Lab ID:</b> 1205J50-002	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	BRL	8.4		mg/Kg-dry	161990	1	05/30/2012 10:39	SN
Surr: Dioctylphthalate	75.5	47.4-128		%REC	161990	1	05/30/2012 10:39	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	20.6	0		wt%	R222053	1	05/24/2012 18:30	AS

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 4-Jun-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-8 (15)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 5/23/2012 8:55:00 AM
<b>Lab ID:</b> 1205J50-003	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	BRL	7.9		mg/Kg-dry	162086	1	05/31/2012 19:24	SN
Surr: Dioctylphthalate	75	47.4-128		%REC	162086	1	05/31/2012 19:24	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	15.9	0		wt%	R222053	1	05/24/2012 18:30	AS

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 4-Jun-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-12 (5)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 5/23/2012 9:15:00 AM
<b>Lab ID:</b> 1205J50-004	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	BRL	7.4		mg/Kg-dry	161990	1	05/29/2012 18:55	SN
Surr: Dioctylphthalate	80.6	47.4-128		%REC	161990	1	05/29/2012 18:55	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	9.59	0		wt%	R222053	1	05/24/2012 18:30	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit



**Analytical Environmental Services, Inc**

**Date:** 4-Jun-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-12 (10)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 5/23/2012 9:20:00 AM
<b>Lab ID:</b> 1205J50-005	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	BRL	7.8		mg/Kg-dry	161990	1	05/29/2012 19:19	SN
Surr: Dioctylphthalate	57.2	47.4-128		%REC	161990	1	05/29/2012 19:19	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	13.7	0		wt%	R222053	1	05/24/2012 18:30	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 4-Jun-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-12 (15)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 5/23/2012 10:05:00 AM
<b>Lab ID:</b> 1205J50-006	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	BRL	7.4		mg/Kg-dry	161990	1	05/29/2012 19:42	SN
Surr: Dioctylphthalate	63.5	47.4-128		%REC	161990	1	05/29/2012 19:42	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	9.25	0		wt%	R222053	1	05/24/2012 18:30	AS

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 4-Jun-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-9 (5)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 5/23/2012 10:20:00 AM
<b>Lab ID:</b> 1205J50-007	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	BRL	7.3		mg/Kg-dry	161990	1	05/29/2012 20:06	SN
Surr: Dioctylphthalate	70.7	47.4-128		%REC	161990	1	05/29/2012 20:06	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	8.06	0		wt%	R222053	1	05/24/2012 18:30	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 4-Jun-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-9 (10)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 5/23/2012 10:25:00 AM
<b>Lab ID:</b> 1205J50-008	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	BRL	9.6		mg/Kg-dry	161990	1	05/29/2012 20:30	SN
Surr: Dioctylphthalate	76.6	47.4-128		%REC	161990	1	05/29/2012 20:30	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	30.3	0		wt%	R222053	1	05/24/2012 18:30	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 4-Jun-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-9 (15)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 5/23/2012 10:30:00 AM
<b>Lab ID:</b> 1205J50-009	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	BRL	8.1		mg/Kg-dry	161990	1	05/29/2012 20:53	SN
Surr: Dioctylphthalate	72.6	47.4-128		%REC	161990	1	05/29/2012 20:53	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	17.6	0		wt%	R222053	1	05/24/2012 18:30	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit



**Analytical Environmental Services, Inc**

**Date:** 4-Jun-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-13 (5)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 5/23/2012 11:00:00 AM
<b>Lab ID:</b> 1205J50-010	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	BRL	7.2		mg/Kg-dry	161990	1	05/29/2012 22:27	SN
Surr: Dioctylphthalate	69.9	47.4-128		%REC	161990	1	05/29/2012 22:27	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	7.19	0		wt%	R222053	1	05/24/2012 18:30	AS

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 4-Jun-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-13 (10)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 5/23/2012 11:05:00 AM
<b>Lab ID:</b> 1205J50-011	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	BRL	8.3		mg/Kg-dry	161990	1	05/29/2012 21:17	SN
Surr: Dioctylphthalate	77.7	47.4-128		%REC	161990	1	05/29/2012 21:17	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	19.6	0		wt%	R222053	1	05/24/2012 18:30	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 4-Jun-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-13 (15)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 5/23/2012 11:10:00 AM
<b>Lab ID:</b> 1205J50-012	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	BRL	8.4		mg/Kg-dry	161990	1	05/29/2012 21:40	SN
Surr: Dioctylphthalate	73.3	47.4-128		%REC	161990	1	05/29/2012 21:40	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	20.8	0		wt%	R222053	1	05/24/2012 18:30	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 4-Jun-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-10 (5)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 5/23/2012 11:40:00 AM
<b>Lab ID:</b> 1205J50-013	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	4400	370		mg/Kg-dry	161990	50	05/30/2012 15:41	SN
Surr: Dioctylphthalate	0	47.4-128	S	%REC	161990	50	05/30/2012 15:41	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	9.04	0		wt%	R222053	1	05/24/2012 18:30	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 4-Jun-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-10 (10)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 5/23/2012 11:45:00 AM
<b>Lab ID:</b> 1205J50-014	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	BRL	8.7		mg/Kg-dry	161990	1	05/29/2012 22:04	SN
Surr: Dioctylphthalate	66.5	47.4-128		%REC	161990	1	05/29/2012 22:04	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	22.8	0		wt%	R222053	1	05/24/2012 18:30	AS

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 4-Jun-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-10 (15)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 5/23/2012 11:50:00 AM
<b>Lab ID:</b> 1205J50-015	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	BRL	8.5		mg/Kg-dry	161990	1	05/30/2012 11:26	SN
Surr: Dioctylphthalate	86.2	47.4-128		%REC	161990	1	05/30/2012 11:26	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	21.6	0		wt%	R222053	1	05/24/2012 18:30	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit



**Analytical Environmental Services, Inc**

**Date:** 4-Jun-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-14 (5)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 5/23/2012 1:00:00 PM
<b>Lab ID:</b> 1205J50-016	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	600	82		mg/Kg-dry	161990	10	05/30/2012 15:17	SN
Surr: Dioctylphthalate	104	47.4-128		%REC	161990	1	05/30/2012 12:37	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	18.1	0		wt%	R222053	1	05/24/2012 18:30	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 4-Jun-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-14 (10)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 5/23/2012 1:05:00 PM
<b>Lab ID:</b> 1205J50-017	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	BRL	7.4		mg/Kg-dry	161990	1	05/30/2012 11:02	SN
Surr: Dioctylphthalate	61.6	47.4-128		%REC	161990	1	05/30/2012 11:02	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	9.51	0		wt%	R222053	1	05/24/2012 18:30	AS

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 4-Jun-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-14 (15)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 5/23/2012 1:10:00 PM
<b>Lab ID:</b> 1205J50-018	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	BRL	8.2		mg/Kg-dry	161990	1	05/30/2012 11:49	SN
Surr: Dioctylphthalate	98.5	47.4-128		%REC	161990	1	05/30/2012 11:49	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	18.0	0		wt%	R222053	1	05/24/2012 18:30	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 4-Jun-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-17 (5)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 5/23/2012 2:30:00 PM
<b>Lab ID:</b> 1205J50-019	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	BRL	7.3		mg/Kg-dry	161990	1	05/30/2012 12:13	SN
Surr: Dioctylphthalate	56.6	47.4-128		%REC	161990	1	05/30/2012 12:13	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	7.94	0		wt%	R222053	1	05/24/2012 18:30	AS

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 4-Jun-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-17 (10)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 5/23/2012 2:35:00 PM
<b>Lab ID:</b> 1205J50-020	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	880	72		mg/Kg-dry	162086	10	06/01/2012 12:43	SN
Surr: Dioctylphthalate	91.1	47.4-128		%REC	162086	1	05/31/2012 19:48	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	6.99	0		wt%	R222053	1	05/24/2012 18:30	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 4-Jun-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-17 (15)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 5/23/2012 2:40:00 PM
<b>Lab ID:</b> 1205J50-021	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	BRL	7.6		mg/Kg-dry	162086	1	06/01/2012 12:19	SN
Surr: Dioctylphthalate	87.4	47.4-128		%REC	162086	1	06/01/2012 12:19	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	11.7	0		wt%	R222053	1	05/24/2012 18:30	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit



**Analytical Environmental Services, Inc**

**Date:** 4-Jun-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-16 (5)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 5/23/2012 3:20:00 PM
<b>Lab ID:</b> 1205J50-022	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	BRL	7.1		mg/Kg-dry	162086	1	05/31/2012 20:35	SN
Surr: Dioctylphthalate	89.8	47.4-128		%REC	162086	1	05/31/2012 20:35	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	5.38	0		wt%	R222053	1	05/24/2012 18:30	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 4-Jun-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-16 (10)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 5/23/2012 3:25:00 PM
<b>Lab ID:</b> 1205J50-023	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	BRL	8.0		mg/Kg-dry	162086	1	05/31/2012 20:58	SN
Surr: Dioctylphthalate	77.6	47.4-128		%REC	162086	1	05/31/2012 20:58	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	16.5	0		wt%	R222053	1	05/24/2012 18:30	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 4-Jun-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-16 (15)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 5/23/2012 3:30:00 PM
<b>Lab ID:</b> 1205J50-024	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	BRL	8.2		mg/Kg-dry	162086	1	05/31/2012 21:21	SN
Surr: Dioctylphthalate	64	47.4-128		%REC	162086	1	05/31/2012 21:21	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	17.9	0		wt%	R222053	1	05/24/2012 18:30	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 4-Jun-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-15 (5)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 5/23/2012 4:05:00 PM
<b>Lab ID:</b> 1205J50-025	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	BRL	8.1		mg/Kg-dry	162086	1	05/31/2012 21:44	SN
Surr: Dioctylphthalate	59.4	47.4-128		%REC	162086	1	05/31/2012 21:44	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	17.7	0		wt%	R222053	1	05/24/2012 18:30	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 4-Jun-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-15 (10)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 5/23/2012 4:10:00 PM
<b>Lab ID:</b> 1205J50-026	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	BRL	7.3		mg/Kg-dry	162086	1	05/31/2012 22:08	SN
Surr: Dioctylphthalate	92.4	47.4-128		%REC	162086	1	05/31/2012 22:08	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	8.00	0		wt%	R222053	1	05/24/2012 18:30	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 4-Jun-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-15 (15)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 5/23/2012 4:15:00 PM
<b>Lab ID:</b> 1205J50-027	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	18	8.0		mg/Kg-dry	162086	1	05/31/2012 22:31	SN
Surr: Dioctylphthalate	82.4	47.4-128		%REC	162086	1	05/31/2012 22:31	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	16.2	0		wt%	R222053	1	05/24/2012 18:30	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 4-Jun-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-11 (5)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 5/23/2012 5:10:00 PM
<b>Lab ID:</b> 1205J50-028	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	BRL	9.7		mg/Kg-dry	162086	1	05/31/2012 22:54	SN
Surr: Dioctylphthalate	74	47.4-128		%REC	162086	1	05/31/2012 22:54	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	31.2	0		wt%	R222053	1	05/24/2012 18:30	AS

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



**Analytical Environmental Services, Inc**

**Date:** 4-Jun-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-11 (10)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 5/23/2012 5:15:00 PM
<b>Lab ID:</b> 1205J50-029	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	BRL	7.1		mg/Kg-dry	162086	1	05/31/2012 23:18	SN
Surr: Dioctylphthalate	51	47.4-128		%REC	162086	1	05/31/2012 23:18	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	6.29	0		wt%	R222053	1	05/24/2012 18:30	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 4-Jun-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-11 (15)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 5/23/2012 5:20:00 PM
<b>Lab ID:</b> 1205J50-030	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	BRL	8.8		mg/Kg-dry	162086	1	06/01/2012 00:27	SN
Surr: Dioctylphthalate	87.7	47.4-128		%REC	162086	1	06/01/2012 00:27	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	24.2	0		wt%	R222053	1	05/24/2012 18:30	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 4-Jun-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> IDW-1
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 5/23/2012 5:25:00 PM
<b>Lab ID:</b> 1205J50-031	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	1900	70		mg/Kg-dry	162086	10	06/01/2012 13:06	SN
Surr: Dioctylphthalate	0	47.4-128	S	%REC	162086	10	06/01/2012 13:06	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	4.24	0		wt%	R222053	1	05/24/2012 18:30	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client CDM

Work Order Number 1205J50

Checklist completed by Latoya P. 5/24/12  
Signature Date

Carrier name: FedEx  UPS  Courier  Client  US Mail  Other

Shipping container/cooler in good condition? Yes  No  Not Present

Custody seals intact on shipping container/cooler? Yes  No  Not Present

Custody seals intact on sample bottles? Yes  No  Not Present

Container/Temp Blank temperature in compliance? (4°C±2)\* Yes  No

Cooler #1 3.4 Cooler #2 \_\_\_\_\_ Cooler #3 \_\_\_\_\_ Cooler #4 \_\_\_\_\_ Cooler#5 \_\_\_\_\_ Cooler #6 \_\_\_\_\_

Chain of custody present? Yes  No

Chain of custody signed when relinquished and received? Yes  No

Chain of custody agrees with sample labels? Yes  No

Samples in proper container/bottle? Yes  No

Sample containers intact? Yes  No

Sufficient sample volume for indicated test? Yes  No

All samples received within holding time? Yes  No

Was TAT marked on the COC? Yes  No

Proceed with Standard TAT as per project history? Yes  No  Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No

Water - pH acceptable upon receipt? Yes  No  Not Applicable

Adjusted? \_\_\_\_\_ Checked by \_\_\_\_\_

Sample Condition: Good  Other(Explain) \_\_\_\_\_

(For diffusive samples or AIHA lead) Is a known blank included? Yes  No

See Case Narrative for resolution of the Non-Conformance.

\* Samples do not have to comply with the given range for certain parameters.

**Lab Order:** 1205J50  
**Client:** CDM Smith Inc.  
**Project:** CESSNA

**DATES REPORT**

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1205J50-001A	SB-8 (5)	5/23/2012 8:40:00 AM	Soil	DIESEL RANGE ORGANICS		5/29/2012	5/30/2012
				DIESEL RANGE ORGANICS		5/29/2012	5/30/2012
				PERCENT MOISTURE			5/24/2012
1205J50-002A	SB-8 (10)	5/23/2012 8:45:00 AM		DIESEL RANGE ORGANICS		5/29/2012	5/30/2012
				PERCENT MOISTURE			5/24/2012
1205J50-003A	SB-8 (15)	5/23/2012 8:55:00 AM		DIESEL RANGE ORGANICS		5/29/2012	5/29/2012
				DIESEL RANGE ORGANICS		5/30/2012	5/31/2012
				PERCENT MOISTURE			5/24/2012
1205J50-004A	SB-12 (5)	5/23/2012 9:15:00 AM		DIESEL RANGE ORGANICS		5/29/2012	5/29/2012
				PERCENT MOISTURE			5/24/2012
1205J50-005A	SB-12 (10)	5/23/2012 9:20:00 AM		DIESEL RANGE ORGANICS		5/29/2012	5/29/2012
				PERCENT MOISTURE			5/24/2012
1205J50-006A	SB-12 (15)	5/23/2012 10:05:00 AM		DIESEL RANGE ORGANICS		5/29/2012	5/29/2012
				PERCENT MOISTURE			5/24/2012
1205J50-007A	SB-9 (5)	5/23/2012 10:20:00 AM		DIESEL RANGE ORGANICS		5/29/2012	5/29/2012
				PERCENT MOISTURE			5/24/2012
1205J50-008A	SB-9 (10)	5/23/2012 10:25:00 AM		DIESEL RANGE ORGANICS		5/29/2012	5/29/2012
				PERCENT MOISTURE			5/24/2012
1205J50-009A	SB-9 (15)	5/23/2012 10:30:00 AM		DIESEL RANGE ORGANICS		5/29/2012	5/29/2012
				PERCENT MOISTURE			5/24/2012
1205J50-010A	SB-13 (5)	5/23/2012 11:00:00 AM		DIESEL RANGE ORGANICS		5/29/2012	5/29/2012
				PERCENT MOISTURE			5/24/2012
1205J50-011A	SB-13 (10)	5/23/2012 11:05:00 AM		DIESEL RANGE ORGANICS		5/29/2012	5/29/2012
				PERCENT MOISTURE			5/24/2012
1205J50-012A	SB-13 (15)	5/23/2012 11:10:00 AM		DIESEL RANGE ORGANICS		5/29/2012	5/29/2012
				PERCENT MOISTURE			5/24/2012
1205J50-013A	SB-10 (5)	5/23/2012 11:40:00 AM		DIESEL RANGE ORGANICS		5/29/2012	5/29/2012
				DIESEL RANGE ORGANICS		5/29/2012	5/30/2012

**Lab Order:** 1205J50  
**Client:** CDM Smith Inc.  
**Project:** CESSNA

**DATES REPORT**

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1205J50-013A	SB-10 (5)	5/23/2012 11:40:00 AM	Soil	PERCENT MOISTURE			5/24/2012
1205J50-014A	SB-10 (10)	5/23/2012 11:45:00 AM		DIESEL RANGE ORGANICS		5/29/2012	5/29/2012
				PERCENT MOISTURE			5/24/2012
1205J50-015A	SB-10 (15)	5/23/2012 11:50:00 AM		DIESEL RANGE ORGANICS		5/29/2012	5/30/2012
				PERCENT MOISTURE			5/24/2012
1205J50-016A	SB-14 (5)	5/23/2012 1:00:00 PM		DIESEL RANGE ORGANICS		5/29/2012	5/30/2012
				DIESEL RANGE ORGANICS		5/29/2012	5/30/2012
				PERCENT MOISTURE			5/24/2012
1205J50-017A	SB-14 (10)	5/23/2012 1:05:00 PM		DIESEL RANGE ORGANICS		5/29/2012	5/30/2012
				PERCENT MOISTURE			5/24/2012
1205J50-018A	SB-14 (15)	5/23/2012 1:10:00 PM		DIESEL RANGE ORGANICS		5/29/2012	5/30/2012
				PERCENT MOISTURE			5/24/2012
1205J50-019A	SB-17 (5)	5/23/2012 2:30:00 PM		DIESEL RANGE ORGANICS		5/29/2012	5/30/2012
				PERCENT MOISTURE			5/24/2012
1205J50-020A	SB-17 (10)	5/23/2012 2:35:00 PM		DIESEL RANGE ORGANICS		5/30/2012	6/1/2012
				DIESEL RANGE ORGANICS		5/30/2012	5/31/2012
				PERCENT MOISTURE			5/24/2012
1205J50-021A	SB-17 (15)	5/23/2012 2:40:00 PM		DIESEL RANGE ORGANICS		5/30/2012	6/1/2012
				PERCENT MOISTURE			5/24/2012
1205J50-022A	SB-16 (5)	5/23/2012 3:20:00 PM		DIESEL RANGE ORGANICS		5/30/2012	5/31/2012
				PERCENT MOISTURE			5/24/2012
1205J50-023A	SB-16 (10)	5/23/2012 3:25:00 PM		DIESEL RANGE ORGANICS		5/30/2012	5/31/2012
				PERCENT MOISTURE			5/24/2012
1205J50-024A	SB-16 (15)	5/23/2012 3:30:00 PM		DIESEL RANGE ORGANICS		5/30/2012	5/31/2012
				PERCENT MOISTURE			5/24/2012
1205J50-025A	SB-15 (5)	5/23/2012 4:05:00 PM		DIESEL RANGE ORGANICS		5/30/2012	5/31/2012
				PERCENT MOISTURE			5/24/2012
1205J50-026A	SB-15 (10)	5/23/2012 4:10:00 PM		DIESEL RANGE ORGANICS		5/30/2012	5/31/2012

**Lab Order:** 1205J50  
**Client:** CDM Smith Inc.  
**Project:** CESSNA

**DATES REPORT**

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1205J50-026A	SB-15 (10)	5/23/2012 4:10:00 PM	Soil	PERCENT MOISTURE			5/24/2012
1205J50-027A	SB-15 (15)	5/23/2012 4:15:00 PM		DIESEL RANGE ORGANICS		5/30/2012	5/31/2012
				PERCENT MOISTURE			5/24/2012
1205J50-028A	SB-11 (5)	5/23/2012 5:10:00 PM		DIESEL RANGE ORGANICS		5/30/2012	5/31/2012
				PERCENT MOISTURE			5/24/2012
1205J50-029A	SB-11 (10)	5/23/2012 5:15:00 PM		DIESEL RANGE ORGANICS		5/30/2012	5/31/2012
				PERCENT MOISTURE			5/24/2012
1205J50-030A	SB-11 (15)	5/23/2012 5:20:00 PM		DIESEL RANGE ORGANICS		5/30/2012	6/1/2012
				PERCENT MOISTURE			5/24/2012
1205J50-031A	IDW-1	5/23/2012 5:25:00 PM		DIESEL RANGE ORGANICS		5/30/2012	6/1/2012
				DIESEL RANGE ORGANICS		5/30/2012	6/1/2012
				PERCENT MOISTURE			5/24/2012



**Client:** CDM Smith Inc.  
**Project Name:** CESSNA  
**Workorder:** 1205J50

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 161990**

Sample ID: <b>MB-161990</b>	Client ID:	Units: <b>mg/Kg</b>	Prep Date: <b>05/29/2012</b>	Run No: <b>222161</b>							
SampleType: <b>MBLK</b>	TestCode: <b>DIESEL RANGE ORGANICS SW8015C</b>	BatchID: <b>161990</b>	Analysis Date: <b>05/29/2012</b>	Seq No: <b>4646903</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics)	BRL	6.7	0	0	0	0	0	0	0	0	
Surr: Dioctylphthalate	2.083	0	3.3	0	63.1	47.4	128	0	0	0	

Sample ID: <b>LCS-161990</b>	Client ID:	Units: <b>mg/Kg</b>	Prep Date: <b>05/29/2012</b>	Run No: <b>222161</b>							
SampleType: <b>LCS</b>	TestCode: <b>DIESEL RANGE ORGANICS SW8015C</b>	BatchID: <b>161990</b>	Analysis Date: <b>05/29/2012</b>	Seq No: <b>4646905</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics)	23.72	6.7	33.3	0	71.2	51.4	120	0	0	0	
Surr: Dioctylphthalate	2.582	0	3.33	0	77.5	47.4	128	0	0	0	

Sample ID: <b>1205J50-010AMS</b>	Client ID: <b>SB-13 (5)</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>05/29/2012</b>	Run No: <b>222161</b>							
SampleType: <b>MS</b>	TestCode: <b>DIESEL RANGE ORGANICS SW8015C</b>	BatchID: <b>161990</b>	Analysis Date: <b>05/29/2012</b>	Seq No: <b>4646932</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics)	28.16	7.2	35.81	4.996	64.7	35.2	118	0	0	0	
Surr: Dioctylphthalate	3.136	0	3.581	0	87.6	47.4	128	0	0	0	

Sample ID: <b>1205J50-010AMSD</b>	Client ID: <b>SB-13 (5)</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>05/29/2012</b>	Run No: <b>222161</b>							
SampleType: <b>MSD</b>	TestCode: <b>DIESEL RANGE ORGANICS SW8015C</b>	BatchID: <b>161990</b>	Analysis Date: <b>05/29/2012</b>	Seq No: <b>4646934</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics)	30.67	7.2	35.87	4.996	71.6	35.2	118	28.16	8.52	27.6	
Surr: Dioctylphthalate	2.931	0	3.587	0	81.7	47.4	128	3.136	0	0	

<b>Qualifiers:</b>	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

**Client:** CDM Smith Inc.  
**Project Name:** CESSNA  
**Workorder:** 1205J50

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 162086**

Sample ID: <b>MB-162086</b>	Client ID:	Units: <b>mg/Kg</b>	Prep Date: <b>05/30/2012</b>	Run No: <b>222364</b>							
SampleType: <b>MBLK</b>	TestCode: <b>DIESEL RANGE ORGANICS SW8015C</b>	BatchID: <b>162086</b>	Analysis Date: <b>05/31/2012</b>	Seq No: <b>4651136</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics)	BRL	6.7	0	0	0	0	0	0	0	0	
Surr: Diethylphthalate	2.608	0	3.3	0	79	47.4	128	0	0	0	

Sample ID: <b>LCS-162086</b>	Client ID:	Units: <b>mg/Kg</b>	Prep Date: <b>05/30/2012</b>	Run No: <b>222364</b>							
SampleType: <b>LCS</b>	TestCode: <b>DIESEL RANGE ORGANICS SW8015C</b>	BatchID: <b>162086</b>	Analysis Date: <b>05/31/2012</b>	Seq No: <b>4651139</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics)	26.52	6.7	33.3	0	79.6	51.4	120	0	0	0	
Surr: Diethylphthalate	3.183	0	3.33	0	95.6	47.4	128	0	0	0	

Sample ID: <b>1205J50-029AMS</b>	Client ID: <b>SB-11 (10)</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>05/30/2012</b>	Run No: <b>222364</b>							
SampleType: <b>MS</b>	TestCode: <b>DIESEL RANGE ORGANICS SW8015C</b>	BatchID: <b>162086</b>	Analysis Date: <b>05/31/2012</b>	Seq No: <b>4651171</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics)	23.24	7.1	35.45	2.198	59.4	35.2	118	0	0	0	
Surr: Diethylphthalate	2.819	0	3.545	0	79.5	47.4	128	0	0	0	

Sample ID: <b>1205J50-029AMSD</b>	Client ID: <b>SB-11 (10)</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>05/30/2012</b>	Run No: <b>222364</b>							
SampleType: <b>MSD</b>	TestCode: <b>DIESEL RANGE ORGANICS SW8015C</b>	BatchID: <b>162086</b>	Analysis Date: <b>06/01/2012</b>	Seq No: <b>4651176</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics)	20.16	7.1	35.48	2.198	50.6	35.2	118	23.24	14.2	27.6	
Surr: Diethylphthalate	2.631	0	3.548	0	74.1	47.4	128	2.819	0	0	

<b>Qualifiers:</b>	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



April 20, 2012

Tom Duffey  
CDM Smith Inc.  
3715 Northside Parkway  
Atlanta GA 30327

TEL: (404) 720-1400  
FAX: (404) 467-4130

RE: CESSNA

Dear Tom Duffey:

Order No: 1204A67

Analytical Environmental Services, Inc. received 7 samples on April 13, 2012 3:55 pm for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/11-06/30/12.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sharissa Hall  
Project Manager



**ANALYTICAL ENVIRONMENTAL SERVICES, INC**  
 3785 Presidential Parkway, Atlanta GA 30340-3704  
**AES** TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

**CHAIN OF CUSTODY**

Work Order: 1204167

Date: 4/13/12 Page 1 of 1

COMPANY:		ADDRESS:				ANALYSIS REQUESTED		RECEIPT	
Cam Smith		3715 Northside Parkway Atlanta, GA 30307				Visit our website <a href="http://www.aesatlanta.com">www.aesatlanta.com</a> to check on the status of your results, place bottle orders, etc.		Total # of Containers <u>7</u>	
PHONE: 404-720-1400		FAX: 404-720-1400				PRESERVATION (See codes)		Turnaround Time Request	
SAMPLED BY: Nick Felker		SIGNATURE: <i>Nick Felker</i>				Matrix		Standard 5 Business Days	
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix	REMARKS	Next Business Day Rush	
1	SB-1 (2-3)	4/13/12	1115	X		SO		Same Day Rush (auth req)	
2	SB-2 (2-3)	4/13/12	1135	X		SO		Other	
3	SB-3 (2-3)	4/13/12	1135	X		SO		STATE PROGRAM (if any):	
4	SB-4 (2-3)	4/13/12	1145	X		SO		E-mail? Y / N; Fax? Y / N	
5	SB-5 (2-3)	4/13/12	1205	X		SO		DATA PACKAGE: I II III IV	
6	SB-6 (2-3)	4/13/12	1215	X		SO			
7	SB-7 (1-2)	4/13/12	1225	X		SO			
8									
9									
10									
11									
12									
13									
14									
RELINQUISHED BY: <i>Drig</i>		DATE/TIME: 4/13/12 1555		RECEIVED BY: <i>PLS</i>		DATE/TIME: 4/13/12 15:55		PROJECT INFORMATION	
								PROJECT NAME: <u>Cessna</u>	
								PROJECT #:	
								SITE ADDRESS: <u>Columbus, GA</u>	
								SEND REPORT TO: <u>Jeff Weeber Tom Duffy</u>	
								INVOICE TO: <u>duffyjt@cdmsmith.com</u>	
								(IF DIFFERENT FROM ABOVE)	
								QUOTE #: <u>WeeberjL@cdmsmith.com</u>	
								SHIPMENT METHOD	
								OUT / IN	
								VIA: <u>Greyhound</u>	
								VIA: <u>UPS MAIL COURIER</u>	
								CLIENT: <u>EdEx</u>	
								OTHER: <u>Greyhound</u>	
SPECIAL INSTRUCTIONS/COMMENTS:									

**SAMPLES RECEIVED AFTER 3PM ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.**  
**SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.**

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water  
 PRESERVATIVE CODES: H+1 = Hydrochloric acid + ice I = Ice only N = Nitric acid S+1 = Sulfuric acid + ice S/M+1 = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

**Analytical Environmental Services, Inc**

**Date:** 19-Apr-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-1 (2-3)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 4/13/2012 11:15:00 AM
<b>Lab ID:</b> 1204A67-001	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>		<b>(SW3550C)</b>						
TPH (Diesel Range Organics)	6400	770		mg/Kg-dry	160111	100	04/18/2012 17:24	SN
Surr: Dioctylphthalate	0	47.4-128	S	%REC	160111	100	04/18/2012 17:24	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	13.2	0		wt%	R219512	1	04/19/2012 10:00	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Apr-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-2 (2-3)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 4/13/2012 11:25:00 AM
<b>Lab ID:</b> 1204A67-002	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	2800	150		mg/Kg-dry	160111	20	04/18/2012 17:47	SN
Surr: Dioctylphthalate	0	47.4-128	S	%REC	160111	20	04/18/2012 17:47	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	13.5	0		wt%	R219512	1	04/19/2012 10:00	AS

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Apr-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-3 (2-3)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 4/13/2012 11:35:00 AM
<b>Lab ID:</b> 1204A67-003	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	9100	740		mg/Kg-dry	160111	50	04/18/2012 18:57	SN
Surr: Dioctylphthalate	0	47.4-128	S	%REC	160111	50	04/18/2012 18:57	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	10.0	0		wt%	R219512	1	04/19/2012 10:00	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Apr-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-4 (2-3)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 4/13/2012 11:45:00 AM
<b>Lab ID:</b> 1204A67-004	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	BRL	7.5		mg/Kg-dry	160111	1	04/18/2012 10:05	SN
Surr: Dioctylphthalate	89.3	47.4-128		%REC	160111	1	04/18/2012 10:05	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	10.4	0		wt%	R219512	1	04/19/2012 10:00	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit



**Analytical Environmental Services, Inc**

**Date:** 19-Apr-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-5 (2-3)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 4/13/2012 12:05:00 PM
<b>Lab ID:</b> 1204A67-005	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	BRL	7.5		mg/Kg-dry	160111	1	04/18/2012 10:28	SN
Surr: Dioctylphthalate	66.8	47.4-128		%REC	160111	1	04/18/2012 10:28	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	10.5	0		wt%	R219512	1	04/19/2012 10:00	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Apr-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-6 (2-3)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 4/13/2012 12:15:00 PM
<b>Lab ID:</b> 1204A67-006	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	5800	780		mg/Kg-dry	160111	100	04/18/2012 19:20	SN
Surr: Dioctylphthalate	0	47.4-128	S	%REC	160111	100	04/18/2012 19:20	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	13.7	0		wt%	R219512	1	04/19/2012 10:00	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Apr-12

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-7 (1-2)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 4/13/2012 12:25:00 PM
<b>Lab ID:</b> 1204A67-007	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>DIESEL RANGE ORGANICS SW8015C</b>					<b>(SW3550C)</b>			
TPH (Diesel Range Organics)	18000	1500		mg/Kg-dry	160111	100	04/18/2012 19:43	SN
Surr: Dioctylphthalate	0	47.4-128	S	%REC	160111	100	04/18/2012 19:43	SN
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	10.6	0		wt%	R219512	1	04/19/2012 10:00	AS

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client CDM

Work Order Number 1204A(67)

Checklist completed by me 4/13/12  
Signature Date

Carrier name: FedEx  UPS  Courier  Client  US Mail  Other

Shipping container/cooler in good condition? Yes  No  Not Present

Custody seals intact on shipping container/cooler? Yes  No  Not Present

Custody seals intact on sample bottles? Yes  No  Not Present

Container/Temp Blank temperature in compliance? (4°C±2)\* Yes  No

Cooler #1 3.2 Cooler #2 \_\_\_\_\_ Cooler #3 \_\_\_\_\_ Cooler #4 \_\_\_\_\_ Cooler#5 \_\_\_\_\_ Cooler #6 \_\_\_\_\_

Chain of custody present? Yes  No

Chain of custody signed when relinquished and received? Yes  No

Chain of custody agrees with sample labels? Yes  No

Samples in proper container/bottle? Yes  No

Sample containers intact? Yes  No

Sufficient sample volume for indicated test? Yes  No

All samples received within holding time? Yes  No

Was TAT marked on the COC? Yes  No

Proceed with Standard TAT as per project history? Yes  No  Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No

Water - pH acceptable upon receipt? Yes  No  Not Applicable

Adjusted? \_\_\_\_\_ Checked by \_\_\_\_\_

Sample Condition: Good  Other(Explain) \_\_\_\_\_

(For diffusive samples or AIHA lead) Is a known blank included? Yes  No

See Case Narrative for resolution of the Non-Conformance.

\* Samples do not have to comply with the given range for certain parameters.

Client: CDM Smith Inc.  
 Project: CESSNA  
 Lab Order: 1204A67

### Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1204A67-001A	SB-1 (2-3)	4/13/2012 11:15:00AM	Soil	DIESEL RANGE ORGANICS		04/17/2012	04/18/2012
1204A67-001A	SB-1 (2-3)	4/13/2012 11:15:00AM	Soil	PERCENT MOISTURE			04/19/2012
1204A67-002A	SB-2 (2-3)	4/13/2012 11:25:00AM	Soil	DIESEL RANGE ORGANICS		04/17/2012	04/18/2012
1204A67-002A	SB-2 (2-3)	4/13/2012 11:25:00AM	Soil	DIESEL RANGE ORGANICS		04/17/2012	04/18/2012
1204A67-002A	SB-2 (2-3)	4/13/2012 11:25:00AM	Soil	PERCENT MOISTURE			04/19/2012
1204A67-003A	SB-3 (2-3)	4/13/2012 11:35:00AM	Soil	DIESEL RANGE ORGANICS		04/17/2012	04/18/2012
1204A67-003A	SB-3 (2-3)	4/13/2012 11:35:00AM	Soil	PERCENT MOISTURE			04/19/2012
1204A67-004A	SB-4 (2-3)	4/13/2012 11:45:00AM	Soil	DIESEL RANGE ORGANICS		04/17/2012	04/18/2012
1204A67-004A	SB-4 (2-3)	4/13/2012 11:45:00AM	Soil	PERCENT MOISTURE			04/19/2012
1204A67-005A	SB-5 (2-3)	4/13/2012 12:05:00PM	Soil	DIESEL RANGE ORGANICS		04/17/2012	04/18/2012
1204A67-005A	SB-5 (2-3)	4/13/2012 12:05:00PM	Soil	PERCENT MOISTURE			04/19/2012
1204A67-006A	SB-6 (2-3)	4/13/2012 12:15:00PM	Soil	DIESEL RANGE ORGANICS		04/17/2012	04/18/2012
1204A67-006A	SB-6 (2-3)	4/13/2012 12:15:00PM	Soil	PERCENT MOISTURE			04/19/2012
1204A67-007A	SB-7 (1-2)	4/13/2012 12:25:00PM	Soil	DIESEL RANGE ORGANICS		04/17/2012	04/18/2012
1204A67-007A	SB-7 (1-2)	4/13/2012 12:25:00PM	Soil	PERCENT MOISTURE			04/19/2012

Client: CDM Smith Inc.  
 Project Name: CESSNA  
 Workorder: 1204A67

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 160111

Sample ID: <b>MB-160111</b>	Client ID:	Units: <b>mg/Kg</b>	Prep Date: <b>04/17/2012</b>	Run No: <b>219332</b>							
SampleType: <b>MBLK</b>	TestCode: <b>DIESEL RANGE ORGANICS SW8015C</b>	BatchID: <b>160111</b>	Analysis Date: <b>04/17/2012</b>	Seq No: <b>4586020</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics)	BRL	6.7	0	0	0	0	0	0	0	0	
Surr: Dioctylphthalate	2.859	0	3.3	0	86.6	47.4	128	0	0	0	

Sample ID: <b>LCS-160111</b>	Client ID:	Units: <b>mg/Kg</b>	Prep Date: <b>04/17/2012</b>	Run No: <b>219411</b>							
SampleType: <b>LCS</b>	TestCode: <b>DIESEL RANGE ORGANICS SW8015C</b>	BatchID: <b>160111</b>	Analysis Date: <b>04/18/2012</b>	Seq No: <b>4587493</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics)	24.56	6.7	33.3	0	73.8	51.4	120	0	0	0	
Surr: Dioctylphthalate	2.868	0	3.33	0	86.1	47.4	128	0	0	0	

Sample ID: <b>1204A67-002AMS</b>	Client ID: <b>SB-2 (2-3)</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>04/17/2012</b>	Run No: <b>219411</b>							
SampleType: <b>MS</b>	TestCode: <b>DIESEL RANGE ORGANICS SW8015C</b>	BatchID: <b>160111</b>	Analysis Date: <b>04/18/2012</b>	Seq No: <b>4588681</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics)	2211	150	38.45	2835	-1620	35.2	118	0	0	0	S
Surr: Dioctylphthalate	0	0	3.845	0	0	47.4	128	0	0	0	S

Sample ID: <b>1204A67-002AMSD</b>	Client ID: <b>SB-2 (2-3)</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>04/17/2012</b>	Run No: <b>219411</b>							
SampleType: <b>MSD</b>	TestCode: <b>DIESEL RANGE ORGANICS SW8015C</b>	BatchID: <b>160111</b>	Analysis Date: <b>04/18/2012</b>	Seq No: <b>4588682</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

TPH (Diesel Range Organics)	2041	150	38.43	2835	-2070	35.2	118	2211	8.02	27.6	S
Surr: Dioctylphthalate	0	0	3.843	0	0	47.4	128	0	0	0	S

**Qualifiers:**

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



March 07, 2012

Steve Erlandson  
Cessna Aircraft Co.  
4800 Cargo Drive  
Columbus GA 31907

TEL: (706) 569-2114  
FAX: (316) 206-6120

RE: Groundwater Well Samples

Dear Steve Erlandson:

Order No: 1202M43

Analytical Environmental Services, Inc. received 4 samples on 2/28/2012 10:15:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/11-06/30/12.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sharissa Hall  
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1202MYB

1202MYB

Date: 2/27/12 Page 1 of 1

COMPANY:		ADDRESS:				ANALYSIS REQUESTED		REMARKS		No # of Containers	
CESSNA AIRCRAFT COMPANY		4800 CARGO DRIVE COLUMBUS, GA 31904						Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.			
PHONE: 706-569-2130		FAX: 706-569-2104		SIGNATURE: Steve Erlandson		PRESERVATION (See codes)		REMARKS			
SAMPLED BY: STEVE ERLANDSON		DATE		TIME		Grab		Composite		Matrix	
1	02272012-C-001	2/27/12	11:30AM	X				X			1
2	02272012-C-002	2/27/12	11:30AM	X				X			1
3	02272012-C-003	2/27/12	11:30AM	X				X			1
4	02272012-C-004	2/27/12	11:30AM	X				X			1
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
RELINQUISHED BY: Steve Erlandson		DATE/TIME: 2/27/12		RECEIVED BY: [Signature]		DATE/TIME: 2/28/12		PROJECT INFORMATION: GROUND WATER WELL SAMPLES		RECEIPT: Total # of Containers	
SPECIAL INSTRUCTIONS/COMMENTS: TPAH, PAH		SHIPMENT METHOD: OUT / / / IN / / /		VIA: FedEx		CLIENT: UPS MAIL COURIER		OTHER: GREYHOUND		Turnaround Time Request: <input checked="" type="checkbox"/> Standard 5 Business Days, <input type="checkbox"/> 2 Business Day Rush, <input type="checkbox"/> Next Business Day Rush, <input type="checkbox"/> Same Day Rush (auth req.), <input type="checkbox"/> Other	
		STATE PROGRAM (if any):		E-mail? <input checked="" type="checkbox"/> N, <input type="checkbox"/> Y		FAX? <input checked="" type="checkbox"/> N, <input type="checkbox"/> Y		DATA PACKAGE: I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV		QUOTE #: PO#:	

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.  
 SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water  
 PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client



**Analytical Environmental Services, Inc**

**Date:** 7-Mar-12

<b>Client:</b> Cessna Aircraft Co.	<b>Client Sample ID:</b> 02272012-C-001
<b>Project Name:</b> Groundwater Well Samples	<b>Collection Date:</b> 2/27/2012 11:30:00 AM
<b>Lab ID:</b> 1202M43-001	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Total Petroleum Hydrocarbons(SGT-HEM)</b>	<b>E1664</b>			<b>(E1664)</b>				
Total Petroleum Hydrocarbons	BRL	5.0		mg/L	158556	1	03/05/2012 16:00	AA

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 7-Mar-12

<b>Client:</b> Cessna Aircraft Co.	<b>Client Sample ID:</b> 02272012-C-002
<b>Project Name:</b> Groundwater Well Samples	<b>Collection Date:</b> 2/27/2012 11:30:00 AM
<b>Lab ID:</b> 1202M43-002	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Total Petroleum Hydrocarbons(SGT-HEM)</b>	<b>E1664</b>				<b>(E1664)</b>			
Total Petroleum Hydrocarbons	BRL	5.0		mg/L	158556	1	03/05/2012 16:00	AA

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Cessna Aircraft Co.	<b>Client Sample ID:</b> 02272012-C-003
<b>Project Name:</b> Groundwater Well Samples	<b>Collection Date:</b> 2/27/2012 11:30:00 AM
<b>Lab ID:</b> 1202M43-003	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>POLYAROMATIC HYDROCARBONS SW8270D</b>					<b>(SW3535A)</b>			
Naphthalene	37	10		ug/L	158414	1	03/02/2012 16:50	NE
Acenaphthylene	BRL	10		ug/L	158414	1	03/02/2012 16:50	NE
1-Methylnaphthalene	BRL	10		ug/L	158414	1	03/02/2012 16:50	NE
2-Methylnaphthalene	14	10		ug/L	158414	1	03/02/2012 16:50	NE
Acenaphthene	BRL	10		ug/L	158414	1	03/02/2012 16:50	NE
Fluorene	BRL	10		ug/L	158414	1	03/02/2012 16:50	NE
Phenanthrene	BRL	10		ug/L	158414	1	03/02/2012 16:50	NE
Anthracene	BRL	10		ug/L	158414	1	03/02/2012 16:50	NE
Fluoranthene	BRL	10		ug/L	158414	1	03/02/2012 16:50	NE
Pyrene	BRL	10		ug/L	158414	1	03/02/2012 16:50	NE
Benz(a)anthracene	BRL	10		ug/L	158414	1	03/02/2012 16:50	NE
Chrysene	BRL	10		ug/L	158414	1	03/02/2012 16:50	NE
Benzo(b)fluoranthene	BRL	10		ug/L	158414	1	03/02/2012 16:50	NE
Benzo(k)fluoranthene	BRL	10		ug/L	158414	1	03/02/2012 16:50	NE
Benzo(a)pyrene	BRL	10		ug/L	158414	1	03/02/2012 16:50	NE
Dibenz(a,h)anthracene	BRL	10		ug/L	158414	1	03/02/2012 16:50	NE
Benzo(g,h,i)perylene	BRL	10		ug/L	158414	1	03/02/2012 16:50	NE
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	158414	1	03/02/2012 16:50	NE
Surr: Nitrobenzene-d5	63.6	30.3-122		%REC	158414	1	03/02/2012 16:50	NE
Surr: 2-Fluorobiphenyl	61.3	41-120		%REC	158414	1	03/02/2012 16:50	NE
Surr: 4-Terphenyl-d14	63.5	55.9-122		%REC	158414	1	03/02/2012 16:50	NE

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 7-Mar-12

<b>Client:</b> Cessna Aircraft Co.	<b>Client Sample ID:</b> 02272012-C-004
<b>Project Name:</b> Groundwater Well Samples	<b>Collection Date:</b> 2/27/2012 11:30:00 AM
<b>Lab ID:</b> 1202M43-004	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>POLYAROMATIC HYDROCARBONS SW8270D</b>					<b>(SW3535A)</b>			
Naphthalene	12	10		ug/L	158414	1	03/02/2012 17:15	NE
Acenaphthylene	BRL	10		ug/L	158414	1	03/02/2012 17:15	NE
1-Methylnaphthalene	BRL	10		ug/L	158414	1	03/02/2012 17:15	NE
2-Methylnaphthalene	BRL	10		ug/L	158414	1	03/02/2012 17:15	NE
Acenaphthene	BRL	10		ug/L	158414	1	03/02/2012 17:15	NE
Fluorene	BRL	10		ug/L	158414	1	03/02/2012 17:15	NE
Phenanthrene	BRL	10		ug/L	158414	1	03/02/2012 17:15	NE
Anthracene	BRL	10		ug/L	158414	1	03/02/2012 17:15	NE
Fluoranthene	BRL	10		ug/L	158414	1	03/02/2012 17:15	NE
Pyrene	BRL	10		ug/L	158414	1	03/02/2012 17:15	NE
Benz(a)anthracene	BRL	10		ug/L	158414	1	03/02/2012 17:15	NE
Chrysene	BRL	10		ug/L	158414	1	03/02/2012 17:15	NE
Benzo(b)fluoranthene	BRL	10		ug/L	158414	1	03/02/2012 17:15	NE
Benzo(k)fluoranthene	BRL	10		ug/L	158414	1	03/02/2012 17:15	NE
Benzo(a)pyrene	BRL	10		ug/L	158414	1	03/02/2012 17:15	NE
Dibenz(a,h)anthracene	BRL	10		ug/L	158414	1	03/02/2012 17:15	NE
Benzo(g,h,i)perylene	BRL	10		ug/L	158414	1	03/02/2012 17:15	NE
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	158414	1	03/02/2012 17:15	NE
Surr: Nitrobenzene-d5	65.6	30.3-122		%REC	158414	1	03/02/2012 17:15	NE
Surr: 2-Fluorobiphenyl	57.2	41-120		%REC	158414	1	03/02/2012 17:15	NE
Surr: 4-Terphenyl-d14	76.2	55.9-122		%REC	158414	1	03/02/2012 17:15	NE

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client CESNE

Work Order Number 12021143

Checklist completed by [Signature] Date 2/20/12

Carrier name: FedEx  UPS  Courier  Client  US Mail  Other

Shipping container/cooler in good condition? Yes  No  Not Present

Custody seals intact on shipping container/cooler? Yes  No  Not Present

Custody seals intact on sample bottles? Yes  No  Not Present

Container/Temp Blank temperature in compliance? (4°C±2)\* Yes  No

Cooler #1 3.3° Cooler #2 \_\_\_\_\_ Cooler #3 \_\_\_\_\_ Cooler #4 \_\_\_\_\_ Cooler#5 \_\_\_\_\_ Cooler #6 \_\_\_\_\_

Chain of custody present? Yes  No

Chain of custody signed when relinquished and received? Yes  No

Chain of custody agrees with sample labels? Yes  No

Samples in proper container/bottle? Yes  No

Sample containers intact? Yes  No

Sufficient sample volume for indicated test? Yes  No

All samples received within holding time? Yes  No

Was TAT marked on the COC? Yes  No

Proceed with Standard TAT as per project history? Yes  No  Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No

Water - pH acceptable upon receipt? Yes  No  Not Applicable

Adjusted? \_\_\_\_\_ Checked by MJ

Sample Condition: Good  Other(Explain) \_\_\_\_\_

(For diffusive samples or AIHA lead) Is a known blank included? Yes  No

See Case Narrative for resolution of the Non-Conformance.

\* Samples do not have to comply with the given range for certain parameters.

Client: Cessna Aircraft Co.  
 Project: Groundwater Well Samples  
 Lab Order: 1202M43

**Dates Report**

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1202M43-001A	02272012-C-001	2/27/2012 11:30:00AM	Aqueous	Total Petroleum Hydrocarbons		03/05/2012	03/05/2012
1202M43-002A	02272012-C-002	2/27/2012 11:30:00AM	Aqueous	Total Petroleum Hydrocarbons		03/05/2012	03/05/2012
1202M43-003A	02272012-C-003	2/27/2012 11:30:00AM	Aqueous	POLYNUCLEAR AROMATIC HYDROCARBONS		03/01/2012	03/02/2012
1202M43-004A	02272012-C-004	2/27/2012 11:30:00AM	Aqueous	POLYNUCLEAR AROMATIC HYDROCARBONS		03/01/2012	03/02/2012

Client: Cessna Aircraft Co.  
 Project Name: Groundwater Well Samples  
 Workorder: 1202M43

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 158414

Sample ID: <b>MB-158414</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>03/01/2012</b>	Run No: <b>216261</b>							
SampleType: <b>MBLK</b>	TestCode: <b>POLYAROMATIC HYDROCARBONS SW8270D</b>	BatchID: <b>158414</b>	Analysis Date: <b>03/02/2012</b>	Seq No: <b>4522402</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	BRL	10	0	0	0	0	0	0	0	0	0
2-Methylnaphthalene	BRL	10	0	0	0	0	0	0	0	0	0
Acenaphthene	BRL	10	0	0	0	0	0	0	0	0	0
Acenaphthylene	BRL	10	0	0	0	0	0	0	0	0	0
Anthracene	BRL	10	0	0	0	0	0	0	0	0	0
Benz(a)anthracene	BRL	10	0	0	0	0	0	0	0	0	0
Benzo(a)pyrene	BRL	10	0	0	0	0	0	0	0	0	0
Benzo(b)fluoranthene	BRL	10	0	0	0	0	0	0	0	0	0
Benzo(g,h,i)perylene	BRL	10	0	0	0	0	0	0	0	0	0
Benzo(k)fluoranthene	BRL	10	0	0	0	0	0	0	0	0	0
Chrysene	BRL	10	0	0	0	0	0	0	0	0	0
Dibenz(a,h)anthracene	BRL	10	0	0	0	0	0	0	0	0	0
Fluoranthene	BRL	10	0	0	0	0	0	0	0	0	0
Fluorene	BRL	10	0	0	0	0	0	0	0	0	0
Indeno(1,2,3-cd)pyrene	BRL	10	0	0	0	0	0	0	0	0	0
Naphthalene	BRL	10	0	0	0	0	0	0	0	0	0
Phenanthrene	BRL	10	0	0	0	0	0	0	0	0	0
Pyrene	BRL	10	0	0	0	0	0	0	0	0	0
Surr: 2-Fluorobiphenyl	37.55	0	50	0	75.1	41	120	0	0	0	0
Surr: 4-Terphenyl-d14	48.91	0	50	0	97.8	55.9	122	0	0	0	0
Surr: Nitrobenzene-d5	32.12	0	50	0	64.2	30.3	122	0	0	0	0

Sample ID: <b>LCS-158414</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>03/01/2012</b>	Run No: <b>216261</b>							
SampleType: <b>LCS</b>	TestCode: <b>POLYAROMATIC HYDROCARBONS SW8270D</b>	BatchID: <b>158414</b>	Analysis Date: <b>03/02/2012</b>	Seq No: <b>4522406</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	31.44	10	50	0	62.9	53	120	0	0	0	0
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**Qualifiers:**

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Cessna Aircraft Co.  
**Project Name:** Groundwater Well Samples  
**Workorder:** 1202M43

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 158414**

Sample ID: <b>LCS-158414</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>03/01/2012</b>	Run No: <b>216261</b>							
SampleType: <b>LCS</b>	TestCode: <b>POLYAROMATIC HYDROCARBONS SW8270D</b>	BatchID: <b>158414</b>	Analysis Date: <b>03/02/2012</b>	Seq No: <b>4522406</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Methylnaphthalene	33.78	10	50	0	67.6	51.4	120	0	0	0	
Acenaphthene	37.06	10	50	0	74.1	49.2	120	0	0	0	
Acenaphthylene	45.65	10	50	0	91.3	55.3	118	0	0	0	
Anthracene	40.45	10	50	0	80.9	56.6	120	0	0	0	
Benz(a)anthracene	37.83	10	50	0	75.7	52.1	120	0	0	0	
Benzo(a)pyrene	37.93	10	50	0	75.9	57.4	120	0	0	0	
Benzo(b)fluoranthene	28.45	10	50	0	56.9	50.8	120	0	0	0	
Benzo(g,h,i)perylene	36.52	10	50	0	73	55	120	0	0	0	
Benzo(k)fluoranthene	46.77	10	50	0	93.5	52.7	120	0	0	0	
Chrysene	48.36	10	50	0	96.7	51.1	120	0	0	0	
Dibenz(a,h)anthracene	32.23	10	50	0	64.5	57.4	120	0	0	0	
Fluoranthene	40.94	10	50	0	81.9	60.3	115	0	0	0	
Fluorene	37.15	10	50	0	74.3	50.9	120	0	0	0	
Indeno(1,2,3-cd)pyrene	36.57	10	50	0	73.1	54.8	120	0	0	0	
Naphthalene	34.97	10	50	0	69.9	51.6	120	0	0	0	
Phenanthrene	40.40	10	50	0	80.8	55	120	0	0	0	
Pyrene	41.27	10	50	0	82.5	54.1	120	0	0	0	
Surr: 2-Fluorobiphenyl	42.35	0	50	0	84.7	41	120	0	0	0	
Surr: 4-Terphenyl-d14	48.52	0	50	0	97	55.9	122	0	0	0	
Surr: Nitrobenzene-d5	33.87	0	50	0	67.7	30.3	122	0	0	0	

Sample ID: <b>1202L43-009CMS</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>03/01/2012</b>	Run No: <b>216253</b>							
SampleType: <b>MS</b>	TestCode: <b>POLYAROMATIC HYDROCARBONS SW8270D</b>	BatchID: <b>158414</b>	Analysis Date: <b>03/02/2012</b>	Seq No: <b>4523553</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	46.10	10	50	6.410	79.4	40.3	120	0	0	0	
2-Methylnaphthalene	53.13	10	50	12.70	80.9	40	120	0	0	0	
Acenaphthene	40.12	10	50	0	80.2	41.2	120	0	0	0	

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



**Client:** Cessna Aircraft Co.  
**Project Name:** Groundwater Well Samples  
**Workorder:** 1202M43

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 158414**

Sample ID: <b>1202L43-009CMS</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>03/01/2012</b>	Run No: <b>216253</b>							
SampleType: <b>MS</b>	TestCode: <b>POLYAROMATIC HYDROCARBONS SW8270D</b>	BatchID: <b>158414</b>	Analysis Date: <b>03/02/2012</b>	Seq No: <b>4523553</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Acenaphthylene	46.03	10	50	0	92.1	43.6	117	0	0	0	
Anthracene	45.43	10	50	0	90.9	45.7	120	0	0	0	
Benz(a)anthracene	41.46	10	50	0	82.9	47.3	120	0	0	0	
Benzo(a)pyrene	40.71	10	50	0	81.4	47.9	120	0	0	0	
Benzo(b)fluoranthene	40.96	10	50	0	81.9	46.8	120	0	0	0	
Benzo(g,h,i)perylene	39.16	10	50	0	78.3	47.7	120	0	0	0	
Benzo(k)fluoranthene	43.37	10	50	0	86.7	47.6	120	0	0	0	
Chrysene	40.94	10	50	0	81.9	50.1	120	0	0	0	
Dibenz(a,h)anthracene	43.55	10	50	0	87.1	48.4	120	0	0	0	
Fluoranthene	48.83	10	50	0	97.7	50.7	121	0	0	0	
Fluorene	42.74	10	50	0	85.5	45.3	120	0	0	0	
Indeno(1,2,3-cd)pyrene	41.56	10	50	0	83.1	50.3	120	0	0	0	
Naphthalene	82.14	10	50	41.09	82.1	33.9	120	0	0	0	
Phenanthrene	44.76	10	50	0	89.5	50.5	120	0	0	0	
Pyrene	40.34	10	50	0	80.7	56.6	118	0	0	0	
Surr: 2-Fluorobiphenyl	41.69	0	50	0	83.4	41	120	0	0	0	
Surr: 4-Terphenyl-d14	48.41	0	50	0	96.8	55.9	122	0	0	0	
Surr: Nitrobenzene-d5	39.18	0	50	0	78.4	30.3	122	0	0	0	

Sample ID: <b>1202L43-009CMSD</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>03/01/2012</b>	Run No: <b>216253</b>							
SampleType: <b>MSD</b>	TestCode: <b>POLYAROMATIC HYDROCARBONS SW8270D</b>	BatchID: <b>158414</b>	Analysis Date: <b>03/02/2012</b>	Seq No: <b>4523583</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	43.72	10	50	6.410	74.6	40.3	120	46.10	5.3	36.8	
2-Methylnaphthalene	50.41	10	50	12.70	75.4	40	120	53.13	5.25	34.9	
Acenaphthene	37.86	10	50	0	75.7	41.2	120	40.12	5.8	29.6	
Acenaphthylene	42.36	10	50	0	84.7	43.6	117	46.03	8.3	31	
Anthracene	41.74	10	50	0	83.5	45.7	120	45.43	8.47	23.2	

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

**Client:** Cessna Aircraft Co.  
**Project Name:** Groundwater Well Samples  
**Workorder:** 1202M43

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 158414**

Sample ID: <b>1202L43-009CMSD</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>03/01/2012</b>	Run No: <b>216253</b>							
SampleType: <b>MSD</b>	TestCode: <b>POLYAROMATIC HYDROCARBONS SW8270D</b>	BatchID: <b>158414</b>	Analysis Date: <b>03/02/2012</b>	Seq No: <b>4523583</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benz(a)anthracene	37.68	10	50	0	75.4	47.3	120	41.46	9.55	23.5	
Benzo(a)pyrene	39.54	10	50	0	79.1	47.9	120	40.71	2.92	24.8	
Benzo(b)fluoranthene	36.51	10	50	0	73	46.8	120	40.96	11.5	25.1	
Benzo(g,h,i)perylene	36.55	10	50	0	73.1	47.7	120	39.16	6.89	21.9	
Benzo(k)fluoranthene	41.23	10	50	0	82.5	47.6	120	43.37	5.06	22.5	
Chrysene	38.50	10	50	0	77	50.1	120	40.94	6.14	23.3	
Dibenz(a,h)anthracene	39.92	10	50	0	79.8	48.4	120	43.55	8.7	23.7	
Fluoranthene	46.00	10	50	0	92	50.7	121	48.83	5.97	23.5	
Fluorene	40.40	10	50	0	80.8	45.3	120	42.74	5.63	27.3	
Indeno(1,2,3-cd)pyrene	37.41	10	50	0	74.8	50.3	120	41.56	10.5	23.7	
Naphthalene	75.37	10	50	41.09	68.6	33.9	120	82.14	8.6	39.2	
Phenanthrene	41.29	10	50	0	82.6	50.5	120	44.76	8.07	24.1	
Pyrene	37.68	10	50	0	75.4	56.6	118	40.34	6.82	20.2	
Surr: 2-Fluorobiphenyl	37.15	0	50	0	74.3	41	120	41.69	0	0	
Surr: 4-Terphenyl-d14	44.55	0	50	0	89.1	55.9	122	48.41	0	0	
Surr: Nitrobenzene-d5	36.72	0	50	0	73.4	30.3	122	39.18	0	0	

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Cessna Aircraft Co.  
**Project Name:** Groundwater Well Samples  
**Workorder:** 1202M43

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 158556**

Sample ID: <b>MB-158556</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>03/05/2012</b>	Run No: <b>216494</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Total Petroleum Hydrocarbons(SGT-HEM) E1664</b>	BatchID: <b>158556</b>	Analysis Date: <b>03/05/2012</b>	Seq No: <b>4526619</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Total Petroleum Hydrocarbons      BRL                      5.0                      0                      0                      0                      0                      0                      0                      0                      0

Sample ID: <b>LCS-158556</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>03/05/2012</b>	Run No: <b>216494</b>							
SampleType: <b>LCS</b>	TestCode: <b>Total Petroleum Hydrocarbons(SGT-HEM) E1664</b>	BatchID: <b>158556</b>	Analysis Date: <b>03/05/2012</b>	Seq No: <b>4526620</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Total Petroleum Hydrocarbons      14.50                      5.0                      20                      0                      72.5                      64                      132                      0                      0                      0

Sample ID: <b>LCSD-158556</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>03/05/2012</b>	Run No: <b>216494</b>							
SampleType: <b>LCSD</b>	TestCode: <b>Total Petroleum Hydrocarbons(SGT-HEM) E1664</b>	BatchID: <b>158556</b>	Analysis Date: <b>03/05/2012</b>	Seq No: <b>4526622</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Total Petroleum Hydrocarbons      16.10                      5.0                      20                      0                      80.5                      64                      132                      14.50                      10.5                      34

Sample ID: <b>1202O09-001BMS</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>03/05/2012</b>	Run No: <b>216494</b>							
SampleType: <b>MS</b>	TestCode: <b>Total Petroleum Hydrocarbons(SGT-HEM) E1664</b>	BatchID: <b>158556</b>	Analysis Date: <b>03/05/2012</b>	Seq No: <b>4526624</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Total Petroleum Hydrocarbons      16.70                      5.0                      20                      0                      83.5                      64                      132                      0                      0                      0

**Qualifiers:**      >      Greater than Result value                      <      Less than Result value                      B      Analyte detected in the associated method blank  
                          BRL      Below reporting limit    E      Estimated (value above quantitation range)                      H      Holding times for preparation or analysis exceeded  
                          J      Estimated value detected below Reporting Limit                      N      Analyte not NELAC certified                      R      RPD outside limits due to matrix  
                          Rpt Lim      Reporting Limit    S      Spike Recovery outside limits due to matrix

Appendix C  
Soil Boring Logs



9874 Main Street Suite 100  
Woodstock, GA. 30188

Site: Cessna

Pangean-CMD Project # PC-147014-01

Drilling Method : Direct Push  
Total Depth : 23.60  
Hole Diameter : 2 inch  
Well Diameter : 1 inch  
Well Material : PVC Schedule 40  
Length of Screen : 10 feet  
Length of Riser : 13.60 feet  
Slot Size : 0.010 inches  
Sampling Method : Continuous  
Initial Depth to water: 18.00 feet

**LOG OF WELL SB-1**

Location : 4800 Cargo Drive  
Columbus, GA.  
Date Started : 4/14/14  
Date Completed : 4/14/14  
Drilling Co. : EEI  
Rig Type : Geoprobe  
Driller : Harry Clayton  
Logged By : Mary Grace

DEPTH (feet)	USCS	GRAPHIC	DESCRIPTION	Sample ID	Blow Count	Measured Recovery (%)	PID (ppm)	DEPTH (feet)	WELL CONSTRUCTION
0								0	Stick up
1	ML		Reddish-brown to orange, clayey SAND, fine to medium grained				6.1	1	
2								2	
3	SC		Same As Above,			100	3.3	3	
4								4	Void
5	SC		Brown to gray, clayey SAND, organic odor, black staining	4-6' @ 1300			80.2	5	
6								6	
7	SM		Gray to tan, silty SAND, dry, no odor				2.1	7	
8						100		8	
9	CL		Orange to tan, silty CLAY, stiff, no odor				0.4	9	1" PVC riser
10								10	
11	CL		Same As Above, very stiff				2.3	11	Pure Gold Med. Bentonite Chips
12						100		12	
13	CL		Same As Above, mottled orange, tan, and gray				2	13	
14								14	20/30 Silica Sand
15	CL		Mottled orange, brown, gray silty CLAY, stiff				2.4	15	
16						100		16	
17	CL		Same As Above				2.4	17	Static water at 16.12 ft bgs
18								18	
19	SC		Saturated, gray to tan, clayey SAND, med-grained			100	1.8	19	1" dia. 0.010 Slotted PVC
20								20	
21								21	
22								22	
23								23	
24								24	Solid end cap
25								25	
26								26	
27								27	
28								28	
29								29	
30								30	
31								31	

bgs = below ground surface

Temporary well removed on 4/15/14



9874 Main Street Suite 100  
Woodstock, GA. 30188

Site: Cessna

Pangean-CMD Project # PC-147014-01

Drilling Method : Direct Push  
Total Depth : 23.20  
Hole Diameter : 2 inch  
Well Diameter : 1 inch  
Well Material : PVC Schedule 40  
Length of Screen : 10 feet  
Length of Riser : 13.20 feet  
Slot Size : 0.010 inches  
Sampling Method : Continuous  
Initial Depth to water: 18.00 feet

**LOG OF WELL SB-2**

Location : 4800 Cargo Drive  
Columbus, GA.  
Date Started : 4/14/14  
Date Completed : 4/14/14  
Drilling Co. : EEI  
Rig Type : Geoprobe  
Driller : Harry Clayton  
Logged By : Mary Grace

DEPTH (feet)	USCS	GRAPHIC	DESCRIPTION	Sample ID	Blow Count	Measured Recovery (%)	PID (ppm)	DEPTH (feet)	WELL CONSTRUCTION
0								0	Stick up
1	ML	[diagonal lines]	Slight moist, orange to brown, clayey SAND, fine to medium grained				1.5	1	
2								2	
3	SC	[diagonal lines]	Same As Above,			100	0.7	3	
4								4	Void
5	CL	[diagonal lines]	Orange to brown sandy CLAY, med stiff				2.1	5	
6								6	
7	SC	[diagonal lines]	Brown to tan, clayey SAND, black staining, no odor				4.9	7	
8						100		8	
9	SC	[diagonal lines]	Same As Above, black staining, no odor	8-10' @ 1420			144.9	9	1" PVC riser
10								10	
11	CL	[diagonal lines]	Brown to orange, silty CLAY, med stiff				40.3	11	Pure Gold Med. Bentonite Chips
12						100		12	
13	CL	[diagonal lines]	Same As Above, very stiff	12-14' @ 1430			45.8	13	
14								14	20/30 Silica Sand
15	CL	[diagonal lines]	Same As Above, stiff				51.2	15	
16						100		16	
17	CL	[diagonal lines]	Same As Above				32.6	17	
18								18	
19	SC	[diagonal lines]	Saturated, tan to orange, clayey SAND, med-grained			100	10.1	19	Static water at 19.60 ft bgs
20								20	
21								21	1" dia. 0.010 Slotted PVC
22								22	
23								23	Solid end cap
24								24	
25								25	
26								26	
27								27	
28								28	
29								29	
30								30	
31								31	

bgs = below ground surface

Temporary well removed on 4/15/14



9874 Main Street Suite 100  
Woodstock, GA. 30188

Site: Cessna

Pangean-CMD Project # PC-147014-01

Drilling Method : Direct Push  
Total Depth : 22.70  
Hole Diameter : 2 inch  
Well Diameter : 1 inch  
Well Material : PVC Schedule 40  
Length of Screen : 10 feet  
Length of Riser : 12.70 feet  
Slot Size : 0.010 inches  
Sampling Method : Continuous  
Initial Depth to water: 14.00 feet

**LOG OF WELL SB-3**

Location : 4800 Cargo Drive  
Columbus, GA.  
Date Started : 4/14/14  
Date Completed : 4/14/14  
Drilling Co. : EEI  
Rig Type : Geoprobe  
Driller : Harry Clayton  
Logged By : Mary Grace

DEPTH (feet)	USCS	GRAPHIC	DESCRIPTION	Sample ID	Blow Count	Measured Recovery (%)	PID (ppm)	DEPTH (feet)	WELL CONSTRUCTION
0								0	Stick up
1	SC		Brown to orange, clayey SAND, fine to medium grained, no odor				0.3	1	
2								2	
3	SC		Same As Above, Black staining, organic odor			100	0.7	3	
4								4	Void
5	CL		Orange to brown sandy CLAY, stiff				1.4	5	
6								6	
7	CL		Same As Above	6-8' @ 1600			3	7	
8						100		8	
9	CL		Same As Above				2.6	9	Pure Gold Med. Bentonite Chips
10								10	
11	SM		Brown to tan, silty SAND				2.7	11	
12						100		12	
13	SM		Same As Above, moist				3.1	13	
14								14	
15	SC		Orange to brown, clayey SAND, wet				2.8	15	
16						100		16	1" PVC riser 20/30 Silica Sand
17	SC		Same As Above				3	17	
18								18	
19	SC		Saturated, Same As Above			100	2.5	19	Static water at 18.19 ft bgs
20								20	
21								21	1" dia. 0.010 Slotted PVC
22								22	
23								23	Solid end cap
24								24	
25								25	
26								26	
27								27	
28								28	
29								29	
30								30	
31								31	

bgs = below ground surface

Temporary well removed on 4/15/14



9874 Main Street Suite 100  
Woodstock, GA. 30188

Site: Cessna

Drilling Method : Direct Push  
Total Depth : 24.21  
Hole Diameter : 2 inch  
Well Diameter : 1 inch  
Well Material : PVC Schedule 40  
Length of Screen : 10 feet  
Length of Riser : 14.21 feet  
Slot Size : 0.010 inches  
Sampling Method : Continuous  
Initial Depth to water: 14.00 feet

**LOG OF WELL SB-4**

Location : 4800 Cargo Drive  
Columbus, GA.  
Date Started : 4/14/14  
Date Completed : 4/14/14  
Drilling Co. : EEI  
Rig Type : Geoprobe  
Driller : Harry Clayton  
Logged By : Mary Grace

Pangean-CMD Project # PC-147014-01

DEPTH (feet)	USCS	GRAPHIC	DESCRIPTION	Sample ID	Blow Count	Measured Recovery (%)	PID (ppm)	DEPTH (feet)	WELL CONSTRUCTION
0								0	Stick up
1	SM		Brown to tan, silty SAND, no odor				8.3	1	
2								2	
3	SM		Same As Above			100	31.9	3	Concrete
4								4	
5	SM		Orange to brown silty SAND, black streaking, no odor				36.9	5	Void
6								6	
7	CL		Brown to tan, sandy CLAY, med stiff, black streaking, no odor				81.5	7	
8						100		8	
9	CL		Brown to tan, silty CLAY, very stiff, no odor	8-10' @ 1810			131.5	9	1" PVC riser
10								10	
11	CL		Same As Above, stiff, no odor	10-12' @ 1820			293.7	11	Pure Gold Med. Bentonite Chips
12						100		12	
13	CL		Moist, orange to brown, sandy CLAY				196.6	13	
14								14	20/30 Silica Sand
15	CL		Saturated, red to orange				304.4	15	
16						100		16	
17	CL		Same As Above				106.8	17	
18								18	
19	SC		Tan to orange, clayey SAND, med-grained				239.6	19	Static water at 19.00 ft bgs
20								20	
21								21	
22								22	1" dia. 0.010 Slotted PVC
23								23	
24								24	Solid end cap
25								25	
26								26	
27								27	
28								28	
29								29	
30								30	
31								31	

bgs = below ground surface

Temporary well removed on 4/15/14





9874 Main Street Suite 100  
Woodstock, GA. 30188

Site: Cessna

Pangean-CMD Project # PC-147014-01

Drilling Method : Direct Push  
Total Depth : 16.00  
Hole Diameter : 2 inch  
Well Diameter :  
Well Material :  
Length of Screen :  
Length of Riser :  
Slot Size :  
Sampling Method : Continuous  
Initial Depth to water: 16.00 feet

**LOG OF BORING SB-5**

Location : 4800 Cargo Drive  
Columbus, GA.  
Date Started : 4/15/14  
Date Completed : 4/15/14  
Drilling Co. : EEI  
Rig Type : Geoprobe  
Driller : Harry Clayton  
Logged By : Mary Grace

DEPTH (feet)	USCS	GRAPHIC	DESCRIPTION	Sample ID	Blow Count	Measured Recovery (%)	PID (ppm)	DEPTH (feet)	WELL CONSTRUCTION
0								0	
1	SC		Brown to tan, clayey SAND, fine to med-grained, no odor				16	1	
2								2	
3	SC		Same As Above			100	37	3	
4								4	
5	CL		Orange to brown sandy CLAY, stiff, no odor				12.9	5	
6								6	
7	CL		Same As Above				18.4	7	
8						100		8	
9	CL		Dark brown to orange, sandy CLAY, slight moist				20.2	9	
10								10	
11	CL		Mottled orange, gray, tan, silty CLAY	10-12' @ 1220			80.4	11	
12						100		12	
13	CL		Same As Above, stiff	12-14' @ 1240			143.5	13	
14								14	
15	CL		Saturated, mottled orange, gray and tan, sandy CLAY, stiff			100	77.9	15	
16								16	
17								17	
18								18	
19								19	
20								20	
21								21	
22								22	
23								23	
24								24	
25								25	
26								26	
27								27	
28								28	
29								29	
30								30	
31								31	

bgs = below ground surface Soil Boring terminated at 16 ft. Temp well not installed



9874 Main Street Suite 100  
Woodstock, GA. 30188

Site: Cessna

Pangean-CMD Project # PC-147014-01

Drilling Method : Direct Push  
Total Depth : 24.01  
Hole Diameter : 2 inch  
Well Diameter : 1 inch  
Well Material : PVC Schedule 40  
Length of Screen : 10 feet  
Length of Riser : 14.01 feet  
Slot Size : 0.010 inches  
Sampling Method : Continuous  
Initial Depth to water: 18.00 feet

**LOG OF WELL SB-6**

Location : 4800 Cargo Drive  
Columbus, GA.  
Date Started : 4/15/14  
Date Completed : 4/15/14  
Drilling Co. : EEI  
Rig Type : Geoprobe  
Driller : Harry Clayton  
Logged By : Mary Grace

DEPTH (feet)	USCS	GRAPHIC	DESCRIPTION	Sample ID	Blow Count	Measured Recovery (%)	PID (ppm)	DEPTH (feet)	WELL CONSTRUCTION
0								0	Stick up
1	SC		Orange to brown, clayey SAND, no odor				3.4	1	
2								2	
3	SC		Same As Above			100	4.5	3	Concrete
4								4	
5	CL		Orange to yellow, silty CLAY, stiff, no odor	4-6' @ 1310			33.9	5	Void
6								6	
7	CL		Brown to orange, sandy CLAY, stiff, no odor				14.4	7	
8						100		8	1" PVC riser
9	SC		Tan to brown, clayey SAND, fine to med-grained				5.9	9	
10								10	
11	CL		Tan to brown, sandy CLAY, med stiff, no odor				4.2	11	Pure Gold Med. Bentonite Chips
12						100		12	
13	CL		Red, orange, yellow mottled, silty CLAY, very stiff				1.5	13	
14								14	20/30 Silica Sand
15	CL		Same As Above				1.8	15	
16						100		16	
17	CL		Same As Above				2	17	
18								18	Static water at 18.59 ft bgs
19	SC		Saturated, tan to brown, clayey SAND, med-grained			100	2.1	19	
20								20	
21								21	1" dia. 0.010 Slotted PVC
22								22	
23								23	
24								24	Solid end cap
25								25	
26								26	
27								27	
28								28	
29								29	
30								30	
31								31	

bgs = below ground surface

Temporary well removed on 4/15/14



9874 Main Street Suite 100  
Woodstock, GA. 30188

Site: Cessna

Pangean-CMD Project # PC-147014-01

Drilling Method : Direct Push  
Total Depth : 23.84  
Hole Diameter : 2 inch  
Well Diameter : 1 inch  
Well Material : PVC Schedule 40  
Length of Screen : 10 feet  
Length of Riser : 13.84 feet  
Slot Size : 0.010 inches  
Sampling Method : Continuous  
Initial Depth to water: 18.00 feet

**LOG OF WELL SB-7**

Location : 4800 Cargo Drive  
Columbus, GA.  
Date Started : 4/15/14  
Date Completed : 4/15/14  
Drilling Co. : EEI  
Rig Type : Geoprobe  
Driller : Harry Clayton  
Logged By : Mary Grace

DEPTH (feet)	USCS	GRAPHIC	DESCRIPTION	Sample ID	Blow Count	Measured Recovery (%)	PID (ppm)	DEPTH (feet)	WELL CONSTRUCTION
0								0	Stick up
1	CL		Red to brown, sandy CLAY, stiff, no odor				2	1	
2								2	
3	CL		Same As Above			100	1.6	3	Concrete
4								4	
5	CL		Mottled red, gray, tan, silty CLAY, stiff, no odor				2.2	5	Void
6								6	
7	CL		Same As Above				9.6	7	
8					100			8	
9	CL		Orange to brown, sandy CLAY, black staining, organic odor	8-10' @ 1450			17.9	9	1" PVC riser
10								10	
11	SC		Brown to gray, clayey SAND, organic odor				7.5	11	Pure Gold Med. Bentonite Chips
12					100			12	
13	CL		Red, gray, yellow mottled, silty CLAY, stiff				2.9	13	
14								14	20/30 Silica Sand
15	CL		Same As Above				2.6	15	
16					100			16	
17	CL		Saturated, orange and gray, sandy CLAY, stiff				3	17	
18								18	Static water at 18.90 ft bgs
19	CL		Same As Above			100	6.2	19	
20								20	
21								21	1" dia. 0.010 Slotted PVC
22								22	
23								23	Solid end cap
24								24	
25								25	
26								26	
27								27	
28								28	
29								29	
30								30	
31								31	

bgs = below ground surface

Temporary well removed on 4/15/14

Well ID	MW-1	MW-2	MW-3A/B	MW-3C	
Elevation	311.09	311.89	312.32	312.32	
Date	7/7/2014	7/7/2014	7/7/2014	1/19/2016	
Total Depth	30'	30'	35'	87.5	
Depth (feet)	Description	Description	Description	Description	
1.0	Sand & Gravel FILL				
2.0	Sandy CLAY	Clayey, Silty SAND Red-Yel	Silty SAND Yel-Brn	Fine Grn Silty SAND, Tan-Brn Micaceous	
3.0					
4.0					
5.0	Med-Crs Grn SAND, Red-Yel				
6.0		Sandy CLAY			
7.0					
8.0		ORGANIC DEBRIS			
9.0		Fn - Med Grn SAND Brn-Gry w/Gravel	SAND Drk Brn w/Organic		
10.0	Med-Crs Grn SAND, Wht-Red	Fn-Med Grn SAND, Yel Brn Interbedded w/mottled CLAY	Silty, Clayey SAND Dense	Fine Grn Silty SAND, Tan	
11.0					
12.0					
13.0					
14.0					
15.0					
16.0					
17.0					
18.0		Med-Crs Grn SAND Lgt Brn-Tan			
19.0		CLAY			
20.0			Silty SAND	Fine Grn Sandy, Silty CLAY Tan-Gry-Brn	
21.0	Crs-Grn SAND	Med-Crs Grn SAND, Wht-Tan			
22.0			Sandy CLAY		
23.0					
24.0			Fn-Med Grn SAND Lt Brn		
25.0					
26.0	SAND & GRAVEL	Clayey SAND	SAND & GRAVEL	Silty CLAY Tan-Gry Stiff, Plastic	
27.0					
28.0					
29.0	SAPROLITE	SAND & GRAVEL			
30.0	Bio-Gns, dark gray		CLAY Lt Gry		
31.0				Crs Grn SAND Tan-Brn	
32.0					
33.0				SAND & GRAVEL	
34.0					
35.0				SAPROLITE	
36.0				Bio-Gns, dark gray	
37.0				BEDROCK	
38.0				REFUSAL	
39.0					
40.0					
41.0					
42.0				SAPROLITE Red/Tan/Wht-Gry	
43.0					
44.0					
45.0					
46.0					
47.0					
48.0					
49.0					
50.0					
51.0				BEDROCK Biotite Gneiss to 88'	
52.0					

Well ID	MW-5	MW-6	MW-7	SB-8	
Elevation	299.59	298.34	297.88		
Date	11/17/2015	11/17/2015	11/17/2015	7/8/2014	
Total Depth	30'	21.5'	42'	25'	
Depth (feet)	Description	Description	Description	Description	
1.0					
2.0					
3.0					
4.0					
5.0				Med-Crs Grn SAND, Red Brn	
6.0					
7.0	Crs Grn Silty, Sandy CLAY Tan-Gray	Silty, Sandy CLAY Tan	Sandy, Silty CLAY Brn-Gry		
8.0					
9.0					
10.0				Med-Crs Grn SAND, Red Brn	
11.0					
12.0					
13.0		Clayey, Silty SAND Tan-Brn	Crs Grn Silty SAND Tan-Gry		
14.0					
15.0	Clayey, Silty SAND Tan	Crs Grn Sandy, Silty CLAY Tan-Brn	Crs Grn Silty SAND Tan	Clayey, Silty SAND, Red-Brn	
16.0					
17.0					
18.0					
19.0					
20.0					
21.0					
22.0			Silty CLAY Tan-Gry		
23.0		SAPROLITE Wht, Gry, Blk Mottled			
24.0					
25.0		BEDROCK REFUSAL			
26.0					
27.0					
28.0	SAPROLITE Wht, Gry, Red Mottled		SAPROLITE Wht, Gry, Blk Mottled		
29.0					
30.0					
31.0					
32.0					
33.0					
34.0					
35.0					
36.0					
37.0	BEDROCK REFUSAL				
38.0					
39.0					
40.0					
41.0					
42.0					
43.0					
44.0					
45.0					
46.0					
47.0					
48.0					
49.0					
50.0					
51.0					
52.0					

Well ID	SB-9	SB-10	SB-11	SB-12
Elevation				
Date	7/7/2014	7/8/2014	7/8/2014	7/8/2014
Total Depth	23'	25'	25'	25'
Depth (feet)	Description	Description	Description	Description
1.0				
2.0				
3.0				
4.0				
5.0	Silty SAND	Fn Grn Silty SAND	Silty SAND	Sandy SILT
6.0	Yel/Brn, Dense	Lt Brn	Brn/Gry	Gry/Brn
7.0				
8.0				
9.0				
10.0				
11.0				
12.0	Silty SAND, Red/Yel,	Clayey SILT	Clayey SAND, Red	Clayey, Silty SAND
13.0	Loose	Red, mottled	mottled	Red mottled
14.0				
15.0				
16.0				
17.0				
18.0	Silty SAND, Red/Yel	Clayey SAND	Sandy, Silty CLAY,	Clayey SAND
19.0		Pnk/Red/Yel Mottled	Red	Red/Lt Gry Mottled
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				
26.0				
27.0				
28.0				
29.0				
30.0				
31.0				
32.0				
33.0				
34.0				
35.0				
36.0				
37.0				
38.0				
39.0				
40.0				
41.0				
42.0				
43.0				
44.0				
45.0				
46.0				
47.0				
48.0				
49.0				
50.0				
51.0				
52.0				

Well ID	SB-13	SB-14	SB-15	SB-16
Elevation				
Date	7/8/2014	7/8/2014	7/8/2014	7/8/2014
Total Depth	25'	25'	25'	25'
Depth (feet)	Description	Description	Description	Description
1.0				
2.0				
3.0				
4.0				
5.0	Med Grn Silty SAND		Clayey, Silty SAND,	Fn Grn Clayey SAND
6.0	Brn/Gry, Dense		Brn/Yel/Red Mottled	Red/Brn
7.0				
8.0				
9.0				
10.0				
11.0				
12.0	Crs Grn SAND	Clayey, Sandy SILT	Sandy, Silty CLAY,	Clayey SAND,
13.0	Red/Yel	Dark Red/Brn	Brn/Red-Brn	Gry/Brn
14.0				
15.0				
16.0				
17.0				
18.0	Clayey SAND	Fn to Med Clayey	Fn Grn Clayey SAND	
19.0	Red/Lt Gry Mottled	Silty SAND	Wht/Red Mottled	
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				
26.0				
27.0				
28.0				
29.0				
30.0				
31.0				
32.0				
33.0				
34.0				
35.0				
36.0				
37.0				
38.0				
39.0				
40.0				
41.0				
42.0				
43.0				
44.0				
45.0				
46.0				
47.0				
48.0				
49.0				
50.0				
51.0				
52.0				

Well ID	SB-17	SB-18	SB-19	SB-20
Elevation				
Date	7/8/2014	7/8/2014	7/9/2014	7/9/2014
Total Depth	25'	25'	25'	25'
Depth (feet)	Description	Description	Description	Description
1.0				
2.0				
3.0				
4.0				
5.0	Clayey, Sandy SILT, Brn-Red/Brn	Sandy CLAY and SILT, Yel/Brn Mottled	Silty, Clayey SAND Red/Lt Brn Mottled	Silty, Clayey SAND, Dk Red/Brn
6.0				
7.0				
8.0				
9.0				
10.0				
11.0				
12.0	Silty SAND, Gry	Clayey SAND Brn/Reddish Gry	Med/Fn Grn SAND Gry/Brn	Silty SAND, Lt Brn/Yel
13.0				
14.0				
15.0				
16.0				
17.0				
18.0	Silty, SAND, Red/Lt Brn/Gry Mottled	Silty, Clayey SAND Red/Lt Brn Mottled	Silty CLAY Yel/Lt Brn	Clayey SAND Wht-Red/Yel Mottled
19.0				
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				
26.0				
27.0				
28.0				
29.0				
30.0				
31.0				
32.0				
33.0				
34.0				
35.0				
36.0				
37.0				
38.0				
39.0				
40.0				
41.0				
42.0				
43.0				
44.0				
45.0				
46.0				
47.0				
48.0				
49.0				
50.0				
51.0				
52.0				



Well ID	SB-21	SB-22	SB-23	SB-24
Elevation				
Date	7/9/2014	7/9/2014	7/9/2014	7/9/2014
Total Depth	25'	25'	25'	25'
Depth (feet)	Description	Description	Description	Description
1.0				
2.0				
3.0				
4.0				
5.0	Med-Fn Grn SAND	Fn Grn Clayey SAND	Silty SAND, Yel/Brn	Silty SAND
6.0	Yel/Brn	Yel/Red.Brn		Yel/Brn
7.0				
8.0				
9.0				
10.0				
11.0				
12.0	Fn Grn SAND	Fn-Med Grn SAND	Med Grn SAND	Med-Fn Grn SAND
13.0	Dense	Lt Brn	Gry/Brn	Dk Brn/Gry
14.0				
15.0				
16.0				
17.0				
18.0	Clayey SAND & SILT,	Clayey SAND to Silty	Clayey SAND	Clayey SAND
19.0	Plastic, soft	CLAY, Lt Tan/Yel	Yel/Red Brn	Stiff
20.0				
21.0				
22.0				
23.0				
24.0				
25.0				
26.0				
27.0				
28.0				
29.0				
30.0				
31.0				
32.0				
33.0				
34.0				
35.0				
36.0				
37.0				
38.0				
39.0				
40.0				
41.0				
42.0				
43.0				
44.0				
45.0				
46.0				
47.0				
48.0				
49.0				
50.0				
51.0				
52.0				

Well ID	SB-28	SB-29	SB-30	SB-31
Elevation				
Date	12/9/2014	12/9/2014	12/9/2014	12/8/2014
Total Depth	20'	15'	15'	20'
Depth (feet)	Description	Description	Description	Description
1.0	Clayey SAND Tan-Lt Brn	Clayey SAND, Tan-Lt Brn	Clayey SAND, Tan-Lt Brn	Clayey SAND Tan-Lt Brn
2.0				
3.0				
4.0				
5.0				
6.0	Sandy CLAY Tan-Lt Brn	Sandy CLAY Lt Brn-Gry	Sandy CLAY Lt Brn-Gry	Clayey SAND Tan-Lt Brn
7.0				
8.0				
9.0				
10.0				
11.0	Sandy CLAY Tan-Gry	Sandy CLAY Gry	Sandy CLAY Gry	Sandy CLAY Lt Brn-Gry
12.0				
13.0				
14.0				
15.0				
16.0	Clayey SAND, Tan-Lt Brn	Clayey SAND, Tan	Clayey SAND, Tan	Sandy CLAY Gry
17.0				
18.0				
19.0				
20.0				
21.0				Clayey SAND, Tan
22.0				
23.0				
24.0				
25.0				
26.0				
27.0				
28.0				
29.0				
30.0				
31.0				
32.0				
33.0				
34.0				
35.0				
36.0				
37.0				
38.0				
39.0				
40.0				
41.0				
42.0				
43.0				
44.0				
45.0				
46.0				
47.0				
48.0				
49.0				
50.0				
51.0				
52.0				



**Appendix C: Soil Boring Logs**

Cessna GA1 Facility  
Columbus, Muscogee County, Georgia

Well ID	SB-32	SB-34	SB-36	
Elevation				
Date	12/8/2014	12/8/2014	12/8/2014	
Total Depth	10'	10'	10'	
Depth (feet)	Description	Description	Description	
1.0	Clayey SAND Tan-Gry	Clayey SAND Tan	Clayey SAND Tan	
2.0			Sandy CLAY Tan-Gry	Sandy CLAY Tan-Lt Brn
3.0				
4.0				
5.0				
6.0	Clayey SAND Tan	Sandy CLAY Brn-Lt. Brn	Sandy CLAY Gry	
7.0				
8.0				
9.0				
10.0	Clayey Sand, Tan			
11.0				
12.0				
13.0				
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24.0				
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43.0				
44.0				
45.0				
46.0				
47.0				
48.0				
49.0				
50.0				
51.0				
52.0				

Appendix D  
Site Investigation  
Laboratory Reports

## Technical Report for

### Pangean-CMD Associates, Inc

Cessna Facility; 4800 Cargo Dr, Columbus, GA

Accutest Job Number: FA14206

Sampling Date: 04/15/14


#### Report to:

Pangean-CMD Associates, Inc  
9874 Main St Suite 100  
Woodstock, GA 30188  
rstevens@pangean-cmd.com; dbass@pangean-cmd.com;  
mreid@pangean-cmd.com  
ATTN: Richard Stevens

Total number of pages in report: **58**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Harry Behzadi, Ph.D.  
Laboratory Director

**Client Service contact: Muna Mohammed 407-425-6700**

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001)  
DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), PA (68-03573), VA (460177),  
AK, AR, GA, KY, MA, NV, OK, UT, WA

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Test results relate only to samples analyzed.

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1

2

3

4

5

6

7



## Sample Summary

Pangean-CMD Associates, Inc

**Job No:** FA14206

Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
FA14206-1	04/15/14	18:00 MG	04/16/14	AQ	Ground Water	SB-1 GW
FA14206-2	04/15/14	16:20 MG	04/16/14	AQ	Ground Water	SB-2 GW
FA14206-3	04/15/14	17:00 MG	04/16/14	AQ	Ground Water	SB-3 GW
FA14206-4	04/15/14	11:15 MG	04/16/14	AQ	Ground Water	SB-4 GW
FA14206-5	04/15/14	14:00 MG	04/16/14	AQ	Ground Water	SB-6 GW
FA14206-6	04/15/14	15:35 MG	04/16/14	AQ	Ground Water	SB-7 GW
FA14206-7	04/15/14	18:30 MG	04/16/14	AQ	Ground Water	STICK UP WELL

## Summary of Hits

**Job Number:** FA14206  
**Account:** Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA  
**Collected:** 04/15/14

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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**FA14206-1 SB-1 GW**

Chlorobenzene	0.48 J	1.0	0.24	ug/l	SW846 8260B
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**FA14206-2 SB-2 GW**

Chlorobenzene	6.8 J	25	6.0	ug/l	SW846 8260B
cis-1,2-Dichloroethylene	47.8	25	8.2	ug/l	SW846 8260B
Trichloroethylene	2200	25	7.6	ug/l	SW846 8260B

**FA14206-3 SB-3 GW**

No hits reported in this sample.

**FA14206-4 SB-4 GW**

1,1-Dichloroethane	182 J	250	64	ug/l	SW846 8260B
1,1-Dichloroethylene	240 J	250	63	ug/l	SW846 8260B
Trichloroethylene	16600	250	76	ug/l	SW846 8260B

**FA14206-5 SB-6 GW**

Chloroform	1.7	1.0	0.31	ug/l	SW846 8260B
1,1-Dichloroethane	0.99 J	1.0	0.26	ug/l	SW846 8260B
1,1-Dichloroethylene	1.9	1.0	0.25	ug/l	SW846 8260B
Trichloroethylene	2.1	1.0	0.30	ug/l	SW846 8260B

**FA14206-6 SB-7 GW**

No hits reported in this sample.

**FA14206-7 STICK UP WELL**

No hits reported in this sample.



Sample Results

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Report of Analysis

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## Report of Analysis

<b>Client Sample ID:</b> SB-1 GW		<b>Date Sampled:</b> 04/15/14
<b>Lab Sample ID:</b> FA14206-1		<b>Date Received:</b> 04/16/14
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B		
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I20113.D	1	04/18/14	WV	n/a	n/a	VI372
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone <sup>a</sup>	ND	25	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	0.48	1.0	0.24	ug/l	J
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> SB-1 GW		<b>Date Sampled:</b> 04/15/14
<b>Lab Sample ID:</b> FA14206-1		<b>Date Received:</b> 04/16/14
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B		
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA		

**VOA 8260 List**

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-1 GW		<b>Date Sampled:</b> 04/15/14
<b>Lab Sample ID:</b> FA14206-1		<b>Date Received:</b> 04/16/14
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B		
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA		

**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		83-118%
17060-07-0	1,2-Dichloroethane-D4	105%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

(a) Associated BS recovery outside control limits.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> SB-1 GW		
<b>Lab Sample ID:</b> FA14206-1		<b>Date Sampled:</b> 04/15/14
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 04/16/14
<b>Method:</b> SW846 8270D BY SIM SW846 3510C		<b>Percent Solids:</b> n/a
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W079493.D	1	04/18/14	MG	04/17/14	OP51274	SW3721
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

### BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.96	0.38	ug/l	
208-96-8	Acenaphthylene	ND	0.96	0.38	ug/l	
120-12-7	Anthracene	ND	0.96	0.24	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.038	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.038	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.038	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.038	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.038	ug/l	
218-01-9	Chrysene <sup>a</sup>	ND	0.19	0.038	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.038	ug/l	
206-44-0	Fluoranthene	ND	0.96	0.24	ug/l	
86-73-7	Fluorene	ND	0.96	0.38	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.038	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.96	0.38	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.96	0.38	ug/l	
91-20-3	Naphthalene	ND	0.96	0.38	ug/l	
85-01-8	Phenanthrene	ND	0.96	0.24	ug/l	
129-00-0	Pyrene <sup>a</sup>	ND	0.96	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	70%		42-108%
321-60-8	2-Fluorobiphenyl	82%		40-106%
1718-51-0	Terphenyl-d14	108%		39-121%

(a) Associated BS recovery outside control limits.

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-1 GW	<b>Date Sampled:</b> 04/15/14
<b>Lab Sample ID:</b> FA14206-1	<b>Date Received:</b> 04/16/14
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.10	0.10	mg/l	10	04/16/14 10:15	LE	SW846 7196A

RL = Reporting Limit

# Report of Analysis

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3

<b>Client Sample ID:</b> SB-2 GW		
<b>Lab Sample ID:</b> FA14206-2		<b>Date Sampled:</b> 04/15/14
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 04/16/14
<b>Method:</b> SW846 8260B		<b>Percent Solids:</b> n/a
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I20114.D	25	04/18/14	WV	n/a	n/a	VI372
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone <sup>a</sup>	ND	630	260	ug/l	
107-02-8	Acrolein	ND	500	160	ug/l	
107-13-1	Acrylonitrile	ND	250	50	ug/l	
71-43-2	Benzene	ND	25	6.1	ug/l	
108-86-1	Bromobenzene	ND	25	7.9	ug/l	
74-97-5	Bromochloromethane	ND	25	9.4	ug/l	
75-27-4	Bromodichloromethane	ND	25	6.5	ug/l	
75-25-2	Bromoform	ND	25	9.6	ug/l	
104-51-8	n-Butylbenzene	ND	25	7.6	ug/l	
135-98-8	sec-Butylbenzene	ND	25	6.8	ug/l	
98-06-6	tert-Butylbenzene	ND	25	7.2	ug/l	
108-90-7	Chlorobenzene	6.8	25	6.0	ug/l	J
75-00-3	Chloroethane	ND	50	13	ug/l	
67-66-3	Chloroform	ND	25	7.8	ug/l	
95-49-8	o-Chlorotoluene	ND	25	5.7	ug/l	
106-43-4	p-Chlorotoluene	ND	25	7.3	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	130	25	ug/l	
75-15-0	Carbon disulfide	ND	50	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	25	9.9	ug/l	
75-34-3	1,1-Dichloroethane	ND	25	6.4	ug/l	
75-35-4	1,1-Dichloroethylene	ND	25	6.3	ug/l	
563-58-6	1,1-Dichloropropene	ND	25	7.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	20	ug/l	
106-93-4	1,2-Dibromoethane	ND	25	6.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	25	6.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	25	8.9	ug/l	
142-28-9	1,3-Dichloropropane	ND	25	8.5	ug/l	
594-20-7	2,2-Dichloropropane	ND	25	8.3	ug/l	
124-48-1	Dibromochloromethane	ND	25	9.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	50	8.3	ug/l	
156-59-2	cis-1,2-Dichloroethylene	47.8	25	8.2	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	25	5.2	ug/l	

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-2 GW	
<b>Lab Sample ID:</b> FA14206-2	<b>Date Sampled:</b> 04/15/14
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 04/16/14
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> n/a
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	25	5.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	25	7.3	ug/l	
106-46-7	p-Dichlorobenzene	ND	25	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	25	8.6	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	25	5.3	ug/l	
100-41-4	Ethylbenzene	ND	25	7.0	ug/l	
591-78-6	2-Hexanone	ND	250	50	ug/l	
87-68-3	Hexachlorobutadiene	ND	50	13	ug/l	
98-82-8	Isopropylbenzene	ND	25	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	25	6.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	130	25	ug/l	
74-83-9	Methyl bromide	ND	50	13	ug/l	
74-87-3	Methyl chloride	ND	50	13	ug/l	
74-95-3	Methylene bromide	ND	50	7.3	ug/l	
75-09-2	Methylene chloride	ND	130	50	ug/l	
78-93-3	Methyl ethyl ketone	ND	130	37	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	25	5.0	ug/l	
91-20-3	Naphthalene	ND	130	25	ug/l	
103-65-1	n-Propylbenzene	ND	25	6.0	ug/l	
100-42-5	Styrene	ND	25	5.8	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	25	6.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	25	8.4	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	25	6.9	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	25	7.9	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	25	13	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	50	14	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	25	13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	50	6.1	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	50	5.0	ug/l	
127-18-4	Tetrachloroethylene	ND	25	6.4	ug/l	
108-88-3	Toluene	ND	25	5.0	ug/l	
79-01-6	Trichloroethylene	2200	25	7.6	ug/l	
75-69-4	Trichlorofluoromethane	ND	50	13	ug/l	
75-01-4	Vinyl chloride	ND	25	8.1	ug/l	
108-05-4	Vinyl Acetate	ND	250	50	ug/l	
	m,p-Xylene	ND	50	12	ug/l	
95-47-6	o-Xylene	ND	25	5.0	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b> SB-2 GW		<b>Date Sampled:</b> 04/15/14
<b>Lab Sample ID:</b> FA14206-2		<b>Date Received:</b> 04/16/14
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B		
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA		

**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	108%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

(a) Associated BS recovery outside control limits.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-2 GW		
<b>Lab Sample ID:</b> FA14206-2		<b>Date Sampled:</b> 04/15/14
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 04/16/14
<b>Method:</b> SW846 8270D BY SIM SW846 3510C		<b>Percent Solids:</b> n/a
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W079494.D	1	04/18/14	MG	04/17/14	OP51274	SW3721
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

## BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.95	0.38	ug/l	
208-96-8	Acenaphthylene	ND	0.95	0.38	ug/l	
120-12-7	Anthracene	ND	0.95	0.24	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.038	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.038	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.038	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.038	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.038	ug/l	
218-01-9	Chrysene <sup>a</sup>	ND	0.19	0.038	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.038	ug/l	
206-44-0	Fluoranthene	ND	0.95	0.24	ug/l	
86-73-7	Fluorene	ND	0.95	0.38	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.038	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.95	0.38	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.95	0.38	ug/l	
91-20-3	Naphthalene	ND	0.95	0.38	ug/l	
85-01-8	Phenanthrene	ND	0.95	0.24	ug/l	
129-00-0	Pyrene <sup>a</sup>	ND	0.95	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	85%		42-108%
321-60-8	2-Fluorobiphenyl	98%		40-106%
1718-51-0	Terphenyl-d14	119%		39-121%

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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3

<b>Client Sample ID:</b> SB-2 GW	<b>Date Sampled:</b> 04/15/14
<b>Lab Sample ID:</b> FA14206-2	<b>Date Received:</b> 04/16/14
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.10	0.10	mg/l	10	04/16/14 10:15	LE	SW846 7196A

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-3 GW		<b>Date Sampled:</b> 04/15/14
<b>Lab Sample ID:</b> FA14206-3		<b>Date Received:</b> 04/16/14
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B		
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I20115.D	1	04/18/14	WV	n/a	n/a	VI372
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone <sup>a</sup>	ND	25	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-3 GW	
<b>Lab Sample ID:</b> FA14206-3	<b>Date Sampled:</b> 04/15/14
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 04/16/14
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> n/a
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-3 GW <b>Lab Sample ID:</b> FA14206-3 <b>Matrix:</b> AQ - Ground Water <b>Method:</b> SW846 8260B <b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	<b>Date Sampled:</b> 04/15/14 <b>Date Received:</b> 04/16/14 <b>Percent Solids:</b> n/a
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**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		83-118%
17060-07-0	1,2-Dichloroethane-D4	110%		79-125%
2037-26-5	Toluene-D8	94%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(a) Associated BS recovery outside control limits.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-3 GW		
<b>Lab Sample ID:</b> FA14206-3		<b>Date Sampled:</b> 04/15/14
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 04/16/14
<b>Method:</b> SW846 8270D BY SIM SW846 3510C		<b>Percent Solids:</b> n/a
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W079495.D	1	04/18/14	MG	04/17/14	OP51274	SW3721
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

## BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.94	0.38	ug/l	
208-96-8	Acenaphthylene	ND	0.94	0.38	ug/l	
120-12-7	Anthracene	ND	0.94	0.24	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.038	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.038	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.038	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.038	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.038	ug/l	
218-01-9	Chrysene <sup>a</sup>	ND	0.19	0.038	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.038	ug/l	
206-44-0	Fluoranthene	ND	0.94	0.24	ug/l	
86-73-7	Fluorene	ND	0.94	0.38	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.038	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.94	0.38	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.94	0.38	ug/l	
91-20-3	Naphthalene	ND	0.94	0.38	ug/l	
85-01-8	Phenanthrene	ND	0.94	0.24	ug/l	
129-00-0	Pyrene <sup>a</sup>	ND	0.94	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	72%		42-108%
321-60-8	2-Fluorobiphenyl	78%		40-106%
1718-51-0	Terphenyl-d14	102%		39-121%

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-3 GW	<b>Date Sampled:</b> 04/15/14
<b>Lab Sample ID:</b> FA14206-3	<b>Date Received:</b> 04/16/14
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.10	0.10	mg/l	10	04/16/14 10:15	LE	SW846 7196A

RL = Reporting Limit



## Report of Analysis

<b>Client Sample ID:</b> SB-4 GW		<b>Date Sampled:</b> 04/15/14
<b>Lab Sample ID:</b> FA14206-4		<b>Date Received:</b> 04/16/14
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B		
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I20116.D	250	04/18/14	WV	n/a	n/a	VI372
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone <sup>a</sup>	ND	6300	2600	ug/l	
107-02-8	Acrolein	ND	5000	1600	ug/l	
107-13-1	Acrylonitrile	ND	2500	500	ug/l	
71-43-2	Benzene	ND	250	61	ug/l	
108-86-1	Bromobenzene	ND	250	79	ug/l	
74-97-5	Bromochloromethane	ND	250	94	ug/l	
75-27-4	Bromodichloromethane	ND	250	65	ug/l	
75-25-2	Bromoform	ND	250	96	ug/l	
104-51-8	n-Butylbenzene	ND	250	76	ug/l	
135-98-8	sec-Butylbenzene	ND	250	68	ug/l	
98-06-6	tert-Butylbenzene	ND	250	72	ug/l	
108-90-7	Chlorobenzene	ND	250	60	ug/l	
75-00-3	Chloroethane	ND	500	130	ug/l	
67-66-3	Chloroform	ND	250	78	ug/l	
95-49-8	o-Chlorotoluene	ND	250	57	ug/l	
106-43-4	p-Chlorotoluene	ND	250	73	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	1300	250	ug/l	
75-15-0	Carbon disulfide	ND	500	50	ug/l	
56-23-5	Carbon tetrachloride	ND	250	99	ug/l	
75-34-3	1,1-Dichloroethane	182	250	64	ug/l	J
75-35-4	1,1-Dichloroethylene	240	250	63	ug/l	J
563-58-6	1,1-Dichloropropene	ND	250	70	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	500	200	ug/l	
106-93-4	1,2-Dibromoethane	ND	250	60	ug/l	
107-06-2	1,2-Dichloroethane	ND	250	60	ug/l	
78-87-5	1,2-Dichloropropane	ND	250	89	ug/l	
142-28-9	1,3-Dichloropropane	ND	250	85	ug/l	
594-20-7	2,2-Dichloropropane	ND	250	83	ug/l	
124-48-1	Dibromochloromethane	ND	250	90	ug/l	
75-71-8	Dichlorodifluoromethane	ND	500	83	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	250	82	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	250	52	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-4 GW	
<b>Lab Sample ID:</b> FA14206-4	<b>Date Sampled:</b> 04/15/14
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 04/16/14
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> n/a
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	250	50	ug/l	
95-50-1	o-Dichlorobenzene	ND	250	73	ug/l	
106-46-7	p-Dichlorobenzene	ND	250	50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	250	86	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	250	53	ug/l	
100-41-4	Ethylbenzene	ND	250	70	ug/l	
591-78-6	2-Hexanone	ND	2500	500	ug/l	
87-68-3	Hexachlorobutadiene	ND	500	130	ug/l	
98-82-8	Isopropylbenzene	ND	250	50	ug/l	
99-87-6	p-Isopropyltoluene	ND	250	60	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	1300	250	ug/l	
74-83-9	Methyl bromide	ND	500	130	ug/l	
74-87-3	Methyl chloride	ND	500	130	ug/l	
74-95-3	Methylene bromide	ND	500	73	ug/l	
75-09-2	Methylene chloride	ND	1300	500	ug/l	
78-93-3	Methyl ethyl ketone	ND	1300	370	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	250	50	ug/l	
91-20-3	Naphthalene	ND	1300	250	ug/l	
103-65-1	n-Propylbenzene	ND	250	60	ug/l	
100-42-5	Styrene	ND	250	58	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	250	63	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	250	84	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	250	69	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	250	79	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	250	130	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	500	140	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	250	130	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	500	61	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	500	50	ug/l	
127-18-4	Tetrachloroethylene	ND	250	64	ug/l	
108-88-3	Toluene	ND	250	50	ug/l	
79-01-6	Trichloroethylene	16600	250	76	ug/l	
75-69-4	Trichlorofluoromethane	ND	500	130	ug/l	
75-01-4	Vinyl chloride	ND	250	81	ug/l	
108-05-4	Vinyl Acetate	ND	2500	500	ug/l	
	m,p-Xylene	ND	500	120	ug/l	
95-47-6	o-Xylene	ND	250	50	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-4 GW		<b>Date Sampled:</b> 04/15/14
<b>Lab Sample ID:</b> FA14206-4		<b>Date Received:</b> 04/16/14
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B		
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA		

**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		83-118%
17060-07-0	1,2-Dichloroethane-D4	110%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

(a) Associated BS recovery outside control limits.

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-4 GW	<b>Date Sampled:</b> 04/15/14
<b>Lab Sample ID:</b> FA14206-4	<b>Date Received:</b> 04/16/14
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.020	0.020	mg/l	2	04/16/14 10:15	LE	SW846 7196A

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-6 GW		<b>Date Sampled:</b> 04/15/14
<b>Lab Sample ID:</b> FA14206-5		<b>Date Received:</b> 04/16/14
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B		
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I20117.D	1	04/18/14	WV	n/a	n/a	VI372
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone <sup>a</sup>	ND	25	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	1.7	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	0.99	1.0	0.26	ug/l	J
75-35-4	1,1-Dichloroethylene	1.9	1.0	0.25	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-6 GW	
<b>Lab Sample ID:</b> FA14206-5	<b>Date Sampled:</b> 04/15/14
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 04/16/14
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> n/a
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	2.1	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-6 GW		<b>Date Sampled:</b> 04/15/14
<b>Lab Sample ID:</b> FA14206-5		<b>Date Received:</b> 04/16/14
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B		
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA		

**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		83-118%
17060-07-0	1,2-Dichloroethane-D4	111%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

(a) Associated BS recovery outside control limits.

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-6 GW	<b>Date Sampled:</b> 04/15/14
<b>Lab Sample ID:</b> FA14206-5	<b>Date Received:</b> 04/16/14
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	04/16/14 10:15	LE	SW846 7196A

RL = Reporting Limit



## Report of Analysis

<b>Client Sample ID:</b> SB-7 GW		<b>Date Sampled:</b> 04/15/14
<b>Lab Sample ID:</b> FA14206-6		<b>Date Received:</b> 04/16/14
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260B		
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I20118.D	1	04/18/14	WV	n/a	n/a	VI372
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone <sup>a</sup>	ND	25	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-7 GW	
<b>Lab Sample ID:</b> FA14206-6	<b>Date Sampled:</b> 04/15/14
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 04/16/14
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> n/a
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-7 GW <b>Lab Sample ID:</b> FA14206-6 <b>Matrix:</b> AQ - Ground Water <b>Method:</b> SW846 8260B <b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	<b>Date Sampled:</b> 04/15/14 <b>Date Received:</b> 04/16/14 <b>Percent Solids:</b> n/a
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**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		83-118%
17060-07-0	1,2-Dichloroethane-D4	112%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

(a) Associated BS recovery outside control limits.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-7 GW	<b>Date Sampled:</b> 04/15/14
<b>Lab Sample ID:</b> FA14206-6	<b>Date Received:</b> 04/16/14
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.050	0.050	mg/l	5	04/16/14 10:15	LE	SW846 7196A

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> STICK UP WELL		
<b>Lab Sample ID:</b> FA14206-7		<b>Date Sampled:</b> 04/15/14
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 04/16/14
<b>Method:</b> SW846 8260B		<b>Percent Solids:</b> n/a
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I20119.D	1	04/18/14	WV	n/a	n/a	VI372
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone <sup>a</sup>	ND	25	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> STICK UP WELL	
<b>Lab Sample ID:</b> FA14206-7	<b>Date Sampled:</b> 04/15/14
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 04/16/14
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> n/a
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> STICK UP WELL <b>Lab Sample ID:</b> FA14206-7 <b>Matrix:</b> AQ - Ground Water <b>Method:</b> SW846 8260B <b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	<b>Date Sampled:</b> 04/15/14 <b>Date Received:</b> 04/16/14 <b>Percent Solids:</b> n/a
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**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		83-118%
17060-07-0	1,2-Dichloroethane-D4	110%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

(a) Associated BS recovery outside control limits.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> STICK UP WELL		
<b>Lab Sample ID:</b> FA14206-7		<b>Date Sampled:</b> 04/15/14
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 04/16/14
<b>Method:</b> SW846 8270D BY SIM SW846 3510C		<b>Percent Solids:</b> n/a
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W079496.D	1	04/18/14	MG	04/17/14	OP51274	SW3721
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	10000 ml	1.0 ml
Run #2		

## BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.040	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.040	ug/l	
120-12-7	Anthracene	ND	0.10	0.025	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.020	0.0040	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.020	0.0040	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.020	0.0040	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.020	0.0040	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.020	0.0040	ug/l	
218-01-9	Chrysene <sup>a</sup>	ND	0.020	0.0040	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.020	0.0040	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.025	ug/l	
86-73-7	Fluorene	ND	0.10	0.040	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.020	0.0040	ug/l	
90-12-0	1-Methylnaphthalene	ND	0.10	0.040	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.10	0.040	ug/l	
91-20-3	Naphthalene	ND	0.10	0.040	ug/l	
85-01-8	Phenanthrene	ND	0.10	0.025	ug/l	
129-00-0	Pyrene <sup>a</sup>	ND	0.10	0.025	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	87%		42-108%
321-60-8	2-Fluorobiphenyl	98%		40-106%
1718-51-0	Terphenyl-d14	104%		39-121%

(a) Associated BS recovery outside control limits.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b> STICK UP WELL	<b>Date Sampled:</b> 04/15/14
<b>Lab Sample ID:</b> FA14206-7	<b>Date Received:</b> 04/16/14
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	04/16/14 10:15	LE	SW846 7196A

RL = Reporting Limit

## Misc. Forms

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### Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody



**ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION**

ACCUTEST'S JOB NUMBER: FA14206 CLIENT: Panjo PROJECT: Cess wa  
 DATE/TIME RECEIVED: 04/16/14 9:30 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 1  
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER  
 AIRBILL NUMBERS: 8055 3263 8573

**COOLER INFORMATION**

- CUSTODY SEAL NOT PRESENT OR NOT INTACT
- CHAIN OF CUSTODY NOT RECEIVED (COC)
- ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- TEMPERATURE CRITERIA NOT MET
- WET ICE PRESENT

**TRIP BLANK INFORMATION**

- TRIP BLANK PROVIDED
- TRIP BLANK NOT PROVIDED
- TRIP BLANK NOT ON COC
- TRIP BLANK INTACT
- TRIP BLANK NOT INTACT
- RECEIVED WATER TRIP BLANK
- RECEIVED SOIL TRIP BLANK

**MISC. INFORMATION**

NUMBER OF ENCORES ? 25-GRAM 5-GRAM  
 NUMBER OF 5035 FIELD KITS ? \_\_\_\_\_  
 NUMBER OF LAB FILTERED METALS ? \_\_\_\_\_

**TEMPERATURE INFORMATION**

IR THERM ID 1 CORR. FACTOR -0.4  
 OBSERVED TEMPS: 2.8  
 CORRECTED TEMPS: 2.4

**SAMPLE INFORMATION**

- SAMPLE LABELS PRESENT ON ALL BOTTLES
- INCORRECT NUMBER OF CONTAINERS USED
- SAMPLE RECEIVED IMPROPERLY PRESERVED
- INSUFFICIENT VOLUME FOR ANALYSIS
- DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- ID'S ON COC DO NOT MATCH LABEL
- VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- SAMPLE CONTAINER(S) RECEIVED BROKEN
- % SOLIDS JAR NOT RECEIVED
- 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS: Samples 1,7 1 vials Has Macro Bubble 6 vials # 5 All 3 vials  
Received 1 Amber (8220) Samples 1,2,3,7

TECHNICIAN SIGNATURE/DATE R Will 04/16/14 REVIEWER SIGNATURE/DATE GC 4.16.14  
 NF 12/10 receipt confirmation 122910.xls

## GC/MS Volatiles

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### QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

## Method Blank Summary

**Job Number:** FA14206  
**Account:** PSGAWO Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI372-MB	I20098.D	1	04/18/14	WV	n/a	n/a	VI372

The QC reported here applies to the following samples:

Method: SW846 8260B

FA14206-1, FA14206-2, FA14206-3, FA14206-4, FA14206-5, FA14206-6, FA14206-7

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	11	ug/l	
107-02-8	Acrolein	ND	20	6.4	ug/l	
107-13-1	Acrylonitrile	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.31	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.38	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.26	ug/l	
75-25-2	Bromoform	ND	1.0	0.38	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.30	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.27	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.29	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.23	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.29	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.40	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.25	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.28	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.78	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.24	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.36	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.34	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.33	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.33	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.29	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.34	ug/l	

## Method Blank Summary

**Job Number:** FA14206  
**Account:** PSGAWO Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI372-MB	I20098.D	1	04/18/14	WV	n/a	n/a	VI372

The QC reported here applies to the following samples:

Method: SW846 8260B

FA14206-1, FA14206-2, FA14206-3, FA14206-4, FA14206-5, FA14206-6, FA14206-7

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.28	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.24	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.54	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.53	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.29	ug/l	
75-09-2	Methylene chloride	ND	5.0	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	1.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.24	ug/l	
100-42-5	Styrene	ND	1.0	0.23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.27	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.57	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.24	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.26	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.30	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
108-05-4	Vinyl Acetate	ND	10	2.0	ug/l	
	m,p-Xylene	ND	2.0	0.48	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

## Method Blank Summary

**Job Number:** FA14206  
**Account:** PSGAWO Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI372-MB	I20098.D	1	04/18/14	WV	n/a	n/a	VI372

The QC reported here applies to the following samples:

Method: SW846 8260B

FA14206-1, FA14206-2, FA14206-3, FA14206-4, FA14206-5, FA14206-6, FA14206-7

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	107% 83-118%
17060-07-0	1,2-Dichloroethane-D4	111% 79-125%
2037-26-5	Toluene-D8	98% 85-112%
460-00-4	4-Bromofluorobenzene	104% 83-118%



## Blank Spike Summary

**Job Number:** FA14206  
**Account:** PSGAWO Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI372-BS	I20099.D	1	04/18/14	WV	n/a	n/a	VI372

The QC reported here applies to the following samples:

Method: SW846 8260B

FA14206-1, FA14206-2, FA14206-3, FA14206-4, FA14206-5, FA14206-6, FA14206-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	218	174*	50-147
107-02-8	Acrolein	125	111	89	31-154
107-13-1	Acrylonitrile	125	132	106	58-126
71-43-2	Benzene	25	26.6	106	81-122
108-86-1	Bromobenzene	25	26.3	105	80-121
74-97-5	Bromochloromethane	25	24.8	99	76-123
75-27-4	Bromodichloromethane	25	28.7	115	79-123
75-25-2	Bromoform	25	27.1	108	66-123
104-51-8	n-Butylbenzene	25	25.7	103	79-126
135-98-8	sec-Butylbenzene	25	29.1	116	83-133
98-06-6	tert-Butylbenzene	25	27.8	111	80-133
108-90-7	Chlorobenzene	25	28.9	116	82-124
75-00-3	Chloroethane	25	28.0	112	62-144
67-66-3	Chloroform	25	28.1	112	80-124
95-49-8	o-Chlorotoluene	25	29.5	118	81-127
106-43-4	p-Chlorotoluene	25	30.8	123	83-130
110-75-8	2-Chloroethyl vinyl ether	125	101	81	56-122
75-15-0	Carbon disulfide	25	22.9	92	66-148
56-23-5	Carbon tetrachloride	25	31.7	127	76-136
75-34-3	1,1-Dichloroethane	25	28.0	112	81-122
75-35-4	1,1-Dichloroethylene	25	30.3	121	78-137
563-58-6	1,1-Dichloropropene	25	31.3	125	79-131
96-12-8	1,2-Dibromo-3-chloropropane	25	25.6	102	64-123
106-93-4	1,2-Dibromoethane	25	26.0	104	75-120
107-06-2	1,2-Dichloroethane	25	29.2	117	75-125
78-87-5	1,2-Dichloropropane	25	26.4	106	76-124
142-28-9	1,3-Dichloropropane	25	24.7	99	80-118
594-20-7	2,2-Dichloropropane	25	31.5	126	74-139
124-48-1	Dibromochloromethane	25	27.2	109	78-122
75-71-8	Dichlorodifluoromethane	25	26.2	105	42-167
156-59-2	cis-1,2-Dichloroethylene	25	26.9	108	78-120
10061-01-5	cis-1,3-Dichloropropene	25	27.0	108	75-118
541-73-1	m-Dichlorobenzene	25	29.8	119	84-125
95-50-1	o-Dichlorobenzene	25	28.4	114	82-124
106-46-7	p-Dichlorobenzene	25	26.3	105	78-120
156-60-5	trans-1,2-Dichloroethylene	25	28.6	114	76-127

\* = Outside of Control Limits.

## Blank Spike Summary

**Job Number:** FA14206  
**Account:** PSGAWO Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI372-BS	I20099.D	1	04/18/14	WV	n/a	n/a	VI372

The QC reported here applies to the following samples:

Method: SW846 8260B

FA14206-1, FA14206-2, FA14206-3, FA14206-4, FA14206-5, FA14206-6, FA14206-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	25	28.3	113	80-120
100-41-4	Ethylbenzene	25	27.4	110	81-121
591-78-6	2-Hexanone	125	143	114	61-129
87-68-3	Hexachlorobutadiene	25	30.9	124	75-142
98-82-8	Isopropylbenzene	25	28.5	114	83-132
99-87-6	p-Isopropyltoluene	25	28.1	112	79-130
108-10-1	4-Methyl-2-pentanone	125	129	103	66-122
74-83-9	Methyl bromide	25	29.1	116	59-143
74-87-3	Methyl chloride	25	26.5	106	50-159
74-95-3	Methylene bromide	25	26.3	105	78-119
75-09-2	Methylene chloride	25	29.1	116	69-135
78-93-3	Methyl ethyl ketone	125	140	112	56-143
1634-04-4	Methyl Tert Butyl Ether	25	24.8	99	72-117
91-20-3	Naphthalene	25	26.2	105	63-132
103-65-1	n-Propylbenzene	25	29.7	119	82-133
100-42-5	Styrene	25	25.5	102	78-119
630-20-6	1,1,1,2-Tetrachloroethane	25	28.4	114	77-122
71-55-6	1,1,1-Trichloroethane	25	32.1	128	75-130
79-34-5	1,1,2,2-Tetrachloroethane	25	22.8	91	72-120
79-00-5	1,1,2-Trichloroethane	25	24.6	98	76-119
87-61-6	1,2,3-Trichlorobenzene	25	27.9	112	68-131
96-18-4	1,2,3-Trichloropropane	25	25.1	100	77-120
120-82-1	1,2,4-Trichlorobenzene	25	27.2	109	73-129
95-63-6	1,2,4-Trimethylbenzene	25	26.3	105	79-120
108-67-8	1,3,5-Trimethylbenzene	25	25.2	101	79-120
127-18-4	Tetrachloroethylene	25	30.7	123	76-135
108-88-3	Toluene	25	26.0	104	80-120
79-01-6	Trichloroethylene	25	29.2	117	81-126
75-69-4	Trichlorofluoromethane	25	31.1	124	71-156
75-01-4	Vinyl chloride	25	26.7	107	69-159
108-05-4	Vinyl Acetate	125	142	114	43-154
	m,p-Xylene	50	57.6	115	79-126
95-47-6	o-Xylene	25	27.6	110	80-127

\* = Outside of Control Limits.

## Blank Spike Summary

**Job Number:** FA14206  
**Account:** PSGAWO Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VI372-BS	I20099.D	1	04/18/14	WV	n/a	n/a	VI372

The QC reported here applies to the following samples:

Method: SW846 8260B

FA14206-1, FA14206-2, FA14206-3, FA14206-4, FA14206-5, FA14206-6, FA14206-7

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	107%	79-125%
2037-26-5	Toluene-D8	95%	85-112%
460-00-4	4-Bromofluorobenzene	96%	83-118%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA14206  
**Account:** PSGAWO Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA14206-2MS	I20120.D	25	04/18/14	WV	n/a	n/a	VI372
FA14206-2MSD	I20121.D	25	04/18/14	WV	n/a	n/a	VI372
FA14206-2	I20114.D	25	04/18/14	WV	n/a	n/a	VI372

The QC reported here applies to the following samples:

Method: SW846 8260B

FA14206-1, FA14206-2, FA14206-3, FA14206-4, FA14206-5, FA14206-6, FA14206-7

CAS No.	Compound	FA14206-2 ug/l	Spike Q	ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		3130	3210	103	3130	3380	108	5	50-147/21
107-02-8	Acrolein	ND		3130	1890	60	3130	2030	65	7	31-154/29
107-13-1	Acrylonitrile	ND		3130	2560	82	3130	2730	87	6	58-126/16
71-43-2	Benzene	ND		625	633	101	625	598	96	6	81-122/14
108-86-1	Bromobenzene	ND		625	620	99	625	596	95	4	80-121/14
74-97-5	Bromochloromethane	ND		625	606	97	625	596	95	2	76-123/14
75-27-4	Bromodichloromethane	ND		625	634	101	625	576	92	10	79-123/19
75-25-2	Bromoform	ND		625	425	68	625	440	70	3	66-123/21
104-51-8	n-Butylbenzene	ND		625	590	94	625	558	89	6	79-126/16
135-98-8	sec-Butylbenzene	ND		625	684	109	625	650	104	5	83-133/16
98-06-6	tert-Butylbenzene	ND		625	664	106	625	623	100	6	80-133/16
108-90-7	Chlorobenzene	6.8	J	625	682	108	625	660	105	3	82-124/14
75-00-3	Chloroethane	ND		625	685	110	625	697	112	2	62-144/20
67-66-3	Chloroform	ND		625	680	109	625	651	104	4	80-124/15
95-49-8	o-Chlorotoluene	ND		625	695	111	625	667	107	4	81-127/15
106-43-4	p-Chlorotoluene	ND		625	721	115	625	684	109	5	83-130/15
110-75-8	2-Chloroethyl vinyl ether	ND		3130	352	11*	3130	279	9*	23	56-122/23
75-15-0	Carbon disulfide	ND		625	504	81	625	431	69	16	66-148/23
56-23-5	Carbon tetrachloride	ND		625	753	120	625	660	106	13	76-136/23
75-34-3	1,1-Dichloroethane	ND		625	671	107	625	644	103	4	81-122/15
75-35-4	1,1-Dichloroethylene	ND		625	727	116	625	725	116	0	78-137/18
563-58-6	1,1-Dichloropropene	ND		625	731	117	625	672	108	8	79-131/16
96-12-8	1,2-Dibromo-3-chloropropane	ND		625	560	90	625	527	84	6	64-123/18
106-93-4	1,2-Dibromoethane	ND		625	588	94	625	574	92	2	75-120/13
107-06-2	1,2-Dichloroethane	ND		625	685	110	625	653	104	5	75-125/14
78-87-5	1,2-Dichloropropane	ND		625	622	100	625	592	95	5	76-124/14
142-28-9	1,3-Dichloropropane	ND		625	570	91	625	556	89	2	80-118/13
594-20-7	2,2-Dichloropropane	ND		625	709	113	625	660	106	7	74-139/17
124-48-1	Dibromochloromethane	ND		625	518	83	625	503	80	3	78-122/19
75-71-8	Dichlorodifluoromethane	ND		625	617	99	625	612	98	1	42-167/19
156-59-2	cis-1,2-Dichloroethylene	47.8		625	679	101	625	655	97	4	78-120/15
10061-01-5	cis-1,3-Dichloropropene	ND		625	608	97	625	536	86	13	75-118/23
541-73-1	m-Dichlorobenzene	ND		625	700	112	625	664	106	5	84-125/14
95-50-1	o-Dichlorobenzene	ND		625	662	106	625	642	103	3	82-124/14
106-46-7	p-Dichlorobenzene	ND		625	611	98	625	590	94	3	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		625	674	108	625	639	102	5	76-127/17

\* = Outside of Control Limits.

5.3.1  
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# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA14206  
**Account:** PSGAWO Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA14206-2MS	I20120.D	25	04/18/14	WV	n/a	n/a	VI372
FA14206-2MSD	I20121.D	25	04/18/14	WV	n/a	n/a	VI372
FA14206-2	I20114.D	25	04/18/14	WV	n/a	n/a	VI372

The QC reported here applies to the following samples:

Method: SW846 8260B

FA14206-1, FA14206-2, FA14206-3, FA14206-4, FA14206-5, FA14206-6, FA14206-7

CAS No.	Compound	FA14206-2 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND	625	636	102	625	581	93	9	80-120/22
100-41-4	Ethylbenzene	ND	625	650	104	625	615	98	6	81-121/14
591-78-6	2-Hexanone	ND	3130	2890	92	3130	3050	98	5	61-129/18
87-68-3	Hexachlorobutadiene	ND	625	689	110	625	673	108	2	75-142/19
98-82-8	Isopropylbenzene	ND	625	672	108	625	642	103	5	83-132/15
99-87-6	p-Isopropyltoluene	ND	625	662	106	625	631	101	5	79-130/16
108-10-1	4-Methyl-2-pentanone	ND	3130	2850	91	3130	2960	95	4	66-122/16
74-83-9	Methyl bromide	ND	625	693	111	625	712	114	3	59-143/19
74-87-3	Methyl chloride	ND	625	649	104	625	670	107	3	50-159/19
74-95-3	Methylene bromide	ND	625	625	100	625	585	94	7	78-119/14
75-09-2	Methylene chloride	ND	625	702	112	625	683	109	3	69-135/16
78-93-3	Methyl ethyl ketone	ND	3130	2750	88	3130	2810	90	2	56-143/18
1634-04-4	Methyl Tert Butyl Ether	ND	625	583	93	625	601	96	3	72-117/14
91-20-3	Naphthalene	ND	625	556	89	625	588	94	6	63-132/25
103-65-1	n-Propylbenzene	ND	625	705	113	625	670	107	5	82-133/15
100-42-5	Styrene	ND	625	581	93	625	564	90	3	78-119/23
630-20-6	1,1,1,2-Tetrachloroethane	ND	625	663	106	625	599	96	10	77-122/19
71-55-6	1,1,1-Trichloroethane	ND	625	761	122	625	717	115	6	75-130/16
79-34-5	1,1,2,2-Tetrachloroethane	ND	625	515	82	625	518	83	1	72-120/14
79-00-5	1,1,2-Trichloroethane	ND	625	550	88	625	551	88	0	76-119/14
87-61-6	1,2,3-Trichlorobenzene	ND	625	619	99	625	617	99	0	68-131/25
96-18-4	1,2,3-Trichloropropane	ND	625	563	90	625	586	94	4	77-120/16
120-82-1	1,2,4-Trichlorobenzene	ND	625	604	97	625	598	96	1	73-129/20
95-63-6	1,2,4-Trimethylbenzene	ND	625	620	99	625	594	95	4	79-120/18
108-67-8	1,3,5-Trimethylbenzene	ND	625	595	95	625	569	91	4	79-120/19
127-18-4	Tetrachloroethylene	ND	625	679	109	625	627	100	8	76-135/16
108-88-3	Toluene	ND	625	612	98	625	589	94	4	80-120/14
79-01-6	Trichloroethylene	2200	625	2940	118	625	2730	85	7	81-126/15
75-69-4	Trichlorofluoromethane	ND	625	754	121	625	702	112	7	71-156/21
75-01-4	Vinyl chloride	ND	625	636	102	625	655	105	3	69-159/18
108-05-4	Vinyl Acetate	ND	3130	3450	110	3130	3380	108	2	43-154/14
	m,p-Xylene	ND	1250	1380	110	1250	1300	104	6	79-126/15
95-47-6	o-Xylene	ND	625	646	103	625	627	100	3	80-127/14

\* = Outside of Control Limits.

5.3.1  
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# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA14206  
**Account:** PSGAWO Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA14206-2MS	I20120.D	25	04/18/14	WV	n/a	n/a	VI372
FA14206-2MSD	I20121.D	25	04/18/14	WV	n/a	n/a	VI372
FA14206-2	I20114.D	25	04/18/14	WV	n/a	n/a	VI372

The QC reported here applies to the following samples:

Method: SW846 8260B

FA14206-1, FA14206-2, FA14206-3, FA14206-4, FA14206-5, FA14206-6, FA14206-7

CAS No.	Surrogate Recoveries	MS	MSD	FA14206-2	Limits
1868-53-7	Dibromofluoromethane	105%	103%	107%	83-118%
17060-07-0	1,2-Dichloroethane-D4	108%	105%	108%	79-125%
2037-26-5	Toluene-D8	94%	94%	98%	85-112%
460-00-4	4-Bromofluorobenzene	97%	97%	104%	83-118%

\* = Outside of Control Limits.

5.3.1  
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## GC/MS Semi-volatiles

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### QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

# Method Blank Summary

**Job Number:** FA14206  
**Account:** PSGAWO Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51274-MB	W079481.D	1	04/18/14	MG	04/17/14	OP51274	SW3721

The QC reported here applies to the following samples:

Method: SW846 8270D BY SIM

FA14206-1, FA14206-2, FA14206-3, FA14206-7

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	1.0	0.40	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.40	ug/l	
120-12-7	Anthracene	ND	1.0	0.25	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.040	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.040	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.040	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.040	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.040	ug/l	
218-01-9	Chrysene	ND	0.20	0.040	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.040	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.25	ug/l	
86-73-7	Fluorene	ND	1.0	0.40	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.040	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	0.40	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.40	ug/l	
91-20-3	Naphthalene	ND	1.0	0.40	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.25	ug/l	
129-00-0	Pyrene	ND	1.0	0.25	ug/l	

CAS No.	Surrogate Recoveries	Limits	
4165-60-0	Nitrobenzene-d5	60%	42-108%
321-60-8	2-Fluorobiphenyl	66%	40-106%
1718-51-0	Terphenyl-d14	105%	39-121%



# Blank Spike Summary

**Job Number:** FA14206  
**Account:** PSGAWO Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51274-BS	W079480.D	1	04/18/14	MG	04/17/14	OP51274	SW3721

The QC reported here applies to the following samples:

Method: SW846 8270D BY SIM

FA14206-1, FA14206-2, FA14206-3, FA14206-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	10	9.6	96	56-101
208-96-8	Acenaphthylene	10	10.1	101	54-104
120-12-7	Anthracene	5	4.9	98	67-106
56-55-3	Benzo(a)anthracene	5	5.3	106	65-106
50-32-8	Benzo(a)pyrene	5	5.0	100	58-111
205-99-2	Benzo(b)fluoranthene	5	5.4	108	59-113
191-24-2	Benzo(g,h,i)perylene	5	4.4	88	43-112
207-08-9	Benzo(k)fluoranthene	5	5.1	102	58-110
218-01-9	Chrysene	5	5.9	118*	66-107
53-70-3	Dibenzo(a,h)anthracene	5	4.5	90	40-113
206-44-0	Fluoranthene	10	10.2	102	64-110
86-73-7	Fluorene	10	10.1	101	60-106
193-39-5	Indeno(1,2,3-cd)pyrene	5	4.7	94	44-112
90-12-0	1-Methylnaphthalene	10	9.5	95	54-105
91-57-6	2-Methylnaphthalene	10	8.5	85	53-105
91-20-3	Naphthalene	10	9.3	93	56-105
85-01-8	Phenanthrene	10	9.9	99	62-105
129-00-0	Pyrene	10	12.2	122*	62-109

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	90%	42-108%
321-60-8	2-Fluorobiphenyl	100%	40-106%
1718-51-0	Terphenyl-d14	130%* a	39-121%

(a) Outside control limits.

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA14206  
**Account:** PSGAWO Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP51274-MS	W079497.D	1	04/18/14	MG	04/17/14	OP51274	SW3721
OP51274-MSD	W079498.D	1	04/18/14	MG	04/17/14	OP51274	SW3721
FA14215-4	W079507.D	1	04/21/14	MG	04/17/14	OP51274	SW3722

The QC reported here applies to the following samples:

Method: SW846 8270D BY SIM

FA14206-1, FA14206-2, FA14206-3, FA14206-7

CAS No.	Compound	FA14215-4 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND	19.2	19.9	103*	19.2	16.7	87	17	56-101/24
208-96-8	Acenaphthylene	ND	19.2	21.0	109*	19.2	18.3	95	14	54-104/25
120-12-7	Anthracene	ND	9.62	9.6	100	9.62	8.8	92	9	67-106/21
56-55-3	Benzo(a)anthracene	ND	9.62	10.0	104	9.62	8.4	87	17	65-106/22
50-32-8	Benzo(a)pyrene	ND	9.62	9.9	103	9.62	8.4	87	16	58-111/23
205-99-2	Benzo(b)fluoranthene	ND	9.62	9.8	102	9.62	8.7	90	12	59-113/24
191-24-2	Benzo(g,h,i)perylene	ND	9.62	8.9	93	9.62	7.6	79	16	43-112/24
207-08-9	Benzo(k)fluoranthene	ND	9.62	10.8	112*	9.62	9.6	100	12	58-110/23
218-01-9	Chrysene	ND	9.62	10.7	111*	9.62	8.9	93	18	66-107/22
53-70-3	Dibenzo(a,h)anthracene	ND	9.62	8.9	93	9.62	7.7	80	14	40-113/25
206-44-0	Fluoranthene	ND	19.2	20.6	107	19.2	16.6	86	22	64-110/22
86-73-7	Fluorene	ND	19.2	20.9	109*	19.2	17.8	93	16	60-106/24
193-39-5	Indeno(1,2,3-cd)pyrene	ND	9.62	9.6	100	9.62	8.1	84	17	44-112/25
90-12-0	1-Methylnaphthalene	ND	19.2	18.9	98	19.2	17.5	91	8	54-105/26
91-57-6	2-Methylnaphthalene	ND	19.2	16.3	85	19.2	15.2	79	7	53-105/26
91-20-3	Naphthalene	ND	19.2	18.0	94	19.2	16.2	84	11	56-105/27
85-01-8	Phenanthrene	0.23	J 19.2	19.6	101	19.2	16.8	86	15	62-105/22
129-00-0	Pyrene	ND	19.2	21.7	113*	19.2	18.1	94	18	62-109/21

CAS No.	Surrogate Recoveries	MS	MSD	FA14215-4	Limits
4165-60-0	Nitrobenzene-d5	95%	86%	79%	42-108%
321-60-8	2-Fluorobiphenyl	113%* a	101%	93%	40-106%
1718-51-0	Terphenyl-d14	126%* a	107%	120%	39-121%

(a) Outside control limits.

\* = Outside of Control Limits.

## General Chemistry

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### QC Data Summaries

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Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: FA14206  
Account: PSGAWO - Pangean-CMD Associates, Inc  
Project: Cessna Facility; 4800 Cargo Dr, Columbus, GA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chromium, Hexavalent	GN61037	0.010	0.0	mg/l	.100	0.11	109.5	85-115%

Associated Samples:

Batch GN61037: FA14206-1, FA14206-2, FA14206-3, FA14206-4, FA14206-5, FA14206-6, FA14206-7

(\*) Outside of QC limits

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MATRIX SPIKE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: FA14206  
Account: PSGAWO - Pangean-CMD Associates, Inc  
Project: Cessna Facility; 4800 Cargo Dr, Columbus, GA

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chromium, Hexavalent	GN61037	FA14206-5	mg/l	0.0	.100	0.10	101.2	85-115%

Associated Samples:

Batch GN61037: FA14206-1, FA14206-2, FA14206-3, FA14206-4, FA14206-5, FA14206-6, FA14206-7

(\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

7.2  
7

MATRIX SPIKE DUPLICATE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: FA14206  
Account: PSGAWO - Pangean-CMD Associates, Inc  
Project: Cessna Facility; 4800 Cargo Dr, Columbus, GA

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chromium, Hexavalent	GN61037	FA14206-5	mg/l	0.0	.100	0.104	3.0	20%

Associated Samples:

Batch GN61037: FA14206-1, FA14206-2, FA14206-3, FA14206-4, FA14206-5, FA14206-6, FA14206-7

(\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits



04/25/14

Technical Report for

Pangean-CMD Associates, Inc

Cessna Facility; 4800 Cargo Dr, Columbus, GA

Accutest Job Number: FA14182

Sampling Date: 04/14/14


Report to:

Pangean-CMD Associates, Inc  
9874 Main St Suite 100  
Woodstock, GA 30188  
rstevens@pangean-cmd.com; dbass@pangean-cmd.com;  
mreid@pangean-cmd.com  
ATTN: Richard Stevens

Total number of pages in report: **64**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

  
Harry Behzadi, Ph.D.  
Laboratory Director

Client Service contact: Muna Mohammed 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001)  
DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), PA (68-03573), VA (460177),  
AK, AR, GA, KY, MA, NV, OK, UT, WA

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Test results relate only to samples analyzed.

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## Sample Summary

Pangean-CMD Associates, Inc

**Job No:** FA14182

Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
FA14182-1	04/14/14	13:00 MG	04/15/14	SO	Soil	SB-1 (4-6)
FA14182-2	04/14/14	14:20 MG	04/15/14	SO	Soil	SB-2 (8-10)
FA14182-3	04/14/14	14:30 MG	04/15/14	SO	Soil	SB-2 (12-14)
FA14182-4	04/14/14	16:00 MG	04/15/14	SO	Soil	SB-3 (6-8)
FA14182-5	04/14/14	18:10 MG	04/15/14	SO	Soil	SB-4 (8-10)
FA14182-6	04/14/14	18:20 MG	04/15/14	SO	Soil	SB-4 (10-12)

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Soil samples reported on a dry weight basis unless otherwise indicated on result page.

## Summary of Hits

**Job Number:** FA14182  
**Account:** Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA  
**Collected:** 04/14/14

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
<b>FA14182-1</b>	<b>SB-1 (4-6)</b>					
Acetone		0.0491	0.046	0.014	mg/kg	SW846 8260B
Arsenic		0.54	0.53		mg/kg	SW846 6010C
Lead		5.8	1.1		mg/kg	SW846 6010C
Zinc		3.6	1.1		mg/kg	SW846 6010C
<b>FA14182-2</b>	<b>SB-2 (8-10)</b>					
Acetone		0.0627	0.051	0.015	mg/kg	SW846 8260B
Carbon disulfide		0.0012 J	0.0051	0.0010	mg/kg	SW846 8260B
1,1-Dichloroethane		0.0017 J	0.0051	0.0010	mg/kg	SW846 8260B
1,1-Dichloroethylene		0.0013 J	0.0051	0.0010	mg/kg	SW846 8260B
cis-1,2-Dichloroethylene		0.0631	0.0051	0.0010	mg/kg	SW846 8260B
trans-1,2-Dichloroethylene		0.0018 J	0.0051	0.0014	mg/kg	SW846 8260B
Trichloroethylene		8.41	0.25	0.050	mg/kg	SW846 8260B
Lead		7.9	1.1		mg/kg	SW846 6010C
Zinc <sup>a</sup>		2.6	2.1		mg/kg	SW846 6010C
<b>FA14182-3</b>	<b>SB-2 (12-14)</b>					
1,1-Dichloroethane		0.0019 J	0.0059	0.0012	mg/kg	SW846 8260B
cis-1,2-Dichloroethylene		0.0402	0.0059	0.0012	mg/kg	SW846 8260B
Trichloroethylene		0.778	0.29	0.059	mg/kg	SW846 8260B
Lead		4.0	1.0		mg/kg	SW846 6010C
Zinc		2.4	1.0		mg/kg	SW846 6010C
<b>FA14182-4</b>	<b>SB-3 (6-8)</b>					
Methylene chloride		0.0083 JB	0.010	0.0041	mg/kg	SW846 8260B
Lead		6.0	0.72		mg/kg	SW846 6010C
Zinc		9.3	0.72		mg/kg	SW846 6010C
<b>FA14182-5</b>	<b>SB-4 (8-10)</b>					
Chloroform		0.0031 J	0.0044	0.0010	mg/kg	SW846 8260B
1,1-Dichloroethane		0.0467	0.0044	0.00089	mg/kg	SW846 8260B
1,1-Dichloroethylene		0.0283	0.0044	0.00089	mg/kg	SW846 8260B
cis-1,2-Dichloroethylene		0.0327	0.0044	0.00089	mg/kg	SW846 8260B
1,1,2-Trichloroethane		0.0760	0.0044	0.0014	mg/kg	SW846 8260B
Trichloroethylene		6.55	0.32	0.065	mg/kg	SW846 8260B
Arsenic		0.59	0.54		mg/kg	SW846 6010C
Lead		5.2	1.1		mg/kg	SW846 6010C
Zinc		5.2	1.1		mg/kg	SW846 6010C

## Summary of Hits

**Job Number:** FA14182  
**Account:** Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA  
**Collected:** 04/14/14

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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FA14182-6 SB-4 (10-12)

Chloroform		0.0015 J	0.0049	0.0011	mg/kg	SW846 8260B
1,1-Dichloroethane		0.0259	0.0049	0.00099	mg/kg	SW846 8260B
1,1-Dichloroethylene		0.0088	0.0049	0.00099	mg/kg	SW846 8260B
cis-1,2-Dichloroethylene		0.0114	0.0049	0.00099	mg/kg	SW846 8260B
Methylene chloride		0.0046 J	0.0099	0.0040	mg/kg	SW846 8260B
1,1,2-Trichloroethane		0.0138	0.0049	0.0016	mg/kg	SW846 8260B
Trichloroethylene		0.698	0.37	0.075	mg/kg	SW846 8260B
Lead		4.2	0.90		mg/kg	SW846 6010C
Zinc		3.9	0.90		mg/kg	SW846 6010C

(a) Elevated reporting limit(s) due to matrix interference.

Sample Results

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Report of Analysis

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## Report of Analysis

<b>Client Sample ID:</b> SB-1 (4-6)		
<b>Lab Sample ID:</b> FA14182-1		<b>Date Sampled:</b> 04/14/14
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 04/15/14
<b>Method:</b> SW846 8260B		<b>Percent Solids:</b> 90.7
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C097936.D	1	04/15/14	AH	n/a	n/a	VC3925
Run #2							

Run #1	Initial Weight
Run #1	5.93 g
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	0.0491	0.046	0.014	mg/kg	
107-02-8	Acrolein	ND	0.023	0.010	mg/kg	
107-13-1	Acrylonitrile	ND	0.023	0.0072	mg/kg	
71-43-2	Benzene	ND	0.0046	0.00093	mg/kg	
108-86-1	Bromobenzene	ND	0.0046	0.0010	mg/kg	
74-97-5	Bromochloromethane	ND	0.0046	0.0018	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0046	0.00093	mg/kg	
75-25-2	Bromoform	ND	0.0046	0.0010	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0046	0.00093	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0046	0.00093	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0046	0.00093	mg/kg	
108-90-7	Chlorobenzene	ND	0.0046	0.00093	mg/kg	
75-00-3	Chloroethane	ND	0.0046	0.0021	mg/kg	
67-66-3	Chloroform	ND	0.0046	0.0011	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0046	0.00093	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0046	0.00093	mg/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	0.023	0.0093	mg/kg	
75-15-0	Carbon disulfide	ND	0.0046	0.00093	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0046	0.0013	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0046	0.00093	mg/kg	
75-35-4	1,1-Dichloroethylene	ND	0.0046	0.00093	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0046	0.0010	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0046	0.0020	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0046	0.0017	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0046	0.00093	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.0046	0.00093	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0046	0.00093	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0046	0.0013	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0046	0.00093	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0046	0.0012	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	0.0046	0.00093	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0046	0.00093	mg/kg	

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	SB-1 (4-6)	<b>Date Sampled:</b>	04/14/14
<b>Lab Sample ID:</b>	FA14182-1	<b>Date Received:</b>	04/15/14
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	90.7
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	Cessna Facility; 4800 Cargo Dr, Columbus, GA		

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	0.0046	0.00093	mg/kg	
95-50-1	o-Dichlorobenzene	ND	0.0046	0.00093	mg/kg	
106-46-7	p-Dichlorobenzene	ND	0.0046	0.0010	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	0.0046	0.0012	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0046	0.00093	mg/kg	
100-41-4	Ethylbenzene	ND	0.0046	0.00093	mg/kg	
591-78-6	2-Hexanone	ND	0.023	0.0046	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.0046	0.00094	mg/kg	
98-82-8	Isopropylbenzene	ND	0.0046	0.00093	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.0046	0.00093	mg/kg	
108-10-1	4-Methyl-2-pentanone	ND	0.023	0.0046	mg/kg	
74-83-9	Methyl bromide	ND	0.0046	0.0017	mg/kg	
74-87-3	Methyl chloride	ND	0.0046	0.0019	mg/kg	
74-95-3	Methylene bromide	ND	0.0046	0.0011	mg/kg	
75-09-2	Methylene chloride	ND	0.0093	0.0037	mg/kg	
78-93-3	Methyl ethyl ketone	ND	0.023	0.0070	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0046	0.00093	mg/kg	
91-20-3	Naphthalene	ND	0.0046	0.0019	mg/kg	
103-65-1	n-Propylbenzene	ND	0.0046	0.00093	mg/kg	
100-42-5	Styrene	ND	0.0046	0.00093	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0046	0.00098	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0046	0.00093	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0046	0.0013	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0046	0.0015	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0046	0.0011	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0046	0.0017	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0046	0.0011	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0046	0.00093	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0046	0.00093	mg/kg	
127-18-4	Tetrachloroethylene	ND	0.0046	0.0012	mg/kg	
108-88-3	Toluene	ND	0.0046	0.00093	mg/kg	
79-01-6	Trichloroethylene	ND	0.0046	0.00095	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0046	0.00093	mg/kg	
75-01-4	Vinyl chloride	ND	0.0046	0.00095	mg/kg	
108-05-4	Vinyl Acetate	ND	0.023	0.0075	mg/kg	
	m,p-Xylene	ND	0.0093	0.0015	mg/kg	
95-47-6	o-Xylene	ND	0.0046	0.00099	mg/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-1 (4-6)	
<b>Lab Sample ID:</b> FA14182-1	<b>Date Sampled:</b> 04/14/14
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 04/15/14
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 90.7
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

### VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		75-124%
2037-26-5	Toluene-D8	97%		75-126%
460-00-4	4-Bromofluorobenzene	101%		71-133%
17060-07-0	1,2-Dichloroethane-D4	115%		72-135%

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-1 (4-6)	
<b>Lab Sample ID:</b> FA14182-1	<b>Date Sampled:</b> 04/14/14
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 04/15/14
	<b>Percent Solids:</b> 90.7
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

### Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.54	0.53	mg/kg	1	04/16/14	04/16/14 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>
Cadmium	< 0.21	0.21	mg/kg	1	04/16/14	04/16/14 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>
Lead	5.8	1.1	mg/kg	1	04/16/14	04/16/14 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>
Zinc	3.6	1.1	mg/kg	1	04/16/14	04/16/14 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA11531

(2) Prep QC Batch: MP27111

RL = Reporting Limit



## Report of Analysis

<b>Client Sample ID:</b> SB-1 (4-6)	<b>Date Sampled:</b> 04/14/14
<b>Lab Sample ID:</b> FA14182-1	<b>Date Received:</b> 04/15/14
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 90.7
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 2.2	2.2	mg/kg	1	04/23/14 17:30	FN	SW846 3060A/7196A
Solids, Percent	90.7		%	1	04/17/14 14:05	KC	SM19 2540G

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-2 (8-10)		<b>Date Sampled:</b> 04/14/14
<b>Lab Sample ID:</b> FA14182-2		<b>Date Received:</b> 04/15/14
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 90.4
<b>Method:</b> SW846 8260B		
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C097937.D	1	04/15/14	AH	n/a	n/a	VC3925
Run #2	C097944.D	1	04/15/14	AH	n/a	n/a	VC3925

Run #	Initial Weight	Methanol Aliquot
Run #1	5.41 g	
Run #2	6.29 g	100 ul

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	0.0627	0.051	0.015	mg/kg	
107-02-8	Acrolein	ND	0.026	0.011	mg/kg	
107-13-1	Acrylonitrile	ND	0.026	0.0080	mg/kg	
71-43-2	Benzene	ND	0.0051	0.0010	mg/kg	
108-86-1	Bromobenzene	ND	0.0051	0.0011	mg/kg	
74-97-5	Bromochloromethane	ND	0.0051	0.0020	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0051	0.0010	mg/kg	
75-25-2	Bromoform	ND	0.0051	0.0011	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0051	0.0010	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0051	0.0010	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0051	0.0010	mg/kg	
108-90-7	Chlorobenzene	ND	0.0051	0.0010	mg/kg	
75-00-3	Chloroethane	ND	0.0051	0.0023	mg/kg	
67-66-3	Chloroform	ND	0.0051	0.0012	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0051	0.0010	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0051	0.0010	mg/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	0.026	0.010	mg/kg	
75-15-0	Carbon disulfide	0.0012	0.0051	0.0010	mg/kg	J
56-23-5	Carbon tetrachloride	ND	0.0051	0.0014	mg/kg	
75-34-3	1,1-Dichloroethane	0.0017	0.0051	0.0010	mg/kg	J
75-35-4	1,1-Dichloroethylene	0.0013	0.0051	0.0010	mg/kg	J
563-58-6	1,1-Dichloropropene	ND	0.0051	0.0011	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0051	0.0022	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0051	0.0018	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0051	0.0010	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.0051	0.0010	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0051	0.0010	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0051	0.0014	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0051	0.0010	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0051	0.0013	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	0.0631	0.0051	0.0010	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0051	0.0010	mg/kg	

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b> SB-2 (8-10)	
<b>Lab Sample ID:</b> FA14182-2	<b>Date Sampled:</b> 04/14/14
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 04/15/14
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 90.4
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

### VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%	108%	75-124%
2037-26-5	Toluene-D8	98%	99%	75-126%
460-00-4	4-Bromofluorobenzene	99%	103%	71-133%
17060-07-0	1,2-Dichloroethane-D4	117%	108%	72-135%

(a) Result is from Run# 2

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-2 (8-10)	<b>Date Sampled:</b> 04/14/14
<b>Lab Sample ID:</b> FA14182-2	<b>Date Received:</b> 04/15/14
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 90.4
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

### Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic <sup>a</sup>	< 1.1	1.1	mg/kg	2	04/16/14	04/17/14 LM	SW846 6010C <sup>2</sup>	SW846 3050B <sup>3</sup>
Cadmium <sup>a</sup>	< 0.42	0.42	mg/kg	2	04/16/14	04/17/14 LM	SW846 6010C <sup>2</sup>	SW846 3050B <sup>3</sup>
Lead	7.9	1.1	mg/kg	1	04/16/14	04/16/14 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Zinc <sup>a</sup>	2.6	2.1	mg/kg	2	04/16/14	04/17/14 LM	SW846 6010C <sup>2</sup>	SW846 3050B <sup>3</sup>

(1) Instrument QC Batch: MA11531

(2) Instrument QC Batch: MA11536

(3) Prep QC Batch: MP27111

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-2 (8-10)	<b>Date Sampled:</b> 04/14/14
<b>Lab Sample ID:</b> FA14182-2	<b>Date Received:</b> 04/15/14
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 90.4
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 2.2	2.2	mg/kg	1	04/23/14 17:30	FN	SW846 3060A/7196A
Solids, Percent	90.4		%	1	04/16/14 09:52	KC	SM19 2540G

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-2 (12-14)		<b>Date Sampled:</b> 04/14/14
<b>Lab Sample ID:</b> FA14182-3		<b>Date Received:</b> 04/15/14
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 86.3
<b>Method:</b> SW846 8260B		
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C097938.D	1	04/15/14	AH	n/a	n/a	VC3925
Run #2	C097945.D	1	04/15/14	AH	n/a	n/a	VC3925

Run #	Initial Weight	Methanol Aliquot
Run #1	4.93 g	
Run #2	5.83 g	100 ul

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.059	0.018	mg/kg	
107-02-8	Acrolein	ND	0.029	0.013	mg/kg	
107-13-1	Acrylonitrile	ND	0.029	0.0092	mg/kg	
71-43-2	Benzene	ND	0.0059	0.0012	mg/kg	
108-86-1	Bromobenzene	ND	0.0059	0.0013	mg/kg	
74-97-5	Bromochloromethane	ND	0.0059	0.0023	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0059	0.0012	mg/kg	
75-25-2	Bromoform	ND	0.0059	0.0013	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0059	0.0012	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0059	0.0012	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0059	0.0012	mg/kg	
108-90-7	Chlorobenzene	ND	0.0059	0.0012	mg/kg	
75-00-3	Chloroethane	ND	0.0059	0.0027	mg/kg	
67-66-3	Chloroform	ND	0.0059	0.0013	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0059	0.0012	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0059	0.0012	mg/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	0.029	0.012	mg/kg	
75-15-0	Carbon disulfide	ND	0.0059	0.0012	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0059	0.0016	mg/kg	
75-34-3	1,1-Dichloroethane	0.0019	0.0059	0.0012	mg/kg	J
75-35-4	1,1-Dichloroethylene	ND	0.0059	0.0012	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0059	0.0013	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0059	0.0025	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0059	0.0021	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0059	0.0012	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.0059	0.0012	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0059	0.0012	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0059	0.0017	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0059	0.0012	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0059	0.0015	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	0.0402	0.0059	0.0012	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0059	0.0012	mg/kg	

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound





## Report of Analysis

<b>Client Sample ID:</b> SB-2 (12-14) <b>Lab Sample ID:</b> FA14182-3 <b>Matrix:</b> SO - Soil <b>Method:</b> SW846 8260B <b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	<b>Date Sampled:</b> 04/14/14 <b>Date Received:</b> 04/15/14 <b>Percent Solids:</b> 86.3
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**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%	109%	75-124%
2037-26-5	Toluene-D8	98%	99%	75-126%
460-00-4	4-Bromofluorobenzene	101%	103%	71-133%
17060-07-0	1,2-Dichloroethane-D4	111%	107%	72-135%

(a) Result is from Run# 2

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-2 (12-14)	
<b>Lab Sample ID:</b> FA14182-3	<b>Date Sampled:</b> 04/14/14
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 04/15/14
	<b>Percent Solids:</b> 86.3
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

### Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 0.51	0.51	mg/kg	1	04/16/14	04/16/14 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>
Cadmium	< 0.20	0.20	mg/kg	1	04/16/14	04/16/14 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>
Lead	4.0	1.0	mg/kg	1	04/16/14	04/16/14 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>
Zinc	2.4	1.0	mg/kg	1	04/16/14	04/16/14 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA11531

(2) Prep QC Batch: MP27111

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-2 (12-14)	<b>Date Sampled:</b> 04/14/14
<b>Lab Sample ID:</b> FA14182-3	<b>Date Received:</b> 04/15/14
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 86.3
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 2.3	2.3	mg/kg	1	04/23/14 17:30	FN	SW846 3060A/7196A
Solids, Percent	86.3		%	1	04/17/14 14:05	KC	SM19 2540G

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-3 (6-8)		<b>Date Sampled:</b> 04/14/14
<b>Lab Sample ID:</b> FA14182-4		<b>Date Received:</b> 04/15/14
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 88.4
<b>Method:</b> SW846 8260B		
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C097939.D	1	04/15/14	AH	n/a	n/a	VC3925
Run #2							

Run #1	Initial Weight
Run #1	5.51 g
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.051	0.015	mg/kg	
107-02-8	Acrolein	ND	0.026	0.011	mg/kg	
107-13-1	Acrylonitrile	ND	0.026	0.0080	mg/kg	
71-43-2	Benzene	ND	0.0051	0.0010	mg/kg	
108-86-1	Bromobenzene	ND	0.0051	0.0011	mg/kg	
74-97-5	Bromochloromethane	ND	0.0051	0.0020	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0051	0.0010	mg/kg	
75-25-2	Bromoform	ND	0.0051	0.0011	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0051	0.0010	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0051	0.0010	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0051	0.0010	mg/kg	
108-90-7	Chlorobenzene	ND	0.0051	0.0010	mg/kg	
75-00-3	Chloroethane	ND	0.0051	0.0023	mg/kg	
67-66-3	Chloroform	ND	0.0051	0.0012	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0051	0.0010	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0051	0.0010	mg/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	0.026	0.010	mg/kg	
75-15-0	Carbon disulfide	ND	0.0051	0.0010	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0051	0.0014	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0051	0.0010	mg/kg	
75-35-4	1,1-Dichloroethylene	ND	0.0051	0.0010	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0051	0.0011	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0051	0.0022	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0051	0.0018	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0051	0.0010	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.0051	0.0010	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0051	0.0010	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0051	0.0014	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0051	0.0010	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0051	0.0013	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	0.0051	0.0010	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0051	0.0010	mg/kg	

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b> SB-3 (6-8) <b>Lab Sample ID:</b> FA14182-4 <b>Matrix:</b> SO - Soil <b>Method:</b> SW846 8260B <b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	<b>Date Sampled:</b> 04/14/14 <b>Date Received:</b> 04/15/14 <b>Percent Solids:</b> 88.4
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**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		75-124%
2037-26-5	Toluene-D8	98%		75-126%
460-00-4	4-Bromofluorobenzene	98%		71-133%
17060-07-0	1,2-Dichloroethane-D4	117%		72-135%

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-3 (6-8)	
<b>Lab Sample ID:</b> FA14182-4	<b>Date Sampled:</b> 04/14/14
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 04/15/14
	<b>Percent Solids:</b> 88.4
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

### Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 0.36	0.36	mg/kg	1	04/16/14	04/16/14 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>
Cadmium	< 0.14	0.14	mg/kg	1	04/16/14	04/16/14 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>
Lead	6.0	0.72	mg/kg	1	04/16/14	04/16/14 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>
Zinc	9.3	0.72	mg/kg	1	04/16/14	04/16/14 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA11531

(2) Prep QC Batch: MP27111

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-3 (6-8)	<b>Date Sampled:</b> 04/14/14
<b>Lab Sample ID:</b> FA14182-4	<b>Date Received:</b> 04/15/14
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 88.4
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 2.2	2.2	mg/kg	1	04/23/14 17:30	FN	SW846 3060A/7196A
Solids, Percent	88.4		%	1	04/17/14 14:05	KC	SM19 2540G

RL = Reporting Limit



## Report of Analysis

<b>Client Sample ID:</b> SB-4 (8-10)		<b>Date Sampled:</b> 04/14/14
<b>Lab Sample ID:</b> FA14182-5		<b>Date Received:</b> 04/15/14
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 78.2
<b>Method:</b> SW846 8260B		
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C097940.D	1	04/15/14	AH	n/a	n/a	VC3925
Run #2	C097956.D	1	04/16/14	AH	n/a	n/a	VC3926

Run #	Initial Weight	Methanol Aliquot
Run #1	7.20 g	
Run #2	6.38 g	100 ul

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.044	0.013	mg/kg	
107-02-8	Acrolein	ND	0.022	0.0096	mg/kg	
107-13-1	Acrylonitrile	ND	0.022	0.0069	mg/kg	
71-43-2	Benzene	ND	0.0044	0.00089	mg/kg	
108-86-1	Bromobenzene	ND	0.0044	0.00097	mg/kg	
74-97-5	Bromochloromethane	ND	0.0044	0.0017	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0044	0.00089	mg/kg	
75-25-2	Bromoform	ND	0.0044	0.00096	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0044	0.00089	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0044	0.00089	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0044	0.00089	mg/kg	
108-90-7	Chlorobenzene	ND	0.0044	0.00089	mg/kg	
75-00-3	Chloroethane	ND	0.0044	0.0020	mg/kg	
67-66-3	Chloroform	0.0031	0.0044	0.0010	mg/kg	J
95-49-8	o-Chlorotoluene	ND	0.0044	0.00089	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0044	0.00089	mg/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	0.022	0.0089	mg/kg	
75-15-0	Carbon disulfide	ND	0.0044	0.00089	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0044	0.0012	mg/kg	
75-34-3	1,1-Dichloroethane	0.0467	0.0044	0.00089	mg/kg	
75-35-4	1,1-Dichloroethylene	0.0283	0.0044	0.00089	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0044	0.00099	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0044	0.0019	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0044	0.0016	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0044	0.00089	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.0044	0.00089	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0044	0.00089	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0044	0.0013	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0044	0.00089	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0044	0.0011	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	0.0327	0.0044	0.00089	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0044	0.00089	mg/kg	

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b> SB-4 (8-10)	
<b>Lab Sample ID:</b> FA14182-5	<b>Date Sampled:</b> 04/14/14
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 04/15/14
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 78.2
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

### VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%	108%	75-124%
2037-26-5	Toluene-D8	98%	99%	75-126%
460-00-4	4-Bromofluorobenzene	100%	102%	71-133%
17060-07-0	1,2-Dichloroethane-D4	116%	106%	72-135%

(a) Result is from Run# 2

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-4 (8-10)	<b>Date Sampled:</b> 04/14/14
<b>Lab Sample ID:</b> FA14182-5	<b>Date Received:</b> 04/15/14
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 78.2
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

### Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.59	0.54	mg/kg	1	04/16/14	04/16/14 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>
Cadmium	< 0.22	0.22	mg/kg	1	04/16/14	04/16/14 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>
Lead	5.2	1.1	mg/kg	1	04/16/14	04/16/14 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>
Zinc	5.2	1.1	mg/kg	1	04/16/14	04/16/14 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA11531

(2) Prep QC Batch: MP27111

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-4 (8-10)	<b>Date Sampled:</b> 04/14/14
<b>Lab Sample ID:</b> FA14182-5	<b>Date Received:</b> 04/15/14
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 78.2
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 2.5	2.5	mg/kg	1	04/23/14 17:30	FN	SW846 3060A/7196A
Solids, Percent	78.2		%	1	04/16/14 16:46	KC	SM19 2540G

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-4 (10-12)		
<b>Lab Sample ID:</b> FA14182-6		<b>Date Sampled:</b> 04/14/14
<b>Matrix:</b> SO - Soil		<b>Date Received:</b> 04/15/14
<b>Method:</b> SW846 8260B		<b>Percent Solids:</b> 82.9
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C097941.D	1	04/15/14	AH	n/a	n/a	VC3925
Run #2	C097957.D	1	04/16/14	AH	n/a	n/a	VC3926

Run #	Initial Weight	Methanol Aliquot
Run #1	6.10 g	
Run #2	4.79 g	100 ul

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.049	0.015	mg/kg	
107-02-8	Acrolein	ND	0.025	0.011	mg/kg	
107-13-1	Acrylonitrile	ND	0.025	0.0077	mg/kg	
71-43-2	Benzene	ND	0.0049	0.00099	mg/kg	
108-86-1	Bromobenzene	ND	0.0049	0.0011	mg/kg	
74-97-5	Bromochloromethane	ND	0.0049	0.0019	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0049	0.00099	mg/kg	
75-25-2	Bromoform	ND	0.0049	0.0011	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0049	0.00099	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0049	0.00099	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0049	0.00099	mg/kg	
108-90-7	Chlorobenzene	ND	0.0049	0.00099	mg/kg	
75-00-3	Chloroethane	ND	0.0049	0.0022	mg/kg	
67-66-3	Chloroform	0.0015	0.0049	0.0011	mg/kg	J
95-49-8	o-Chlorotoluene	ND	0.0049	0.00099	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0049	0.00099	mg/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	0.025	0.0099	mg/kg	
75-15-0	Carbon disulfide	ND	0.0049	0.00099	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0049	0.0014	mg/kg	
75-34-3	1,1-Dichloroethane	0.0259	0.0049	0.00099	mg/kg	
75-35-4	1,1-Dichloroethylene	0.0088	0.0049	0.00099	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0049	0.0011	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0049	0.0021	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0049	0.0018	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0049	0.00099	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.0049	0.00099	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0049	0.00099	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0049	0.0014	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0049	0.00099	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0049	0.0012	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	0.0114	0.0049	0.00099	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0049	0.00099	mg/kg	

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b> SB-4 (10-12)	<b>Date Sampled:</b> 04/14/14
<b>Lab Sample ID:</b> FA14182-6	<b>Date Received:</b> 04/15/14
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 82.9
<b>Method:</b> SW846 8260B	
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%	108%	75-124%
2037-26-5	Toluene-D8	100%	96%	75-126%
460-00-4	4-Bromofluorobenzene	99%	101%	71-133%
17060-07-0	1,2-Dichloroethane-D4	118%	106%	72-135%

(a) Result is from Run# 2

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b> SB-4 (10-12)	
<b>Lab Sample ID:</b> FA14182-6	<b>Date Sampled:</b> 04/14/14
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 04/15/14
	<b>Percent Solids:</b> 82.9
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

### Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 0.45	0.45	mg/kg	1	04/16/14	04/16/14 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>
Cadmium	< 0.18	0.18	mg/kg	1	04/16/14	04/16/14 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>
Lead	4.2	0.90	mg/kg	1	04/16/14	04/16/14 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>
Zinc	3.9	0.90	mg/kg	1	04/16/14	04/16/14 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA11531

(2) Prep QC Batch: MP27111

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-4 (10-12)	<b>Date Sampled:</b> 04/14/14
<b>Lab Sample ID:</b> FA14182-6	<b>Date Received:</b> 04/15/14
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 82.9
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 2.4	2.4	mg/kg	1	04/23/14 17:30	FN	SW846 3060A/7196A
Solids, Percent	82.9		%	1	04/17/14 13:26	KC	SM19 2540G

RL = Reporting Limit

## Misc. Forms

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### Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody



**ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION**

ACCUTEST'S JOB NUMBER: FA14182 CLIENT: PANGGAK PROJECT: CESSNA  
 DATE/TIME RECEIVED: 4-15-14 07:30 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 1  
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER  
 AIRBILL NUMBERS: 8055 3263 8584

**COOLER INFORMATION**

- CUSTODY SEAL NOT PRESENT OR NOT INTACT
- CHAIN OF CUSTODY NOT RECEIVED (COC)
- ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- TEMPERATURE CRITERIA NOT MET
- WET ICE PRESENT

**TRIP BLANK INFORMATION**

- TRIP BLANK PROVIDED
- TRIP BLANK NOT PROVIDED
- TRIP BLANK NOT ON COC
- TRIP BLANK INTACT
- TRIP BLANK NOT INTACT
- RECEIVED WATER TRIP BLANK
- RECEIVED SOIL TRIP BLANK

**MISC. INFORMATION**

NUMBER OF ENCORES? 25-GRAM 5-GRAM  
 NUMBER OF 5035 FIELD KITS? 6  
 NUMBER OF LAB FILTERED METALS? \_\_\_\_\_

**TEMPERATURE INFORMATION**

IR THERM ID 1 CORR. FACTOR -0.4  
 OBSERVED TEMPS: 4.4  
 CORRECTED TEMPS: 4.0

**SAMPLE INFORMATION**

- SAMPLE LABELS PRESENT ON ALL BOTTLES
- INCORRECT NUMBER OF CONTAINERS USED
- SAMPLE RECEIVED IMPROPERLY PRESERVED
- INSUFFICIENT VOLUME FOR ANALYSIS
- DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- ID'S ON COC DO NOT MATCH LABEL
- VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- SAMPLE CONTAINER(S) RECEIVED BROKEN
- % SOLIDS JAR NOT RECEIVED
- 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

TECHNICIAN SIGNATURE/DATE [Signature] 4-15-14 REVIEWER SIGNATURE/DATE [Signature] 04/15/14  
 NF 12/10 receipt confirmation 122910.xls

00260

01000

**FedEx** Package Express **US Airbill**

Tracking Number **8055 3263 8584**

**1 From**

Date 4/11/11

Sender's Name MARY GRACE Phone 407 425-6700

Company Pathway CMO

Address 4405 VINELAND RD STE C15 Dept./Floor/Suite/Room

City ORLANDO State FL ZIP 32811

**2 Your Internal Billing Reference**

**3 To**

Recipient's Name SAMPLE RECEIVING Phone 407 425-6700

Company ACCUTEST LABORATORIES SE, INC

Address 4405 VINELAND RD STE C15 Dept./Floor/Suite/Room

Address 4405 VINELAND RD STE C15 Dept./Floor/Suite/Room

City ORLANDO State FL ZIP 32811-9902



**Recipient's Copy**

**4 Express Package Service** To select location, NOTE: Service order has changed. Please select carefully.

**Next Business Day**

FedEx First Overnight Earliest next business morning delivery to select locations. Priority shipments will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx Priority Overnight Next business morning. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx Standard Overnight Next business afternoon. Saturday Delivery NOT available.

**2 or 3 Business Days**

FedEx 2Day A.M. Second business morning. Saturday Delivery NOT available.

FedEx 2Day Second business afternoon. Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx Express Saver Third business day. Saturday Delivery NOT available.

**5 Packaging** \* Declared value limit \$500.

FedEx Envelope\*  FedEx Pak\*  FedEx Box  FedEx Tube  Other

**6 Special Handling and Delivery Signature Options**

SATURDAY Delivery NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

No Signature Required Signature may be left without obtaining a signature for delivery.

Direct Signature Signature of recipient's address may sign for delivery. Fee applies.

Indirect Signature If no one is available at recipient's address, someone at neighboring address may sign for delivery. For residential addresses only. Fee applies.

**Does this shipment contain dangerous goods?** One box must be checked.

No  Yes See attached Shipper's Declaration. Signature not required.

Dry Ice See instructions.

Cargo Aircraft Only

**7 Payment: Bill to:** Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No.

Shipper  Recipient  Third Party  Credit Card  Cash/Check

Total Packages 1 Total Weight 1.00 lbs. Credit Card Acct. 6111

\*Our liability is limited to USD100 unless you declare a higher value. See the current FedEx Service Guide for details.

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## GC/MS Volatiles

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### QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

## Method Blank Summary

**Job Number:** FA14182  
**Account:** PSGAWO Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC3925-MB	C097935.D	1	04/15/14	AH	n/a	n/a	VC3925

The QC reported here applies to the following samples:

Method: SW846 8260B

FA14182-1, FA14182-2, FA14182-3, FA14182-4, FA14182-5, FA14182-6

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	15	ug/kg	
107-02-8	Acrolein	ND	25	11	ug/kg	
107-13-1	Acrylonitrile	ND	25	7.8	ug/kg	
71-43-2	Benzene	ND	5.0	1.0	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.1	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.9	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.0	ug/kg	
75-25-2	Bromoform	ND	5.0	1.1	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.3	ug/kg	
67-66-3	Chloroform	ND	5.0	1.1	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.0	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	1.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.1	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.1	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.4	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	1.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.3	ug/kg	



## Method Blank Summary

**Job Number:** FA14182  
**Account:** PSGAWO Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC3925-MB	C097935.D	1	04/15/14	AH	n/a	n/a	VC3925

The QC reported here applies to the following samples:

Method: SW846 8260B

FA14182-1, FA14182-2, FA14182-3, FA14182-4, FA14182-5, FA14182-6

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
591-78-6	2-Hexanone	ND	25	4.9	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.0	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	1.9	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	1.2	ug/kg	
75-09-2	Methylene chloride	4.3	10	4.0	ug/kg	J
78-93-3	Methyl ethyl ketone	ND	25	7.5	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.0	ug/kg	
100-42-5	Styrene	ND	5.0	1.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.6	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.2	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.9	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.2	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.3	ug/kg	
108-88-3	Toluene	ND	5.0	1.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/kg	
108-05-4	Vinyl Acetate	ND	25	8.0	ug/kg	
	m,p-Xylene	ND	10	1.6	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.1	ug/kg	

## Method Blank Summary

**Job Number:** FA14182  
**Account:** PSGAWO Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC3925-MB	C097935.D	1	04/15/14	AH	n/a	n/a	VC3925

The QC reported here applies to the following samples:

Method: SW846 8260B

FA14182-1, FA14182-2, FA14182-3, FA14182-4, FA14182-5, FA14182-6

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	108% 75-124%
2037-26-5	Toluene-D8	98% 75-126%
460-00-4	4-Bromofluorobenzene	100% 71-133%
17060-07-0	1,2-Dichloroethane-D4	107% 72-135%

5.1.1  
5

## Method Blank Summary

**Job Number:** FA14182  
**Account:** PSGAWO Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC3926-MB	C097955.D	1	04/16/14	AH	n/a	n/a	VC3926

The QC reported here applies to the following samples:

Method: SW846 8260B

FA14182-5, FA14182-6

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	ND	5.0	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	109%	75-124%
2037-26-5	Toluene-D8	98%	75-126%
460-00-4	4-Bromofluorobenzene	99%	71-133%
17060-07-0	1,2-Dichloroethane-D4	104%	72-135%

## Blank Spike Summary

**Job Number:** FA14182  
**Account:** PSGAWO Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC3925-BS	C097934.D	1	04/15/14	AH	n/a	n/a	VC3925

The QC reported here applies to the following samples:

Method: SW846 8260B

FA14182-1, FA14182-2, FA14182-3, FA14182-4, FA14182-5, FA14182-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	296	118	61-152
107-02-8	Acrolein	250	264	106	48-178
107-13-1	Acrylonitrile	250	263	105	66-134
71-43-2	Benzene	50	59.8	120	76-126
108-86-1	Bromobenzene	50	52.6	105	76-122
74-97-5	Bromochloromethane	50	52.8	106	77-120
75-27-4	Bromodichloromethane	50	55.3	111	74-130
75-25-2	Bromoform	50	49.8	100	76-127
104-51-8	n-Butylbenzene	50	46.8	94	71-128
135-98-8	sec-Butylbenzene	50	55.2	110	79-135
98-06-6	tert-Butylbenzene	50	54.5	109	77-133
108-90-7	Chlorobenzene	50	56.5	113	81-129
75-00-3	Chloroethane	50	55.9	112	68-133
67-66-3	Chloroform	50	54.6	109	72-123
95-49-8	o-Chlorotoluene	50	51.3	103	77-129
106-43-4	p-Chlorotoluene	50	55.1	110	80-134
110-75-8	2-Chloroethyl vinyl ether	250	239	96	45-159
75-15-0	Carbon disulfide	50	59.1	118	72-122
56-23-5	Carbon tetrachloride	50	52.1	104	78-133
75-34-3	1,1-Dichloroethane	50	56.8	114	73-125
75-35-4	1,1-Dichloroethylene	50	57.3	115	81-136
563-58-6	1,1-Dichloropropene	50	58.6	117	75-130
96-12-8	1,2-Dibromo-3-chloropropane	50	50.9	102	70-137
106-93-4	1,2-Dibromoethane	50	55.5	111	77-126
107-06-2	1,2-Dichloroethane	50	57.5	115	74-128
78-87-5	1,2-Dichloropropane	50	58.1	116	74-125
142-28-9	1,3-Dichloropropane	50	56.9	114	76-122
594-20-7	2,2-Dichloropropane	50	52.1	104	77-133
124-48-1	Dibromochloromethane	50	54.3	109	76-127
75-71-8	Dichlorodifluoromethane	50	49.6	99	68-168
156-59-2	cis-1,2-Dichloroethylene	50	55.6	111	74-126
10061-01-5	cis-1,3-Dichloropropene	50	55.0	110	80-123
541-73-1	m-Dichlorobenzene	50	56.1	112	81-129
95-50-1	o-Dichlorobenzene	50	52.9	106	80-129
106-46-7	p-Dichlorobenzene	50	49.7	99	76-130
156-60-5	trans-1,2-Dichloroethylene	50	54.2	108	70-127

\* = Outside of Control Limits.

## Blank Spike Summary

**Job Number:** FA14182  
**Account:** PSGAWO Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC3925-BS	C097934.D	1	04/15/14	AH	n/a	n/a	VC3925

The QC reported here applies to the following samples:

Method: SW846 8260B

FA14182-1, FA14182-2, FA14182-3, FA14182-4, FA14182-5, FA14182-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	59.7	119	75-131
100-41-4	Ethylbenzene	50	54.7	109	77-123
591-78-6	2-Hexanone	250	267	107	72-133
87-68-3	Hexachlorobutadiene	50	45.1	90	74-136
98-82-8	Isopropylbenzene	50	57.4	115	80-136
99-87-6	p-Isopropyltoluene	50	52.9	106	77-131
108-10-1	4-Methyl-2-pentanone	250	270	108	76-132
74-83-9	Methyl bromide	50	59.7	119	65-139
74-87-3	Methyl chloride	50	53.3	107	71-144
74-95-3	Methylene bromide	50	56.0	112	74-124
75-09-2	Methylene chloride	50	59.3	119	74-137
78-93-3	Methyl ethyl ketone	250	267	107	75-137
1634-04-4	Methyl Tert Butyl Ether	50	52.0	104	77-120
91-20-3	Naphthalene	50	50.7	101	79-129
103-65-1	n-Propylbenzene	50	59.0	118	80-135
100-42-5	Styrene	50	53.5	107	78-125
630-20-6	1,1,1,2-Tetrachloroethane	50	54.7	109	78-126
71-55-6	1,1,1-Trichloroethane	50	53.4	107	70-129
79-34-5	1,1,2,2-Tetrachloroethane	50	55.6	111	71-126
79-00-5	1,1,2-Trichloroethane	50	56.9	114	74-124
87-61-6	1,2,3-Trichlorobenzene	50	45.3	91	77-128
96-18-4	1,2,3-Trichloropropane	50	55.6	111	74-127
120-82-1	1,2,4-Trichlorobenzene	50	45.3	91	78-130
95-63-6	1,2,4-Trimethylbenzene	50	52.7	105	74-123
108-67-8	1,3,5-Trimethylbenzene	50	53.0	106	73-122
127-18-4	Tetrachloroethylene	50	52.1	104	79-130
108-88-3	Toluene	50	54.7	109	76-124
79-01-6	Trichloroethylene	50	55.7	111	75-128
75-69-4	Trichlorofluoromethane	50	48.1	96	73-145
75-01-4	Vinyl chloride	50	50.5	101	76-141
108-05-4	Vinyl Acetate	250	340	136	48-164
	m,p-Xylene	100	105	105	80-128
95-47-6	o-Xylene	50	55.6	111	80-132

\* = Outside of Control Limits.

## Blank Spike Summary

**Job Number:** FA14182  
**Account:** PSGAWO Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC3925-BS	C097934.D	1	04/15/14	AH	n/a	n/a	VC3925

The QC reported here applies to the following samples:

Method: SW846 8260B

FA14182-1, FA14182-2, FA14182-3, FA14182-4, FA14182-5, FA14182-6

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	75-124%
2037-26-5	Toluene-D8	103%	75-126%
460-00-4	4-Bromofluorobenzene	102%	71-133%
17060-07-0	1,2-Dichloroethane-D4	101%	72-135%

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** FA14182  
**Account:** PSGAWO Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC3926-BS	C097954.D	1	04/16/14	AH	n/a	n/a	VC3926

The QC reported here applies to the following samples:

Method: SW846 8260B

FA14182-5, FA14182-6

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
79-01-6	Trichloroethylene	50	57.2	114	75-128

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	75-124%
2037-26-5	Toluene-D8	103%	75-126%
460-00-4	4-Bromofluorobenzene	100%	71-133%
17060-07-0	1,2-Dichloroethane-D4	102%	72-135%

\* = Outside of Control Limits.

5.2.2  
 5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA14182  
**Account:** PSGAWO Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA14182-2MS	C097942.D	1	04/15/14	AH	n/a	n/a	VC3925
FA14182-2MSD	C097943.D	1	04/15/14	AH	n/a	n/a	VC3925
FA14182-2	C097937.D	1	04/15/14	AH	n/a	n/a	VC3925
FA14182-2	C097944.D	1	04/15/14	AH	n/a	n/a	VC3925

The QC reported here applies to the following samples:

Method: SW846 8260B

FA14182-1, FA14182-2, FA14182-3, FA14182-4, FA14182-5, FA14182-6

CAS No.	Compound	FA14182-2 ug/kg	Spike Q	ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	62.7		332	376	94	306	332	88	12	61-152/27
107-02-8	Acrolein	ND		332	204	61	306	158	52	25	48-178/37
107-13-1	Acrylonitrile	ND		332	337	101	306	284	93	17	66-134/26
71-43-2	Benzene	ND		66.5	67.6	102	61.2	58.4	95	15	76-126/26
108-86-1	Bromobenzene	ND		66.5	51.5	77	61.2	40.8	67*	23	76-122/32
74-97-5	Bromochloromethane	ND		66.5	61.6	93	61.2	56.0	92	10	77-120/24
75-27-4	Bromodichloromethane	ND		66.5	63.3	95	61.2	55.2	90	14	74-130/25
75-25-2	Bromoform	ND		66.5	53.9	81	61.2	46.4	76	15	76-127/26
104-51-8	n-Butylbenzene	ND		66.5	34.2	51*	61.2	28.3	46*	19	71-128/35
135-98-8	sec-Butylbenzene	ND		66.5	44.9	68*	61.2	36.5	60*	21	79-135/34
98-06-6	tert-Butylbenzene	ND		66.5	49.0	74*	61.2	39.9	65*	20	77-133/34
108-90-7	Chlorobenzene	ND		66.5	56.4	85	61.2	46.5	76*	19	81-129/29
75-00-3	Chloroethane	ND		66.5	65.9	99	61.2	59.7	98	10	68-133/29
67-66-3	Chloroform	ND		66.5	63.8	96	61.2	56.1	92	13	72-123/26
95-49-8	o-Chlorotoluene	ND		66.5	46.8	70*	61.2	38.1	62*	20	77-129/33
106-43-4	p-Chlorotoluene	ND		66.5	48.2	73*	61.2	38.6	63*	22	80-134/33
110-75-8	2-Chloroethyl vinyl ether	ND		332	222	67	306	136	44*	48*	45-159/26
75-15-0	Carbon disulfide	1.2	J	66.5	64.4	95	61.2	59.1	95	9	72-122/29
56-23-5	Carbon tetrachloride	ND		66.5	58.4	88	61.2	50.6	83	14	78-133/29
75-34-3	1,1-Dichloroethane	1.7	J	66.5	66.4	97	61.2	58.7	93	12	73-125/27
75-35-4	1,1-Dichloroethylene	1.3	J	66.5	64.1	94	61.2	58.1	93	10	81-136/28
563-58-6	1,1-Dichloropropene	ND		66.5	62.2	94	61.2	53.7	88	15	75-130/28
96-12-8	1,2-Dibromo-3-chloropropane	ND		66.5	53.9	81	61.2	47.0	77	14	70-137/29
106-93-4	1,2-Dibromoethane	ND		66.5	59.0	89	61.2	51.5	84	14	77-126/26
107-06-2	1,2-Dichloroethane	ND		66.5	70.3	106	61.2	60.6	99	15	74-128/23
78-87-5	1,2-Dichloropropane	ND		66.5	65.7	99	61.2	58.0	95	12	74-125/25
142-28-9	1,3-Dichloropropane	ND		66.5	62.8	94	61.2	54.6	89	14	76-122/26
594-20-7	2,2-Dichloropropane	ND		66.5	53.8	81	61.2	52.3	85	3	77-133/28
124-48-1	Dibromochloromethane	ND		66.5	59.3	89	61.2	50.5	83	16	76-127/27
75-71-8	Dichlorodifluoromethane	ND		66.5	52.9	80	61.2	49.1	80	7	68-168/29
156-59-2	cis-1,2-Dichloroethylene	63.1		66.5	91.2	42*	61.2	84.3	35*	8	74-126/26
10061-01-5	cis-1,3-Dichloropropene	ND		66.5	61.2	92	61.2	53.2	87	14	80-123/26
541-73-1	m-Dichlorobenzene	ND		66.5	45.9	69*	61.2	36.1	59*	24	81-129/33
95-50-1	o-Dichlorobenzene	ND		66.5	44.3	67*	61.2	35.1	57*	23	80-129/32
106-46-7	p-Dichlorobenzene	ND		66.5	41.4	62*	61.2	32.8	54*	23	76-130/32
156-60-5	trans-1,2-Dichloroethylene	1.8	J	66.5	60.9	89	61.2	53.9	85	12	70-127/27

\* = Outside of Control Limits.

5.3.1  
 5



# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA14182  
**Account:** PSGAWO Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA14182-2MS	C097942.D	1	04/15/14	AH	n/a	n/a	VC3925
FA14182-2MSD	C097943.D	1	04/15/14	AH	n/a	n/a	VC3925
FA14182-2	C097937.D	1	04/15/14	AH	n/a	n/a	VC3925
FA14182-2	C097944.D	1	04/15/14	AH	n/a	n/a	VC3925

The QC reported here applies to the following samples:

Method: SW846 8260B

FA14182-1, FA14182-2, FA14182-3, FA14182-4, FA14182-5, FA14182-6

CAS No.	Compound	FA14182-2 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND	66.5	64.4	97	61.2	55.0	90	16	75-131/28
100-41-4	Ethylbenzene	ND	66.5	54.0	81	61.2	45.8	75*	16	77-123/31
591-78-6	2-Hexanone	ND	332	308	93	306	281	92	9	72-133/26
87-68-3	Hexachlorobutadiene	ND	66.5	23.5	35*	61.2	20.2	33*	15	74-136/38
98-82-8	Isopropylbenzene	ND	66.5	53.0	80	61.2	45.0	74*	16	80-136/32
99-87-6	p-Isopropyltoluene	ND	66.5	42.1	63*	61.2	34.8	57*	19	77-131/34
108-10-1	4-Methyl-2-pentanone	ND	332	329	99	306	302	99	9	76-132/26
74-83-9	Methyl bromide	ND	66.5	66.1	99	61.2	64.1	105	3	65-139/31
74-87-3	Methyl chloride	ND	66.5	58.3	88	61.2	52.8	86	10	71-144/27
74-95-3	Methylene bromide	ND	66.5	64.3	97	61.2	57.2	93	12	74-124/24
75-09-2	Methylene chloride	ND	66.5	68.3	103	61.2	61.1	100	11	74-137/28
78-93-3	Methyl ethyl ketone	ND	332	337	101	306	284	93	17	75-137/25
1634-04-4	Methyl Tert Butyl Ether	ND	66.5	67.1	101	61.2	59.1	97	13	77-120/24
91-20-3	Naphthalene	ND	66.5	35.5	53*	61.2	27.5	45*	25	79-129/33
103-65-1	n-Propylbenzene	ND	66.5	52.2	79*	61.2	42.5	69*	20	80-135/33
100-42-5	Styrene	ND	66.5	47.9	72*	61.2	37.0	60*	26	78-125/30
630-20-6	1,1,1,2-Tetrachloroethane	ND	66.5	59.1	89	61.2	50.4	82	16	78-126/27
71-55-6	1,1,1-Trichloroethane	ND	66.5	61.0	92	61.2	52.7	86	15	70-129/27
79-34-5	1,1,2,2-Tetrachloroethane	ND	66.5	62.5	94	61.2	53.8	88	15	71-126/30
79-00-5	1,1,2-Trichloroethane	ND	66.5	64.2	97	61.2	56.5	92	13	74-124/28
87-61-6	1,2,3-Trichlorobenzene	ND	66.5	29.2	44*	61.2	22.3	36*	27	77-128/35
96-18-4	1,2,3-Trichloropropane	ND	66.5	63.8	96	61.2	54.0	88	17	74-127/27
120-82-1	1,2,4-Trichlorobenzene	ND	66.5	28.3	43*	61.2	21.7	35*	26	78-130/34
95-63-6	1,2,4-Trimethylbenzene	ND	66.5	47.2	71*	61.2	38.8	63*	20	74-123/34
108-67-8	1,3,5-Trimethylbenzene	ND	66.5	48.4	73	61.2	40.0	65*	19	73-122/33
127-18-4	Tetrachloroethylene	ND	66.5	50.7	76*	61.2	41.7	68*	19	79-130/31
108-88-3	Toluene	ND	66.5	57.2	86	61.2	48.9	80	16	76-124/30
79-01-6	Trichloroethylene	8410 <sup>b</sup>	66.5	590	-11763*	61.2	657	-12672*	11	75-128/27
75-69-4	Trichlorofluoromethane	ND	66.5	54.8	82	61.2	50.3	82	9	73-145/31
75-01-4	Vinyl chloride	ND	66.5	54.5	82	61.2	52.0	85	5	76-141/27
108-05-4	Vinyl Acetate	ND	332	277	83	306	160	52	54*	48-164/37
	m,p-Xylene	ND	133	103	77*	122	86.1	70*	18	80-128/30
95-47-6	o-Xylene	ND	66.5	54.5	82	61.2	46.8	76*	15	80-132/30

\* = Outside of Control Limits.

5.3.1  
 5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA14182  
**Account:** PSGAWO Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA14182-2MS	C097942.D	1	04/15/14	AH	n/a	n/a	VC3925
FA14182-2MSD	C097943.D	1	04/15/14	AH	n/a	n/a	VC3925
FA14182-2	C097937.D	1	04/15/14	AH	n/a	n/a	VC3925
FA14182-2	C097944.D	1	04/15/14	AH	n/a	n/a	VC3925

The QC reported here applies to the following samples:

Method: SW846 8260B

FA14182-1, FA14182-2, FA14182-3, FA14182-4, FA14182-5, FA14182-6

CAS No.	Surrogate Recoveries	MS	MSD	FA14182-2	FA14182-2	Limits
1868-53-7	Dibromofluoromethane	104%	102%	109%	108%	75-124%
2037-26-5	Toluene-D8	102%	102%	98%	99%	75-126%
460-00-4	4-Bromofluorobenzene	102%	101%	99%	103%	71-133%
17060-07-0	1,2-Dichloroethane-D4	105%	102%	117%	108%	72-135%

(a) Outside control limits due to high level in sample relative to spike amount.

(b) Result is from Run #2.

\* = Outside of Control Limits.

5.3.1  
 5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA14182  
**Account:** PSGAWO Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA14182-5MS	C097966.D	1	04/16/14	AH	n/a	n/a	VC3926
FA14182-5MSD	C097967.D	1	04/16/14	AH	n/a	n/a	VC3926
FA14182-5	C097956.D	1	04/16/14	AH	n/a	n/a	VC3926

The QC reported here applies to the following samples:

Method: SW846 8260B

FA14182-5, FA14182-6

CAS No.	Compound	FA14182-5 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
79-01-6	Trichloroethylene	6550	3200	9090	79	3200	9080	79	0	75-128/27

CAS No.	Surrogate Recoveries	MS	MSD	FA14182-5	Limits
1868-53-7	Dibromofluoromethane	98%	98%	108%	75-124%
2037-26-5	Toluene-D8	102%	101%	99%	75-126%
460-00-4	4-Bromofluorobenzene	102%	104%	102%	71-133%
17060-07-0	1,2-Dichloroethane-D4	94%	94%	106%	72-135%

\* = Outside of Control Limits.

5.3.2  
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## Metals Analysis

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### QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY  
Part 2 - Method Blanks

Login Number: FA14182  
Account: PSGAWO - Pangean-CMD Associates, Inc  
Project: Cessna Facility; 4800 Cargo Dr, Columbus, GA

QC Batch ID: MP27111  
Matrix Type: SOLID

Methods: SW846 6010C  
Units: mg/kg

Prep Date: 04/16/14

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	.75	1.6		
Antimony	1.0	.1	.1		
Arsenic	0.50	.1	.1	-0.065	<0.50
Barium	10	.05	.05		
Beryllium	0.25	.025	.025		
Cadmium	0.20	.025	.025	-0.0050	<0.20
Calcium	250	2.5	2.5		
Chromium	0.50	.05	.05		
Cobalt	2.5	.025	.025		
Copper	1.3	.05	.05		
Iron	15	.85	1.3		
Lead	1.0	.055	.08	-0.040	<1.0
Magnesium	250	2.5	2.5		
Manganese	0.75	.025	.025		
Molybdenum	2.5	.025	.03		
Nickel	2.0	.025	.025		
Potassium	500	10	10		
Selenium	1.0	.12	.15		
Silver	0.50	.033	.033		
Sodium	500	25	25		
Strontium	0.50	.02	.025		
Thallium	0.50	.075	.075		
Tin	2.5	.035	.035		
Titanium	0.50	.045	.045		
Vanadium	2.5	.025	.025		
Zinc	1.0	.15	.15	0.12	<1.0

Associated samples MP27111: FA14182-1, FA14182-2, FA14182-3, FA14182-4, FA14182-5, FA14182-6

Results < IDL are shown as zero for calculation purposes  
(\* ) Outside of QC limits  
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA14182  
 Account: PSGAWO - Pangean-CMD Associates, Inc  
 Project: Cessna Facility; 4800 Cargo Dr, Columbus, GA

QC Batch ID: MP27111  
 Matrix Type: SOLID

Methods: SW846 6010C  
 Units: mg/kg

Prep Date: 04/16/14 04/16/14

Metal	FA14177-2 Original	DUP	RPD	QC Limits	FA14177-2 Original MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum								
Antimony								
Arsenic	3.7	3.6	2.7	0-20	3.7	76.1	95.9	75.5N(a) 80-120
Barium	anr							
Beryllium								
Cadmium	0.0	0.0	NC	0-20	0.0	1.9	2.4	79.3N(a) 80-120
Calcium								
Chromium	anr							
Cobalt								
Copper	anr							
Iron	anr							
Lead	8.4	8.6	2.4	0-20	8.4	31.2	24	95.1 80-120
Magnesium								
Manganese								
Molybdenum								
Nickel	anr							
Potassium								
Selenium								
Silver								
Sodium								
Strontium								
Thallium								
Tin								
Titanium								
Vanadium								
Zinc	25.5	25.7	0.8	0-20	25.5	42.8	24	72.2N(a) 80-120

Associated samples MP27111: FA14182-1, FA14182-2, FA14182-3, FA14182-4, FA14182-5, FA14182-6

Results < IDL are shown as zero for calculation purposes

(\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA14182  
 Account: PSGAWO - Pangean-CMD Associates, Inc  
 Project: Cessna Facility; 4800 Cargo Dr, Columbus, GA

QC Batch ID: MP27111  
 Matrix Type: SOLID

Methods: SW846 6010C  
 Units: mg/kg

Prep Date: 04/16/14

Metal	FA14177-2 Original MSD		Spike/lot MPFLICP2 % Rec	MSD RPD	QC Limit
Aluminum					
Antimony					
Arsenic	3.7	101	124	78.4N(a)	28.1 (b) 20
Barium	anr				
Beryllium					
Cadmium	0.0	2.5	3.1	80.6	27.3 (b) 20
Calcium					
Chromium	anr				
Cobalt					
Copper	anr				
Iron	anr				
Lead	8.4	36.8	31	91.5	16.5 20
Magnesium					
Manganese					
Molybdenum					
Nickel	anr				
Potassium					
Selenium					
Silver					
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Vanadium					
Zinc	25.5	50.9	31	81.9	17.3 20

Associated samples MP27111: FA14182-1, FA14182-2, FA14182-3, FA14182-4, FA14182-5, FA14182-6

Results < IDL are shown as zero for calculation purposes

(\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

(b) High RPD due to possible sample non-homogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA14182  
 Account: PSGAWO - Pangean-CMD Associates, Inc  
 Project: Cessna Facility; 4800 Cargo Dr, Columbus, GA

QC Batch ID: MP27111  
 Matrix Type: SOLID

Methods: SW846 6010C  
 Units: mg/kg

Prep Date: 04/16/14

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	99.7	100	99.7	80-120
Barium	anr			
Beryllium				
Cadmium	2.5	2.5	100.0	80-120
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron	anr			
Lead	24.3	25	97.2	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	25.4	25	101.6	80-120

Associated samples MP27111: FA14182-1, FA14182-2, FA14182-3, FA14182-4, FA14182-5, FA14182-6

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (anr) Analyte not requested



SERIAL DILUTION RESULTS SUMMARY

Login Number: FA14182  
 Account: PSGAWO - Pangean-CMD Associates, Inc  
 Project: Cessna Facility; 4800 Cargo Dr, Columbus, GA

QC Batch ID: MP27111  
 Matrix Type: SOLID

Methods: SW846 6010C  
 Units: ug/l

Prep Date: 04/16/14

Metal	FA14177-2 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	71.8	93.5	30.2 (a)	0-10
Barium	anr			
Beryllium				
Cadmium	0.00	0.00	NC	0-10
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron	anr			
Lead	161	175	8.8	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	492	629	28.0*(b)	0-10

Associated samples MP27111: FA14182-1, FA14182-2, FA14182-3, FA14182-4, FA14182-5, FA14182-6

Results < IDL are shown as zero for calculation purposes

(\*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

(b) Serial dilution indicates possible matrix interference.

POST DIGESTATE SPIKE SUMMARY

Login Number: FA14182  
 Account: PSGAWO - Pangean-CMD Associates, Inc  
 Project: Cessna Facility; 4800 Cargo Dr, Columbus, GA

QC Batch ID: MP27111  
 Matrix Type: SOLID

Methods: SW846 6010C  
 Units: ug/l

Prep Date:

04/16/14

Metal	Sample ml	Final ml	FA14177-2 Raw	PS Corr.** ug/l	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic	9.8	10	71.8	70.364	154.7	0.2	5	100	84.3	80-120
Barium										
Beryllium										
Cadmium	9.8	10			41.4	0.2	2.5	50	82.8	80-120
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead	9.8	10	161	157.78	207.7	0.2	2.5	50	99.8	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc	9.8	10	491.7	481.866	684.1	0.2	12.5	250	80.9	80-120

Associated samples MP27111: FA14182-1, FA14182-2, FA14182-3, FA14182-4, FA14182-5, FA14182-6

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (\*\*) Corr. sample result = Raw \* (sample volume / final volume)  
 (anr) Analyte not requested

## General Chemistry

---

### QC Data Summaries

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Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: FA14182  
Account: PSGAWO - Pangean-CMD Associates, Inc  
Project: Cessna Facility; 4800 Cargo Dr, Columbus, GA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chromium, Hexavalent	GN61178	2.0	0.0	mg/kg	20.0	20.0	100.1	75-125%

Associated Samples:

Batch GN61178: FA14182-1, FA14182-2, FA14182-3, FA14182-4, FA14182-5, FA14182-6

(\*) Outside of QC limits

7.1  
7

DUPLICATE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: FA14182  
Account: PSGAWO - Pangean-CMD Associates, Inc  
Project: Cessna Facility; 4800 Cargo Dr, Columbus, GA

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chromium, Hexavalent	GN61178	FA14182-1	mg/kg	0.0	0.0	0.0	0-20%
Solids, Percent	GN61033	FA14179-1	%	85.5	85	0.6	0-5%
Solids, Percent	GN61056	FA14155-1	%	89.4	89.4	0.0	0-5%
Solids, Percent	GN61066	FA14042-2	%	73.5	73.2	0.4	0-5%
Solids, Percent	GN61069	FA14250-1	%	88.6	90.4	2.0	0-5%

Associated Samples:

Batch GN61033: FA14182-2

Batch GN61056: FA14182-5

Batch GN61066: FA14182-6

Batch GN61069: FA14182-1, FA14182-3, FA14182-4

Batch GN61178: FA14182-1, FA14182-2, FA14182-3, FA14182-4, FA14182-5, FA14182-6

(\*) Outside of QC limits

7.2  
7

MATRIX SPIKE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: FA14182  
Account: PSGAWO - Pangean-CMD Associates, Inc  
Project: Cessna Facility; 4800 Cargo Dr, Columbus, GA

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chromium, Hexavalent	GN61178	FA14182-1	mg/kg	0.0	652.4	968	148.4*(a)	75-125%
Chromium, Hexavalent	GN61178	FA14182-1	mg/kg	0.0	21.9	22.1	100.9	75-125%

Associated Samples:

Batch GN61178: FA14182-1, FA14182-2, FA14182-3, FA14182-4, FA14182-5, FA14182-6

(\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(a) Spike recovery indicates possible matrix interference.

7.3

7



Reissue #1  
04/25/14

Technical Report for

Pangean-CMD Associates, Inc

Cessna Facility; 4800 Cargo Dr, Columbus, GA

Accutest Job Number: FA14205

Sampling Date: 04/15/14

Report to:

Pangean-CMD Associates, Inc

rstevens@pangean-cmd.com  
dbass@pangean-cmd.com; mreid@pangean-cmd.com  
ATTN: Richard Stevens

Total number of pages in report: **51**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

*Harry Behzadi*  
Harry Behzadi, Ph.D.  
Laboratory Director

Client Service contact: Muna Mohammed 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001)  
DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), PA (68-03573), VA (460177),  
AK, AR, GA, KY, MA, NV, OK, UT, WA

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Test results relate only to samples analyzed.



April 25, 2014

Mr. Richard Stevens  
Pangean-CMD  
9874 Main St  
Suite 100  
Woodstock, GA 30188

RE: Accutest job FA14205 Reissue

Dear Mr. Stevens,

The final report for job number FA14205 has been edited to reflect requested corrections. These edits have been incorporated into the revised report.

The sample ID has been revised.

Accutest apologies for any inconvenience this may have caused. Please feel free to contact us if we can be of further assistance.

Sincerely,

Accutest Laboratories, SE



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## Sample Summary

Pangean-CMD Associates, Inc

**Job No:** FA14205

Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
FA14205-1	04/15/14	12:20 MG	04/16/14	SO	Soil	SB-5 (10-12)
FA14205-2	04/15/14	12:40 MG	04/16/14	SO	Soil	SB-5 (12-14)
FA14205-3	04/15/14	13:10 MG	04/16/14	SO	Soil	SB-6 (4-6)
FA14205-4	04/15/14	14:50 MG	04/16/14	SO	Soil	SB-7 (8-10)

---

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

## Summary of Hits

**Job Number:** FA14205  
**Account:** Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA  
**Collected:** 04/15/14

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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**FA14205-1 SB-5 (10-12)**

Acetone	0.0184 J	0.043	0.013	mg/kg	SW846 8260B
Chloroform	0.0017 J	0.0043	0.00097	mg/kg	SW846 8260B
1,1-Dichloroethane	0.0656	0.0043	0.00086	mg/kg	SW846 8260B
1,1-Dichloroethylene	0.0575	0.0043	0.00086	mg/kg	SW846 8260B
cis-1,2-Dichloroethylene	0.0141	0.0043	0.00086	mg/kg	SW846 8260B
trans-1,2-Dichloroethylene	0.0022 J	0.0043	0.0012	mg/kg	SW846 8260B
Trichloroethylene	4.81	0.26	0.052	mg/kg	SW846 8260B
Arsenic	0.60	0.55		mg/kg	SW846 6010C
Lead	9.1	1.1		mg/kg	SW846 6010C
Zinc	7.8	1.1		mg/kg	SW846 6010C

**FA14205-2 SB-5 (12-14)**

1,1-Dichloroethane <sup>a</sup>	0.0244	0.0082	0.0016	mg/kg	SW846 8260B
1,1-Dichloroethylene <sup>a</sup>	0.0052 J	0.0082	0.0016	mg/kg	SW846 8260B
cis-1,2-Dichloroethylene <sup>a</sup>	0.0052 J	0.0082	0.0016	mg/kg	SW846 8260B
Trichloroethylene	1.52	0.29	0.059	mg/kg	SW846 8260B
Lead	6.6	1.1		mg/kg	SW846 6010C
Zinc <sup>b</sup>	8.5	2.2		mg/kg	SW846 6010C

**FA14205-3 SB-6 (4-6)**

Trichloroethylene	0.0357	0.0048	0.00098	mg/kg	SW846 8260B
Lead	6.3	1.1		mg/kg	SW846 6010C
Zinc <sup>b</sup>	14.4	5.3		mg/kg	SW846 6010C

**FA14205-4 SB-7 (8-10)**

Lead	6.2	0.87		mg/kg	SW846 6010C
Zinc <sup>b</sup>	5.1	3.5		mg/kg	SW846 6010C

- (a) Sample was prepared from a bulk container.
- (b) Elevated reporting limit(s) due to matrix interference.

Sample Results

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Report of Analysis

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## Report of Analysis

<b>Client Sample ID:</b> SB-5 (10-12)		<b>Date Sampled:</b> 04/15/14
<b>Lab Sample ID:</b> FA14205-1		<b>Date Received:</b> 04/16/14
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 82.2
<b>Method:</b> SW846 8260B		
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y13605.D	1	04/16/14	EP	n/a	n/a	VY611
Run #2	Y13612.D	1	04/16/14	EP	n/a	n/a	VY611

Run #	Initial Weight	Methanol Aliquot
Run #1	7.08 g	
Run #2	7.54 g	100 ul

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	0.0184	0.043	0.013	mg/kg	J
107-02-8	Acrolein	ND	0.021	0.0093	mg/kg	
107-13-1	Acrylonitrile	ND	0.021	0.0067	mg/kg	
71-43-2	Benzene	ND	0.0043	0.00086	mg/kg	
108-86-1	Bromobenzene	ND	0.0043	0.00094	mg/kg	
74-97-5	Bromochloromethane	ND	0.0043	0.0016	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0043	0.00086	mg/kg	
75-25-2	Bromoform	ND	0.0043	0.00093	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0043	0.00086	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0043	0.00086	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0043	0.00086	mg/kg	
108-90-7	Chlorobenzene	ND	0.0043	0.00086	mg/kg	
75-00-3	Chloroethane	ND	0.0043	0.0019	mg/kg	
67-66-3	Chloroform	0.0017	0.0043	0.00097	mg/kg	J
95-49-8	o-Chlorotoluene	ND	0.0043	0.00086	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0043	0.00086	mg/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	0.021	0.0086	mg/kg	
75-15-0	Carbon disulfide	ND	0.0043	0.00086	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0043	0.0012	mg/kg	
75-34-3	1,1-Dichloroethane	0.0656	0.0043	0.00086	mg/kg	
75-35-4	1,1-Dichloroethylene	0.0575	0.0043	0.00086	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0043	0.00095	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0043	0.0018	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0043	0.0015	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0043	0.00086	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.0043	0.00086	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0043	0.00086	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0043	0.0012	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0043	0.00086	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0043	0.0011	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	0.0141	0.0043	0.00086	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0043	0.00086	mg/kg	

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b> SB-5 (10-12)	
<b>Lab Sample ID:</b> FA14205-1	<b>Date Sampled:</b> 04/15/14
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 04/16/14
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 82.2
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

### VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%	89%	75-124%
2037-26-5	Toluene-D8	91%	89%	75-126%
460-00-4	4-Bromofluorobenzene	99%	98%	71-133%
17060-07-0	1,2-Dichloroethane-D4	86%	89%	72-135%

(a) Result is from Run# 2

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-5 (10-12)	<b>Date Sampled:</b> 04/15/14
<b>Lab Sample ID:</b> FA14205-1	<b>Date Received:</b> 04/16/14
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 82.2
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

### Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	0.60	0.55	mg/kg	1	04/16/14	04/17/14 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>
Cadmium	< 0.22	0.22	mg/kg	1	04/16/14	04/17/14 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>
Lead	9.1	1.1	mg/kg	1	04/16/14	04/17/14 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>
Zinc	7.8	1.1	mg/kg	1	04/16/14	04/17/14 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA11535

(2) Prep QC Batch: MP27116

RL = Reporting Limit



## Report of Analysis

<b>Client Sample ID:</b> SB-5 (10-12)	<b>Date Sampled:</b> 04/15/14
<b>Lab Sample ID:</b> FA14205-1	<b>Date Received:</b> 04/16/14
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 82.2
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 2.4	2.4	mg/kg	1	04/23/14 17:30	FN	SW846 3060A/7196A
Solids, Percent	82.2		%	1	04/17/14 13:26	KC	SM19 2540G

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-5 (12-14)	
<b>Lab Sample ID:</b> FA14205-2	<b>Date Sampled:</b> 04/15/14
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 04/16/14
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 84.7
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	Y13614.D	1	04/16/14	EP	n/a	n/a	VY611
Run #2	Y13615.D	1	04/16/14	EP	n/a	n/a	VY611

	Initial Weight	Methanol Aliquot
Run #1	3.59 g	
Run #2	6.01 g	100 ul

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.082	0.025	mg/kg	
107-02-8	Acrolein	ND	0.041	0.018	mg/kg	
107-13-1	Acrylonitrile	ND	0.041	0.013	mg/kg	
71-43-2	Benzene	ND	0.0082	0.0016	mg/kg	
108-86-1	Bromobenzene	ND	0.0082	0.0018	mg/kg	
74-97-5	Bromochloromethane	ND	0.0082	0.0032	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0082	0.0016	mg/kg	
75-25-2	Bromoform	ND	0.0082	0.0018	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0082	0.0016	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0082	0.0016	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0082	0.0016	mg/kg	
108-90-7	Chlorobenzene	ND	0.0082	0.0016	mg/kg	
75-00-3	Chloroethane	ND	0.0082	0.0037	mg/kg	
67-66-3	Chloroform	ND	0.0082	0.0019	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0082	0.0016	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0082	0.0016	mg/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	0.041	0.016	mg/kg	
75-15-0	Carbon disulfide	ND	0.0082	0.0016	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0082	0.0023	mg/kg	
75-34-3	1,1-Dichloroethane	0.0244	0.0082	0.0016	mg/kg	
75-35-4	1,1-Dichloroethylene	0.0052	0.0082	0.0016	mg/kg	J
563-58-6	1,1-Dichloropropene	ND	0.0082	0.0018	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0082	0.0035	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0082	0.0029	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0082	0.0016	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.0082	0.0016	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0082	0.0016	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0082	0.0023	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0082	0.0016	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0082	0.0021	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	0.0052	0.0082	0.0016	mg/kg	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.0082	0.0016	mg/kg	

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	SB-5 (12-14)	<b>Date Sampled:</b>	04/15/14
<b>Lab Sample ID:</b>	FA14205-2	<b>Date Received:</b>	04/16/14
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	84.7
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	Cessna Facility; 4800 Cargo Dr, Columbus, GA		

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	0.0082	0.0016	mg/kg	
95-50-1	o-Dichlorobenzene	ND	0.0082	0.0016	mg/kg	
106-46-7	p-Dichlorobenzene	ND	0.0082	0.0018	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	0.0082	0.0022	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0082	0.0016	mg/kg	
100-41-4	Ethylbenzene	ND	0.0082	0.0016	mg/kg	
591-78-6	2-Hexanone	ND	0.041	0.0081	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.0082	0.0017	mg/kg	
98-82-8	Isopropylbenzene	ND	0.0082	0.0016	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.0082	0.0016	mg/kg	
108-10-1	4-Methyl-2-pentanone	ND	0.041	0.0082	mg/kg	
74-83-9	Methyl bromide	ND	0.0082	0.0031	mg/kg	
74-87-3	Methyl chloride	ND	0.0082	0.0033	mg/kg	
74-95-3	Methylene bromide	ND	0.0082	0.0019	mg/kg	
75-09-2	Methylene chloride	ND	0.016	0.0066	mg/kg	
78-93-3	Methyl ethyl ketone	ND	0.041	0.012	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0082	0.0016	mg/kg	
91-20-3	Naphthalene	ND	0.0082	0.0033	mg/kg	
103-65-1	n-Propylbenzene	ND	0.0082	0.0016	mg/kg	
100-42-5	Styrene	ND	0.0082	0.0016	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0082	0.0017	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0082	0.0016	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0082	0.0023	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0082	0.0026	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0082	0.0020	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0082	0.0031	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0082	0.0019	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0082	0.0016	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0082	0.0016	mg/kg	
127-18-4	Tetrachloroethylene	ND	0.0082	0.0021	mg/kg	
108-88-3	Toluene	ND	0.0082	0.0016	mg/kg	
79-01-6	Trichloroethylene	1.52 <sup>b</sup>	0.29	0.059	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0082	0.0016	mg/kg	
75-01-4	Vinyl chloride	ND	0.0082	0.0017	mg/kg	
108-05-4	Vinyl Acetate	ND	0.041	0.013	mg/kg	
	m,p-Xylene	ND	0.016	0.0026	mg/kg	
95-47-6	o-Xylene	ND	0.0082	0.0018	mg/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-5 (12-14)	
<b>Lab Sample ID:</b> FA14205-2	<b>Date Sampled:</b> 04/15/14
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 04/16/14
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 84.7
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%	89%	75-124%
2037-26-5	Toluene-D8	88%	90%	75-126%
460-00-4	4-Bromofluorobenzene	100%	99%	71-133%
17060-07-0	1,2-Dichloroethane-D4	91%	87%	72-135%

- (a) Sample was prepared from a bulk container.
- (b) Result is from Run# 2

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-5 (12-14)	<b>Date Sampled:</b> 04/15/14
<b>Lab Sample ID:</b> FA14205-2	<b>Date Received:</b> 04/16/14
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 84.7
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

### Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic <sup>a</sup>	< 1.1	1.1	mg/kg	2	04/16/14	04/18/14 LM	SW846 6010C <sup>2</sup>	SW846 3050B <sup>3</sup>
Cadmium <sup>a</sup>	< 0.44	0.44	mg/kg	2	04/16/14	04/18/14 LM	SW846 6010C <sup>2</sup>	SW846 3050B <sup>3</sup>
Lead	6.6	1.1	mg/kg	1	04/16/14	04/17/14 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Zinc <sup>a</sup>	8.5	2.2	mg/kg	2	04/16/14	04/18/14 LM	SW846 6010C <sup>2</sup>	SW846 3050B <sup>3</sup>

(1) Instrument QC Batch: MA11535

(2) Instrument QC Batch: MA11538

(3) Prep QC Batch: MP27116

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-5 (12-14)	<b>Date Sampled:</b> 04/15/14
<b>Lab Sample ID:</b> FA14205-2	<b>Date Received:</b> 04/16/14
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 84.7
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 2.4	2.4	mg/kg	1	04/23/14 17:30	FN	SW846 3060A/7196A
Solids, Percent	84.7		%	1	04/17/14 13:26	KC	SM19 2540G

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-6 (4-6)		<b>Date Sampled:</b> 04/15/14
<b>Lab Sample ID:</b> FA14205-3		<b>Date Received:</b> 04/16/14
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 85.4
<b>Method:</b> SW846 8260B		
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y13607.D	1	04/16/14	EP	n/a	n/a	VY611
Run #2 <sup>a</sup>	Y13711.D	1	04/22/14	AH	n/a	n/a	VY616

Run #	Initial Weight
Run #1	6.09 g
Run #2	5.67 g

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.048	0.014	mg/kg	
107-02-8	Acrolein	ND	0.024	0.010	mg/kg	
107-13-1	Acrylonitrile	ND	0.024	0.0075	mg/kg	
71-43-2	Benzene	ND	0.0048	0.00096	mg/kg	
108-86-1	Bromobenzene	ND	0.0048	0.0010	mg/kg	
74-97-5	Bromochloromethane	ND	0.0048	0.0018	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0048	0.00096	mg/kg	
75-25-2	Bromoform	ND	0.0048	0.0010	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0048	0.00096	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0048	0.00096	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0048	0.00096	mg/kg	
108-90-7	Chlorobenzene	ND	0.0048	0.00096	mg/kg	
75-00-3	Chloroethane	ND	0.0048	0.0022	mg/kg	
67-66-3	Chloroform	ND	0.0048	0.0011	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0048	0.00096	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0048	0.00096	mg/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	0.024	0.0096	mg/kg	
75-15-0	Carbon disulfide	ND	0.0048	0.00096	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0048	0.0013	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0048	0.00096	mg/kg	
75-35-4	1,1-Dichloroethylene	ND	0.0048	0.00096	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0048	0.0011	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0048	0.0020	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0048	0.0017	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0048	0.00096	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.0048	0.00096	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0048	0.00096	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0048	0.0014	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0048	0.00096	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0048	0.0012	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	0.0048	0.00096	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0048	0.00096	mg/kg	

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound





## Report of Analysis

<b>Client Sample ID:</b> SB-6 (4-6)	
<b>Lab Sample ID:</b> FA14205-3	<b>Date Sampled:</b> 04/15/14
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 04/16/14
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 85.4
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

### VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%	95%	75-124%
2037-26-5	Toluene-D8	88%	86%	75-126%
460-00-4	4-Bromofluorobenzene	98%	99%	71-133%
17060-07-0	1,2-Dichloroethane-D4	84%	93%	72-135%

(a) Confirmation run.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-6 (4-6)		<b>Date Sampled:</b> 04/15/14
<b>Lab Sample ID:</b> FA14205-3		<b>Date Received:</b> 04/16/14
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 85.4
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA		

### Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic <sup>a</sup>	< 2.6	2.6	mg/kg	5	04/16/14	04/18/14 LM	SW846 6010C <sup>2</sup>	SW846 3050B <sup>3</sup>
Cadmium <sup>a</sup>	< 1.1	1.1	mg/kg	5	04/16/14	04/18/14 LM	SW846 6010C <sup>2</sup>	SW846 3050B <sup>3</sup>
Lead	6.3	1.1	mg/kg	1	04/16/14	04/17/14 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Zinc <sup>a</sup>	14.4	5.3	mg/kg	5	04/16/14	04/18/14 LM	SW846 6010C <sup>2</sup>	SW846 3050B <sup>3</sup>

(1) Instrument QC Batch: MA11535

(2) Instrument QC Batch: MA11538

(3) Prep QC Batch: MP27116

(a) Elevated reporting limit(s) due to matrix interference.

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RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-6 (4-6)	<b>Date Sampled:</b> 04/15/14
<b>Lab Sample ID:</b> FA14205-3	<b>Date Received:</b> 04/16/14
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 85.4
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 2.3	2.3	mg/kg	1	04/23/14 17:30	FN	SW846 3060A/7196A
Solids, Percent	85.4		%	1	04/17/14 13:26	KC	SM19 2540G

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-7 (8-10)		<b>Date Sampled:</b> 04/15/14
<b>Lab Sample ID:</b> FA14205-4		<b>Date Received:</b> 04/16/14
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 90.9
<b>Method:</b> SW846 8260B		
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y13608.D	1	04/16/14	EP	n/a	n/a	VY611
Run #2							

Run #1	Initial Weight
Run #1	5.87 g
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.047	0.014	mg/kg	
107-02-8	Acrolein	ND	0.023	0.010	mg/kg	
107-13-1	Acrylonitrile	ND	0.023	0.0073	mg/kg	
71-43-2	Benzene	ND	0.0047	0.00094	mg/kg	
108-86-1	Bromobenzene	ND	0.0047	0.0010	mg/kg	
74-97-5	Bromochloromethane	ND	0.0047	0.0018	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0047	0.00094	mg/kg	
75-25-2	Bromoform	ND	0.0047	0.0010	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0047	0.00094	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0047	0.00094	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0047	0.00094	mg/kg	
108-90-7	Chlorobenzene	ND	0.0047	0.00094	mg/kg	
75-00-3	Chloroethane	ND	0.0047	0.0021	mg/kg	
67-66-3	Chloroform	ND	0.0047	0.0011	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0047	0.00094	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0047	0.00094	mg/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	0.023	0.0094	mg/kg	
75-15-0	Carbon disulfide	ND	0.0047	0.00094	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0047	0.0013	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0047	0.00094	mg/kg	
75-35-4	1,1-Dichloroethylene	ND	0.0047	0.00094	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0047	0.0010	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0047	0.0020	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0047	0.0017	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0047	0.00094	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.0047	0.00094	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0047	0.00094	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0047	0.0013	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0047	0.00094	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0047	0.0012	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	0.0047	0.00094	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0047	0.00094	mg/kg	

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-7 (8-10)	
<b>Lab Sample ID:</b> FA14205-4	<b>Date Sampled:</b> 04/15/14
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 04/16/14
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 90.9
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	0.0047	0.00094	mg/kg	
95-50-1	o-Dichlorobenzene	ND	0.0047	0.00094	mg/kg	
106-46-7	p-Dichlorobenzene	ND	0.0047	0.0010	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	0.0047	0.0013	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0047	0.00094	mg/kg	
100-41-4	Ethylbenzene	ND	0.0047	0.00094	mg/kg	
591-78-6	2-Hexanone	ND	0.023	0.0046	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.0047	0.00095	mg/kg	
98-82-8	Isopropylbenzene	ND	0.0047	0.00094	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.0047	0.00094	mg/kg	
108-10-1	4-Methyl-2-pentanone	ND	0.023	0.0047	mg/kg	
74-83-9	Methyl bromide	ND	0.0047	0.0018	mg/kg	
74-87-3	Methyl chloride	ND	0.0047	0.0019	mg/kg	
74-95-3	Methylene bromide	ND	0.0047	0.0011	mg/kg	
75-09-2	Methylene chloride	ND	0.0094	0.0037	mg/kg	
78-93-3	Methyl ethyl ketone	ND	0.023	0.0070	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0047	0.00094	mg/kg	
91-20-3	Naphthalene	ND	0.0047	0.0019	mg/kg	
103-65-1	n-Propylbenzene	ND	0.0047	0.00094	mg/kg	
100-42-5	Styrene	ND	0.0047	0.00094	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0047	0.00098	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0047	0.00094	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0047	0.0013	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0047	0.0015	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0047	0.0011	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0047	0.0018	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0047	0.0011	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0047	0.00094	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0047	0.00094	mg/kg	
127-18-4	Tetrachloroethylene	ND	0.0047	0.0012	mg/kg	
108-88-3	Toluene	ND	0.0047	0.00094	mg/kg	
79-01-6	Trichloroethylene	ND	0.0047	0.00096	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0047	0.00094	mg/kg	
75-01-4	Vinyl chloride	ND	0.0047	0.00096	mg/kg	
108-05-4	Vinyl Acetate	ND	0.023	0.0075	mg/kg	
	m,p-Xylene	ND	0.0094	0.0015	mg/kg	
95-47-6	o-Xylene	ND	0.0047	0.0010	mg/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

3.4  
3

<b>Client Sample ID:</b> SB-7 (8-10)		<b>Date Sampled:</b> 04/15/14
<b>Lab Sample ID:</b> FA14205-4		<b>Date Received:</b> 04/16/14
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 90.9
<b>Method:</b> SW846 8260B		
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA		

**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		75-124%
2037-26-5	Toluene-D8	89%		75-126%
460-00-4	4-Bromofluorobenzene	101%		71-133%
17060-07-0	1,2-Dichloroethane-D4	84%		72-135%

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> SB-7 (8-10)	<b>Date Sampled:</b> 04/15/14
<b>Lab Sample ID:</b> FA14205-4	<b>Date Received:</b> 04/16/14
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 90.9
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

### Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic <sup>a</sup>	< 1.7	1.7	mg/kg	4	04/16/14	04/18/14 LM	SW846 6010C <sup>2</sup>	SW846 3050B <sup>3</sup>
Cadmium <sup>a</sup>	< 0.69	0.69	mg/kg	4	04/16/14	04/18/14 LM	SW846 6010C <sup>2</sup>	SW846 3050B <sup>3</sup>
Lead	6.2	0.87	mg/kg	1	04/16/14	04/17/14 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Zinc <sup>a</sup>	5.1	3.5	mg/kg	4	04/16/14	04/18/14 LM	SW846 6010C <sup>2</sup>	SW846 3050B <sup>3</sup>

(1) Instrument QC Batch: MA11535

(2) Instrument QC Batch: MA11538

(3) Prep QC Batch: MP27116

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> SB-7 (8-10)	<b>Date Sampled:</b> 04/15/14
<b>Lab Sample ID:</b> FA14205-4	<b>Date Received:</b> 04/16/14
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 90.9
<b>Project:</b> Cessna Facility; 4800 Cargo Dr, Columbus, GA	

### General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 2.2	2.2	mg/kg	1	04/23/14 17:30	FN	SW846 3060A/7196A
Solids, Percent	90.9		%	1	04/17/14 13:26	KC	SM19 2540G

RL = Reporting Limit



## Misc. Forms

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### Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody



# ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA14205 CLIENT: Pantheon PROJECT: Cess Wk  
 DATE/TIME RECEIVED: 04-16-14 930 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 1  
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER  
 AIRBILL NUMBERS: 8055 32638562

### COOLER INFORMATION

- CUSTODY SEAL NOT PRESENT OR NOT INTACT
- CHAIN OF CUSTODY NOT RECEIVED (COC)
- ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- TEMPERATURE CRITERIA NOT MET
- WET ICE PRESENT

### TRIP BLANK INFORMATION

- TRIP BLANK PROVIDED
- TRIP BLANK NOT PROVIDED
- TRIP BLANK NOT ON COC
- TRIP BLANK INTACT
- TRIP BLANK NOT INTACT
- RECEIVED WATER TRIP BLANK
- RECEIVED SOIL TRIP BLANK

### MISC. INFORMATION

NUMBER OF ENCORES? 25-GRAM 5-GRAM  
 NUMBER OF 5035 FIELD KITS? 4  
 NUMBER OF LAB FILTERED METALS? \_\_\_\_\_

### TEMPERATURE INFORMATION

IR THERM ID 1 CORR. FACTOR -0.4  
 OBSERVED TEMPS: 2.6  
 CORRECTED TEMPS: 2.2

### SAMPLE INFORMATION

- SAMPLE LABELS PRESENT ON ALL BOTTLES
- INCORRECT NUMBER OF CONTAINERS USED
- SAMPLE RECEIVED IMPROPERLY PRESERVED
- INSUFFICIENT VOLUME FOR ANALYSIS
- DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- ID'S ON COC DO NOT MATCH LABEL
- VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- SAMPLE CONTAINER(S) RECEIVED BROKEN
- % SOLIDS JAR NOT RECEIVED
- 5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
- RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

TECHNICIAN SIGNATURE/DATE [Signature] 04/16/14 REVIEWER SIGNATURE/DATE [Signature] 04/16/14  
 NF 12/10 receipt confirmation 122910.xls

FedEx Package Express US Airbill

FedEx Tracking Number 8055 3263 8562

Recipient's Copy

1 From  
 Date 4/15/14  
 Sender's Name MARY WAGE Phone 770 928 8383  
 Company Pangean-CMD  
 Address 9374 Main St Ste 100  
 City Woodstock State GA ZIP 30183

2 Your Internal Billing Reference  
 3 To  
 Recipient's Name SAMPLE RECEIVING Phone 407 425-6700  
 Company ACCUTEST LABORATORIES SE, INC

Address 4405 VINELAND RD STE C15  
 City ORLANDO State FL ZIP 32811-5803



0114059202

4 Express Package Service \* To meet business needs. Packages up to 150 lbs. NOTE: Service order has changed. Please select carefully. For packages over 100 lbs, use the FedEx Express People Kit Kit.

Next Business Day  
 FedEx First Overnight  
 FedEx Priority Overnight  
 FedEx Standard Overnight

2 or 3 Business Days  
 FedEx 2Day A.M.  
 FedEx 2Day  
 FedEx Express Saver

5 Packaging \* Declared value \$500.  
 FedEx Envelope\*  FedEx Pak\*  FedEx Box  FedEx Tube  Other

6 Special Handling and Delivery Signature Options  
 SATURDAY Delivery  
 No Signature Required  
 Direct Signature  
 Indirect Signature  
 Signature Required

Does this shipment contain dangerous goods?  
 No  Yes  
 Dry Ice  Cargo Aircraft Only

7 Payment Bill to:  
 Sender  Recipient  Third Party  Credit Card  Cash/Check

Total Packages 1 Total Weight 3.2 lbs  
 150 lbs liability is limited to US\$100 unless you declare a higher value. See the current FedEx Service Guide for details.



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## GC/MS Volatiles

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### QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

## Method Blank Summary

**Job Number:** FA14205  
**Account:** PSGAWO Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY611-MB	Y13604.D	1	04/16/14	EP	n/a	n/a	VY611

The QC reported here applies to the following samples:

Method: SW846 8260B

FA14205-1, FA14205-2, FA14205-3, FA14205-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	15	ug/kg	
107-02-8	Acrolein	ND	25	11	ug/kg	
107-13-1	Acrylonitrile	ND	25	7.8	ug/kg	
71-43-2	Benzene	ND	5.0	1.0	ug/kg	
108-86-1	Bromobenzene	ND	5.0	1.1	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.9	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.0	ug/kg	
75-25-2	Bromoform	ND	5.0	1.1	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	1.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	1.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	1.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.3	ug/kg	
67-66-3	Chloroform	ND	5.0	1.1	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	1.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	1.0	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	1.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	1.1	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.1	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	1.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	1.4	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	1.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.3	ug/kg	

## Method Blank Summary

**Job Number:** FA14205  
**Account:** PSGAWO Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY611-MB	Y13604.D	1	04/16/14	EP	n/a	n/a	VY611

The QC reported here applies to the following samples:

Method: SW846 8260B

FA14205-1, FA14205-2, FA14205-3, FA14205-4

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
591-78-6	2-Hexanone	ND	25	4.9	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	1.0	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.0	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	1.9	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	1.2	ug/kg	
75-09-2	Methylene chloride	ND	10	4.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	7.5	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	1.0	ug/kg	
100-42-5	Styrene	ND	5.0	1.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.6	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.2	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.9	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.2	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	1.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.3	ug/kg	
108-88-3	Toluene	ND	5.0	1.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/kg	
108-05-4	Vinyl Acetate	ND	25	8.0	ug/kg	
	m,p-Xylene	ND	10	1.6	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.1	ug/kg	

## Method Blank Summary

**Job Number:** FA14205  
**Account:** PSGAWO Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY611-MB	Y13604.D	1	04/16/14	EP	n/a	n/a	VY611

The QC reported here applies to the following samples:

Method: SW846 8260B

FA14205-1, FA14205-2, FA14205-3, FA14205-4

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	87% 75-124%
2037-26-5	Toluene-D8	90% 75-126%
460-00-4	4-Bromofluorobenzene	98% 71-133%
17060-07-0	1,2-Dichloroethane-D4	85% 72-135%

5.1.1  
5



# Blank Spike Summary

**Job Number:** FA14205  
**Account:** PSGAWO Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY611-BS	Y13603.D	1	04/16/14	EP	n/a	n/a	VY611

The QC reported here applies to the following samples:

Method: SW846 8260B

FA14205-1, FA14205-2, FA14205-3, FA14205-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	234	94	61-152
107-02-8	Acrolein	250	239	96	48-178
107-13-1	Acrylonitrile	250	254	102	66-134
71-43-2	Benzene	50	54.6	109	76-126
108-86-1	Bromobenzene	50	52.9	106	76-122
74-97-5	Bromochloromethane	50	51.4	103	77-120
75-27-4	Bromodichloromethane	50	54.2	108	74-130
75-25-2	Bromoform	50	53.4	107	76-127
104-51-8	n-Butylbenzene	50	51.0	102	71-128
135-98-8	sec-Butylbenzene	50	57.0	114	79-135
98-06-6	tert-Butylbenzene	50	55.1	110	77-133
108-90-7	Chlorobenzene	50	55.8	112	81-129
75-00-3	Chloroethane	50	64.7	129	68-133
67-66-3	Chloroform	50	53.0	106	72-123
95-49-8	o-Chlorotoluene	50	55.2	110	77-129
106-43-4	p-Chlorotoluene	50	55.2	110	80-134
110-75-8	2-Chloroethyl vinyl ether	250	259	104	45-159
75-15-0	Carbon disulfide	50	48.9	98	72-122
56-23-5	Carbon tetrachloride	50	52.1	104	78-133
75-34-3	1,1-Dichloroethane	50	52.6	105	73-125
75-35-4	1,1-Dichloroethylene	50	50.9	102	81-136
563-58-6	1,1-Dichloropropene	50	55.5	111	75-130
96-12-8	1,2-Dibromo-3-chloropropane	50	51.5	103	70-137
106-93-4	1,2-Dibromoethane	50	52.8	106	77-126
107-06-2	1,2-Dichloroethane	50	51.3	103	74-128
78-87-5	1,2-Dichloropropane	50	55.6	111	74-125
142-28-9	1,3-Dichloropropane	50	52.3	105	76-122
594-20-7	2,2-Dichloropropane	50	58.0	116	77-133
124-48-1	Dibromochloromethane	50	52.7	105	76-127
75-71-8	Dichlorodifluoromethane	50	60.4	121	68-168
156-59-2	cis-1,2-Dichloroethylene	50	54.3	109	74-126
10061-01-5	cis-1,3-Dichloropropene	50	53.9	108	80-123
541-73-1	m-Dichlorobenzene	50	55.9	112	81-129
95-50-1	o-Dichlorobenzene	50	55.2	110	80-129
106-46-7	p-Dichlorobenzene	50	51.2	102	76-130
156-60-5	trans-1,2-Dichloroethylene	50	52.9	106	70-127

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** FA14205  
**Account:** PSGAWO Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY611-BS	Y13603.D	1	04/16/14	EP	n/a	n/a	VY611

The QC reported here applies to the following samples:

Method: SW846 8260B

FA14205-1, FA14205-2, FA14205-3, FA14205-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	56.2	112	75-131
100-41-4	Ethylbenzene	50	51.9	104	77-123
591-78-6	2-Hexanone	250	234	94	72-133
87-68-3	Hexachlorobutadiene	50	50.9	102	74-136
98-82-8	Isopropylbenzene	50	56.8	114	80-136
99-87-6	p-Isopropyltoluene	50	56.2	112	77-131
108-10-1	4-Methyl-2-pentanone	250	242	97	76-132
74-83-9	Methyl bromide	50	63.9	128	65-139
74-87-3	Methyl chloride	50	53.9	108	71-144
74-95-3	Methylene bromide	50	53.3	107	74-124
75-09-2	Methylene chloride	50	50.4	101	74-137
78-93-3	Methyl ethyl ketone	250	236	94	75-137
1634-04-4	Methyl Tert Butyl Ether	50	51.1	102	77-120
91-20-3	Naphthalene	50	50.6	101	79-129
103-65-1	n-Propylbenzene	50	56.3	113	80-135
100-42-5	Styrene	50	53.3	107	78-125
630-20-6	1,1,1,2-Tetrachloroethane	50	54.0	108	78-126
71-55-6	1,1,1-Trichloroethane	50	55.3	111	70-129
79-34-5	1,1,2,2-Tetrachloroethane	50	53.0	106	71-126
79-00-5	1,1,2-Trichloroethane	50	52.2	104	74-124
87-61-6	1,2,3-Trichlorobenzene	50	49.0	98	77-128
96-18-4	1,2,3-Trichloropropane	50	51.9	104	74-127
120-82-1	1,2,4-Trichlorobenzene	50	48.5	97	78-130
95-63-6	1,2,4-Trimethylbenzene	50	51.7	103	74-123
108-67-8	1,3,5-Trimethylbenzene	50	51.3	103	73-122
127-18-4	Tetrachloroethylene	50	51.4	103	79-130
108-88-3	Toluene	50	51.9	104	76-124
79-01-6	Trichloroethylene	50	53.3	107	75-128
75-69-4	Trichlorofluoromethane	50	53.4	107	73-145
75-01-4	Vinyl chloride	50	56.6	113	76-141
108-05-4	Vinyl Acetate	250	172	69	48-164
	m,p-Xylene	100	108	108	80-128
95-47-6	o-Xylene	50	56.0	112	80-132

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** FA14205  
**Account:** PSGAWO Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY611-BS	Y13603.D	1	04/16/14	EP	n/a	n/a	VY611

The QC reported here applies to the following samples:

Method: SW846 8260B

FA14205-1, FA14205-2, FA14205-3, FA14205-4

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	89%	75-124%
2037-26-5	Toluene-D8	89%	75-126%
460-00-4	4-Bromofluorobenzene	95%	71-133%
17060-07-0	1,2-Dichloroethane-D4	81%	72-135%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA14205  
**Account:** PSGAWO Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA14205-2MS	Y13610.D	1	04/16/14	EP	n/a	n/a	VY611
FA14205-2MSD	Y13611.D	1	04/16/14	EP	n/a	n/a	VY611
FA14205-2 <sup>a</sup>	Y13614.D	1	04/16/14	EP	n/a	n/a	VY611
FA14205-2	Y13615.D	1	04/16/14	EP	n/a	n/a	VY611

The QC reported here applies to the following samples:

Method: SW846 8260B

FA14205-1, FA14205-2, FA14205-3, FA14205-4

CAS No.	Compound	FA14205-2 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD	
67-64-1	Acetone	ND		368	265	72	369	267	72	1	61-152/27
107-02-8	Acrolein	ND		368	280	76	369	278	75	1	48-178/37
107-13-1	Acrylonitrile	ND		368	306	83	369	311	84	2	66-134/26
71-43-2	Benzene	ND		73.6	63.5	86	73.8	63.0	85	1	76-126/26
108-86-1	Bromobenzene	ND		73.6	60.3	82	73.8	61.7	84	2	76-122/32
74-97-5	Bromochloromethane	ND		73.6	65.7	89	73.8	63.6	86	3	77-120/24
75-27-4	Bromodichloromethane	ND		73.6	66.5	90	73.8	66.1	90	1	74-130/25
75-25-2	Bromoform	ND		73.6	63.0	86	73.8	63.7	86	1	76-127/26
104-51-8	n-Butylbenzene	ND		73.6	53.8	73	73.8	57.8	78	7	71-128/35
135-98-8	sec-Butylbenzene	ND		73.6	60.2	82	73.8	62.2	84	3	79-135/34
98-06-6	tert-Butylbenzene	ND		73.6	61.0	83	73.8	62.5	85	2	77-133/34
108-90-7	Chlorobenzene	ND		73.6	65.0	88	73.8	64.7	88	0	81-129/29
75-00-3	Chloroethane	ND		73.6	79.0	107	73.8	75.1	102	5	68-133/29
67-66-3	Chloroform	ND		73.6	64.5	88	73.8	63.4	86	2	72-123/26
95-49-8	o-Chlorotoluene	ND		73.6	61.5	84	73.8	62.7	85	2	77-129/33
106-43-4	p-Chlorotoluene	ND		73.6	61.5	84	73.8	62.7	85	2	80-134/33
110-75-8	2-Chloroethyl vinyl ether	ND		368	282	77	369	303	82	7	45-159/26
75-15-0	Carbon disulfide	ND		73.6	60.2	82	73.8	59.3	80	2	72-122/29
56-23-5	Carbon tetrachloride	ND		73.6	62.4	85	73.8	61.3	83	2	78-133/29
75-34-3	1,1-Dichloroethane	24.4		73.6	76.2	70*	73.8	71.4	64*	7	73-125/27
75-35-4	1,1-Dichloroethylene	5.2	J	73.6	65.2	82	73.8	64.2	80*	2	81-136/28
563-58-6	1,1-Dichloropropene	ND		73.6	62.8	85	73.8	63.4	86	1	75-130/28
96-12-8	1,2-Dibromo-3-chloropropane	ND		73.6	61.0	83	73.8	62.8	85	3	70-137/29
106-93-4	1,2-Dibromoethane	ND		73.6	65.4	89	73.8	63.9	87	2	77-126/26
107-06-2	1,2-Dichloroethane	ND		73.6	63.8	87	73.8	63.7	86	0	74-128/23
78-87-5	1,2-Dichloropropane	ND		73.6	65.4	89	73.8	64.6	88	1	74-125/25
142-28-9	1,3-Dichloropropane	ND		73.6	62.1	84	73.8	62.0	84	0	76-122/26
594-20-7	2,2-Dichloropropane	ND		73.6	66.0	90	73.8	64.1	87	3	77-133/28
124-48-1	Dibromochloromethane	ND		73.6	63.7	87	73.8	63.4	86	0	76-127/27
75-71-8	Dichlorodifluoromethane	ND		73.6	68.0	92	73.8	66.3	90	3	68-168/29
156-59-2	cis-1,2-Dichloroethylene	5.2	J	73.6	68.1	85	73.8	66.8	83	2	74-126/26
10061-01-5	cis-1,3-Dichloropropene	ND		73.6	65.4	89	73.8	65.0	88	1	80-123/26
541-73-1	m-Dichlorobenzene	ND		73.6	62.0	84	73.8	64.2	87	3	81-129/33
95-50-1	o-Dichlorobenzene	ND		73.6	62.2	85	73.8	64.7	88	4	80-129/32
106-46-7	p-Dichlorobenzene	ND		73.6	58.3	79	73.8	60.0	81	3	76-130/32
156-60-5	trans-1,2-Dichloroethylene	ND		73.6	62.4	85	73.8	61.5	83	1	70-127/27

\* = Outside of Control Limits.

5.3.1  
 5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA14205  
**Account:** PSGAWO Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA14205-2MS	Y13610.D	1	04/16/14	EP	n/a	n/a	VY611
FA14205-2MSD	Y13611.D	1	04/16/14	EP	n/a	n/a	VY611
FA14205-2 <sup>a</sup>	Y13614.D	1	04/16/14	EP	n/a	n/a	VY611
FA14205-2	Y13615.D	1	04/16/14	EP	n/a	n/a	VY611

The QC reported here applies to the following samples:

Method: SW846 8260B

FA14205-1, FA14205-2, FA14205-3, FA14205-4

CAS No.	Compound	FA14205-2 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND	73.6	67.8	92	73.8	66.3	90	2	75-131/28
100-41-4	Ethylbenzene	ND	73.6	60.5	82	73.8	59.3	80	2	77-123/31
591-78-6	2-Hexanone	ND	368	283	77	369	292	79	3	72-133/26
87-68-3	Hexachlorobutadiene	ND	73.6	44.8	61*	73.8	53.8	73*	18	74-136/38
98-82-8	Isopropylbenzene	ND	73.6	64.6	88	73.8	64.2	87	1	80-136/32
99-87-6	p-Isopropyltoluene	ND	73.6	61.2	83	73.8	62.9	85	3	77-131/34
108-10-1	4-Methyl-2-pentanone	ND	368	298	81	369	304	82	2	76-132/26
74-83-9	Methyl bromide	ND	73.6	77.4	105	73.8	74.4	101	4	65-139/31
74-87-3	Methyl chloride	ND	73.6	60.4	82	73.8	58.7	80	3	71-144/27
74-95-3	Methylene bromide	ND	73.6	66.4	90	73.8	66.6	90	0	74-124/24
75-09-2	Methylene chloride	ND	73.6	61.9	84	73.8	60.3	82	3	74-137/28
78-93-3	Methyl ethyl ketone	ND	368	288	78	369	295	80	2	75-137/25
1634-04-4	Methyl Tert Butyl Ether	ND	73.6	63.9	87	73.8	63.4	86	1	77-120/24
91-20-3	Naphthalene	ND	73.6	53.4	73*	73.8	60.1	81	12	79-129/33
103-65-1	n-Propylbenzene	ND	73.6	62.5	85	73.8	63.0	85	1	80-135/33
100-42-5	Styrene	ND	73.6	61.6	84	73.8	61.7	84	0	78-125/30
630-20-6	1,1,1,2-Tetrachloroethane	ND	73.6	63.6	86	73.8	62.5	85	2	78-126/27
71-55-6	1,1,1-Trichloroethane	ND	73.6	66.6	90	73.8	64.6	88	3	70-129/27
79-34-5	1,1,2,2-Tetrachloroethane	ND	73.6	63.1	86	73.8	63.0	85	0	71-126/30
79-00-5	1,1,2-Trichloroethane	ND	73.6	63.5	86	73.8	62.3	84	2	74-124/28
87-61-6	1,2,3-Trichlorobenzene	ND	73.6	49.1	67*	73.8	57.0	77	15	77-128/35
96-18-4	1,2,3-Trichloropropane	ND	73.6	65.0	88	73.8	64.3	87	1	74-127/27
120-82-1	1,2,4-Trichlorobenzene	ND	73.6	50.5	69*	73.8	58.9	80	15	78-130/34
95-63-6	1,2,4-Trimethylbenzene	ND	73.6	58.6	80	73.8	59.8	81	2	74-123/34
108-67-8	1,3,5-Trimethylbenzene	ND	73.6	57.4	78	73.8	58.5	79	2	73-122/33
127-18-4	Tetrachloroethylene	ND	73.6	57.5	78*	73.8	56.9	77*	1	79-130/31
108-88-3	Toluene	ND	73.6	60.9	83	73.8	59.5	81	2	76-124/30
79-01-6	Trichloroethylene	1520 <sup>c</sup>	73.6	895	-849* <sup>b</sup>	73.8	569	-1289* <sup>b</sup>	45*	75-128/27
75-69-4	Trichlorofluoromethane	ND	73.6	63.8	87	73.8	61.2	83	4	73-145/31
75-01-4	Vinyl chloride	ND	73.6	63.3	86	73.8	61.6	83	3	76-141/27
108-05-4	Vinyl Acetate	ND	368	286	78	369	372	101	26	48-164/37
	m,p-Xylene	ND	147	125	85	148	123	83	2	80-128/30
95-47-6	o-Xylene	ND	73.6	64.2	87	73.8	64.3	87	0	80-132/30

\* = Outside of Control Limits.

5.3.1  
 5

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** FA14205  
**Account:** PSGAWO Pangean-CMD Associates, Inc  
**Project:** Cessna Facility; 4800 Cargo Dr, Columbus, GA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA14205-2MS	Y13610.D	1	04/16/14	EP	n/a	n/a	VY611
FA14205-2MSD	Y13611.D	1	04/16/14	EP	n/a	n/a	VY611
FA14205-2 <sup>a</sup>	Y13614.D	1	04/16/14	EP	n/a	n/a	VY611
FA14205-2	Y13615.D	1	04/16/14	EP	n/a	n/a	VY611

The QC reported here applies to the following samples:

Method: SW846 8260B

FA14205-1, FA14205-2, FA14205-3, FA14205-4

CAS No.	Surrogate Recoveries	MS	MSD	FA14205-2	FA14205-2	Limits
1868-53-7	Dibromofluoromethane	91%	93%	90%	89%	75-124%
2037-26-5	Toluene-D8	90%	89%	88%	90%	75-126%
460-00-4	4-Bromofluorobenzene	94%	96%	100%	99%	71-133%
17060-07-0	1,2-Dichloroethane-D4	87%	86%	91%	87%	72-135%

- (a) Sample was prepared from a bulk container.
- (b) Outside control limits due to high level in sample relative to spike amount.
- (c) Result is from Run #2.

\* = Outside of Control Limits.

5.3.1  
 5

## Metals Analysis

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## QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY  
Part 2 - Method Blanks

Login Number: FA14205  
Account: PSGAWO - Pangean-CMD Associates, Inc  
Project: Cessna Facility; 4800 Cargo Dr, Columbus, GA

QC Batch ID: MP27116  
Matrix Type: SOLID

Methods: SW846 6010C  
Units: mg/kg

Prep Date: 04/16/14

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	.75	1.6		
Antimony	1.0	.1	.1		
Arsenic	0.50	.1	.1	-0.060	<0.50
Barium	10	.05	.05		
Beryllium	0.25	.025	.025		
Cadmium	0.20	.025	.025	-0.0050	<0.20
Calcium	250	2.5	2.5		
Chromium	0.50	.05	.05		
Cobalt	2.5	.025	.025		
Copper	1.3	.05	.05		
Iron	15	.85	1.3		
Lead	1.0	.055	.08	0.0050	<1.0
Magnesium	250	2.5	2.5		
Manganese	0.75	.025	.025		
Molybdenum	2.5	.025	.03		
Nickel	2.0	.025	.025		
Potassium	500	10	10		
Selenium	1.0	.12	.15		
Silver	0.50	.033	.033		
Sodium	500	25	25		
Strontium	0.50	.02	.025		
Thallium	0.50	.075	.075		
Tin	2.5	.035	.035		
Titanium	0.50	.045	.045		
Vanadium	2.5	.025	.025		
Zinc	1.0	.15	.15	0.21	<1.0

Associated samples MP27116: FA14205-1, FA14205-2, FA14205-3, FA14205-4

Results < IDL are shown as zero for calculation purposes  
(\* ) Outside of QC limits  
(anr) Analyte not requested

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MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA14205  
 Account: PSGAWO - Pangean-CMD Associates, Inc  
 Project: Cessna Facility; 4800 Cargo Dr, Columbus, GA

QC Batch ID: MP27116  
 Matrix Type: SOLID

Methods: SW846 6010C  
 Units: mg/kg

Prep Date: 04/16/14 04/16/14

Metal	FA14207-6 Original	DUP	RPD	QC Limits	FA14207-6 Original MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum								
Antimony								
Arsenic	1.8	1.6 (a)	11.8	0-20	1.8	71.0 (a) 119	58.3N(c)	80-120
Barium								
Beryllium								
Cadmium	0.0	0.066(a)	200.0(b)	0-20	0.0	3.0 (a) 2.97	101.1	80-120
Calcium								
Chromium	anr							
Cobalt								
Copper								
Iron								
Lead	25.8	24.4 (a)	5.6	0-20	25.8	58.7 (a) 29.7	110.8	80-120
Magnesium								
Manganese								
Molybdenum								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Strontium								
Thallium								
Tin								
Titanium								
Vanadium								
Zinc	9.2	8.2 (a)	11.5	0-20	9.2	37.6 (a) 29.7	95.7	80-120

Associated samples MP27116: FA14205-1, FA14205-2, FA14205-3, FA14205-4

Results < IDL are shown as zero for calculation purposes

(\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Elevated reporting limit(s) due to matrix interference.

(b) RPD acceptable due to low duplicate and sample concentrations.

(c) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA14205  
 Account: PSGAWO - Pangean-CMD Associates, Inc  
 Project: Cessna Facility; 4800 Cargo Dr, Columbus, GA

QC Batch ID: MP27116  
 Matrix Type: SOLID

Methods: SW846 6010C  
 Units: mg/kg

Prep Date: 04/16/14

Metal	FA14207-6 Original MSD	SpikeLot MPFLICP2 % Rec	MSD RPD	QC Limit
Aluminum				
Antimony				
Arsenic	1.8	59.4 (a) 108	53.1N(b) 17.8	20
Barium				
Beryllium				
Cadmium	0.0	2.6 (a) 2.71	95.9 14.3	20
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron				
Lead	25.8	56.9 (a) 27.1	114.7 3.1	20
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	9.2	34.1 (a) 27.1	91.9 9.8	20

Associated samples MP27116: FA14205-1, FA14205-2, FA14205-3, FA14205-4

Results < IDL are shown as zero for calculation purposes

(\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Elevated reporting limit(s) due to matrix interference.

(b) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA14205  
 Account: PSGAWO - Pangean-CMD Associates, Inc  
 Project: Cessna Facility; 4800 Cargo Dr, Columbus, GA

QC Batch ID: MP27116  
 Matrix Type: SOLID

Methods: SW846 6010C  
 Units: mg/kg

Prep Date: 04/16/14

Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	98.6	100	98.6	80-120
Barium				
Beryllium				
Cadmium	2.5	2.5	100.0	80-120
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron				
Lead	24.1	25	96.4	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	24.9	25	99.6	80-120

Associated samples MP27116: FA14205-1, FA14205-2, FA14205-3, FA14205-4

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA14205  
 Account: PSGAWO - Pangean-CMD Associates, Inc  
 Project: Cessna Facility; 4800 Cargo Dr, Columbus, GA

QC Batch ID: MP27116  
 Matrix Type: SOLID

Methods: SW846 6010C  
 Units: ug/l

Prep Date: 04/16/14

Metal	FA14207-6 Original	SDL 2:10	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	30.6	24.5	19.9 (a)	0-10
Barium				
Beryllium				
Cadmium	0.00	0.00	NC	0-10
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron				
Lead	431	354	17.7*(b)	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	153	150	2.0	0-10

Associated samples MP27116: FA14205-1, FA14205-2, FA14205-3, FA14205-4

Results < IDL are shown as zero for calculation purposes

(\*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

(b) Serial dilution indicates possible matrix interference.

POST DIGESTATE SPIKE SUMMARY

Login Number: FA14205  
 Account: PSGAWO - Pangean-CMD Associates, Inc  
 Project: Cessna Facility; 4800 Cargo Dr, Columbus, GA

QC Batch ID: MP27116  
 Matrix Type: SOLID

Methods: SW846 6010C  
 Units: ug/l

Prep Date:

04/16/14

Metal	Sample ml	Final ml	FA14207-6 Raw	PS Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic	9.8	10	30.6	29.988	126.8	0.2	5	100	96.8	80-120
Barium										
Beryllium										
Cadmium	9.8	10			49.9	0.2	2.5	50	99.8	80-120
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead	9.8	10	430.5	421.89	475.4	0.2	2.5	50	107.0	80-120
Magnesium										
Manganese										
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc	9.8	10	153.4	150.332	394.8	0.2	12.5	250	97.8	80-120

Associated samples MP27116: FA14205-1, FA14205-2, FA14205-3, FA14205-4

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (\*\*) Corr. sample result = Raw \* (sample volume / final volume)  
 (anr) Analyte not requested

## General Chemistry

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### QC Data Summaries

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Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: FA14205  
Account: PSGAWO - Pangean-CMD Associates, Inc  
Project: Cessna Facility; 4800 Cargo Dr, Columbus, GA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chromium, Hexavalent	GN61178	2.0	0.0	mg/kg	20.0	20.0	100.1	75-125%

Associated Samples:

Batch GN61178: FA14205-1, FA14205-2, FA14205-3, FA14205-4

(\*) Outside of QC limits

DUPLICATE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: FA14205  
Account: PSGAWO - Pangean-CMD Associates, Inc  
Project: Cessna Facility; 4800 Cargo Dr, Columbus, GA

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chromium, Hexavalent	GN61178	FA14182-1	mg/kg	0.0	0.0	0.0	0-20%
Solids, Percent	GN61066	FA14042-2	%	73.5	73.2	0.4	0-5%

Associated Samples:

Batch GN61066: FA14205-1, FA14205-2, FA14205-3, FA14205-4

Batch GN61178: FA14205-1, FA14205-2, FA14205-3, FA14205-4

(\*) Outside of QC limits

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MATRIX SPIKE RESULTS SUMMARY  
GENERAL CHEMISTRY

Login Number: FA14205  
Account: PSGAWO - Pangean-CMD Associates, Inc  
Project: Cessna Facility; 4800 Cargo Dr, Columbus, GA

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chromium, Hexavalent	GN61178	FA14182-1	mg/kg	0.0	652.4	968	148.4*(a)	75-125%
Chromium, Hexavalent	GN61178	FA14182-1	mg/kg	0.0	21.9	22.1	100.9	75-125%

Associated Samples:

Batch GN61178: FA14205-1, FA14205-2, FA14205-3, FA14205-4

(\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(a) Spike recovery indicates possible matrix interference.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Burlington

30 Community Drive

Suite 11

South Burlington, VT 05403

Tel: (802)660-1990

TestAmerica Job ID: 200-30095-1

TestAmerica Sample Delivery Group: 200-30095

Client Project/Site: Cessna

For:

CDM Smith, Inc.

3715 Northside Parkway, NW

Building 300, Suite 400

Atlanta, Georgia 30327

Attn: Mr. Jeff Weeber



Authorized for release by:

10/23/2015 12:05:21 PM

Don Dawicki, Manager of Project Management

(802)660-1990

[don.dawicki@testamericainc.com](mailto:don.dawicki@testamericainc.com)

### LINKS

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Definitions/Glossary

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

## Qualifiers

### Air - GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Case Narrative

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

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**Job ID: 200-30095-1**

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**Laboratory: TestAmerica Burlington**

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**Narrative**

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With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

**RECEIPT**

The samples were received on 10/06/2015; the samples arrived in good condition.

The Chain of Custody does not list sample collection end times. The times were taken from the canister tags for samples one through four. However, sample 200-30095-5 (OUTDOOR#2) does not have a time listed on the tag. The client was contacted but did not respond. A collection time of 0000 was entered in lieu of the actual time.

**VOLATILE ORGANIC COMPOUNDS**

Samples INDOOR#1, INDOOR#2, INDOOR#3, OUTDOOR#1 and OUTDOOR#2 were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 10/07/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Detection Summary

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

**Client Sample ID: INDOOR#1**

**Lab Sample ID: 200-30095-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.90		0.50	0.080	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.89		0.50	0.093	ppb v/v	1		TO-15	Total/NA
n-Butane	1.3		0.50	0.078	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.42		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Freon TF	0.14	J	0.20	0.075	ppb v/v	1		TO-15	Total/NA
Acetone	14		5.0	0.86	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	2.5	J	5.0	0.98	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.39	J	0.50	0.043	ppb v/v	1		TO-15	Total/NA
n-Hexane	1.1		0.20	0.054	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone	4.4		0.50	0.052	ppb v/v	1		TO-15	Total/NA
cis-1,2-Dichloroethene	0.18	J	0.20	0.035	ppb v/v	1		TO-15	Total/NA
1,2-Dichloroethene, Total	0.18	J	0.40	0.035	ppb v/v	1		TO-15	Total/NA
Tetrahydrofuran	5.8		5.0	1.4	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.069	J	0.20	0.039	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.16	J	0.20	0.032	ppb v/v	1		TO-15	Total/NA
Benzene	0.14	J	0.20	0.042	ppb v/v	1		TO-15	Total/NA
Trichloroethene	1.7		0.20	0.039	ppb v/v	1		TO-15	Total/NA
methyl isobutyl ketone	0.12	J	0.50	0.050	ppb v/v	1		TO-15	Total/NA
Toluene	1.5		0.20	0.093	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.13	J	0.20	0.033	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	0.61		0.50	0.071	ppb v/v	1		TO-15	Total/NA
Xylene, o-	0.24		0.20	0.037	ppb v/v	1		TO-15	Total/NA
Xylene (total)	0.85		0.70	0.037	ppb v/v	1		TO-15	Total/NA
Styrene	1.0		0.20	0.043	ppb v/v	1		TO-15	Total/NA
Cumene	0.044	J	0.20	0.030	ppb v/v	1		TO-15	Total/NA
n-Propylbenzene	0.061	J	0.20	0.043	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.098	J	0.20	0.044	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.19	J	0.20	0.039	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.49		0.20	0.043	ppb v/v	1		TO-15	Total/NA
4-Isopropyltoluene	0.14	J	0.20	0.037	ppb v/v	1		TO-15	Total/NA
n-Butylbenzene	0.058	J	0.20	0.047	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	4.5		2.5	0.40	ug/m3	1		TO-15	Total/NA
Chloromethane	1.8		1.0	0.19	ug/m3	1		TO-15	Total/NA
n-Butane	3.2		1.2	0.19	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	2.4		1.1	0.21	ug/m3	1		TO-15	Total/NA
Freon TF	1.0	J	1.5	0.57	ug/m3	1		TO-15	Total/NA
Acetone	33		12	2.0	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	6.1	J	12	2.4	ug/m3	1		TO-15	Total/NA
Carbon disulfide	1.2	J	1.6	0.13	ug/m3	1		TO-15	Total/NA
n-Hexane	3.8		0.70	0.19	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone	13		1.5	0.15	ug/m3	1		TO-15	Total/NA
cis-1,2-Dichloroethene	0.71	J	0.79	0.14	ug/m3	1		TO-15	Total/NA
1,2-Dichloroethene, Total	0.71	J	1.6	0.14	ug/m3	1		TO-15	Total/NA
Tetrahydrofuran	17		15	4.1	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.24	J	0.69	0.13	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	1.0	J	1.3	0.20	ug/m3	1		TO-15	Total/NA
Benzene	0.44	J	0.64	0.13	ug/m3	1		TO-15	Total/NA
Trichloroethene	9.4		1.1	0.21	ug/m3	1		TO-15	Total/NA
methyl isobutyl ketone	0.49	J	2.0	0.20	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

# Detection Summary

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

## Client Sample ID: INDOOR#1 (Continued)

## Lab Sample ID: 200-30095-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	5.5		0.75	0.35	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.57	J	0.87	0.14	ug/m3	1		TO-15	Total/NA
m,p-Xylene	2.6		2.2	0.31	ug/m3	1		TO-15	Total/NA
Xylene, o-	1.0		0.87	0.16	ug/m3	1		TO-15	Total/NA
Xylene (total)	3.7		3.0	0.16	ug/m3	1		TO-15	Total/NA
Styrene	4.3		0.85	0.18	ug/m3	1		TO-15	Total/NA
Cumene	0.22	J	0.98	0.15	ug/m3	1		TO-15	Total/NA
n-Propylbenzene	0.30	J	0.98	0.21	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.48	J	0.98	0.22	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.95	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	2.4		0.98	0.21	ug/m3	1		TO-15	Total/NA
4-Isopropyltoluene	0.74	J	1.1	0.20	ug/m3	1		TO-15	Total/NA
n-Butylbenzene	0.32	J	1.1	0.26	ug/m3	1		TO-15	Total/NA

## Client Sample ID: INDOOR#2

## Lab Sample ID: 200-30095-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.86		0.50	0.080	ppb v/v	1		TO-15	Total/NA
Chloromethane	7.0		0.50	0.093	ppb v/v	1		TO-15	Total/NA
n-Butane	1.3		0.50	0.078	ppb v/v	1		TO-15	Total/NA
Bromomethane	0.11	J	0.20	0.056	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.39		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Freon TF	0.14	J	0.20	0.075	ppb v/v	1		TO-15	Total/NA
Acetone	20		5.0	0.86	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	3.0	J	5.0	0.98	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	1.1		0.50	0.043	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.18	J	0.50	0.18	ppb v/v	1		TO-15	Total/NA
n-Hexane	1.5		0.20	0.054	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone	5.7		0.50	0.052	ppb v/v	1		TO-15	Total/NA
cis-1,2-Dichloroethene	0.44		0.20	0.035	ppb v/v	1		TO-15	Total/NA
1,2-Dichloroethene, Total	0.44		0.40	0.035	ppb v/v	1		TO-15	Total/NA
Chloroform	0.10	J	0.20	0.082	ppb v/v	1		TO-15	Total/NA
Tetrahydrofuran	6.4		5.0	1.4	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.15	J	0.20	0.032	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.040	J	0.20	0.039	ppb v/v	1		TO-15	Total/NA
Benzene	0.17	J	0.20	0.042	ppb v/v	1		TO-15	Total/NA
Trichloroethene	5.8		0.20	0.039	ppb v/v	1		TO-15	Total/NA
1,4-Dioxane	3.2	J	5.0	0.56	ppb v/v	1		TO-15	Total/NA
methyl isobutyl ketone	0.20	J	0.50	0.050	ppb v/v	1		TO-15	Total/NA
Toluene	1.6		0.20	0.093	ppb v/v	1		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone)	0.10	J	0.50	0.057	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.12	J	0.20	0.033	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	0.55		0.50	0.071	ppb v/v	1		TO-15	Total/NA
Xylene, o-	0.21		0.20	0.037	ppb v/v	1		TO-15	Total/NA
Xylene (total)	0.76		0.70	0.037	ppb v/v	1		TO-15	Total/NA
Styrene	0.51		0.20	0.043	ppb v/v	1		TO-15	Total/NA
Cumene	0.032	J	0.20	0.030	ppb v/v	1		TO-15	Total/NA
n-Propylbenzene	0.050	J	0.20	0.043	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.073	J	0.20	0.044	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.13	J	0.20	0.039	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

# Detection Summary

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

## Client Sample ID: INDOOR#2 (Continued)

## Lab Sample ID: 200-30095-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.29		0.20	0.043	ppb v/v	1		TO-15	Total/NA
4-Isopropyltoluene	0.092	J	0.20	0.037	ppb v/v	1		TO-15	Total/NA
Naphthalene	0.079	J	0.50	0.057	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	4.3		2.5	0.40	ug/m3	1		TO-15	Total/NA
Chloromethane	15		1.0	0.19	ug/m3	1		TO-15	Total/NA
n-Butane	3.0		1.2	0.19	ug/m3	1		TO-15	Total/NA
Bromomethane	0.41	J	0.78	0.22	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	2.2		1.1	0.21	ug/m3	1		TO-15	Total/NA
Freon TF	1.0	J	1.5	0.57	ug/m3	1		TO-15	Total/NA
Acetone	47		12	2.0	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	7.3	J	12	2.4	ug/m3	1		TO-15	Total/NA
Carbon disulfide	3.4		1.6	0.13	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.61	J	1.7	0.63	ug/m3	1		TO-15	Total/NA
n-Hexane	5.2		0.70	0.19	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone	17		1.5	0.15	ug/m3	1		TO-15	Total/NA
cis-1,2-Dichloroethene	1.7		0.79	0.14	ug/m3	1		TO-15	Total/NA
1,2-Dichloroethene, Total	1.7		1.6	0.14	ug/m3	1		TO-15	Total/NA
Chloroform	0.50	J	0.98	0.40	ug/m3	1		TO-15	Total/NA
Tetrahydrofuran	19		15	4.1	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.91	J	1.3	0.20	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.19	J	0.93	0.18	ug/m3	1		TO-15	Total/NA
Benzene	0.54	J	0.64	0.13	ug/m3	1		TO-15	Total/NA
Trichloroethene	31		1.1	0.21	ug/m3	1		TO-15	Total/NA
1,4-Dioxane	11	J	18	2.0	ug/m3	1		TO-15	Total/NA
methyl isobutyl ketone	0.81	J	2.0	0.20	ug/m3	1		TO-15	Total/NA
Toluene	5.9		0.75	0.35	ug/m3	1		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone)	0.41	J	2.0	0.23	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.51	J	0.87	0.14	ug/m3	1		TO-15	Total/NA
m,p-Xylene	2.4		2.2	0.31	ug/m3	1		TO-15	Total/NA
Xylene, o-	0.91		0.87	0.16	ug/m3	1		TO-15	Total/NA
Xylene (total)	3.3		3.0	0.16	ug/m3	1		TO-15	Total/NA
Styrene	2.2		0.85	0.18	ug/m3	1		TO-15	Total/NA
Cumene	0.16	J	0.98	0.15	ug/m3	1		TO-15	Total/NA
n-Propylbenzene	0.24	J	0.98	0.21	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.36	J	0.98	0.22	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.62	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.4		0.98	0.21	ug/m3	1		TO-15	Total/NA
4-Isopropyltoluene	0.50	J	1.1	0.20	ug/m3	1		TO-15	Total/NA
Naphthalene	0.42	J	2.6	0.30	ug/m3	1		TO-15	Total/NA

## Client Sample ID: INDOOR#3

## Lab Sample ID: 200-30095-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.63		0.50	0.080	ppb v/v	1		TO-15	Total/NA
Chloromethane	1.2		0.50	0.093	ppb v/v	1		TO-15	Total/NA
n-Butane	0.90		0.50	0.078	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.29		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Freon TF	0.097	J	0.20	0.075	ppb v/v	1		TO-15	Total/NA
Acetone	22		5.0	0.86	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington



# Detection Summary

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

**Client Sample ID: INDOOR#3 (Continued)**

**Lab Sample ID: 200-30095-3**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Isopropyl alcohol	28		5.0	0.98	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	6.1		0.50	0.043	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.20	J	0.50	0.18	ppb v/v	1		TO-15	Total/NA
n-Hexane	1.5		0.20	0.054	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone	5.2		0.50	0.052	ppb v/v	1		TO-15	Total/NA
cis-1,2-Dichloroethene	0.048	J	0.20	0.035	ppb v/v	1		TO-15	Total/NA
1,2-Dichloroethene, Total	0.048	J	0.40	0.035	ppb v/v	1		TO-15	Total/NA
Tetrahydrofuran	3.6	J	5.0	1.4	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.043	J	0.20	0.039	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.11	J	0.20	0.032	ppb v/v	1		TO-15	Total/NA
Benzene	0.15	J	0.20	0.042	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.63		0.20	0.039	ppb v/v	1		TO-15	Total/NA
1,4-Dioxane	3.4	J	5.0	0.56	ppb v/v	1		TO-15	Total/NA
methyl isobutyl ketone	0.28	J	0.50	0.050	ppb v/v	1		TO-15	Total/NA
Toluene	1.8		0.20	0.093	ppb v/v	1		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone)	0.30	J	0.50	0.057	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.25		0.20	0.033	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	1.3		0.50	0.071	ppb v/v	1		TO-15	Total/NA
Xylene, o-	0.50		0.20	0.037	ppb v/v	1		TO-15	Total/NA
Xylene (total)	1.8		0.70	0.037	ppb v/v	1		TO-15	Total/NA
Styrene	0.40		0.20	0.043	ppb v/v	1		TO-15	Total/NA
Cumene	0.042	J	0.20	0.030	ppb v/v	1		TO-15	Total/NA
n-Propylbenzene	0.072	J	0.20	0.043	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.098	J	0.20	0.044	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.17	J	0.20	0.039	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.46		0.20	0.043	ppb v/v	1		TO-15	Total/NA
4-Isopropyltoluene	0.34		0.20	0.037	ppb v/v	1		TO-15	Total/NA
Naphthalene	0.80		0.50	0.057	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	3.1		2.5	0.40	ug/m3	1		TO-15	Total/NA
Chloromethane	2.5		1.0	0.19	ug/m3	1		TO-15	Total/NA
n-Butane	2.1		1.2	0.19	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.6		1.1	0.21	ug/m3	1		TO-15	Total/NA
Freon TF	0.74	J	1.5	0.57	ug/m3	1		TO-15	Total/NA
Acetone	52		12	2.0	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	70		12	2.4	ug/m3	1		TO-15	Total/NA
Carbon disulfide	19		1.6	0.13	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.71	J	1.7	0.63	ug/m3	1		TO-15	Total/NA
n-Hexane	5.3		0.70	0.19	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone	15		1.5	0.15	ug/m3	1		TO-15	Total/NA
cis-1,2-Dichloroethene	0.19	J	0.79	0.14	ug/m3	1		TO-15	Total/NA
1,2-Dichloroethene, Total	0.19	J	1.6	0.14	ug/m3	1		TO-15	Total/NA
Tetrahydrofuran	11	J	15	4.1	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.15	J	0.69	0.13	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.70	J	1.3	0.20	ug/m3	1		TO-15	Total/NA
Benzene	0.49	J	0.64	0.13	ug/m3	1		TO-15	Total/NA
Trichloroethene	3.4		1.1	0.21	ug/m3	1		TO-15	Total/NA
1,4-Dioxane	12	J	18	2.0	ug/m3	1		TO-15	Total/NA
methyl isobutyl ketone	1.2	J	2.0	0.20	ug/m3	1		TO-15	Total/NA
Toluene	6.9		0.75	0.35	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

# Detection Summary

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

## Client Sample ID: INDOOR#3 (Continued)

## Lab Sample ID: 200-30095-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl Butyl Ketone (2-Hexanone)	1.2	J	2.0	0.23	ug/m3	1		TO-15	Total/NA
Ethylbenzene	1.1		0.87	0.14	ug/m3	1		TO-15	Total/NA
m,p-Xylene	5.6		2.2	0.31	ug/m3	1		TO-15	Total/NA
Xylene, o-	2.2		0.87	0.16	ug/m3	1		TO-15	Total/NA
Xylene (total)	7.8		3.0	0.16	ug/m3	1		TO-15	Total/NA
Styrene	1.7		0.85	0.18	ug/m3	1		TO-15	Total/NA
Cumene	0.21	J	0.98	0.15	ug/m3	1		TO-15	Total/NA
n-Propylbenzene	0.36	J	0.98	0.21	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.48	J	0.98	0.22	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.84	J	0.98	0.19	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	2.3		0.98	0.21	ug/m3	1		TO-15	Total/NA
4-Isopropyltoluene	1.9		1.1	0.20	ug/m3	1		TO-15	Total/NA
Naphthalene	4.2		2.6	0.30	ug/m3	1		TO-15	Total/NA

## Client Sample ID: OUTDOOR#1

## Lab Sample ID: 200-30095-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.65		0.50	0.080	ppb v/v	1		TO-15	Total/NA
Freon 22	0.36	J	0.50	0.057	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.60		0.50	0.093	ppb v/v	1		TO-15	Total/NA
n-Butane	1.1		0.50	0.078	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.29		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Freon TF	0.095	J	0.20	0.075	ppb v/v	1		TO-15	Total/NA
Acetone	5.7		5.0	0.86	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.30	J	0.50	0.043	ppb v/v	1		TO-15	Total/NA
n-Hexane	0.070	J	0.20	0.054	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone	0.88		0.50	0.052	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.11	J	0.20	0.032	ppb v/v	1		TO-15	Total/NA
Benzene	0.11	J	0.20	0.042	ppb v/v	1		TO-15	Total/NA
Toluene	0.18	J	0.20	0.093	ppb v/v	1		TO-15	Total/NA
Chlorobenzene	0.16	J	0.20	0.049	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	0.081	J	0.50	0.071	ppb v/v	1		TO-15	Total/NA
Xylene (total)	0.081	J	0.70	0.037	ppb v/v	1		TO-15	Total/NA
Styrene	0.044	J	0.20	0.043	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	3.2		2.5	0.40	ug/m3	1		TO-15	Total/NA
Freon 22	1.3	J	1.8	0.20	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0	0.19	ug/m3	1		TO-15	Total/NA
n-Butane	2.6		1.2	0.19	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.6		1.1	0.21	ug/m3	1		TO-15	Total/NA
Freon TF	0.73	J	1.5	0.57	ug/m3	1		TO-15	Total/NA
Acetone	14		12	2.0	ug/m3	1		TO-15	Total/NA
Carbon disulfide	0.93	J	1.6	0.13	ug/m3	1		TO-15	Total/NA
n-Hexane	0.25	J	0.70	0.19	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone	2.6		1.5	0.15	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.67	J	1.3	0.20	ug/m3	1		TO-15	Total/NA
Benzene	0.34	J	0.64	0.13	ug/m3	1		TO-15	Total/NA
Toluene	0.66	J	0.75	0.35	ug/m3	1		TO-15	Total/NA
Chlorobenzene	0.73	J	0.92	0.23	ug/m3	1		TO-15	Total/NA
m,p-Xylene	0.35	J	2.2	0.31	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

# Detection Summary

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

## Client Sample ID: OUTDOOR#1 (Continued)

## Lab Sample ID: 200-30095-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylene (total)	0.35	J	3.0	0.16	ug/m3	1		TO-15	Total/NA
Styrene	0.19	J	0.85	0.18	ug/m3	1		TO-15	Total/NA

## Client Sample ID: OUTDOOR#2

## Lab Sample ID: 200-30095-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.55		0.50	0.080	ppb v/v	1		TO-15	Total/NA
Freon 22	0.30	J	0.50	0.057	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.63		0.50	0.093	ppb v/v	1		TO-15	Total/NA
n-Butane	0.90		0.50	0.078	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.24		0.20	0.038	ppb v/v	1		TO-15	Total/NA
Freon TF	0.086	J	0.20	0.075	ppb v/v	1		TO-15	Total/NA
Acetone	6.6		5.0	0.86	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	3.9		0.50	0.043	ppb v/v	1		TO-15	Total/NA
n-Hexane	0.058	J	0.20	0.054	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone	0.97		0.50	0.052	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.11	J	0.20	0.032	ppb v/v	1		TO-15	Total/NA
Benzene	0.14	J	0.20	0.042	ppb v/v	1		TO-15	Total/NA
Toluene	0.17	J	0.20	0.093	ppb v/v	1		TO-15	Total/NA
Styrene	0.056	J	0.20	0.043	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	2.7		2.5	0.40	ug/m3	1		TO-15	Total/NA
Freon 22	1.1	J	1.8	0.20	ug/m3	1		TO-15	Total/NA
Chloromethane	1.3		1.0	0.19	ug/m3	1		TO-15	Total/NA
n-Butane	2.1		1.2	0.19	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.4		1.1	0.21	ug/m3	1		TO-15	Total/NA
Freon TF	0.66	J	1.5	0.57	ug/m3	1		TO-15	Total/NA
Acetone	16		12	2.0	ug/m3	1		TO-15	Total/NA
Carbon disulfide	12		1.6	0.13	ug/m3	1		TO-15	Total/NA
n-Hexane	0.20	J	0.70	0.19	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone	2.9		1.5	0.15	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.68	J	1.3	0.20	ug/m3	1		TO-15	Total/NA
Benzene	0.43	J	0.64	0.13	ug/m3	1		TO-15	Total/NA
Toluene	0.65	J	0.75	0.35	ug/m3	1		TO-15	Total/NA
Styrene	0.24	J	0.85	0.18	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

**Client Sample ID: INDOOR#1**

**Lab Sample ID: 200-30095-1**

Date Collected: 10/04/15 09:13

Matrix: Air

Date Received: 10/06/15 10:30

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Dichlorodifluoromethane</b>	<b>0.90</b>		0.50	0.080	ppb v/v			10/07/15 00:53	1
Freon 22	0.50	U	0.50	0.057	ppb v/v			10/07/15 00:53	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.038	ppb v/v			10/07/15 00:53	1
<b>Chloromethane</b>	<b>0.89</b>		0.50	0.093	ppb v/v			10/07/15 00:53	1
<b>n-Butane</b>	<b>1.3</b>		0.50	0.078	ppb v/v			10/07/15 00:53	1
Vinyl chloride	0.20	U	0.20	0.032	ppb v/v			10/07/15 00:53	1
1,3-Butadiene	0.20	U	0.20	0.089	ppb v/v			10/07/15 00:53	1
Bromomethane	0.20	U	0.20	0.056	ppb v/v			10/07/15 00:53	1
Chloroethane	0.50	U	0.50	0.085	ppb v/v			10/07/15 00:53	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.044	ppb v/v			10/07/15 00:53	1
<b>Trichlorofluoromethane</b>	<b>0.42</b>		0.20	0.038	ppb v/v			10/07/15 00:53	1
<b>Freon TF</b>	<b>0.14</b>	<b>J</b>	0.20	0.075	ppb v/v			10/07/15 00:53	1
1,1-Dichloroethene	0.20	U	0.20	0.036	ppb v/v			10/07/15 00:53	1
<b>Acetone</b>	<b>14</b>		5.0	0.86	ppb v/v			10/07/15 00:53	1
<b>Isopropyl alcohol</b>	<b>2.5</b>	<b>J</b>	5.0	0.98	ppb v/v			10/07/15 00:53	1
<b>Carbon disulfide</b>	<b>0.39</b>	<b>J</b>	0.50	0.043	ppb v/v			10/07/15 00:53	1
3-Chloropropene	0.50	U	0.50	0.068	ppb v/v			10/07/15 00:53	1
Methylene Chloride	0.50	U	0.50	0.18	ppb v/v			10/07/15 00:53	1
tert-Butyl alcohol	5.0	U	5.0	0.85	ppb v/v			10/07/15 00:53	1
Methyl tert-butyl ether	0.20	U	0.20	0.089	ppb v/v			10/07/15 00:53	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.043	ppb v/v			10/07/15 00:53	1
<b>n-Hexane</b>	<b>1.1</b>		0.20	0.054	ppb v/v			10/07/15 00:53	1
1,1-Dichloroethane	0.20	U	0.20	0.025	ppb v/v			10/07/15 00:53	1
<b>Methyl Ethyl Ketone</b>	<b>4.4</b>		0.50	0.052	ppb v/v			10/07/15 00:53	1
<b>cis-1,2-Dichloroethene</b>	<b>0.18</b>	<b>J</b>	0.20	0.035	ppb v/v			10/07/15 00:53	1
<b>1,2-Dichloroethene, Total</b>	<b>0.18</b>	<b>J</b>	0.40	0.035	ppb v/v			10/07/15 00:53	1
Chloroform	0.20	U	0.20	0.082	ppb v/v			10/07/15 00:53	1
<b>Tetrahydrofuran</b>	<b>5.8</b>		5.0	1.4	ppb v/v			10/07/15 00:53	1
1,1,1-Trichloroethane	0.20	U	0.20	0.046	ppb v/v			10/07/15 00:53	1
<b>Cyclohexane</b>	<b>0.069</b>	<b>J</b>	0.20	0.039	ppb v/v			10/07/15 00:53	1
<b>Carbon tetrachloride</b>	<b>0.16</b>	<b>J</b>	0.20	0.032	ppb v/v			10/07/15 00:53	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.039	ppb v/v			10/07/15 00:53	1
<b>Benzene</b>	<b>0.14</b>	<b>J</b>	0.20	0.042	ppb v/v			10/07/15 00:53	1
1,2-Dichloroethane	0.20	U	0.20	0.041	ppb v/v			10/07/15 00:53	1
n-Heptane	0.20	U	0.20	0.040	ppb v/v			10/07/15 00:53	1
<b>Trichloroethene</b>	<b>1.7</b>		0.20	0.039	ppb v/v			10/07/15 00:53	1
Methyl methacrylate	0.50	U	0.50	0.040	ppb v/v			10/07/15 00:53	1
1,2-Dichloropropane	0.20	U	0.20	0.027	ppb v/v			10/07/15 00:53	1
1,4-Dioxane	5.0	U	5.0	0.56	ppb v/v			10/07/15 00:53	1
Bromodichloromethane	0.20	U	0.20	0.030	ppb v/v			10/07/15 00:53	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.023	ppb v/v			10/07/15 00:53	1
<b>methyl isobutyl ketone</b>	<b>0.12</b>	<b>J</b>	0.50	0.050	ppb v/v			10/07/15 00:53	1
<b>Toluene</b>	<b>1.5</b>		0.20	0.093	ppb v/v			10/07/15 00:53	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.034	ppb v/v			10/07/15 00:53	1
1,1,2-Trichloroethane	0.20	U	0.20	0.039	ppb v/v			10/07/15 00:53	1
Tetrachloroethene	0.20	U	0.20	0.023	ppb v/v			10/07/15 00:53	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.057	ppb v/v			10/07/15 00:53	1
Dibromochloromethane	0.20	U	0.20	0.044	ppb v/v			10/07/15 00:53	1

TestAmerica Burlington

# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

**Client Sample ID: INDOOR#1**

**Lab Sample ID: 200-30095-1**

**Date Collected: 10/04/15 09:13**

**Matrix: Air**

**Date Received: 10/06/15 10:30**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.20	U	0.20	0.039	ppb v/v			10/07/15 00:53	1
Chlorobenzene	0.20	U	0.20	0.049	ppb v/v			10/07/15 00:53	1
<b>Ethylbenzene</b>	<b>0.13</b>	<b>J</b>	0.20	0.033	ppb v/v			10/07/15 00:53	1
<b>m,p-Xylene</b>	<b>0.61</b>		0.50	0.071	ppb v/v			10/07/15 00:53	1
<b>Xylene, o-</b>	<b>0.24</b>		0.20	0.037	ppb v/v			10/07/15 00:53	1
<b>Xylene (total)</b>	<b>0.85</b>		0.70	0.037	ppb v/v			10/07/15 00:53	1
<b>Styrene</b>	<b>1.0</b>		0.20	0.043	ppb v/v			10/07/15 00:53	1
Bromoform	0.20	U	0.20	0.056	ppb v/v			10/07/15 00:53	1
<b>Cumene</b>	<b>0.044</b>	<b>J</b>	0.20	0.030	ppb v/v			10/07/15 00:53	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.044	ppb v/v			10/07/15 00:53	1
<b>n-Propylbenzene</b>	<b>0.061</b>	<b>J</b>	0.20	0.043	ppb v/v			10/07/15 00:53	1
<b>4-Ethyltoluene</b>	<b>0.098</b>	<b>J</b>	0.20	0.044	ppb v/v			10/07/15 00:53	1
<b>1,3,5-Trimethylbenzene</b>	<b>0.19</b>	<b>J</b>	0.20	0.039	ppb v/v			10/07/15 00:53	1
2-Chlorotoluene	0.20	U	0.20	0.033	ppb v/v			10/07/15 00:53	1
tert-Butylbenzene	0.20	U	0.20	0.044	ppb v/v			10/07/15 00:53	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.49</b>		0.20	0.043	ppb v/v			10/07/15 00:53	1
sec-Butylbenzene	0.20	U	0.20	0.044	ppb v/v			10/07/15 00:53	1
<b>4-Isopropyltoluene</b>	<b>0.14</b>	<b>J</b>	0.20	0.037	ppb v/v			10/07/15 00:53	1
1,3-Dichlorobenzene	0.20	U	0.20	0.055	ppb v/v			10/07/15 00:53	1
1,4-Dichlorobenzene	0.20	U	0.20	0.057	ppb v/v			10/07/15 00:53	1
Benzyl chloride	0.20	U	0.20	0.053	ppb v/v			10/07/15 00:53	1
<b>n-Butylbenzene</b>	<b>0.058</b>	<b>J</b>	0.20	0.047	ppb v/v			10/07/15 00:53	1
1,2-Dichlorobenzene	0.20	U	0.20	0.055	ppb v/v			10/07/15 00:53	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.068	ppb v/v			10/07/15 00:53	1
Hexachlorobutadiene	0.20	U	0.20	0.082	ppb v/v			10/07/15 00:53	1
Naphthalene	0.50	U	0.50	0.057	ppb v/v			10/07/15 00:53	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Dichlorodifluoromethane</b>	<b>4.5</b>		2.5	0.40	ug/m3			10/07/15 00:53	1
Freon 22	1.8	U	1.8	0.20	ug/m3			10/07/15 00:53	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.27	ug/m3			10/07/15 00:53	1
<b>Chloromethane</b>	<b>1.8</b>		1.0	0.19	ug/m3			10/07/15 00:53	1
<b>n-Butane</b>	<b>3.2</b>		1.2	0.19	ug/m3			10/07/15 00:53	1
Vinyl chloride	0.51	U	0.51	0.082	ug/m3			10/07/15 00:53	1
1,3-Butadiene	0.44	U	0.44	0.20	ug/m3			10/07/15 00:53	1
Bromomethane	0.78	U	0.78	0.22	ug/m3			10/07/15 00:53	1
Chloroethane	1.3	U	1.3	0.22	ug/m3			10/07/15 00:53	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.19	ug/m3			10/07/15 00:53	1
<b>Trichlorofluoromethane</b>	<b>2.4</b>		1.1	0.21	ug/m3			10/07/15 00:53	1
<b>Freon TF</b>	<b>1.0</b>	<b>J</b>	1.5	0.57	ug/m3			10/07/15 00:53	1
1,1-Dichloroethene	0.79	U	0.79	0.14	ug/m3			10/07/15 00:53	1
<b>Acetone</b>	<b>33</b>		12	2.0	ug/m3			10/07/15 00:53	1
<b>Isopropyl alcohol</b>	<b>6.1</b>	<b>J</b>	12	2.4	ug/m3			10/07/15 00:53	1
<b>Carbon disulfide</b>	<b>1.2</b>	<b>J</b>	1.6	0.13	ug/m3			10/07/15 00:53	1
3-Chloropropene	1.6	U	1.6	0.21	ug/m3			10/07/15 00:53	1
Methylene Chloride	1.7	U	1.7	0.63	ug/m3			10/07/15 00:53	1
tert-Butyl alcohol	15	U	15	2.6	ug/m3			10/07/15 00:53	1
Methyl tert-butyl ether	0.72	U	0.72	0.32	ug/m3			10/07/15 00:53	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.17	ug/m3			10/07/15 00:53	1

TestAmerica Burlington

# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

**Client Sample ID: INDOOR#1**

**Lab Sample ID: 200-30095-1**

Date Collected: 10/04/15 09:13

Matrix: Air

Date Received: 10/06/15 10:30

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>n-Hexane</b>	<b>3.8</b>		0.70	0.19	ug/m3			10/07/15 00:53	1
1,1-Dichloroethane	0.81	U	0.81	0.10	ug/m3			10/07/15 00:53	1
<b>Methyl Ethyl Ketone</b>	<b>13</b>		1.5	0.15	ug/m3			10/07/15 00:53	1
<b>cis-1,2-Dichloroethene</b>	<b>0.71</b>	<b>J</b>	0.79	0.14	ug/m3			10/07/15 00:53	1
<b>1,2-Dichloroethene, Total</b>	<b>0.71</b>	<b>J</b>	1.6	0.14	ug/m3			10/07/15 00:53	1
Chloroform	0.98	U	0.98	0.40	ug/m3			10/07/15 00:53	1
<b>Tetrahydrofuran</b>	<b>17</b>		15	4.1	ug/m3			10/07/15 00:53	1
1,1,1-Trichloroethane	1.1	U	1.1	0.25	ug/m3			10/07/15 00:53	1
<b>Cyclohexane</b>	<b>0.24</b>	<b>J</b>	0.69	0.13	ug/m3			10/07/15 00:53	1
<b>Carbon tetrachloride</b>	<b>1.0</b>	<b>J</b>	1.3	0.20	ug/m3			10/07/15 00:53	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.18	ug/m3			10/07/15 00:53	1
<b>Benzene</b>	<b>0.44</b>	<b>J</b>	0.64	0.13	ug/m3			10/07/15 00:53	1
1,2-Dichloroethane	0.81	U	0.81	0.17	ug/m3			10/07/15 00:53	1
n-Heptane	0.82	U	0.82	0.16	ug/m3			10/07/15 00:53	1
<b>Trichloroethene</b>	<b>9.4</b>		1.1	0.21	ug/m3			10/07/15 00:53	1
Methyl methacrylate	2.0	U	2.0	0.16	ug/m3			10/07/15 00:53	1
1,2-Dichloropropane	0.92	U	0.92	0.12	ug/m3			10/07/15 00:53	1
1,4-Dioxane	18	U	18	2.0	ug/m3			10/07/15 00:53	1
Bromodichloromethane	1.3	U	1.3	0.20	ug/m3			10/07/15 00:53	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.10	ug/m3			10/07/15 00:53	1
<b>methyl isobutyl ketone</b>	<b>0.49</b>	<b>J</b>	2.0	0.20	ug/m3			10/07/15 00:53	1
<b>Toluene</b>	<b>5.5</b>		0.75	0.35	ug/m3			10/07/15 00:53	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.15	ug/m3			10/07/15 00:53	1
1,1,2-Trichloroethane	1.1	U	1.1	0.21	ug/m3			10/07/15 00:53	1
Tetrachloroethene	1.4	U	1.4	0.16	ug/m3			10/07/15 00:53	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.23	ug/m3			10/07/15 00:53	1
Dibromochloromethane	1.7	U	1.7	0.37	ug/m3			10/07/15 00:53	1
1,2-Dibromoethane	1.5	U	1.5	0.30	ug/m3			10/07/15 00:53	1
Chlorobenzene	0.92	U	0.92	0.23	ug/m3			10/07/15 00:53	1
<b>Ethylbenzene</b>	<b>0.57</b>	<b>J</b>	0.87	0.14	ug/m3			10/07/15 00:53	1
<b>m,p-Xylene</b>	<b>2.6</b>		2.2	0.31	ug/m3			10/07/15 00:53	1
<b>Xylene, o-</b>	<b>1.0</b>		0.87	0.16	ug/m3			10/07/15 00:53	1
<b>Xylene (total)</b>	<b>3.7</b>		3.0	0.16	ug/m3			10/07/15 00:53	1
<b>Styrene</b>	<b>4.3</b>		0.85	0.18	ug/m3			10/07/15 00:53	1
Bromoform	2.1	U	2.1	0.58	ug/m3			10/07/15 00:53	1
<b>Cumene</b>	<b>0.22</b>	<b>J</b>	0.98	0.15	ug/m3			10/07/15 00:53	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			10/07/15 00:53	1
<b>n-Propylbenzene</b>	<b>0.30</b>	<b>J</b>	0.98	0.21	ug/m3			10/07/15 00:53	1
<b>4-Ethyltoluene</b>	<b>0.48</b>	<b>J</b>	0.98	0.22	ug/m3			10/07/15 00:53	1
<b>1,3,5-Trimethylbenzene</b>	<b>0.95</b>	<b>J</b>	0.98	0.19	ug/m3			10/07/15 00:53	1
2-Chlorotoluene	1.0	U	1.0	0.17	ug/m3			10/07/15 00:53	1
tert-Butylbenzene	1.1	U	1.1	0.24	ug/m3			10/07/15 00:53	1
<b>1,2,4-Trimethylbenzene</b>	<b>2.4</b>		0.98	0.21	ug/m3			10/07/15 00:53	1
sec-Butylbenzene	1.1	U	1.1	0.24	ug/m3			10/07/15 00:53	1
<b>4-Isopropyltoluene</b>	<b>0.74</b>	<b>J</b>	1.1	0.20	ug/m3			10/07/15 00:53	1
1,3-Dichlorobenzene	1.2	U	1.2	0.33	ug/m3			10/07/15 00:53	1
1,4-Dichlorobenzene	1.2	U	1.2	0.34	ug/m3			10/07/15 00:53	1
Benzyl chloride	1.0	U	1.0	0.27	ug/m3			10/07/15 00:53	1

TestAmerica Burlington



# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

## Client Sample ID: INDOOR#1

Date Collected: 10/04/15 09:13

Date Received: 10/06/15 10:30

Sample Container: Summa Canister 6L

## Lab Sample ID: 200-30095-1

Matrix: Air

### Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>n-Butylbenzene</b>	<b>0.32</b>	<b>J</b>	1.1	0.26	ug/m3			10/07/15 00:53	1
1,2-Dichlorobenzene	1.2	U	1.2	0.33	ug/m3			10/07/15 00:53	1
1,2,4-Trichlorobenzene	3.7	U	3.7	0.50	ug/m3			10/07/15 00:53	1
Hexachlorobutadiene	2.1	U	2.1	0.87	ug/m3			10/07/15 00:53	1
Naphthalene	2.6	U	2.6	0.30	ug/m3			10/07/15 00:53	1

## Client Sample ID: INDOOR#2

Date Collected: 10/04/15 09:09

Date Received: 10/06/15 10:30

Sample Container: Summa Canister 6L

## Lab Sample ID: 200-30095-2

Matrix: Air

### Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Dichlorodifluoromethane</b>	<b>0.86</b>		0.50	0.080	ppb v/v			10/07/15 01:42	1
Freon 22	0.50	U	0.50	0.057	ppb v/v			10/07/15 01:42	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.038	ppb v/v			10/07/15 01:42	1
<b>Chloromethane</b>	<b>7.0</b>		0.50	0.093	ppb v/v			10/07/15 01:42	1
<b>n-Butane</b>	<b>1.3</b>		0.50	0.078	ppb v/v			10/07/15 01:42	1
Vinyl chloride	0.20	U	0.20	0.032	ppb v/v			10/07/15 01:42	1
1,3-Butadiene	0.20	U	0.20	0.089	ppb v/v			10/07/15 01:42	1
<b>Bromomethane</b>	<b>0.11</b>	<b>J</b>	0.20	0.056	ppb v/v			10/07/15 01:42	1
Chloroethane	0.50	U	0.50	0.085	ppb v/v			10/07/15 01:42	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.044	ppb v/v			10/07/15 01:42	1
<b>Trichlorofluoromethane</b>	<b>0.39</b>		0.20	0.038	ppb v/v			10/07/15 01:42	1
<b>Freon TF</b>	<b>0.14</b>	<b>J</b>	0.20	0.075	ppb v/v			10/07/15 01:42	1
1,1-Dichloroethene	0.20	U	0.20	0.036	ppb v/v			10/07/15 01:42	1
<b>Acetone</b>	<b>20</b>		5.0	0.86	ppb v/v			10/07/15 01:42	1
<b>Isopropyl alcohol</b>	<b>3.0</b>	<b>J</b>	5.0	0.98	ppb v/v			10/07/15 01:42	1
<b>Carbon disulfide</b>	<b>1.1</b>		0.50	0.043	ppb v/v			10/07/15 01:42	1
3-Chloropropene	0.50	U	0.50	0.068	ppb v/v			10/07/15 01:42	1
<b>Methylene Chloride</b>	<b>0.18</b>	<b>J</b>	0.50	0.18	ppb v/v			10/07/15 01:42	1
tert-Butyl alcohol	5.0	U	5.0	0.85	ppb v/v			10/07/15 01:42	1
Methyl tert-butyl ether	0.20	U	0.20	0.089	ppb v/v			10/07/15 01:42	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.043	ppb v/v			10/07/15 01:42	1
<b>n-Hexane</b>	<b>1.5</b>		0.20	0.054	ppb v/v			10/07/15 01:42	1
1,1-Dichloroethane	0.20	U	0.20	0.025	ppb v/v			10/07/15 01:42	1
<b>Methyl Ethyl Ketone</b>	<b>5.7</b>		0.50	0.052	ppb v/v			10/07/15 01:42	1
<b>cis-1,2-Dichloroethene</b>	<b>0.44</b>		0.20	0.035	ppb v/v			10/07/15 01:42	1
<b>1,2-Dichloroethene, Total</b>	<b>0.44</b>		0.40	0.035	ppb v/v			10/07/15 01:42	1
<b>Chloroform</b>	<b>0.10</b>	<b>J</b>	0.20	0.082	ppb v/v			10/07/15 01:42	1
<b>Tetrahydrofuran</b>	<b>6.4</b>		5.0	1.4	ppb v/v			10/07/15 01:42	1
1,1,1-Trichloroethane	0.20	U	0.20	0.046	ppb v/v			10/07/15 01:42	1
Cyclohexane	0.20	U	0.20	0.039	ppb v/v			10/07/15 01:42	1
<b>Carbon tetrachloride</b>	<b>0.15</b>	<b>J</b>	0.20	0.032	ppb v/v			10/07/15 01:42	1
<b>2,2,4-Trimethylpentane</b>	<b>0.040</b>	<b>J</b>	0.20	0.039	ppb v/v			10/07/15 01:42	1
<b>Benzene</b>	<b>0.17</b>	<b>J</b>	0.20	0.042	ppb v/v			10/07/15 01:42	1
1,2-Dichloroethane	0.20	U	0.20	0.041	ppb v/v			10/07/15 01:42	1
n-Heptane	0.20	U	0.20	0.040	ppb v/v			10/07/15 01:42	1
<b>Trichloroethene</b>	<b>5.8</b>		0.20	0.039	ppb v/v			10/07/15 01:42	1

TestAmerica Burlington

# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

**Client Sample ID: INDOOR#2**

**Lab Sample ID: 200-30095-2**

**Date Collected: 10/04/15 09:09**

**Matrix: Air**

**Date Received: 10/06/15 10:30**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl methacrylate	0.50	U	0.50	0.040	ppb v/v			10/07/15 01:42	1
1,2-Dichloropropane	0.20	U	0.20	0.027	ppb v/v			10/07/15 01:42	1
<b>1,4-Dioxane</b>	<b>3.2</b>	<b>J</b>	5.0	0.56	ppb v/v			10/07/15 01:42	1
Bromodichloromethane	0.20	U	0.20	0.030	ppb v/v			10/07/15 01:42	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.023	ppb v/v			10/07/15 01:42	1
<b>methyl isobutyl ketone</b>	<b>0.20</b>	<b>J</b>	0.50	0.050	ppb v/v			10/07/15 01:42	1
<b>Toluene</b>	<b>1.6</b>		0.20	0.093	ppb v/v			10/07/15 01:42	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.034	ppb v/v			10/07/15 01:42	1
1,1,2-Trichloroethane	0.20	U	0.20	0.039	ppb v/v			10/07/15 01:42	1
Tetrachloroethene	0.20	U	0.20	0.023	ppb v/v			10/07/15 01:42	1
<b>Methyl Butyl Ketone (2-Hexanone)</b>	<b>0.10</b>	<b>J</b>	0.50	0.057	ppb v/v			10/07/15 01:42	1
Dibromochloromethane	0.20	U	0.20	0.044	ppb v/v			10/07/15 01:42	1
1,2-Dibromoethane	0.20	U	0.20	0.039	ppb v/v			10/07/15 01:42	1
Chlorobenzene	0.20	U	0.20	0.049	ppb v/v			10/07/15 01:42	1
<b>Ethylbenzene</b>	<b>0.12</b>	<b>J</b>	0.20	0.033	ppb v/v			10/07/15 01:42	1
<b>m,p-Xylene</b>	<b>0.55</b>		0.50	0.071	ppb v/v			10/07/15 01:42	1
<b>Xylene, o-</b>	<b>0.21</b>		0.20	0.037	ppb v/v			10/07/15 01:42	1
<b>Xylene (total)</b>	<b>0.76</b>		0.70	0.037	ppb v/v			10/07/15 01:42	1
<b>Styrene</b>	<b>0.51</b>		0.20	0.043	ppb v/v			10/07/15 01:42	1
Bromoform	0.20	U	0.20	0.056	ppb v/v			10/07/15 01:42	1
<b>Cumene</b>	<b>0.032</b>	<b>J</b>	0.20	0.030	ppb v/v			10/07/15 01:42	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.044	ppb v/v			10/07/15 01:42	1
<b>n-Propylbenzene</b>	<b>0.050</b>	<b>J</b>	0.20	0.043	ppb v/v			10/07/15 01:42	1
<b>4-Ethyltoluene</b>	<b>0.073</b>	<b>J</b>	0.20	0.044	ppb v/v			10/07/15 01:42	1
<b>1,3,5-Trimethylbenzene</b>	<b>0.13</b>	<b>J</b>	0.20	0.039	ppb v/v			10/07/15 01:42	1
2-Chlorotoluene	0.20	U	0.20	0.033	ppb v/v			10/07/15 01:42	1
tert-Butylbenzene	0.20	U	0.20	0.044	ppb v/v			10/07/15 01:42	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.29</b>		0.20	0.043	ppb v/v			10/07/15 01:42	1
sec-Butylbenzene	0.20	U	0.20	0.044	ppb v/v			10/07/15 01:42	1
<b>4-Isopropyltoluene</b>	<b>0.092</b>	<b>J</b>	0.20	0.037	ppb v/v			10/07/15 01:42	1
1,3-Dichlorobenzene	0.20	U	0.20	0.055	ppb v/v			10/07/15 01:42	1
1,4-Dichlorobenzene	0.20	U	0.20	0.057	ppb v/v			10/07/15 01:42	1
Benzyl chloride	0.20	U	0.20	0.053	ppb v/v			10/07/15 01:42	1
n-Butylbenzene	0.20	U	0.20	0.047	ppb v/v			10/07/15 01:42	1
1,2-Dichlorobenzene	0.20	U	0.20	0.055	ppb v/v			10/07/15 01:42	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.068	ppb v/v			10/07/15 01:42	1
Hexachlorobutadiene	0.20	U	0.20	0.082	ppb v/v			10/07/15 01:42	1
<b>Naphthalene</b>	<b>0.079</b>	<b>J</b>	0.50	0.057	ppb v/v			10/07/15 01:42	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Dichlorodifluoromethane</b>	<b>4.3</b>		2.5	0.40	ug/m3			10/07/15 01:42	1
Freon 22	1.8	U	1.8	0.20	ug/m3			10/07/15 01:42	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.27	ug/m3			10/07/15 01:42	1
<b>Chloromethane</b>	<b>15</b>		1.0	0.19	ug/m3			10/07/15 01:42	1
<b>n-Butane</b>	<b>3.0</b>		1.2	0.19	ug/m3			10/07/15 01:42	1
Vinyl chloride	0.51	U	0.51	0.082	ug/m3			10/07/15 01:42	1
1,3-Butadiene	0.44	U	0.44	0.20	ug/m3			10/07/15 01:42	1
<b>Bromomethane</b>	<b>0.41</b>	<b>J</b>	0.78	0.22	ug/m3			10/07/15 01:42	1
Chloroethane	1.3	U	1.3	0.22	ug/m3			10/07/15 01:42	1

TestAmerica Burlington



# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

**Client Sample ID: INDOOR#2**

**Lab Sample ID: 200-30095-2**

Date Collected: 10/04/15 09:09

Matrix: Air

Date Received: 10/06/15 10:30

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.19	ug/m3			10/07/15 01:42	1
<b>Trichlorofluoromethane</b>	<b>2.2</b>		1.1	0.21	ug/m3			10/07/15 01:42	1
<b>Freon TF</b>	<b>1.0</b>	<b>J</b>	1.5	0.57	ug/m3			10/07/15 01:42	1
1,1-Dichloroethene	0.79	U	0.79	0.14	ug/m3			10/07/15 01:42	1
<b>Acetone</b>	<b>47</b>		12	2.0	ug/m3			10/07/15 01:42	1
<b>Isopropyl alcohol</b>	<b>7.3</b>	<b>J</b>	12	2.4	ug/m3			10/07/15 01:42	1
<b>Carbon disulfide</b>	<b>3.4</b>		1.6	0.13	ug/m3			10/07/15 01:42	1
3-Chloropropene	1.6	U	1.6	0.21	ug/m3			10/07/15 01:42	1
<b>Methylene Chloride</b>	<b>0.61</b>	<b>J</b>	1.7	0.63	ug/m3			10/07/15 01:42	1
tert-Butyl alcohol	15	U	15	2.6	ug/m3			10/07/15 01:42	1
Methyl tert-butyl ether	0.72	U	0.72	0.32	ug/m3			10/07/15 01:42	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.17	ug/m3			10/07/15 01:42	1
<b>n-Hexane</b>	<b>5.2</b>		0.70	0.19	ug/m3			10/07/15 01:42	1
1,1-Dichloroethane	0.81	U	0.81	0.10	ug/m3			10/07/15 01:42	1
<b>Methyl Ethyl Ketone</b>	<b>17</b>		1.5	0.15	ug/m3			10/07/15 01:42	1
<b>cis-1,2-Dichloroethene</b>	<b>1.7</b>		0.79	0.14	ug/m3			10/07/15 01:42	1
<b>1,2-Dichloroethene, Total</b>	<b>1.7</b>		1.6	0.14	ug/m3			10/07/15 01:42	1
<b>Chloroform</b>	<b>0.50</b>	<b>J</b>	0.98	0.40	ug/m3			10/07/15 01:42	1
<b>Tetrahydrofuran</b>	<b>19</b>		15	4.1	ug/m3			10/07/15 01:42	1
1,1,1-Trichloroethane	1.1	U	1.1	0.25	ug/m3			10/07/15 01:42	1
Cyclohexane	0.69	U	0.69	0.13	ug/m3			10/07/15 01:42	1
<b>Carbon tetrachloride</b>	<b>0.91</b>	<b>J</b>	1.3	0.20	ug/m3			10/07/15 01:42	1
<b>2,2,4-Trimethylpentane</b>	<b>0.19</b>	<b>J</b>	0.93	0.18	ug/m3			10/07/15 01:42	1
<b>Benzene</b>	<b>0.54</b>	<b>J</b>	0.64	0.13	ug/m3			10/07/15 01:42	1
1,2-Dichloroethane	0.81	U	0.81	0.17	ug/m3			10/07/15 01:42	1
n-Heptane	0.82	U	0.82	0.16	ug/m3			10/07/15 01:42	1
<b>Trichloroethene</b>	<b>31</b>		1.1	0.21	ug/m3			10/07/15 01:42	1
Methyl methacrylate	2.0	U	2.0	0.16	ug/m3			10/07/15 01:42	1
1,2-Dichloropropane	0.92	U	0.92	0.12	ug/m3			10/07/15 01:42	1
<b>1,4-Dioxane</b>	<b>11</b>	<b>J</b>	18	2.0	ug/m3			10/07/15 01:42	1
Bromodichloromethane	1.3	U	1.3	0.20	ug/m3			10/07/15 01:42	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.10	ug/m3			10/07/15 01:42	1
<b>methyl isobutyl ketone</b>	<b>0.81</b>	<b>J</b>	2.0	0.20	ug/m3			10/07/15 01:42	1
<b>Toluene</b>	<b>5.9</b>		0.75	0.35	ug/m3			10/07/15 01:42	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.15	ug/m3			10/07/15 01:42	1
1,1,2-Trichloroethane	1.1	U	1.1	0.21	ug/m3			10/07/15 01:42	1
Tetrachloroethene	1.4	U	1.4	0.16	ug/m3			10/07/15 01:42	1
<b>Methyl Butyl Ketone (2-Hexanone)</b>	<b>0.41</b>	<b>J</b>	2.0	0.23	ug/m3			10/07/15 01:42	1
Dibromochloromethane	1.7	U	1.7	0.37	ug/m3			10/07/15 01:42	1
1,2-Dibromoethane	1.5	U	1.5	0.30	ug/m3			10/07/15 01:42	1
Chlorobenzene	0.92	U	0.92	0.23	ug/m3			10/07/15 01:42	1
<b>Ethylbenzene</b>	<b>0.51</b>	<b>J</b>	0.87	0.14	ug/m3			10/07/15 01:42	1
<b>m,p-Xylene</b>	<b>2.4</b>		2.2	0.31	ug/m3			10/07/15 01:42	1
<b>Xylene, o-</b>	<b>0.91</b>		0.87	0.16	ug/m3			10/07/15 01:42	1
<b>Xylene (total)</b>	<b>3.3</b>		3.0	0.16	ug/m3			10/07/15 01:42	1
<b>Styrene</b>	<b>2.2</b>		0.85	0.18	ug/m3			10/07/15 01:42	1
Bromoform	2.1	U	2.1	0.58	ug/m3			10/07/15 01:42	1
<b>Cumene</b>	<b>0.16</b>	<b>J</b>	0.98	0.15	ug/m3			10/07/15 01:42	1

TestAmerica Burlington

# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

**Client Sample ID: INDOOR#2**

**Lab Sample ID: 200-30095-2**

Date Collected: 10/04/15 09:09

Matrix: Air

Date Received: 10/06/15 10:30

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			10/07/15 01:42	1
<b>n-Propylbenzene</b>	<b>0.24</b>	<b>J</b>	0.98	0.21	ug/m3			10/07/15 01:42	1
<b>4-Ethyltoluene</b>	<b>0.36</b>	<b>J</b>	0.98	0.22	ug/m3			10/07/15 01:42	1
<b>1,3,5-Trimethylbenzene</b>	<b>0.62</b>	<b>J</b>	0.98	0.19	ug/m3			10/07/15 01:42	1
2-Chlorotoluene	1.0	U	1.0	0.17	ug/m3			10/07/15 01:42	1
tert-Butylbenzene	1.1	U	1.1	0.24	ug/m3			10/07/15 01:42	1
<b>1,2,4-Trimethylbenzene</b>	<b>1.4</b>		0.98	0.21	ug/m3			10/07/15 01:42	1
sec-Butylbenzene	1.1	U	1.1	0.24	ug/m3			10/07/15 01:42	1
<b>4-Isopropyltoluene</b>	<b>0.50</b>	<b>J</b>	1.1	0.20	ug/m3			10/07/15 01:42	1
1,3-Dichlorobenzene	1.2	U	1.2	0.33	ug/m3			10/07/15 01:42	1
1,4-Dichlorobenzene	1.2	U	1.2	0.34	ug/m3			10/07/15 01:42	1
Benzyl chloride	1.0	U	1.0	0.27	ug/m3			10/07/15 01:42	1
n-Butylbenzene	1.1	U	1.1	0.26	ug/m3			10/07/15 01:42	1
1,2-Dichlorobenzene	1.2	U	1.2	0.33	ug/m3			10/07/15 01:42	1
1,2,4-Trichlorobenzene	3.7	U	3.7	0.50	ug/m3			10/07/15 01:42	1
Hexachlorobutadiene	2.1	U	2.1	0.87	ug/m3			10/07/15 01:42	1
<b>Naphthalene</b>	<b>0.42</b>	<b>J</b>	2.6	0.30	ug/m3			10/07/15 01:42	1

**Client Sample ID: INDOOR#3**

**Lab Sample ID: 200-30095-3**

Date Collected: 10/04/15 09:18

Matrix: Air

Date Received: 10/06/15 10:30

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Dichlorodifluoromethane</b>	<b>0.63</b>		0.50	0.080	ppb v/v			10/07/15 02:32	1
Freon 22	0.50	U	0.50	0.057	ppb v/v			10/07/15 02:32	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.038	ppb v/v			10/07/15 02:32	1
<b>Chloromethane</b>	<b>1.2</b>		0.50	0.093	ppb v/v			10/07/15 02:32	1
<b>n-Butane</b>	<b>0.90</b>		0.50	0.078	ppb v/v			10/07/15 02:32	1
Vinyl chloride	0.20	U	0.20	0.032	ppb v/v			10/07/15 02:32	1
1,3-Butadiene	0.20	U	0.20	0.089	ppb v/v			10/07/15 02:32	1
Bromomethane	0.20	U	0.20	0.056	ppb v/v			10/07/15 02:32	1
Chloroethane	0.50	U	0.50	0.085	ppb v/v			10/07/15 02:32	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.044	ppb v/v			10/07/15 02:32	1
<b>Trichlorofluoromethane</b>	<b>0.29</b>		0.20	0.038	ppb v/v			10/07/15 02:32	1
<b>Freon TF</b>	<b>0.097</b>	<b>J</b>	0.20	0.075	ppb v/v			10/07/15 02:32	1
1,1-Dichloroethene	0.20	U	0.20	0.036	ppb v/v			10/07/15 02:32	1
<b>Acetone</b>	<b>22</b>		5.0	0.86	ppb v/v			10/07/15 02:32	1
<b>Isopropyl alcohol</b>	<b>28</b>		5.0	0.98	ppb v/v			10/07/15 02:32	1
<b>Carbon disulfide</b>	<b>6.1</b>		0.50	0.043	ppb v/v			10/07/15 02:32	1
3-Chloropropene	0.50	U	0.50	0.068	ppb v/v			10/07/15 02:32	1
<b>Methylene Chloride</b>	<b>0.20</b>	<b>J</b>	0.50	0.18	ppb v/v			10/07/15 02:32	1
tert-Butyl alcohol	5.0	U	5.0	0.85	ppb v/v			10/07/15 02:32	1
Methyl tert-butyl ether	0.20	U	0.20	0.089	ppb v/v			10/07/15 02:32	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.043	ppb v/v			10/07/15 02:32	1
<b>n-Hexane</b>	<b>1.5</b>		0.20	0.054	ppb v/v			10/07/15 02:32	1
1,1-Dichloroethane	0.20	U	0.20	0.025	ppb v/v			10/07/15 02:32	1
<b>Methyl Ethyl Ketone</b>	<b>5.2</b>		0.50	0.052	ppb v/v			10/07/15 02:32	1

TestAmerica Burlington

# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

**Client Sample ID: INDOOR#3**

**Lab Sample ID: 200-30095-3**

Date Collected: 10/04/15 09:18

Matrix: Air

Date Received: 10/06/15 10:30

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>cis-1,2-Dichloroethene</b>	<b>0.048</b>	<b>J</b>	0.20	0.035	ppb v/v			10/07/15 02:32	1
<b>1,2-Dichloroethene, Total</b>	<b>0.048</b>	<b>J</b>	0.40	0.035	ppb v/v			10/07/15 02:32	1
Chloroform	0.20	U	0.20	0.082	ppb v/v			10/07/15 02:32	1
<b>Tetrahydrofuran</b>	<b>3.6</b>	<b>J</b>	5.0	1.4	ppb v/v			10/07/15 02:32	1
1,1,1-Trichloroethane	0.20	U	0.20	0.046	ppb v/v			10/07/15 02:32	1
<b>Cyclohexane</b>	<b>0.043</b>	<b>J</b>	0.20	0.039	ppb v/v			10/07/15 02:32	1
<b>Carbon tetrachloride</b>	<b>0.11</b>	<b>J</b>	0.20	0.032	ppb v/v			10/07/15 02:32	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.039	ppb v/v			10/07/15 02:32	1
<b>Benzene</b>	<b>0.15</b>	<b>J</b>	0.20	0.042	ppb v/v			10/07/15 02:32	1
1,2-Dichloroethane	0.20	U	0.20	0.041	ppb v/v			10/07/15 02:32	1
n-Heptane	0.20	U	0.20	0.040	ppb v/v			10/07/15 02:32	1
<b>Trichloroethene</b>	<b>0.63</b>		0.20	0.039	ppb v/v			10/07/15 02:32	1
Methyl methacrylate	0.50	U	0.50	0.040	ppb v/v			10/07/15 02:32	1
1,2-Dichloropropane	0.20	U	0.20	0.027	ppb v/v			10/07/15 02:32	1
<b>1,4-Dioxane</b>	<b>3.4</b>	<b>J</b>	5.0	0.56	ppb v/v			10/07/15 02:32	1
Bromodichloromethane	0.20	U	0.20	0.030	ppb v/v			10/07/15 02:32	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.023	ppb v/v			10/07/15 02:32	1
<b>methyl isobutyl ketone</b>	<b>0.28</b>	<b>J</b>	0.50	0.050	ppb v/v			10/07/15 02:32	1
<b>Toluene</b>	<b>1.8</b>		0.20	0.093	ppb v/v			10/07/15 02:32	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.034	ppb v/v			10/07/15 02:32	1
1,1,2-Trichloroethane	0.20	U	0.20	0.039	ppb v/v			10/07/15 02:32	1
Tetrachloroethene	0.20	U	0.20	0.023	ppb v/v			10/07/15 02:32	1
<b>Methyl Butyl Ketone (2-Hexanone)</b>	<b>0.30</b>	<b>J</b>	0.50	0.057	ppb v/v			10/07/15 02:32	1
Dibromochloromethane	0.20	U	0.20	0.044	ppb v/v			10/07/15 02:32	1
1,2-Dibromoethane	0.20	U	0.20	0.039	ppb v/v			10/07/15 02:32	1
Chlorobenzene	0.20	U	0.20	0.049	ppb v/v			10/07/15 02:32	1
<b>Ethylbenzene</b>	<b>0.25</b>		0.20	0.033	ppb v/v			10/07/15 02:32	1
<b>m,p-Xylene</b>	<b>1.3</b>		0.50	0.071	ppb v/v			10/07/15 02:32	1
<b>Xylene, o-</b>	<b>0.50</b>		0.20	0.037	ppb v/v			10/07/15 02:32	1
<b>Xylene (total)</b>	<b>1.8</b>		0.70	0.037	ppb v/v			10/07/15 02:32	1
<b>Styrene</b>	<b>0.40</b>		0.20	0.043	ppb v/v			10/07/15 02:32	1
Bromoform	0.20	U	0.20	0.056	ppb v/v			10/07/15 02:32	1
<b>Cumene</b>	<b>0.042</b>	<b>J</b>	0.20	0.030	ppb v/v			10/07/15 02:32	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.044	ppb v/v			10/07/15 02:32	1
<b>n-Propylbenzene</b>	<b>0.072</b>	<b>J</b>	0.20	0.043	ppb v/v			10/07/15 02:32	1
<b>4-Ethyltoluene</b>	<b>0.098</b>	<b>J</b>	0.20	0.044	ppb v/v			10/07/15 02:32	1
<b>1,3,5-Trimethylbenzene</b>	<b>0.17</b>	<b>J</b>	0.20	0.039	ppb v/v			10/07/15 02:32	1
2-Chlorotoluene	0.20	U	0.20	0.033	ppb v/v			10/07/15 02:32	1
tert-Butylbenzene	0.20	U	0.20	0.044	ppb v/v			10/07/15 02:32	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.46</b>		0.20	0.043	ppb v/v			10/07/15 02:32	1
sec-Butylbenzene	0.20	U	0.20	0.044	ppb v/v			10/07/15 02:32	1
<b>4-Isopropyltoluene</b>	<b>0.34</b>		0.20	0.037	ppb v/v			10/07/15 02:32	1
1,3-Dichlorobenzene	0.20	U	0.20	0.055	ppb v/v			10/07/15 02:32	1
1,4-Dichlorobenzene	0.20	U	0.20	0.057	ppb v/v			10/07/15 02:32	1
Benzyl chloride	0.20	U	0.20	0.053	ppb v/v			10/07/15 02:32	1
n-Butylbenzene	0.20	U	0.20	0.047	ppb v/v			10/07/15 02:32	1
1,2-Dichlorobenzene	0.20	U	0.20	0.055	ppb v/v			10/07/15 02:32	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.068	ppb v/v			10/07/15 02:32	1

TestAmerica Burlington

# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

**Client Sample ID: INDOOR#3**

**Lab Sample ID: 200-30095-3**

**Date Collected: 10/04/15 09:18**

**Matrix: Air**

**Date Received: 10/06/15 10:30**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	0.20	U	0.20	0.082	ppb v/v			10/07/15 02:32	1
<b>Naphthalene</b>	<b>0.80</b>		0.50	0.057	ppb v/v			10/07/15 02:32	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Dichlorodifluoromethane</b>	<b>3.1</b>		2.5	0.40	ug/m3			10/07/15 02:32	1
Freon 22	1.8	U	1.8	0.20	ug/m3			10/07/15 02:32	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.27	ug/m3			10/07/15 02:32	1
<b>Chloromethane</b>	<b>2.5</b>		1.0	0.19	ug/m3			10/07/15 02:32	1
<b>n-Butane</b>	<b>2.1</b>		1.2	0.19	ug/m3			10/07/15 02:32	1
Vinyl chloride	0.51	U	0.51	0.082	ug/m3			10/07/15 02:32	1
1,3-Butadiene	0.44	U	0.44	0.20	ug/m3			10/07/15 02:32	1
Bromomethane	0.78	U	0.78	0.22	ug/m3			10/07/15 02:32	1
Chloroethane	1.3	U	1.3	0.22	ug/m3			10/07/15 02:32	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.19	ug/m3			10/07/15 02:32	1
<b>Trichlorofluoromethane</b>	<b>1.6</b>		1.1	0.21	ug/m3			10/07/15 02:32	1
<b>Freon TF</b>	<b>0.74</b>	<b>J</b>	1.5	0.57	ug/m3			10/07/15 02:32	1
1,1-Dichloroethene	0.79	U	0.79	0.14	ug/m3			10/07/15 02:32	1
<b>Acetone</b>	<b>52</b>		12	2.0	ug/m3			10/07/15 02:32	1
<b>Isopropyl alcohol</b>	<b>70</b>		12	2.4	ug/m3			10/07/15 02:32	1
<b>Carbon disulfide</b>	<b>19</b>		1.6	0.13	ug/m3			10/07/15 02:32	1
3-Chloropropene	1.6	U	1.6	0.21	ug/m3			10/07/15 02:32	1
<b>Methylene Chloride</b>	<b>0.71</b>	<b>J</b>	1.7	0.63	ug/m3			10/07/15 02:32	1
tert-Butyl alcohol	15	U	15	2.6	ug/m3			10/07/15 02:32	1
Methyl tert-butyl ether	0.72	U	0.72	0.32	ug/m3			10/07/15 02:32	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.17	ug/m3			10/07/15 02:32	1
<b>n-Hexane</b>	<b>5.3</b>		0.70	0.19	ug/m3			10/07/15 02:32	1
1,1-Dichloroethane	0.81	U	0.81	0.10	ug/m3			10/07/15 02:32	1
<b>Methyl Ethyl Ketone</b>	<b>15</b>		1.5	0.15	ug/m3			10/07/15 02:32	1
<b>cis-1,2-Dichloroethene</b>	<b>0.19</b>	<b>J</b>	0.79	0.14	ug/m3			10/07/15 02:32	1
<b>1,2-Dichloroethene, Total</b>	<b>0.19</b>	<b>J</b>	1.6	0.14	ug/m3			10/07/15 02:32	1
Chloroform	0.98	U	0.98	0.40	ug/m3			10/07/15 02:32	1
<b>Tetrahydrofuran</b>	<b>11</b>	<b>J</b>	15	4.1	ug/m3			10/07/15 02:32	1
1,1,1-Trichloroethane	1.1	U	1.1	0.25	ug/m3			10/07/15 02:32	1
<b>Cyclohexane</b>	<b>0.15</b>	<b>J</b>	0.69	0.13	ug/m3			10/07/15 02:32	1
<b>Carbon tetrachloride</b>	<b>0.70</b>	<b>J</b>	1.3	0.20	ug/m3			10/07/15 02:32	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.18	ug/m3			10/07/15 02:32	1
<b>Benzene</b>	<b>0.49</b>	<b>J</b>	0.64	0.13	ug/m3			10/07/15 02:32	1
1,2-Dichloroethane	0.81	U	0.81	0.17	ug/m3			10/07/15 02:32	1
n-Heptane	0.82	U	0.82	0.16	ug/m3			10/07/15 02:32	1
<b>Trichloroethene</b>	<b>3.4</b>		1.1	0.21	ug/m3			10/07/15 02:32	1
Methyl methacrylate	2.0	U	2.0	0.16	ug/m3			10/07/15 02:32	1
1,2-Dichloropropane	0.92	U	0.92	0.12	ug/m3			10/07/15 02:32	1
<b>1,4-Dioxane</b>	<b>12</b>	<b>J</b>	18	2.0	ug/m3			10/07/15 02:32	1
Bromodichloromethane	1.3	U	1.3	0.20	ug/m3			10/07/15 02:32	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.10	ug/m3			10/07/15 02:32	1
<b>methyl isobutyl ketone</b>	<b>1.2</b>	<b>J</b>	2.0	0.20	ug/m3			10/07/15 02:32	1
<b>Toluene</b>	<b>6.9</b>		0.75	0.35	ug/m3			10/07/15 02:32	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.15	ug/m3			10/07/15 02:32	1
1,1,2-Trichloroethane	1.1	U	1.1	0.21	ug/m3			10/07/15 02:32	1

TestAmerica Burlington

# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

**Client Sample ID: INDOOR#3**

**Lab Sample ID: 200-30095-3**

Date Collected: 10/04/15 09:18

Matrix: Air

Date Received: 10/06/15 10:30

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.4	U	1.4	0.16	ug/m3			10/07/15 02:32	1
<b>Methyl Butyl Ketone (2-Hexanone)</b>	<b>1.2</b>	<b>J</b>	2.0	0.23	ug/m3			10/07/15 02:32	1
Dibromochloromethane	1.7	U	1.7	0.37	ug/m3			10/07/15 02:32	1
1,2-Dibromoethane	1.5	U	1.5	0.30	ug/m3			10/07/15 02:32	1
Chlorobenzene	0.92	U	0.92	0.23	ug/m3			10/07/15 02:32	1
<b>Ethylbenzene</b>	<b>1.1</b>		0.87	0.14	ug/m3			10/07/15 02:32	1
<b>m,p-Xylene</b>	<b>5.6</b>		2.2	0.31	ug/m3			10/07/15 02:32	1
<b>Xylene, o-</b>	<b>2.2</b>		0.87	0.16	ug/m3			10/07/15 02:32	1
<b>Xylene (total)</b>	<b>7.8</b>		3.0	0.16	ug/m3			10/07/15 02:32	1
<b>Styrene</b>	<b>1.7</b>		0.85	0.18	ug/m3			10/07/15 02:32	1
Bromoform	2.1	U	2.1	0.58	ug/m3			10/07/15 02:32	1
<b>Cumene</b>	<b>0.21</b>	<b>J</b>	0.98	0.15	ug/m3			10/07/15 02:32	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			10/07/15 02:32	1
<b>n-Propylbenzene</b>	<b>0.36</b>	<b>J</b>	0.98	0.21	ug/m3			10/07/15 02:32	1
<b>4-Ethyltoluene</b>	<b>0.48</b>	<b>J</b>	0.98	0.22	ug/m3			10/07/15 02:32	1
<b>1,3,5-Trimethylbenzene</b>	<b>0.84</b>	<b>J</b>	0.98	0.19	ug/m3			10/07/15 02:32	1
2-Chlorotoluene	1.0	U	1.0	0.17	ug/m3			10/07/15 02:32	1
tert-Butylbenzene	1.1	U	1.1	0.24	ug/m3			10/07/15 02:32	1
<b>1,2,4-Trimethylbenzene</b>	<b>2.3</b>		0.98	0.21	ug/m3			10/07/15 02:32	1
sec-Butylbenzene	1.1	U	1.1	0.24	ug/m3			10/07/15 02:32	1
<b>4-Isopropyltoluene</b>	<b>1.9</b>		1.1	0.20	ug/m3			10/07/15 02:32	1
1,3-Dichlorobenzene	1.2	U	1.2	0.33	ug/m3			10/07/15 02:32	1
1,4-Dichlorobenzene	1.2	U	1.2	0.34	ug/m3			10/07/15 02:32	1
Benzyl chloride	1.0	U	1.0	0.27	ug/m3			10/07/15 02:32	1
n-Butylbenzene	1.1	U	1.1	0.26	ug/m3			10/07/15 02:32	1
1,2-Dichlorobenzene	1.2	U	1.2	0.33	ug/m3			10/07/15 02:32	1
1,2,4-Trichlorobenzene	3.7	U	3.7	0.50	ug/m3			10/07/15 02:32	1
Hexachlorobutadiene	2.1	U	2.1	0.87	ug/m3			10/07/15 02:32	1
<b>Naphthalene</b>	<b>4.2</b>		2.6	0.30	ug/m3			10/07/15 02:32	1

**Client Sample ID: OUTDOOR#1**

**Lab Sample ID: 200-30095-4**

Date Collected: 10/04/15 09:23

Matrix: Air

Date Received: 10/06/15 10:30

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Dichlorodifluoromethane</b>	<b>0.65</b>		0.50	0.080	ppb v/v			10/07/15 03:21	1
<b>Freon 22</b>	<b>0.36</b>	<b>J</b>	0.50	0.057	ppb v/v			10/07/15 03:21	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.038	ppb v/v			10/07/15 03:21	1
<b>Chloromethane</b>	<b>0.60</b>		0.50	0.093	ppb v/v			10/07/15 03:21	1
<b>n-Butane</b>	<b>1.1</b>		0.50	0.078	ppb v/v			10/07/15 03:21	1
Vinyl chloride	0.20	U	0.20	0.032	ppb v/v			10/07/15 03:21	1
1,3-Butadiene	0.20	U	0.20	0.089	ppb v/v			10/07/15 03:21	1
Bromomethane	0.20	U	0.20	0.056	ppb v/v			10/07/15 03:21	1
Chloroethane	0.50	U	0.50	0.085	ppb v/v			10/07/15 03:21	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.044	ppb v/v			10/07/15 03:21	1
<b>Trichlorofluoromethane</b>	<b>0.29</b>		0.20	0.038	ppb v/v			10/07/15 03:21	1
<b>Freon TF</b>	<b>0.095</b>	<b>J</b>	0.20	0.075	ppb v/v			10/07/15 03:21	1

TestAmerica Burlington

# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

**Client Sample ID: OUTDOOR#1**

**Lab Sample ID: 200-30095-4**

Date Collected: 10/04/15 09:23

Matrix: Air

Date Received: 10/06/15 10:30

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.20	U	0.20	0.036	ppb v/v			10/07/15 03:21	1
<b>Acetone</b>	<b>5.7</b>		5.0	0.86	ppb v/v			10/07/15 03:21	1
Isopropyl alcohol	5.0	U	5.0	0.98	ppb v/v			10/07/15 03:21	1
<b>Carbon disulfide</b>	<b>0.30</b>	<b>J</b>	0.50	0.043	ppb v/v			10/07/15 03:21	1
3-Chloropropene	0.50	U	0.50	0.068	ppb v/v			10/07/15 03:21	1
Methylene Chloride	0.50	U	0.50	0.18	ppb v/v			10/07/15 03:21	1
tert-Butyl alcohol	5.0	U	5.0	0.85	ppb v/v			10/07/15 03:21	1
Methyl tert-butyl ether	0.20	U	0.20	0.089	ppb v/v			10/07/15 03:21	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.043	ppb v/v			10/07/15 03:21	1
<b>n-Hexane</b>	<b>0.070</b>	<b>J</b>	0.20	0.054	ppb v/v			10/07/15 03:21	1
1,1-Dichloroethane	0.20	U	0.20	0.025	ppb v/v			10/07/15 03:21	1
<b>Methyl Ethyl Ketone</b>	<b>0.88</b>		0.50	0.052	ppb v/v			10/07/15 03:21	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.035	ppb v/v			10/07/15 03:21	1
1,2-Dichloroethene, Total	0.40	U	0.40	0.035	ppb v/v			10/07/15 03:21	1
Chloroform	0.20	U	0.20	0.082	ppb v/v			10/07/15 03:21	1
Tetrahydrofuran	5.0	U	5.0	1.4	ppb v/v			10/07/15 03:21	1
1,1,1-Trichloroethane	0.20	U	0.20	0.046	ppb v/v			10/07/15 03:21	1
Cyclohexane	0.20	U	0.20	0.039	ppb v/v			10/07/15 03:21	1
<b>Carbon tetrachloride</b>	<b>0.11</b>	<b>J</b>	0.20	0.032	ppb v/v			10/07/15 03:21	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.039	ppb v/v			10/07/15 03:21	1
<b>Benzene</b>	<b>0.11</b>	<b>J</b>	0.20	0.042	ppb v/v			10/07/15 03:21	1
1,2-Dichloroethane	0.20	U	0.20	0.041	ppb v/v			10/07/15 03:21	1
n-Heptane	0.20	U	0.20	0.040	ppb v/v			10/07/15 03:21	1
Trichloroethene	0.20	U	0.20	0.039	ppb v/v			10/07/15 03:21	1
Methyl methacrylate	0.50	U	0.50	0.040	ppb v/v			10/07/15 03:21	1
1,2-Dichloropropane	0.20	U	0.20	0.027	ppb v/v			10/07/15 03:21	1
1,4-Dioxane	5.0	U	5.0	0.56	ppb v/v			10/07/15 03:21	1
Bromodichloromethane	0.20	U	0.20	0.030	ppb v/v			10/07/15 03:21	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.023	ppb v/v			10/07/15 03:21	1
methyl isobutyl ketone	0.50	U	0.50	0.050	ppb v/v			10/07/15 03:21	1
<b>Toluene</b>	<b>0.18</b>	<b>J</b>	0.20	0.093	ppb v/v			10/07/15 03:21	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.034	ppb v/v			10/07/15 03:21	1
1,1,2-Trichloroethane	0.20	U	0.20	0.039	ppb v/v			10/07/15 03:21	1
Tetrachloroethene	0.20	U	0.20	0.023	ppb v/v			10/07/15 03:21	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.057	ppb v/v			10/07/15 03:21	1
Dibromochloromethane	0.20	U	0.20	0.044	ppb v/v			10/07/15 03:21	1
1,2-Dibromoethane	0.20	U	0.20	0.039	ppb v/v			10/07/15 03:21	1
<b>Chlorobenzene</b>	<b>0.16</b>	<b>J</b>	0.20	0.049	ppb v/v			10/07/15 03:21	1
Ethylbenzene	0.20	U	0.20	0.033	ppb v/v			10/07/15 03:21	1
<b>m,p-Xylene</b>	<b>0.081</b>	<b>J</b>	0.50	0.071	ppb v/v			10/07/15 03:21	1
Xylene, o-	0.20	U	0.20	0.037	ppb v/v			10/07/15 03:21	1
<b>Xylene (total)</b>	<b>0.081</b>	<b>J</b>	0.70	0.037	ppb v/v			10/07/15 03:21	1
<b>Styrene</b>	<b>0.044</b>	<b>J</b>	0.20	0.043	ppb v/v			10/07/15 03:21	1
Bromoform	0.20	U	0.20	0.056	ppb v/v			10/07/15 03:21	1
Cumene	0.20	U	0.20	0.030	ppb v/v			10/07/15 03:21	1
1,1,1,2-Tetrachloroethane	0.20	U	0.20	0.044	ppb v/v			10/07/15 03:21	1
n-Propylbenzene	0.20	U	0.20	0.043	ppb v/v			10/07/15 03:21	1
4-Ethyltoluene	0.20	U	0.20	0.044	ppb v/v			10/07/15 03:21	1

TestAmerica Burlington



# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

**Client Sample ID: OUTDOOR#1**

**Lab Sample ID: 200-30095-4**

**Date Collected: 10/04/15 09:23**

**Matrix: Air**

**Date Received: 10/06/15 10:30**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	0.20	U	0.20	0.039	ppb v/v			10/07/15 03:21	1
2-Chlorotoluene	0.20	U	0.20	0.033	ppb v/v			10/07/15 03:21	1
tert-Butylbenzene	0.20	U	0.20	0.044	ppb v/v			10/07/15 03:21	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.043	ppb v/v			10/07/15 03:21	1
sec-Butylbenzene	0.20	U	0.20	0.044	ppb v/v			10/07/15 03:21	1
4-Isopropyltoluene	0.20	U	0.20	0.037	ppb v/v			10/07/15 03:21	1
1,3-Dichlorobenzene	0.20	U	0.20	0.055	ppb v/v			10/07/15 03:21	1
1,4-Dichlorobenzene	0.20	U	0.20	0.057	ppb v/v			10/07/15 03:21	1
Benzyl chloride	0.20	U	0.20	0.053	ppb v/v			10/07/15 03:21	1
n-Butylbenzene	0.20	U	0.20	0.047	ppb v/v			10/07/15 03:21	1
1,2-Dichlorobenzene	0.20	U	0.20	0.055	ppb v/v			10/07/15 03:21	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.068	ppb v/v			10/07/15 03:21	1
Hexachlorobutadiene	0.20	U	0.20	0.082	ppb v/v			10/07/15 03:21	1
Naphthalene	0.50	U	0.50	0.057	ppb v/v			10/07/15 03:21	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Dichlorodifluoromethane</b>	<b>3.2</b>		2.5	0.40	ug/m3			10/07/15 03:21	1
<b>Freon 22</b>	<b>1.3</b>	<b>J</b>	1.8	0.20	ug/m3			10/07/15 03:21	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.27	ug/m3			10/07/15 03:21	1
<b>Chloromethane</b>	<b>1.2</b>		1.0	0.19	ug/m3			10/07/15 03:21	1
<b>n-Butane</b>	<b>2.6</b>		1.2	0.19	ug/m3			10/07/15 03:21	1
Vinyl chloride	0.51	U	0.51	0.082	ug/m3			10/07/15 03:21	1
1,3-Butadiene	0.44	U	0.44	0.20	ug/m3			10/07/15 03:21	1
Bromomethane	0.78	U	0.78	0.22	ug/m3			10/07/15 03:21	1
Chloroethane	1.3	U	1.3	0.22	ug/m3			10/07/15 03:21	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.19	ug/m3			10/07/15 03:21	1
<b>Trichlorofluoromethane</b>	<b>1.6</b>		1.1	0.21	ug/m3			10/07/15 03:21	1
<b>Freon TF</b>	<b>0.73</b>	<b>J</b>	1.5	0.57	ug/m3			10/07/15 03:21	1
1,1-Dichloroethene	0.79	U	0.79	0.14	ug/m3			10/07/15 03:21	1
<b>Acetone</b>	<b>14</b>		12	2.0	ug/m3			10/07/15 03:21	1
Isopropyl alcohol	12	U	12	2.4	ug/m3			10/07/15 03:21	1
<b>Carbon disulfide</b>	<b>0.93</b>	<b>J</b>	1.6	0.13	ug/m3			10/07/15 03:21	1
3-Chloropropene	1.6	U	1.6	0.21	ug/m3			10/07/15 03:21	1
Methylene Chloride	1.7	U	1.7	0.63	ug/m3			10/07/15 03:21	1
tert-Butyl alcohol	15	U	15	2.6	ug/m3			10/07/15 03:21	1
Methyl tert-butyl ether	0.72	U	0.72	0.32	ug/m3			10/07/15 03:21	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.17	ug/m3			10/07/15 03:21	1
<b>n-Hexane</b>	<b>0.25</b>	<b>J</b>	0.70	0.19	ug/m3			10/07/15 03:21	1
1,1-Dichloroethane	0.81	U	0.81	0.10	ug/m3			10/07/15 03:21	1
<b>Methyl Ethyl Ketone</b>	<b>2.6</b>		1.5	0.15	ug/m3			10/07/15 03:21	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.14	ug/m3			10/07/15 03:21	1
1,2-Dichloroethene, Total	1.6	U	1.6	0.14	ug/m3			10/07/15 03:21	1
Chloroform	0.98	U	0.98	0.40	ug/m3			10/07/15 03:21	1
Tetrahydrofuran	15	U	15	4.1	ug/m3			10/07/15 03:21	1
1,1,1-Trichloroethane	1.1	U	1.1	0.25	ug/m3			10/07/15 03:21	1
Cyclohexane	0.69	U	0.69	0.13	ug/m3			10/07/15 03:21	1
<b>Carbon tetrachloride</b>	<b>0.67</b>	<b>J</b>	1.3	0.20	ug/m3			10/07/15 03:21	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.18	ug/m3			10/07/15 03:21	1
<b>Benzene</b>	<b>0.34</b>	<b>J</b>	0.64	0.13	ug/m3			10/07/15 03:21	1

TestAmerica Burlington

# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

**Client Sample ID: OUTDOOR#1**

**Lab Sample ID: 200-30095-4**

Date Collected: 10/04/15 09:23

Matrix: Air

Date Received: 10/06/15 10:30

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	0.81	U	0.81	0.17	ug/m3			10/07/15 03:21	1
n-Heptane	0.82	U	0.82	0.16	ug/m3			10/07/15 03:21	1
Trichloroethene	1.1	U	1.1	0.21	ug/m3			10/07/15 03:21	1
Methyl methacrylate	2.0	U	2.0	0.16	ug/m3			10/07/15 03:21	1
1,2-Dichloropropane	0.92	U	0.92	0.12	ug/m3			10/07/15 03:21	1
1,4-Dioxane	18	U	18	2.0	ug/m3			10/07/15 03:21	1
Bromodichloromethane	1.3	U	1.3	0.20	ug/m3			10/07/15 03:21	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.10	ug/m3			10/07/15 03:21	1
methyl isobutyl ketone	2.0	U	2.0	0.20	ug/m3			10/07/15 03:21	1
<b>Toluene</b>	<b>0.66</b>	<b>J</b>	0.75	0.35	ug/m3			10/07/15 03:21	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.15	ug/m3			10/07/15 03:21	1
1,1,2-Trichloroethane	1.1	U	1.1	0.21	ug/m3			10/07/15 03:21	1
Tetrachloroethene	1.4	U	1.4	0.16	ug/m3			10/07/15 03:21	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.23	ug/m3			10/07/15 03:21	1
Dibromochloromethane	1.7	U	1.7	0.37	ug/m3			10/07/15 03:21	1
1,2-Dibromoethane	1.5	U	1.5	0.30	ug/m3			10/07/15 03:21	1
<b>Chlorobenzene</b>	<b>0.73</b>	<b>J</b>	0.92	0.23	ug/m3			10/07/15 03:21	1
Ethylbenzene	0.87	U	0.87	0.14	ug/m3			10/07/15 03:21	1
<b>m,p-Xylene</b>	<b>0.35</b>	<b>J</b>	2.2	0.31	ug/m3			10/07/15 03:21	1
Xylene, o-	0.87	U	0.87	0.16	ug/m3			10/07/15 03:21	1
<b>Xylene (total)</b>	<b>0.35</b>	<b>J</b>	3.0	0.16	ug/m3			10/07/15 03:21	1
<b>Styrene</b>	<b>0.19</b>	<b>J</b>	0.85	0.18	ug/m3			10/07/15 03:21	1
Bromoform	2.1	U	2.1	0.58	ug/m3			10/07/15 03:21	1
Cumene	0.98	U	0.98	0.15	ug/m3			10/07/15 03:21	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			10/07/15 03:21	1
n-Propylbenzene	0.98	U	0.98	0.21	ug/m3			10/07/15 03:21	1
4-Ethyltoluene	0.98	U	0.98	0.22	ug/m3			10/07/15 03:21	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.19	ug/m3			10/07/15 03:21	1
2-Chlorotoluene	1.0	U	1.0	0.17	ug/m3			10/07/15 03:21	1
tert-Butylbenzene	1.1	U	1.1	0.24	ug/m3			10/07/15 03:21	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.21	ug/m3			10/07/15 03:21	1
sec-Butylbenzene	1.1	U	1.1	0.24	ug/m3			10/07/15 03:21	1
4-Isopropyltoluene	1.1	U	1.1	0.20	ug/m3			10/07/15 03:21	1
1,3-Dichlorobenzene	1.2	U	1.2	0.33	ug/m3			10/07/15 03:21	1
1,4-Dichlorobenzene	1.2	U	1.2	0.34	ug/m3			10/07/15 03:21	1
Benzyl chloride	1.0	U	1.0	0.27	ug/m3			10/07/15 03:21	1
n-Butylbenzene	1.1	U	1.1	0.26	ug/m3			10/07/15 03:21	1
1,2-Dichlorobenzene	1.2	U	1.2	0.33	ug/m3			10/07/15 03:21	1
1,2,4-Trichlorobenzene	3.7	U	3.7	0.50	ug/m3			10/07/15 03:21	1
Hexachlorobutadiene	2.1	U	2.1	0.87	ug/m3			10/07/15 03:21	1
Naphthalene	2.6	U	2.6	0.30	ug/m3			10/07/15 03:21	1



# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

**Client Sample ID: OUTDOOR#2**

**Lab Sample ID: 200-30095-5**

Date Collected: 10/04/15 00:00

Matrix: Air

Date Received: 10/06/15 10:30

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.55		0.50	0.080	ppb v/v			10/07/15 04:11	1
Freon 22	0.30	J	0.50	0.057	ppb v/v			10/07/15 04:11	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.038	ppb v/v			10/07/15 04:11	1
Chloromethane	0.63		0.50	0.093	ppb v/v			10/07/15 04:11	1
n-Butane	0.90		0.50	0.078	ppb v/v			10/07/15 04:11	1
Vinyl chloride	0.20	U	0.20	0.032	ppb v/v			10/07/15 04:11	1
1,3-Butadiene	0.20	U	0.20	0.089	ppb v/v			10/07/15 04:11	1
Bromomethane	0.20	U	0.20	0.056	ppb v/v			10/07/15 04:11	1
Chloroethane	0.50	U	0.50	0.085	ppb v/v			10/07/15 04:11	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.044	ppb v/v			10/07/15 04:11	1
Trichlorofluoromethane	0.24		0.20	0.038	ppb v/v			10/07/15 04:11	1
Freon TF	0.086	J	0.20	0.075	ppb v/v			10/07/15 04:11	1
1,1-Dichloroethene	0.20	U	0.20	0.036	ppb v/v			10/07/15 04:11	1
Acetone	6.6		5.0	0.86	ppb v/v			10/07/15 04:11	1
Isopropyl alcohol	5.0	U	5.0	0.98	ppb v/v			10/07/15 04:11	1
Carbon disulfide	3.9		0.50	0.043	ppb v/v			10/07/15 04:11	1
3-Chloropropene	0.50	U	0.50	0.068	ppb v/v			10/07/15 04:11	1
Methylene Chloride	0.50	U	0.50	0.18	ppb v/v			10/07/15 04:11	1
tert-Butyl alcohol	5.0	U	5.0	0.85	ppb v/v			10/07/15 04:11	1
Methyl tert-butyl ether	0.20	U	0.20	0.089	ppb v/v			10/07/15 04:11	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.043	ppb v/v			10/07/15 04:11	1
n-Hexane	0.058	J	0.20	0.054	ppb v/v			10/07/15 04:11	1
1,1-Dichloroethane	0.20	U	0.20	0.025	ppb v/v			10/07/15 04:11	1
Methyl Ethyl Ketone	0.97		0.50	0.052	ppb v/v			10/07/15 04:11	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.035	ppb v/v			10/07/15 04:11	1
1,2-Dichloroethene, Total	0.40	U	0.40	0.035	ppb v/v			10/07/15 04:11	1
Chloroform	0.20	U	0.20	0.082	ppb v/v			10/07/15 04:11	1
Tetrahydrofuran	5.0	U	5.0	1.4	ppb v/v			10/07/15 04:11	1
1,1,1-Trichloroethane	0.20	U	0.20	0.046	ppb v/v			10/07/15 04:11	1
Cyclohexane	0.20	U	0.20	0.039	ppb v/v			10/07/15 04:11	1
Carbon tetrachloride	0.11	J	0.20	0.032	ppb v/v			10/07/15 04:11	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.039	ppb v/v			10/07/15 04:11	1
Benzene	0.14	J	0.20	0.042	ppb v/v			10/07/15 04:11	1
1,2-Dichloroethane	0.20	U	0.20	0.041	ppb v/v			10/07/15 04:11	1
n-Heptane	0.20	U	0.20	0.040	ppb v/v			10/07/15 04:11	1
Trichloroethene	0.20	U	0.20	0.039	ppb v/v			10/07/15 04:11	1
Methyl methacrylate	0.50	U	0.50	0.040	ppb v/v			10/07/15 04:11	1
1,2-Dichloropropane	0.20	U	0.20	0.027	ppb v/v			10/07/15 04:11	1
1,4-Dioxane	5.0	U	5.0	0.56	ppb v/v			10/07/15 04:11	1
Bromodichloromethane	0.20	U	0.20	0.030	ppb v/v			10/07/15 04:11	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.023	ppb v/v			10/07/15 04:11	1
methyl isobutyl ketone	0.50	U	0.50	0.050	ppb v/v			10/07/15 04:11	1
Toluene	0.17	J	0.20	0.093	ppb v/v			10/07/15 04:11	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.034	ppb v/v			10/07/15 04:11	1
1,1,2-Trichloroethane	0.20	U	0.20	0.039	ppb v/v			10/07/15 04:11	1
Tetrachloroethene	0.20	U	0.20	0.023	ppb v/v			10/07/15 04:11	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.057	ppb v/v			10/07/15 04:11	1
Dibromochloromethane	0.20	U	0.20	0.044	ppb v/v			10/07/15 04:11	1

TestAmerica Burlington

# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

**Client Sample ID: OUTDOOR#2**

**Lab Sample ID: 200-30095-5**

**Date Collected: 10/04/15 00:00**

**Matrix: Air**

**Date Received: 10/06/15 10:30**

**Sample Container: Summa Canister 6L**

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.20	U	0.20	0.039	ppb v/v			10/07/15 04:11	1
Chlorobenzene	0.20	U	0.20	0.049	ppb v/v			10/07/15 04:11	1
Ethylbenzene	0.20	U	0.20	0.033	ppb v/v			10/07/15 04:11	1
m,p-Xylene	0.50	U	0.50	0.071	ppb v/v			10/07/15 04:11	1
Xylene, o-	0.20	U	0.20	0.037	ppb v/v			10/07/15 04:11	1
Xylene (total)	0.70	U	0.70	0.037	ppb v/v			10/07/15 04:11	1
<b>Styrene</b>	<b>0.056</b>	<b>J</b>	0.20	0.043	ppb v/v			10/07/15 04:11	1
Bromoform	0.20	U	0.20	0.056	ppb v/v			10/07/15 04:11	1
Cumene	0.20	U	0.20	0.030	ppb v/v			10/07/15 04:11	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.044	ppb v/v			10/07/15 04:11	1
n-Propylbenzene	0.20	U	0.20	0.043	ppb v/v			10/07/15 04:11	1
4-Ethyltoluene	0.20	U	0.20	0.044	ppb v/v			10/07/15 04:11	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.039	ppb v/v			10/07/15 04:11	1
2-Chlorotoluene	0.20	U	0.20	0.033	ppb v/v			10/07/15 04:11	1
tert-Butylbenzene	0.20	U	0.20	0.044	ppb v/v			10/07/15 04:11	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.043	ppb v/v			10/07/15 04:11	1
sec-Butylbenzene	0.20	U	0.20	0.044	ppb v/v			10/07/15 04:11	1
4-Isopropyltoluene	0.20	U	0.20	0.037	ppb v/v			10/07/15 04:11	1
1,3-Dichlorobenzene	0.20	U	0.20	0.055	ppb v/v			10/07/15 04:11	1
1,4-Dichlorobenzene	0.20	U	0.20	0.057	ppb v/v			10/07/15 04:11	1
Benzyl chloride	0.20	U	0.20	0.053	ppb v/v			10/07/15 04:11	1
n-Butylbenzene	0.20	U	0.20	0.047	ppb v/v			10/07/15 04:11	1
1,2-Dichlorobenzene	0.20	U	0.20	0.055	ppb v/v			10/07/15 04:11	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.068	ppb v/v			10/07/15 04:11	1
Hexachlorobutadiene	0.20	U	0.20	0.082	ppb v/v			10/07/15 04:11	1
Naphthalene	0.50	U	0.50	0.057	ppb v/v			10/07/15 04:11	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Dichlorodifluoromethane</b>	<b>2.7</b>		2.5	0.40	ug/m3			10/07/15 04:11	1
<b>Freon 22</b>	<b>1.1</b>	<b>J</b>	1.8	0.20	ug/m3			10/07/15 04:11	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.27	ug/m3			10/07/15 04:11	1
<b>Chloromethane</b>	<b>1.3</b>		1.0	0.19	ug/m3			10/07/15 04:11	1
<b>n-Butane</b>	<b>2.1</b>		1.2	0.19	ug/m3			10/07/15 04:11	1
Vinyl chloride	0.51	U	0.51	0.082	ug/m3			10/07/15 04:11	1
1,3-Butadiene	0.44	U	0.44	0.20	ug/m3			10/07/15 04:11	1
Bromomethane	0.78	U	0.78	0.22	ug/m3			10/07/15 04:11	1
Chloroethane	1.3	U	1.3	0.22	ug/m3			10/07/15 04:11	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.19	ug/m3			10/07/15 04:11	1
<b>Trichlorofluoromethane</b>	<b>1.4</b>		1.1	0.21	ug/m3			10/07/15 04:11	1
<b>Freon TF</b>	<b>0.66</b>	<b>J</b>	1.5	0.57	ug/m3			10/07/15 04:11	1
1,1-Dichloroethene	0.79	U	0.79	0.14	ug/m3			10/07/15 04:11	1
<b>Acetone</b>	<b>16</b>		12	2.0	ug/m3			10/07/15 04:11	1
Isopropyl alcohol	12	U	12	2.4	ug/m3			10/07/15 04:11	1
<b>Carbon disulfide</b>	<b>12</b>		1.6	0.13	ug/m3			10/07/15 04:11	1
3-Chloropropene	1.6	U	1.6	0.21	ug/m3			10/07/15 04:11	1
Methylene Chloride	1.7	U	1.7	0.63	ug/m3			10/07/15 04:11	1
tert-Butyl alcohol	15	U	15	2.6	ug/m3			10/07/15 04:11	1
Methyl tert-butyl ether	0.72	U	0.72	0.32	ug/m3			10/07/15 04:11	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.17	ug/m3			10/07/15 04:11	1

TestAmerica Burlington

# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

**Client Sample ID: OUTDOOR#2**

**Lab Sample ID: 200-30095-5**

Date Collected: 10/04/15 00:00

Matrix: Air

Date Received: 10/06/15 10:30

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>n-Hexane</b>	<b>0.20</b>	<b>J</b>	0.70	0.19	ug/m3			10/07/15 04:11	1
1,1-Dichloroethane	0.81	U	0.81	0.10	ug/m3			10/07/15 04:11	1
<b>Methyl Ethyl Ketone</b>	<b>2.9</b>		1.5	0.15	ug/m3			10/07/15 04:11	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.14	ug/m3			10/07/15 04:11	1
1,2-Dichloroethene, Total	1.6	U	1.6	0.14	ug/m3			10/07/15 04:11	1
Chloroform	0.98	U	0.98	0.40	ug/m3			10/07/15 04:11	1
Tetrahydrofuran	15	U	15	4.1	ug/m3			10/07/15 04:11	1
1,1,1-Trichloroethane	1.1	U	1.1	0.25	ug/m3			10/07/15 04:11	1
Cyclohexane	0.69	U	0.69	0.13	ug/m3			10/07/15 04:11	1
<b>Carbon tetrachloride</b>	<b>0.68</b>	<b>J</b>	1.3	0.20	ug/m3			10/07/15 04:11	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.18	ug/m3			10/07/15 04:11	1
<b>Benzene</b>	<b>0.43</b>	<b>J</b>	0.64	0.13	ug/m3			10/07/15 04:11	1
1,2-Dichloroethane	0.81	U	0.81	0.17	ug/m3			10/07/15 04:11	1
n-Heptane	0.82	U	0.82	0.16	ug/m3			10/07/15 04:11	1
Trichloroethene	1.1	U	1.1	0.21	ug/m3			10/07/15 04:11	1
Methyl methacrylate	2.0	U	2.0	0.16	ug/m3			10/07/15 04:11	1
1,2-Dichloropropane	0.92	U	0.92	0.12	ug/m3			10/07/15 04:11	1
1,4-Dioxane	18	U	18	2.0	ug/m3			10/07/15 04:11	1
Bromodichloromethane	1.3	U	1.3	0.20	ug/m3			10/07/15 04:11	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.10	ug/m3			10/07/15 04:11	1
methyl isobutyl ketone	2.0	U	2.0	0.20	ug/m3			10/07/15 04:11	1
<b>Toluene</b>	<b>0.65</b>	<b>J</b>	0.75	0.35	ug/m3			10/07/15 04:11	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.15	ug/m3			10/07/15 04:11	1
1,1,2-Trichloroethane	1.1	U	1.1	0.21	ug/m3			10/07/15 04:11	1
Tetrachloroethene	1.4	U	1.4	0.16	ug/m3			10/07/15 04:11	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.23	ug/m3			10/07/15 04:11	1
Dibromochloromethane	1.7	U	1.7	0.37	ug/m3			10/07/15 04:11	1
1,2-Dibromoethane	1.5	U	1.5	0.30	ug/m3			10/07/15 04:11	1
Chlorobenzene	0.92	U	0.92	0.23	ug/m3			10/07/15 04:11	1
Ethylbenzene	0.87	U	0.87	0.14	ug/m3			10/07/15 04:11	1
m,p-Xylene	2.2	U	2.2	0.31	ug/m3			10/07/15 04:11	1
Xylene, o-	0.87	U	0.87	0.16	ug/m3			10/07/15 04:11	1
Xylene (total)	3.0	U	3.0	0.16	ug/m3			10/07/15 04:11	1
<b>Styrene</b>	<b>0.24</b>	<b>J</b>	0.85	0.18	ug/m3			10/07/15 04:11	1
Bromoform	2.1	U	2.1	0.58	ug/m3			10/07/15 04:11	1
Cumene	0.98	U	0.98	0.15	ug/m3			10/07/15 04:11	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			10/07/15 04:11	1
n-Propylbenzene	0.98	U	0.98	0.21	ug/m3			10/07/15 04:11	1
4-Ethyltoluene	0.98	U	0.98	0.22	ug/m3			10/07/15 04:11	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.19	ug/m3			10/07/15 04:11	1
2-Chlorotoluene	1.0	U	1.0	0.17	ug/m3			10/07/15 04:11	1
tert-Butylbenzene	1.1	U	1.1	0.24	ug/m3			10/07/15 04:11	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.21	ug/m3			10/07/15 04:11	1
sec-Butylbenzene	1.1	U	1.1	0.24	ug/m3			10/07/15 04:11	1
4-Isopropyltoluene	1.1	U	1.1	0.20	ug/m3			10/07/15 04:11	1
1,3-Dichlorobenzene	1.2	U	1.2	0.33	ug/m3			10/07/15 04:11	1
1,4-Dichlorobenzene	1.2	U	1.2	0.34	ug/m3			10/07/15 04:11	1
Benzyl chloride	1.0	U	1.0	0.27	ug/m3			10/07/15 04:11	1

TestAmerica Burlington

# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

**Client Sample ID: OUTDOOR#2**

**Lab Sample ID: 200-30095-5**

**Date Collected: 10/04/15 00:00**

**Matrix: Air**

**Date Received: 10/06/15 10:30**

**Sample Container: Summa Canister 6L**

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	1.1	U	1.1	0.26	ug/m3			10/07/15 04:11	1
1,2-Dichlorobenzene	1.2	U	1.2	0.33	ug/m3			10/07/15 04:11	1
1,2,4-Trichlorobenzene	3.7	U	3.7	0.50	ug/m3			10/07/15 04:11	1
Hexachlorobutadiene	2.1	U	2.1	0.87	ug/m3			10/07/15 04:11	1
Naphthalene	2.6	U	2.6	0.30	ug/m3			10/07/15 04:11	1

# QC Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

**Lab Sample ID: MB 200-95122/5**

**Matrix: Air**

**Analysis Batch: 95122**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.50	U	0.50	0.080	ppb v/v			10/06/15 13:25	1
Freon 22	0.50	U	0.50	0.057	ppb v/v			10/06/15 13:25	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.038	ppb v/v			10/06/15 13:25	1
Chloromethane	0.50	U	0.50	0.093	ppb v/v			10/06/15 13:25	1
n-Butane	0.50	U	0.50	0.078	ppb v/v			10/06/15 13:25	1
Vinyl chloride	0.20	U	0.20	0.032	ppb v/v			10/06/15 13:25	1
1,3-Butadiene	0.20	U	0.20	0.089	ppb v/v			10/06/15 13:25	1
Bromomethane	0.20	U	0.20	0.056	ppb v/v			10/06/15 13:25	1
Chloroethane	0.50	U	0.50	0.085	ppb v/v			10/06/15 13:25	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.044	ppb v/v			10/06/15 13:25	1
Trichlorofluoromethane	0.20	U	0.20	0.038	ppb v/v			10/06/15 13:25	1
Freon TF	0.20	U	0.20	0.075	ppb v/v			10/06/15 13:25	1
1,1-Dichloroethene	0.20	U	0.20	0.036	ppb v/v			10/06/15 13:25	1
Acetone	5.0	U	5.0	0.86	ppb v/v			10/06/15 13:25	1
Isopropyl alcohol	5.0	U	5.0	0.98	ppb v/v			10/06/15 13:25	1
Carbon disulfide	0.50	U	0.50	0.043	ppb v/v			10/06/15 13:25	1
3-Chloropropene	0.50	U	0.50	0.068	ppb v/v			10/06/15 13:25	1
Methylene Chloride	0.50	U	0.50	0.18	ppb v/v			10/06/15 13:25	1
tert-Butyl alcohol	5.0	U	5.0	0.85	ppb v/v			10/06/15 13:25	1
Methyl tert-butyl ether	0.20	U	0.20	0.089	ppb v/v			10/06/15 13:25	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.043	ppb v/v			10/06/15 13:25	1
n-Hexane	0.20	U	0.20	0.054	ppb v/v			10/06/15 13:25	1
1,1-Dichloroethane	0.20	U	0.20	0.025	ppb v/v			10/06/15 13:25	1
Methyl Ethyl Ketone	0.50	U	0.50	0.052	ppb v/v			10/06/15 13:25	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.035	ppb v/v			10/06/15 13:25	1
1,2-Dichloroethene, Total	0.40	U	0.40	0.035	ppb v/v			10/06/15 13:25	1
Chloroform	0.20	U	0.20	0.082	ppb v/v			10/06/15 13:25	1
Tetrahydrofuran	5.0	U	5.0	1.4	ppb v/v			10/06/15 13:25	1
1,1,1-Trichloroethane	0.20	U	0.20	0.046	ppb v/v			10/06/15 13:25	1
Cyclohexane	0.20	U	0.20	0.039	ppb v/v			10/06/15 13:25	1
Carbon tetrachloride	0.20	U	0.20	0.032	ppb v/v			10/06/15 13:25	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.039	ppb v/v			10/06/15 13:25	1
Benzene	0.20	U	0.20	0.042	ppb v/v			10/06/15 13:25	1
1,2-Dichloroethane	0.20	U	0.20	0.041	ppb v/v			10/06/15 13:25	1
n-Heptane	0.20	U	0.20	0.040	ppb v/v			10/06/15 13:25	1
Trichloroethene	0.20	U	0.20	0.039	ppb v/v			10/06/15 13:25	1
Methyl methacrylate	0.50	U	0.50	0.040	ppb v/v			10/06/15 13:25	1
1,2-Dichloropropane	0.20	U	0.20	0.027	ppb v/v			10/06/15 13:25	1
1,4-Dioxane	5.0	U	5.0	0.56	ppb v/v			10/06/15 13:25	1
Bromodichloromethane	0.20	U	0.20	0.030	ppb v/v			10/06/15 13:25	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.023	ppb v/v			10/06/15 13:25	1
methyl isobutyl ketone	0.50	U	0.50	0.050	ppb v/v			10/06/15 13:25	1
Toluene	0.20	U	0.20	0.093	ppb v/v			10/06/15 13:25	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.034	ppb v/v			10/06/15 13:25	1
1,1,2-Trichloroethane	0.20	U	0.20	0.039	ppb v/v			10/06/15 13:25	1
Tetrachloroethene	0.20	U	0.20	0.023	ppb v/v			10/06/15 13:25	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.057	ppb v/v			10/06/15 13:25	1
Dibromochloromethane	0.20	U	0.20	0.044	ppb v/v			10/06/15 13:25	1

TestAmerica Burlington

# QC Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-95122/5**

**Matrix: Air**

**Analysis Batch: 95122**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2-Dibromoethane	0.20	U	0.20	0.039	ppb v/v			10/06/15 13:25	1
Chlorobenzene	0.20	U	0.20	0.049	ppb v/v			10/06/15 13:25	1
Ethylbenzene	0.20	U	0.20	0.033	ppb v/v			10/06/15 13:25	1
m,p-Xylene	0.50	U	0.50	0.071	ppb v/v			10/06/15 13:25	1
Xylene, o-	0.20	U	0.20	0.037	ppb v/v			10/06/15 13:25	1
Xylene (total)	0.70	U	0.70	0.037	ppb v/v			10/06/15 13:25	1
Styrene	0.20	U	0.20	0.043	ppb v/v			10/06/15 13:25	1
Bromoform	0.20	U	0.20	0.056	ppb v/v			10/06/15 13:25	1
Cumene	0.20	U	0.20	0.030	ppb v/v			10/06/15 13:25	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.044	ppb v/v			10/06/15 13:25	1
n-Propylbenzene	0.20	U	0.20	0.043	ppb v/v			10/06/15 13:25	1
4-Ethyltoluene	0.20	U	0.20	0.044	ppb v/v			10/06/15 13:25	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.039	ppb v/v			10/06/15 13:25	1
2-Chlorotoluene	0.20	U	0.20	0.033	ppb v/v			10/06/15 13:25	1
tert-Butylbenzene	0.20	U	0.20	0.044	ppb v/v			10/06/15 13:25	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.043	ppb v/v			10/06/15 13:25	1
sec-Butylbenzene	0.20	U	0.20	0.044	ppb v/v			10/06/15 13:25	1
4-Isopropyltoluene	0.20	U	0.20	0.037	ppb v/v			10/06/15 13:25	1
1,3-Dichlorobenzene	0.20	U	0.20	0.055	ppb v/v			10/06/15 13:25	1
1,4-Dichlorobenzene	0.20	U	0.20	0.057	ppb v/v			10/06/15 13:25	1
Benzyl chloride	0.20	U	0.20	0.053	ppb v/v			10/06/15 13:25	1
n-Butylbenzene	0.20	U	0.20	0.047	ppb v/v			10/06/15 13:25	1
1,2-Dichlorobenzene	0.20	U	0.20	0.055	ppb v/v			10/06/15 13:25	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.068	ppb v/v			10/06/15 13:25	1
Hexachlorobutadiene	0.20	U	0.20	0.082	ppb v/v			10/06/15 13:25	1
Naphthalene	0.50	U	0.50	0.057	ppb v/v			10/06/15 13:25	1

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Dichlorodifluoromethane	2.5	U	2.5	0.40	ug/m3			10/06/15 13:25	1
Freon 22	1.8	U	1.8	0.20	ug/m3			10/06/15 13:25	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.27	ug/m3			10/06/15 13:25	1
Chloromethane	1.0	U	1.0	0.19	ug/m3			10/06/15 13:25	1
n-Butane	1.2	U	1.2	0.19	ug/m3			10/06/15 13:25	1
Vinyl chloride	0.51	U	0.51	0.082	ug/m3			10/06/15 13:25	1
1,3-Butadiene	0.44	U	0.44	0.20	ug/m3			10/06/15 13:25	1
Bromomethane	0.78	U	0.78	0.22	ug/m3			10/06/15 13:25	1
Chloroethane	1.3	U	1.3	0.22	ug/m3			10/06/15 13:25	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.19	ug/m3			10/06/15 13:25	1
Trichlorofluoromethane	1.1	U	1.1	0.21	ug/m3			10/06/15 13:25	1
Freon TF	1.5	U	1.5	0.57	ug/m3			10/06/15 13:25	1
1,1-Dichloroethene	0.79	U	0.79	0.14	ug/m3			10/06/15 13:25	1
Acetone	12	U	12	2.0	ug/m3			10/06/15 13:25	1
Isopropyl alcohol	12	U	12	2.4	ug/m3			10/06/15 13:25	1
Carbon disulfide	1.6	U	1.6	0.13	ug/m3			10/06/15 13:25	1
3-Chloropropene	1.6	U	1.6	0.21	ug/m3			10/06/15 13:25	1
Methylene Chloride	1.7	U	1.7	0.63	ug/m3			10/06/15 13:25	1
tert-Butyl alcohol	15	U	15	2.6	ug/m3			10/06/15 13:25	1
Methyl tert-butyl ether	0.72	U	0.72	0.32	ug/m3			10/06/15 13:25	1

TestAmerica Burlington

# QC Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-95122/5**

**Matrix: Air**

**Analysis Batch: 95122**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
trans-1,2-Dichloroethene	0.79	U	0.79	0.17	ug/m3			10/06/15 13:25	1
n-Hexane	0.70	U	0.70	0.19	ug/m3			10/06/15 13:25	1
1,1-Dichloroethane	0.81	U	0.81	0.10	ug/m3			10/06/15 13:25	1
Methyl Ethyl Ketone	1.5	U	1.5	0.15	ug/m3			10/06/15 13:25	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.14	ug/m3			10/06/15 13:25	1
1,2-Dichloroethene, Total	1.6	U	1.6	0.14	ug/m3			10/06/15 13:25	1
Chloroform	0.98	U	0.98	0.40	ug/m3			10/06/15 13:25	1
Tetrahydrofuran	15	U	15	4.1	ug/m3			10/06/15 13:25	1
1,1,1-Trichloroethane	1.1	U	1.1	0.25	ug/m3			10/06/15 13:25	1
Cyclohexane	0.69	U	0.69	0.13	ug/m3			10/06/15 13:25	1
Carbon tetrachloride	1.3	U	1.3	0.20	ug/m3			10/06/15 13:25	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.18	ug/m3			10/06/15 13:25	1
Benzene	0.64	U	0.64	0.13	ug/m3			10/06/15 13:25	1
1,2-Dichloroethane	0.81	U	0.81	0.17	ug/m3			10/06/15 13:25	1
n-Heptane	0.82	U	0.82	0.16	ug/m3			10/06/15 13:25	1
Trichloroethene	1.1	U	1.1	0.21	ug/m3			10/06/15 13:25	1
Methyl methacrylate	2.0	U	2.0	0.16	ug/m3			10/06/15 13:25	1
1,2-Dichloropropane	0.92	U	0.92	0.12	ug/m3			10/06/15 13:25	1
1,4-Dioxane	18	U	18	2.0	ug/m3			10/06/15 13:25	1
Bromodichloromethane	1.3	U	1.3	0.20	ug/m3			10/06/15 13:25	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.10	ug/m3			10/06/15 13:25	1
methyl isobutyl ketone	2.0	U	2.0	0.20	ug/m3			10/06/15 13:25	1
Toluene	0.75	U	0.75	0.35	ug/m3			10/06/15 13:25	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.15	ug/m3			10/06/15 13:25	1
1,1,2-Trichloroethane	1.1	U	1.1	0.21	ug/m3			10/06/15 13:25	1
Tetrachloroethene	1.4	U	1.4	0.16	ug/m3			10/06/15 13:25	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.23	ug/m3			10/06/15 13:25	1
Dibromochloromethane	1.7	U	1.7	0.37	ug/m3			10/06/15 13:25	1
1,2-Dibromoethane	1.5	U	1.5	0.30	ug/m3			10/06/15 13:25	1
Chlorobenzene	0.92	U	0.92	0.23	ug/m3			10/06/15 13:25	1
Ethylbenzene	0.87	U	0.87	0.14	ug/m3			10/06/15 13:25	1
m,p-Xylene	2.2	U	2.2	0.31	ug/m3			10/06/15 13:25	1
Xylene, o-	0.87	U	0.87	0.16	ug/m3			10/06/15 13:25	1
Xylene (total)	3.0	U	3.0	0.16	ug/m3			10/06/15 13:25	1
Styrene	0.85	U	0.85	0.18	ug/m3			10/06/15 13:25	1
Bromoform	2.1	U	2.1	0.58	ug/m3			10/06/15 13:25	1
Cumene	0.98	U	0.98	0.15	ug/m3			10/06/15 13:25	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			10/06/15 13:25	1
n-Propylbenzene	0.98	U	0.98	0.21	ug/m3			10/06/15 13:25	1
4-Ethyltoluene	0.98	U	0.98	0.22	ug/m3			10/06/15 13:25	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.19	ug/m3			10/06/15 13:25	1
2-Chlorotoluene	1.0	U	1.0	0.17	ug/m3			10/06/15 13:25	1
tert-Butylbenzene	1.1	U	1.1	0.24	ug/m3			10/06/15 13:25	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.21	ug/m3			10/06/15 13:25	1
sec-Butylbenzene	1.1	U	1.1	0.24	ug/m3			10/06/15 13:25	1
4-Isopropyltoluene	1.1	U	1.1	0.20	ug/m3			10/06/15 13:25	1
1,3-Dichlorobenzene	1.2	U	1.2	0.33	ug/m3			10/06/15 13:25	1
1,4-Dichlorobenzene	1.2	U	1.2	0.34	ug/m3			10/06/15 13:25	1

TestAmerica Burlington



# QC Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-95122/5**

**Matrix: Air**

**Analysis Batch: 95122**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzyl chloride	1.0	U	1.0	0.27	ug/m3			10/06/15 13:25	1
n-Butylbenzene	1.1	U	1.1	0.26	ug/m3			10/06/15 13:25	1
1,2-Dichlorobenzene	1.2	U	1.2	0.33	ug/m3			10/06/15 13:25	1
1,2,4-Trichlorobenzene	3.7	U	3.7	0.50	ug/m3			10/06/15 13:25	1
Hexachlorobutadiene	2.1	U	2.1	0.87	ug/m3			10/06/15 13:25	1
Naphthalene	2.6	U	2.6	0.30	ug/m3			10/06/15 13:25	1

**Lab Sample ID: LCS 200-95122/4**

**Matrix: Air**

**Analysis Batch: 95122**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Dichlorodifluoromethane	10.0	9.84		ppb v/v		98	70 - 130
Freon 22	10.0	9.55		ppb v/v		95	70 - 130
1,2-Dichlorotetrafluoroethane	10.0	10.7		ppb v/v		107	70 - 130
Chloromethane	10.0	8.96		ppb v/v		90	70 - 130
n-Butane	10.0	8.81		ppb v/v		88	70 - 130
Vinyl chloride	10.0	9.12		ppb v/v		91	70 - 130
1,3-Butadiene	10.0	8.72		ppb v/v		87	70 - 130
Bromomethane	10.0	8.82		ppb v/v		88	70 - 130
Chloroethane	10.0	9.59		ppb v/v		96	70 - 130
Bromoethene(Vinyl Bromide)	10.0	10.1		ppb v/v		101	70 - 130
Trichlorofluoromethane	10.0	9.90		ppb v/v		99	70 - 130
Freon TF	10.0	10.0		ppb v/v		100	70 - 130
1,1-Dichloroethene	10.0	10.3		ppb v/v		103	70 - 130
Acetone	10.0	10.4		ppb v/v		104	70 - 130
Isopropyl alcohol	10.0	9.18		ppb v/v		92	70 - 130
Carbon disulfide	10.0	11.1		ppb v/v		111	70 - 130
3-Chloropropene	10.0	9.58		ppb v/v		96	70 - 130
Methylene Chloride	10.0	9.54		ppb v/v		95	70 - 130
tert-Butyl alcohol	10.0	9.48		ppb v/v		95	70 - 130
Methyl tert-butyl ether	10.0	10.7		ppb v/v		107	70 - 130
trans-1,2-Dichloroethene	10.0	10.9		ppb v/v		109	70 - 130
n-Hexane	10.0	11.5		ppb v/v		115	70 - 130
1,1-Dichloroethane	10.0	10.2		ppb v/v		102	70 - 130
Methyl Ethyl Ketone	10.0	9.41		ppb v/v		94	70 - 130
cis-1,2-Dichloroethene	10.0	10.2		ppb v/v		102	70 - 130
Chloroform	10.0	10.0		ppb v/v		101	70 - 130
Tetrahydrofuran	10.0	10.1		ppb v/v		101	70 - 130
1,1,1-Trichloroethane	10.0	10.5		ppb v/v		105	70 - 130
Cyclohexane	10.0	11.1		ppb v/v		111	70 - 130
Carbon tetrachloride	10.0	10.5		ppb v/v		105	70 - 130
2,2,4-Trimethylpentane	10.0	11.0		ppb v/v		110	70 - 130
Benzene	10.0	10.4		ppb v/v		104	70 - 130
1,2-Dichloroethane	10.0	10.5		ppb v/v		105	70 - 130
n-Heptane	10.0	11.1		ppb v/v		111	70 - 130
Trichloroethene	10.0	10.7		ppb v/v		107	70 - 130
Methyl methacrylate	10.0	10.7		ppb v/v		107	70 - 130

TestAmerica Burlington



# QC Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-95122/4**

**Matrix: Air**

**Analysis Batch: 95122**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	10.0	9.84		ppb v/v		98	70 - 130
1,4-Dioxane	10.0	10.2		ppb v/v		102	70 - 130
Bromodichloromethane	10.0	10.1		ppb v/v		101	70 - 130
cis-1,3-Dichloropropene	10.0	10.9		ppb v/v		109	70 - 130
methyl isobutyl ketone	10.0	10.3		ppb v/v		103	70 - 130
Toluene	10.0	10.6		ppb v/v		106	70 - 130
trans-1,3-Dichloropropene	10.0	10.9		ppb v/v		109	70 - 130
1,1,2-Trichloroethane	10.0	10.4		ppb v/v		104	70 - 130
Tetrachloroethene	10.0	10.7		ppb v/v		107	70 - 130
Methyl Butyl Ketone (2-Hexanone)	10.0	10.2		ppb v/v		102	70 - 130
Dibromochloromethane	10.0	10.0		ppb v/v		100	70 - 130
1,2-Dibromoethane	10.0	10.5		ppb v/v		105	70 - 130
Chlorobenzene	10.0	10.1		ppb v/v		101	70 - 130
Ethylbenzene	10.0	10.9		ppb v/v		109	70 - 130
m,p-Xylene	20.0	21.9		ppb v/v		109	70 - 130
Xylene, o-	10.0	11.4		ppb v/v		114	70 - 130
Styrene	10.0	11.3		ppb v/v		113	70 - 130
Bromoform	10.0	10.3		ppb v/v		103	70 - 130
Cumene	10.0	11.3		ppb v/v		113	70 - 130
1,1,2,2-Tetrachloroethane	10.0	10.6		ppb v/v		106	70 - 130
n-Propylbenzene	10.0	11.3		ppb v/v		113	70 - 130
4-Ethyltoluene	10.0	11.4		ppb v/v		114	70 - 130
1,3,5-Trimethylbenzene	10.0	11.1		ppb v/v		111	70 - 130
2-Chlorotoluene	10.0	10.8		ppb v/v		108	70 - 130
tert-Butylbenzene	10.0	11.3		ppb v/v		113	70 - 130
1,2,4-Trimethylbenzene	10.0	11.3		ppb v/v		113	70 - 130
sec-Butylbenzene	10.0	11.4		ppb v/v		114	70 - 130
4-Isopropyltoluene	10.0	11.7		ppb v/v		117	70 - 130
1,3-Dichlorobenzene	10.0	11.0		ppb v/v		110	70 - 130
1,4-Dichlorobenzene	10.0	11.2		ppb v/v		112	70 - 130
Benzyl chloride	10.0	10.5		ppb v/v		105	70 - 130
n-Butylbenzene	10.0	11.0		ppb v/v		110	70 - 130
1,2-Dichlorobenzene	10.0	11.1		ppb v/v		111	70 - 130
1,2,4-Trichlorobenzene	10.0	10.6		ppb v/v		107	70 - 130
Hexachlorobutadiene	10.0	11.8		ppb v/v		118	70 - 130
Naphthalene	10.0	9.12		ppb v/v		91	70 - 130
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	49	48.6		ug/m3		98	70 - 130
Freon 22	35	33.8		ug/m3		95	70 - 130
1,2-Dichlorotetrafluoroethane	70	75.1		ug/m3		107	70 - 130
Chloromethane	21	18.5		ug/m3		90	70 - 130
n-Butane	24	20.9		ug/m3		88	70 - 130
Vinyl chloride	26	23.3		ug/m3		91	70 - 130
1,3-Butadiene	22	19.3		ug/m3		87	70 - 130
Bromomethane	39	34.2		ug/m3		88	70 - 130
Chloroethane	26	25.3		ug/m3		96	70 - 130

TestAmerica Burlington

# QC Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-95122/4**

**Matrix: Air**

**Analysis Batch: 95122**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoethene(Vinyl Bromide)	44	44.2		ug/m3		101	70 - 130
Trichlorofluoromethane	56	55.6		ug/m3		99	70 - 130
Freon TF	77	76.6		ug/m3		100	70 - 130
1,1-Dichloroethene	40	40.9		ug/m3		103	70 - 130
Acetone	24	24.8		ug/m3		104	70 - 130
Isopropyl alcohol	25	22.6		ug/m3		92	70 - 130
Carbon disulfide	31	34.7		ug/m3		111	70 - 130
3-Chloropropene	31	30.0		ug/m3		96	70 - 130
Methylene Chloride	35	33.1		ug/m3		95	70 - 130
tert-Butyl alcohol	30	28.7		ug/m3		95	70 - 130
Methyl tert-butyl ether	36	38.7		ug/m3		107	70 - 130
trans-1,2-Dichloroethene	40	43.4		ug/m3		109	70 - 130
n-Hexane	35	40.6		ug/m3		115	70 - 130
1,1-Dichloroethane	40	41.3		ug/m3		102	70 - 130
Methyl Ethyl Ketone	29	27.8		ug/m3		94	70 - 130
cis-1,2-Dichloroethene	40	40.2		ug/m3		102	70 - 130
Chloroform	49	49.1		ug/m3		101	70 - 130
Tetrahydrofuran	29	29.9		ug/m3		101	70 - 130
1,1,1-Trichloroethane	55	57.2		ug/m3		105	70 - 130
Cyclohexane	34	38.1		ug/m3		111	70 - 130
Carbon tetrachloride	63	66.0		ug/m3		105	70 - 130
2,2,4-Trimethylpentane	47	51.4		ug/m3		110	70 - 130
Benzene	32	33.1		ug/m3		104	70 - 130
1,2-Dichloroethane	40	42.4		ug/m3		105	70 - 130
n-Heptane	41	45.6		ug/m3		111	70 - 130
Trichloroethene	54	57.3		ug/m3		107	70 - 130
Methyl methacrylate	41	43.8		ug/m3		107	70 - 130
1,2-Dichloropropane	46	45.5		ug/m3		98	70 - 130
1,4-Dioxane	36	36.7		ug/m3		102	70 - 130
Bromodichloromethane	67	67.5		ug/m3		101	70 - 130
cis-1,3-Dichloropropene	45	49.7		ug/m3		109	70 - 130
methyl isobutyl ketone	41	42.3		ug/m3		103	70 - 130
Toluene	38	39.9		ug/m3		106	70 - 130
trans-1,3-Dichloropropene	45	49.4		ug/m3		109	70 - 130
1,1,2-Trichloroethane	55	56.6		ug/m3		104	70 - 130
Tetrachloroethene	68	72.5		ug/m3		107	70 - 130
Methyl Butyl Ketone (2-Hexanone)	41	41.9		ug/m3		102	70 - 130
Dibromochloromethane	85	85.3		ug/m3		100	70 - 130
1,2-Dibromoethane	77	81.0		ug/m3		105	70 - 130
Chlorobenzene	46	46.5		ug/m3		101	70 - 130
Ethylbenzene	43	47.4		ug/m3		109	70 - 130
m,p-Xylene	87	95.0		ug/m3		109	70 - 130
Xylene, o-	43	49.3		ug/m3		114	70 - 130
Styrene	43	48.3		ug/m3		113	70 - 130
Bromoform	100	107		ug/m3		103	70 - 130
Cumene	49	55.3		ug/m3		113	70 - 130
1,1,2,2-Tetrachloroethane	69	72.6		ug/m3		106	70 - 130

TestAmerica Burlington

# QC Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-95122/4

Matrix: Air

Analysis Batch: 95122

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
n-Propylbenzene	49	55.3		ug/m3		113	70 - 130
4-Ethyltoluene	49	56.2		ug/m3		114	70 - 130
1,3,5-Trimethylbenzene	49	54.6		ug/m3		111	70 - 130
2-Chlorotoluene	52	55.7		ug/m3		108	70 - 130
tert-Butylbenzene	55	62.1		ug/m3		113	70 - 130
1,2,4-Trimethylbenzene	49	55.4		ug/m3		113	70 - 130
sec-Butylbenzene	55	62.7		ug/m3		114	70 - 130
4-Isopropyltoluene	55	64.3		ug/m3		117	70 - 130
1,3-Dichlorobenzene	60	66.1		ug/m3		110	70 - 130
1,4-Dichlorobenzene	60	67.0		ug/m3		112	70 - 130
Benzyl chloride	52	54.2		ug/m3		105	70 - 130
n-Butylbenzene	55	60.6		ug/m3		110	70 - 130
1,2-Dichlorobenzene	60	66.8		ug/m3		111	70 - 130
1,2,4-Trichlorobenzene	74	79.0		ug/m3		107	70 - 130
Hexachlorobutadiene	110	125		ug/m3		118	70 - 130
Naphthalene	52	47.8		ug/m3		91	70 - 130

# QC Association Summary

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

## Air - GC/MS VOA

### Analysis Batch: 95122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-30095-1	INDOOR#1	Total/NA	Air	TO-15	
200-30095-2	INDOOR#2	Total/NA	Air	TO-15	
200-30095-3	INDOOR#3	Total/NA	Air	TO-15	
200-30095-4	OUTDOOR#1	Total/NA	Air	TO-15	
200-30095-5	OUTDOOR#2	Total/NA	Air	TO-15	
LCS 200-95122/4	Lab Control Sample	Total/NA	Air	TO-15	
MB 200-95122/5	Method Blank	Total/NA	Air	TO-15	



# Lab Chronicle

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

## Client Sample ID: INDOOR#1

Date Collected: 10/04/15 09:13

Date Received: 10/06/15 10:30

## Lab Sample ID: 200-30095-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	95122	10/07/15 00:53	PAD	TAL BUR

## Client Sample ID: INDOOR#2

Date Collected: 10/04/15 09:09

Date Received: 10/06/15 10:30

## Lab Sample ID: 200-30095-2

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	95122	10/07/15 01:42	PAD	TAL BUR

## Client Sample ID: INDOOR#3

Date Collected: 10/04/15 09:18

Date Received: 10/06/15 10:30

## Lab Sample ID: 200-30095-3

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	95122	10/07/15 02:32	PAD	TAL BUR

## Client Sample ID: OUTDOOR#1

Date Collected: 10/04/15 09:23

Date Received: 10/06/15 10:30

## Lab Sample ID: 200-30095-4

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	95122	10/07/15 03:21	PAD	TAL BUR

## Client Sample ID: OUTDOOR#2

Date Collected: 10/04/15 00:00

Date Received: 10/06/15 10:30

## Lab Sample ID: 200-30095-5

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	95122	10/07/15 04:11	PAD	TAL BUR

### Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

# Certification Summary

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

## Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-15 *
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-16
Florida	NELAP	4	E87467	06-30-16
L-A-B	DoD ELAP		L2336	02-26-17
Maine	State Program	1	VT00008	04-17-17
Minnesota	NELAP	5	050-999-436	12-31-15
New Hampshire	NELAP	1	2006	12-18-15
New Jersey	NELAP	2	VT972	10-30-15 *
Pennsylvania	NELAP	3	68-00489	04-30-16
Rhode Island	State Program	1	LAO00298	12-30-15
US Fish & Wildlife	Federal		LE-058448-0	02-28-16
USDA	Federal		P330-11-00093	10-28-16
Vermont	State Program	1	VT-4000	12-31-15
Virginia	NELAP	3	460209	12-14-15

\* Certification renewal pending - certification considered valid.

TestAmerica Burlington

# Method Summary

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

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Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL BUR

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**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

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# Sample Summary

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-30095-1  
SDG: 200-30095

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-30095-1	INDOOR#1	Air	10/04/15 09:13	10/06/15 10:30
200-30095-2	INDOOR#2	Air	10/04/15 09:09	10/06/15 10:30
200-30095-3	INDOOR#3	Air	10/04/15 09:18	10/06/15 10:30
200-30095-4	OUTDOOR#1	Air	10/04/15 09:23	10/06/15 10:30
200-30095-5	OUTDOOR#2	Air	10/04/15 00:00	10/06/15 10:30

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TestAmerica Burlington  
30 Community Drive  
Suite 11

South Burlington, VT 05403  
phone 802-660-1990 fax 802-660-1919

# Canister Samples Chain of Custody Record

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

Client Contact Information		Project Manager: <b>Andrew Romanek</b>		Samples Collected By: <b>Clara Choi</b>		1 of 1 COCS																	
Company: <b>CDM Smith</b>		Phone: <b>(423) 771-4495</b>		EPA 25C		Other (Please specify in notes section)																	
Address: <b>5715 Northside Parkway NW B-300 5400</b>		Email: <b>romanek.ap@cdm-smith.com</b>		EPA 3C		Soil Gas																	
City/State/Zip: <b>Atlanta, GA 30327</b>		Site Contact: <b>Jeff Weeber</b>		MA-APH		Ambient Air																	
Phone: <b>(404) 720-1400</b>		TA Contact: <b>Don Dawicki</b>		TO-15		Indoor Air																	
FAX:		Analysis Turnaround Time		Canister ID		Sample Type																	
Project Name: <b>CESSNA</b>		Standard (Specify) <input checked="" type="checkbox"/>		Flow Controller ID		Other (Please specify in notes section)																	
Site: <b>Columbus, GA</b>		Rush (Specify)		Canister Vacuum In Field, "Hg (Start)		ASTM D-1946																	
PO #				Canister Vacuum In Field, "Hg (Stop)		Landfill Gas																	
Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum In Field, "Hg (Start)	Canister Vacuum In Field, "Hg (Stop)	Flow Controller ID	Canister ID																
Indoor #1	10/3/15	10/3/15		-30		2994	5108																
Indoor #2	10/4/15	0853		-29		3118	3428																
Indoor #3	10/3/15	0857		-29		S223	S650																
Outdoor #1	10/4/15	0849		-29		S213	4822																
Outdoor #2	10/3/15	0900		-29		2994	5731																
	10/4/15	0907																					
<table border="1"> <thead> <tr> <th colspan="2">Temperature (Fahrenheit)</th> </tr> <tr> <th>Interior</th> <th>Ambient</th> </tr> </thead> <tbody> <tr> <td>Start</td> <td></td> </tr> <tr> <td>Stop</td> <td></td> </tr> <tr> <th colspan="2">Pressure (inches of Hg)</th> </tr> <tr> <th>Interior</th> <th>Ambient</th> </tr> <tr> <td>Start</td> <td></td> </tr> <tr> <td>Stop</td> <td></td> </tr> </tbody> </table>								Temperature (Fahrenheit)		Interior	Ambient	Start		Stop		Pressure (inches of Hg)		Interior	Ambient	Start		Stop	
Temperature (Fahrenheit)																							
Interior	Ambient																						
Start																							
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Pressure (inches of Hg)																							
Interior	Ambient																						
Start																							
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 <p>200-30095 Chain of Custody</p>																							
Special Instructions/QC Requirements & Comments:																							
Samples Shipped by: <b>Clara Choi</b>		Date/Time: <b>10/5/15 1215</b>		Samples Received by:																			
Samples Relinquished by:		Date/Time: <b>10/6/15 1030 SL</b>		Received by:																			
Relinquished by:		Date/Time:		Received by:																			
Lab Use Only		Shipper Name		Condition		1030 10/6/15																	





## Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 200-30095-1

SDG Number: 200-30095

**Login Number: 30095**

**List Number: 1**

**Creator: Lavigne III, Scott M**

**List Source: TestAmerica Burlington**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	N/A	Thermal preservation not required.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	











200-29889-A-9  
 4012  
 Location: Air-Storage  
 Bottle: Summa Canister 6L  
 Sampled: 9/21/2015 12:00 AM 200-843379

Loc: 200  
**29889**  
**#9**  
**A**

**Pre-Shipment Clean Canister Certification Report**

Certification Type:  Batch  Individual

Canister Cleaning & Pre-Shipment Leak Test										
System ID		# Cycles	Cleaning Date		Technician	Canister Size				
TOP		80	9/21/15		ms	6L	1L	3L		
Leak Test										
Port	Can ID	Initial <sup>1</sup> ("Hg)	Final ("Hg)	Adjusted Initial <sup>2</sup> ("Hg)	Difference <sup>3</sup>	Initial Reading		Final Reading		
						Gauge ID: 69	Date: 9/23/15	Gauge ID: 69	Date: 9/25/15	Gauge ID: 69
1	4573	30.5	30.3	0.2						
2	4346	30.3								
3	5089	30.5								
4	5063	30.4								
5	4290	30.2								
6	4113	30.4								
7	5403	30.4								
8	5066	30.4								
9	4012	30.0	29.9	30.1	0.2					
10	3542	30.5								
11	4459	30.2								
12	5108	30.1	30.1		0					

<sup>3</sup>Acceptance Criteria:  
 (1) The difference must be less than or equal to + 0.5  
 (2) Pressure readings must be at least 24 hours apart.  
 If time frame was not met, the PM must authorize shipment of canister:  
 PM Authorization:

Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

<sup>2</sup>To calculate Adjusted Initial Pressure, subtract Final BP from Initial BP and add the result (positive or negative) to the initial pressure reading.

<sup>3</sup>To calculate Difference, subtract the Adjusted Initial Pressure from the Final Pressure (See Acceptance Criteria)

Clean Canister Certification Analysis & Authorization of Release to Inventory										
Test Method: <input type="checkbox"/> TO15 Routine <input type="checkbox"/> TO15 LL <input type="checkbox"/> NJDEP-LL TO15				Inventory Level				Secondary Review		
Can ID	Date	Sequence	Analyst	1	2	3	4	Limited	Review Date	Reviewer
4012	9/23/15	15894	WRD		✓				9/24/15	AM

- Inventory Level 1: Individual Canister Certification Only. Certified clean to RLS listed in laboratory SOP for LLTO15.
- Inventory Level 2: Individual or Batch Certification. Certified clean to 0.04 ppbv.
- Inventory Level 3: Individual or Batch Certification. Certified clean to 0.20 ppbv.
- Inventory Level 4: Individual or Batch Certification. Certified clean following procedures and RLS listed in laboratory SOP NJDEP-LLTO15.
- Inventory Level Limited Use: Canisters may only be used for certain projects.

Comments: Route

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29786-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 4792 Lab Sample ID: 200-29786-3  
 Matrix: Air Lab File ID: 15831\_08.D  
 Analysis Method: TO-15 Date Collected: 09/16/2015 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/21/2015 14:41  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 94207 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29786-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 4792 Lab Sample ID: 200-29786-3  
 Matrix: Air Lab File ID: 15831\_08.D  
 Analysis Method: TO-15 Date Collected: 09/16/2015 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/21/2015 14:41  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 94207 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U *	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29786-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 4792 Lab Sample ID: 200-29786-3  
 Matrix: Air Lab File ID: 15831\_08.D  
 Analysis Method: TO-15 Date Collected: 09/16/2015 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/21/2015 14:41  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 94207 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150921-15831.b\15831\_08.D  
 Lims ID: 200-29786-A-3 Lab Sample ID: 200-29786-3  
 Client ID: 4792  
 Sample Type: Client  
 Inject. Date: 21-Sep-2015 14:41:30 ALS Bottle#: 7 Worklist Smp#: 8  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Sample Info: 200-0015831-008  
 Misc. Info.: 29786-3  
 Operator ID: wrd Instrument ID: CHX.i  
 Method: \\ChromNA\Burlington\ChromData\CHX.i\20150921-15831.b\TO15\_LLNJ\_TO3\_CHX.i.m.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 21-Sep-2015 16:40:44 Calib Date: 17-Aug-2015 23:52:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313\_11.D  
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN  
 Process Host: XAWRK017

First Level Reviewer: desjardinsb

Date: 21-Sep-2015 16:40:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		3.103				ND	
2 Dichlorodifluoromethane	85		3.172				ND	
3 Chlorodifluoromethane	51		3.220				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.434				ND	
5 Chloromethane	50		3.573				ND	
6 Butane	43		3.766				ND	
7 Vinyl chloride	62		3.809				ND	
8 Butadiene	54		3.884				ND	
9 Bromomethane	94		4.558				ND	
10 Chloroethane	64		4.782				ND	
12 Vinyl bromide	106		5.162				ND	
13 Trichlorofluoromethane	101		5.253				ND	
15 Ethanol	45		5.842				ND	
18 1,1,2-Trichloro-1,2,2-trif	101		6.291				ND	
20 1,1-Dichloroethene	96		6.350				ND	
21 Acetone	43		6.601				ND	
22 Carbon disulfide	76	6.751	6.740	0.011	37	771	0.0303	
23 Isopropyl alcohol	45		6.906				ND	
24 3-Chloro-1-propene	41		7.120				ND	
26 Methylene Chloride	49	7.414	7.409	0.005	17	799	0.0869	
28 2-Methyl-2-propanol	59		7.693				ND	
29 Methyl tert-butyl ether	73		7.816				ND	
30 trans-1,2-Dichloroethene	61		7.837				ND	
32 Hexane	57		8.206				ND	
33 1,1-Dichloroethane	63		8.709				ND	
34 Vinyl acetate	43		8.773				ND	
35 cis-1,2-Dichloroethene	96		9.811				ND	
36 2-Butanone (MEK)	72		9.865				ND	
37 Ethyl acetate	88		9.902				ND	
S 38 1,2-Dichloroethene, Total	61		10.000				ND	
* 40 Chlorobromomethane	128	10.282	10.282	0.000	75	124690	10.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
39 Tetrahydrofuran	42		10.293				ND	
41 Chloroform	83		10.405				ND	
42 Cyclohexane	84		10.646				ND	
43 1,1,1-Trichloroethane	97		10.683				ND	
44 Carbon tetrachloride	117		10.929				ND	
45 Isooctane	57		11.362				ND	
46 Benzene	78		11.411				ND	
47 1,2-Dichloroethane	62		11.603				ND	
48 n-Heptane	43		11.753				ND	
* 50 1,4-Difluorobenzene	114	12.261	12.261	0.000	92	691354	10.0	
52 Trichloroethene	95		12.743				ND	
53 1,2-Dichloropropane	63		13.331				ND	
54 Methyl methacrylate	69		13.492				ND	
55 1,4-Dioxane	88		13.567				ND	
56 Dibromomethane	174		13.604				ND	
57 Dichlorobromomethane	83		13.904				ND	
58 cis-1,3-Dichloropropene	75		14.872				ND	
61 4-Methyl-2-pentanone (MIBK)	43		15.182				ND	
62 Toluene	92		15.476				ND	
67 trans-1,3-Dichloropropene	75		16.092				ND	
68 1,1,2-Trichloroethane	83		16.482				ND	
69 Tetrachloroethene	166		16.584				ND	
70 2-Hexanone	43		16.948				ND	
71 Chlorodibromomethane	129		17.263				ND	
72 Ethylene Dibromide	107		17.547				ND	
* 73 Chlorobenzene-d5	117	18.451	18.451	0.000	82	708364	10.0	
74 Chlorobenzene	112		18.510				ND	
75 Ethylbenzene	91		18.654				ND	
77 m-Xylene & p-Xylene	106		18.906				ND	
78 o-Xylene	106		19.719				ND	
79 Styrene	104		19.767				ND	
S 80 Xylenes, Total	106		20.000				ND	
81 Bromoform	173		20.179				ND	
82 Isopropylbenzene	105		20.355				ND	
85 1,1,2,2-Tetrachloroethane	83		20.981				ND	
86 N-Propylbenzene	91		21.040				ND	
89 4-Ethyltoluene	105		21.217				ND	
90 2-Chlorotoluene	91		21.238				ND	
91 1,3,5-Trimethylbenzene	105		21.318				ND	
93 tert-Butylbenzene	119		21.789				ND	
94 1,2,4-Trimethylbenzene	105		21.880				ND	
95 sec-Butylbenzene	105		22.105				ND	
96 4-Isopropyltoluene	119		22.303				ND	
97 1,3-Dichlorobenzene	146		22.351				ND	
98 1,4-Dichlorobenzene	146		22.485				ND	
99 Benzyl chloride	91		22.688				ND	
101 n-Butylbenzene	91		22.891				ND	
102 1,2-Dichlorobenzene	146		23.046				ND	
104 1,2,4-Trichlorobenzene	180		25.678				ND	
105 Hexachlorobutadiene	225		25.860				ND	
106 Naphthalene	128		26.203				ND	

Reagents:

ATTO15GIS\_00009

Amount Added: 20.00

Units: mL

Run Reagent

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150921-15831.b\15831\_08.D

Injection Date: 21-Sep-2015 14:41:30

Instrument ID: CHX.i

Operator ID: wrd

Lims ID: 200-29786-A-3

Lab Sample ID: 200-29786-3

Worklist Smp#: 8

Client ID: 4792

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

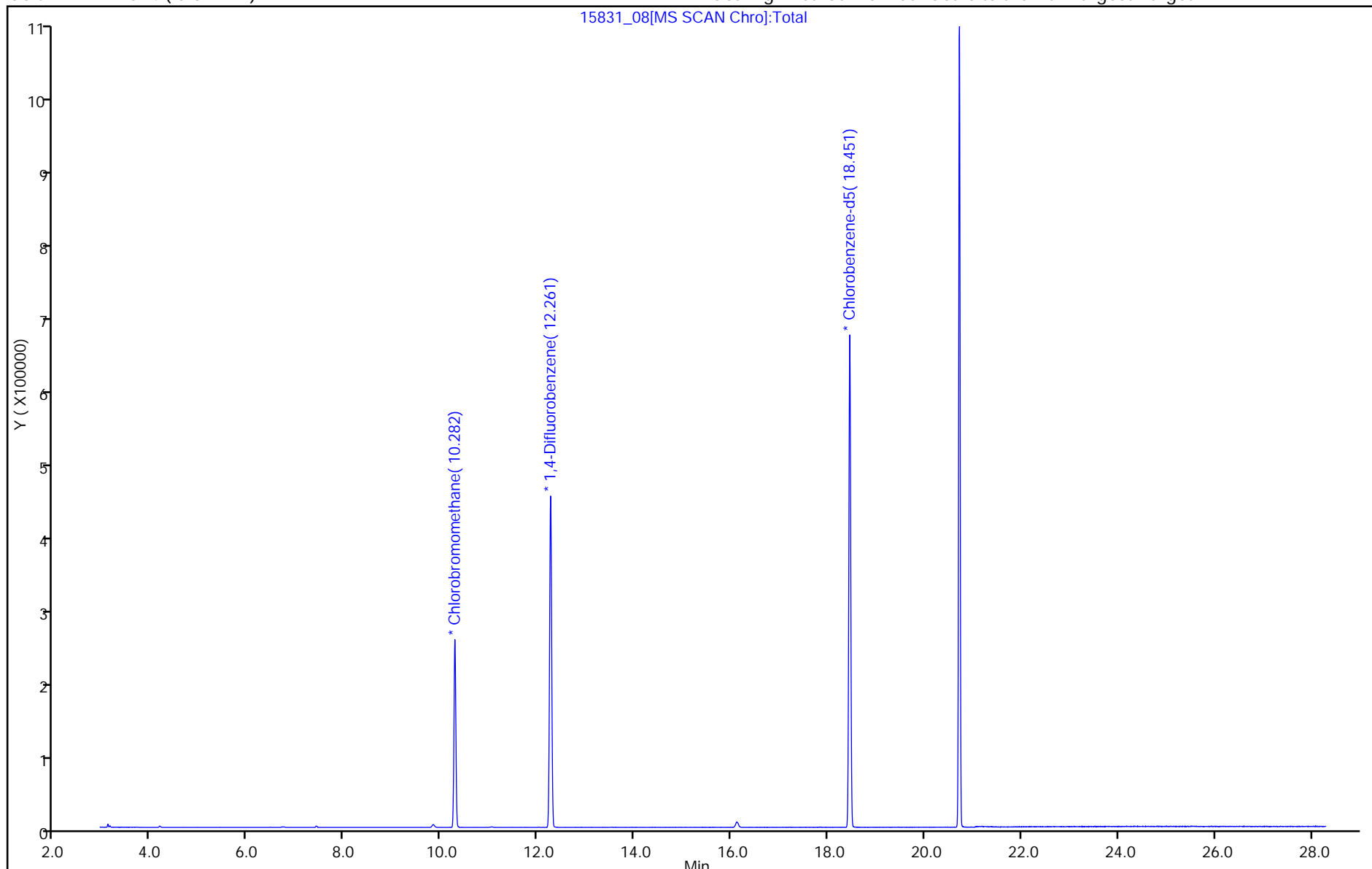
ALS Bottle#: 7

Method: TO15\_LLNJ\_TO3\_CHX.i.m

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 ( 0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29860-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 5731 Lab Sample ID: 200-29860-11  
 Matrix: Air Lab File ID: 15843\_017.d  
 Analysis Method: TO-15 Date Collected: 09/19/2015 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/22/2015 00:23  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 94222 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U *	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29860-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 5731 Lab Sample ID: 200-29860-11  
 Matrix: Air Lab File ID: 15843\_017.d  
 Analysis Method: TO-15 Date Collected: 09/19/2015 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/22/2015 00:23  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 94222 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U *	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29860-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 5731 Lab Sample ID: 200-29860-11  
 Matrix: Air Lab File ID: 15843\_017.d  
 Analysis Method: TO-15 Date Collected: 09/19/2015 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/22/2015 00:23  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 94222 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U *	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150921-15843.b\15843\_017.d  
 Lims ID: 200-29860-A-11 Lab Sample ID: 200-29860-11  
 Client ID: 5731  
 Sample Type: Client  
 Inject. Date: 22-Sep-2015 00:23:30 ALS Bottle#: 16 Worklist Smp#: 17  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Sample Info: 200-0015843-017  
 Misc. Info.: 29860-11  
 Operator ID: pad Instrument ID: CHW.i  
 Method: \\ChromNA\Burlington\ChromData\CHW.i\20150921-15843.b\TO15\_MasterMethod\_(v1).m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 22-Sep-2015 12:38:19 Calib Date: 13-Aug-2015 23:55:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20150813-15276.b\15276\_012.d  
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN  
 Process Host: XAWRK050

First Level Reviewer: daiglep

Date: 22-Sep-2015 12:33:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		4.329				ND	
2 Dichlorodifluoromethane	85		4.431				ND	
3 Chlorodifluoromethane	51		4.501				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.811				ND	
5 Chloromethane	50		5.014				ND	
6 Butane	43		5.292				ND	
7 Vinyl chloride	62		5.356				ND	
8 Butadiene	54		5.463				ND	
10 Bromomethane	94		6.373				ND	
11 Chloroethane	64		6.678				ND	
13 Vinyl bromide	106		7.181				ND	
14 Trichlorofluoromethane	101		7.298				ND	
17 Ethanol	45		7.956				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		8.598				ND	
21 1,1-Dichloroethene	96		8.673				ND	
22 Acetone	43		8.946				ND	
23 Carbon disulfide	76	9.171	9.171	0.000	98	7356	0.1163	
24 Isopropyl alcohol	45	9.246	9.230	0.016	87	2574	0.1128	
25 3-Chloro-1-propene	41		9.599				ND	
27 Methylene Chloride	49		9.936				ND	
28 2-Methyl-2-propanol	59		10.123				ND	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
29 Methyl tert-butyl ether	73		10.380				ND	
31 trans-1,2-Dichloroethene	61		10.439				ND	
33 Hexane	57		10.856				ND	
34 1,1-Dichloroethane	63		11.428				ND	
35 Vinyl acetate	43		11.477				ND	
37 cis-1,2-Dichloroethene	96		12.621				ND	
38 2-Butanone (MEK)	72		12.659				ND	
39 Ethyl acetate	88		12.670				ND	
* 40 Chlorobromomethane	128	13.108	13.114	-0.006	76	203421	10.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
41 Tetrahydrofuran	42		13.119				ND	
42 Chloroform	83		13.221				ND	
43 Cyclohexane	84		13.515				ND	
44 1,1,1-Trichloroethane	97		13.536				ND	
45 Carbon tetrachloride	117		13.788				ND	
46 Isooctane	57		14.189				ND	
47 Benzene	78		14.258				ND	
48 1,2-Dichloroethane	62		14.419				ND	
49 n-Heptane	43		14.537				ND	
* 50 1,4-Difluorobenzene	114	15.018	15.018	0.000	93	947172	10.0	
53 Trichloroethene	95		15.478				ND	
54 1,2-Dichloropropane	63		16.024				ND	
55 Methyl methacrylate	69		16.104				ND	
56 1,4-Dioxane	88		16.200				ND	
57 Dibromomethane	174		16.259				ND	
58 Dichlorobromomethane	83		16.505				ND	
60 cis-1,3-Dichloropropene	75		17.377				ND	
61 4-Methyl-2-pentanone (MIBK)	43		17.629				ND	
65 Toluene	92		17.960				ND	
66 trans-1,3-Dichloropropene	75		18.490				ND	
67 1,1,2-Trichloroethane	83		18.864				ND	
68 Tetrachloroethene	166		18.993				ND	
69 2-Hexanone	43		19.266				ND	
71 Chlorodibromomethane	129		19.619				ND	
72 Ethylene Dibromide	107		19.913				ND	
S 73 Xylenes, Total	106		20.100				ND	
* 74 Chlorobenzene-d5	117	20.732	20.737	-0.005	84	872828	10.0	
75 Chlorobenzene	112		20.785				ND	
76 Ethylbenzene	91		20.897				ND	
78 m-Xylene & p-Xylene	106		21.111				ND	
79 o-Xylene	106		21.801				ND	
80 Styrene	104		21.839				ND	
81 Bromoform	173		22.203				ND	
82 Isopropylbenzene	105		22.352				ND	
84 1,1,2,2-Tetrachloroethane	83		22.898				ND	
85 N-Propylbenzene	91		22.973				ND	
88 4-Ethyltoluene	105		23.139				ND	
89 2-Chlorotoluene	91		23.171				ND	
90 1,3,5-Trimethylbenzene	105		23.230				ND	
92 tert-Butylbenzene	119		23.722				ND	
93 1,2,4-Trimethylbenzene	105		23.813				ND	
94 sec-Butylbenzene	105		24.059				ND	
95 4-Isopropyltoluene	119		24.262				ND	
96 1,3-Dichlorobenzene	146		24.332				ND	
97 1,4-Dichlorobenzene	146		24.482				ND	
98 Benzyl chloride	91		24.701				ND	
100 n-Butylbenzene	91		24.920				ND	
101 1,2-Dichlorobenzene	146		25.108				ND	
103 1,2,4-Trichlorobenzene	180		28.130				ND	
104 Hexachlorobutadiene	225		28.344				ND	
105 Naphthalene	128		28.767				ND	

Reagents:

ATTO15WISs\_00003

Amount Added: 20.00

Units: mL

Run Reagent

- 1
- 2
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TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20150921-15843.b\15843\_017.d

Injection Date: 22-Sep-2015 00:23:30

Instrument ID: CHW.i

Operator ID: pad

Lims ID: 200-29860-A-11

Lab Sample ID: 200-29860-11

Worklist Smp#: 17

Client ID: 5731

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

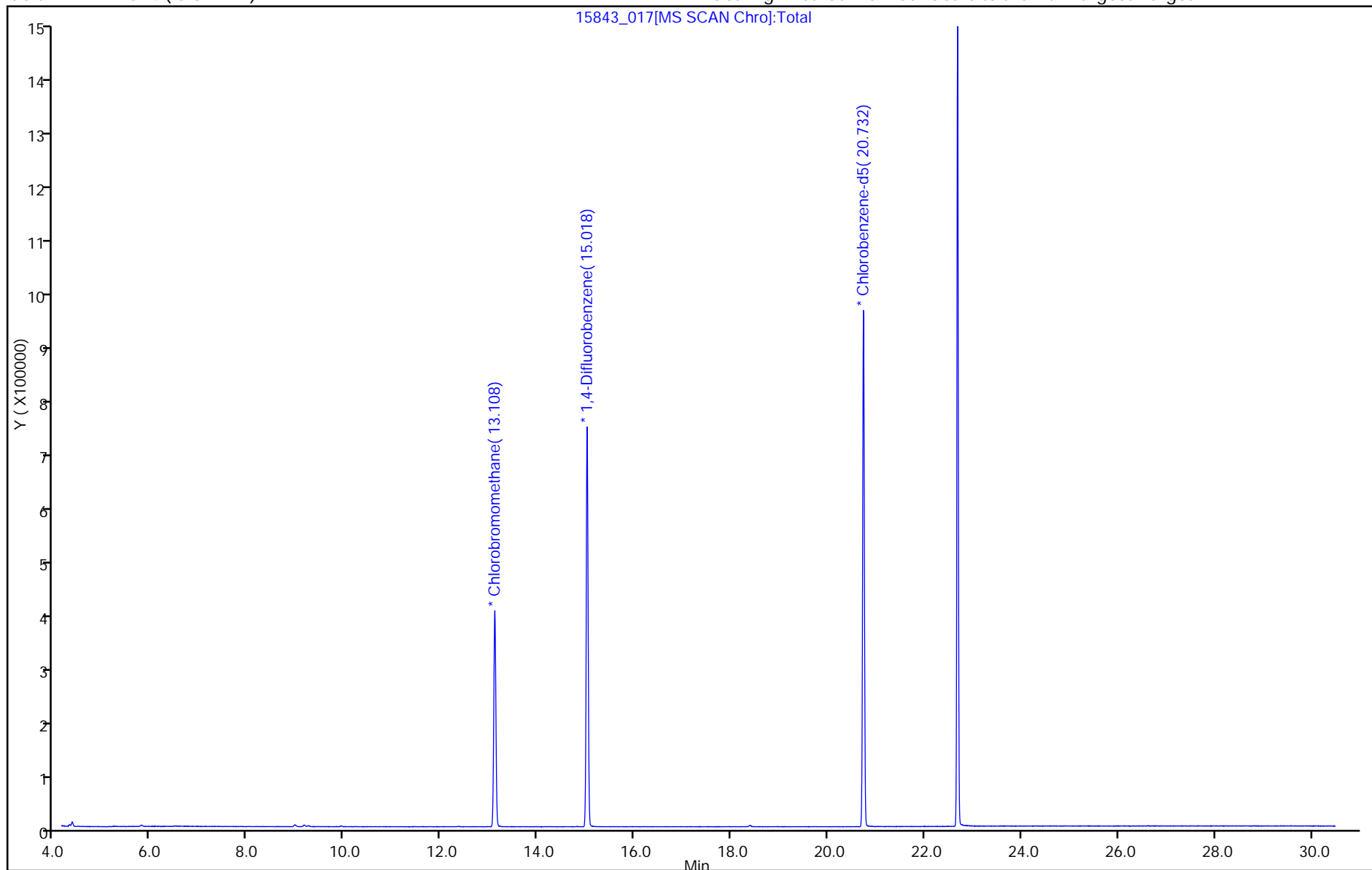
ALS Bottle#: 16

Method: TO15\_MasterMethod\_(v1)

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29888-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 2552 Lab Sample ID: 200-29888-6  
 Matrix: Air Lab File ID: 15894\_24.D  
 Analysis Method: TO-15 Date Collected: 09/21/2015 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/24/2015 06:01  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 94380 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29888-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 2552 Lab Sample ID: 200-29888-6  
 Matrix: Air Lab File ID: 15894\_24.D  
 Analysis Method: TO-15 Date Collected: 09/21/2015 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/24/2015 06:01  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 94380 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U *	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29888-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 2552 Lab Sample ID: 200-29888-6  
 Matrix: Air Lab File ID: 15894\_24.D  
 Analysis Method: TO-15 Date Collected: 09/21/2015 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/24/2015 06:01  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 94380 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150923-15894.b\15894\_24.D  
 Lims ID: 200-29888-A-6 Lab Sample ID: 200-29888-6  
 Client ID: 2552  
 Sample Type: Client  
 Inject. Date: 24-Sep-2015 06:01:30 ALS Bottle#: 6 Worklist Smp#: 24  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Sample Info: 200-0015894-024  
 Misc. Info.: 29888-6  
 Operator ID: wrd Instrument ID: CHX.i  
 Method: \\ChromNA\Burlington\ChromData\CHX.i\20150923-15894.b\TO15\_LLNJ\_TO3\_CHX.i.m.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 24-Sep-2015 08:59:39 Calib Date: 17-Aug-2015 23:52:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313\_11.D  
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN  
 Process Host: XAWRK048

First Level Reviewer: desjardinsb

Date: 24-Sep-2015 08:59:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		3.103				ND	
2 Dichlorodifluoromethane	85		3.167				ND	
3 Chlorodifluoromethane	51		3.220				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.434				ND	
5 Chloromethane	50		3.568				ND	
6 Butane	43		3.766				ND	
7 Vinyl chloride	62		3.809				ND	
8 Butadiene	54		3.884				ND	
9 Bromomethane	94		4.552				ND	
10 Chloroethane	64		4.782				ND	
12 Vinyl bromide	106		5.162				ND	
13 Trichlorofluoromethane	101		5.253				ND	
15 Ethanol	45		5.842				ND	
18 1,1,2-Trichloro-1,2,2-trif	101		6.291				ND	
20 1,1-Dichloroethene	96		6.350				ND	
21 Acetone	43		6.596				ND	
22 Carbon disulfide	76		6.740				ND	
23 Isopropyl alcohol	45		6.901				ND	
24 3-Chloro-1-propene	41		7.120				ND	
26 Methylene Chloride	49	7.415	7.409	0.006	86	1293	0.1590	
28 2-Methyl-2-propanol	59		7.677				ND	
29 Methyl tert-butyl ether	73		7.816				ND	
30 trans-1,2-Dichloroethene	61		7.837				ND	
32 Hexane	57		8.201				ND	
33 1,1-Dichloroethane	63		8.704				ND	
34 Vinyl acetate	43		8.773				ND	
35 cis-1,2-Dichloroethene	96		9.811				ND	
36 2-Butanone (MEK)	72		9.865				ND	
37 Ethyl acetate	88		9.891				ND	
S 38 1,2-Dichloroethene, Total	61		10.000				ND	
* 40 Chlorobromomethane	128	10.282	10.282	0.000	75	110353	10.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
39 Tetrahydrofuran	42		10.293				ND	
41 Chloroform	83		10.410				ND	
42 Cyclohexane	84		10.651				ND	
43 1,1,1-Trichloroethane	97		10.683				ND	
44 Carbon tetrachloride	117		10.929				ND	
45 Isooctane	57		11.357				ND	
46 Benzene	78		11.416				ND	
47 1,2-Dichloroethane	62		11.603				ND	
48 n-Heptane	43		11.748				ND	
* 50 1,4-Difluorobenzene	114	12.261	12.261	0.000	92	611864	10.0	
52 Trichloroethene	95		12.737				ND	
53 1,2-Dichloropropane	63		13.331				ND	
54 Methyl methacrylate	69		13.486				ND	
55 1,4-Dioxane	88		13.567				ND	
56 Dibromomethane	174		13.599				ND	
57 Dichlorobromomethane	83		13.904				ND	
58 cis-1,3-Dichloropropene	75		14.872				ND	
61 4-Methyl-2-pentanone (MIBK)	43		15.182				ND	
62 Toluene	92		15.476				ND	
67 trans-1,3-Dichloropropene	75		16.092				ND	
68 1,1,2-Trichloroethane	83		16.482				ND	
69 Tetrachloroethene	166		16.579				ND	
70 2-Hexanone	43		16.948				ND	
71 Chlorodibromomethane	129		17.263				ND	
72 Ethylene Dibromide	107		17.547				ND	
* 73 Chlorobenzene-d5	117	18.446	18.446	0.000	83	626798	10.0	
74 Chlorobenzene	112		18.510				ND	
75 Ethylbenzene	91		18.649				ND	
77 m-Xylene & p-Xylene	106		18.906				ND	
78 o-Xylene	106		19.719				ND	
79 Styrene	104		19.767				ND	
S 80 Xylenes, Total	106		20.000				ND	
81 Bromoform	173		20.179				ND	
82 Isopropylbenzene	105		20.355				ND	
85 1,1,2,2-Tetrachloroethane	83		20.981				ND	
86 N-Propylbenzene	91		21.040				ND	
89 4-Ethyltoluene	105		21.217				ND	
90 2-Chlorotoluene	91		21.238				ND	
91 1,3,5-Trimethylbenzene	105		21.318				ND	
93 tert-Butylbenzene	119		21.789				ND	
94 1,2,4-Trimethylbenzene	105		21.880				ND	
95 sec-Butylbenzene	105		22.105				ND	
96 4-Isopropyltoluene	119		22.303				ND	
97 1,3-Dichlorobenzene	146		22.351				ND	
98 1,4-Dichlorobenzene	146		22.485				ND	
99 Benzyl chloride	91		22.688				ND	
101 n-Butylbenzene	91		22.891				ND	
102 1,2-Dichlorobenzene	146		23.046				ND	
104 1,2,4-Trichlorobenzene	180		25.673				ND	
105 Hexachlorobutadiene	225		25.860				ND	
106 Naphthalene	128		26.203				ND	

Reagents:

ATTO15GIS\_00009

Amount Added: 20.00

Units: mL

Run Reagent

- 1
- 2
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TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150923-15894.b\15894\_24.D

Injection Date: 24-Sep-2015 06:01:30

Instrument ID: CHX.i

Operator ID: wrd

Lims ID: 200-29888-A-6

Lab Sample ID: 200-29888-6

Worklist Smp#: 24

Client ID: 2552

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

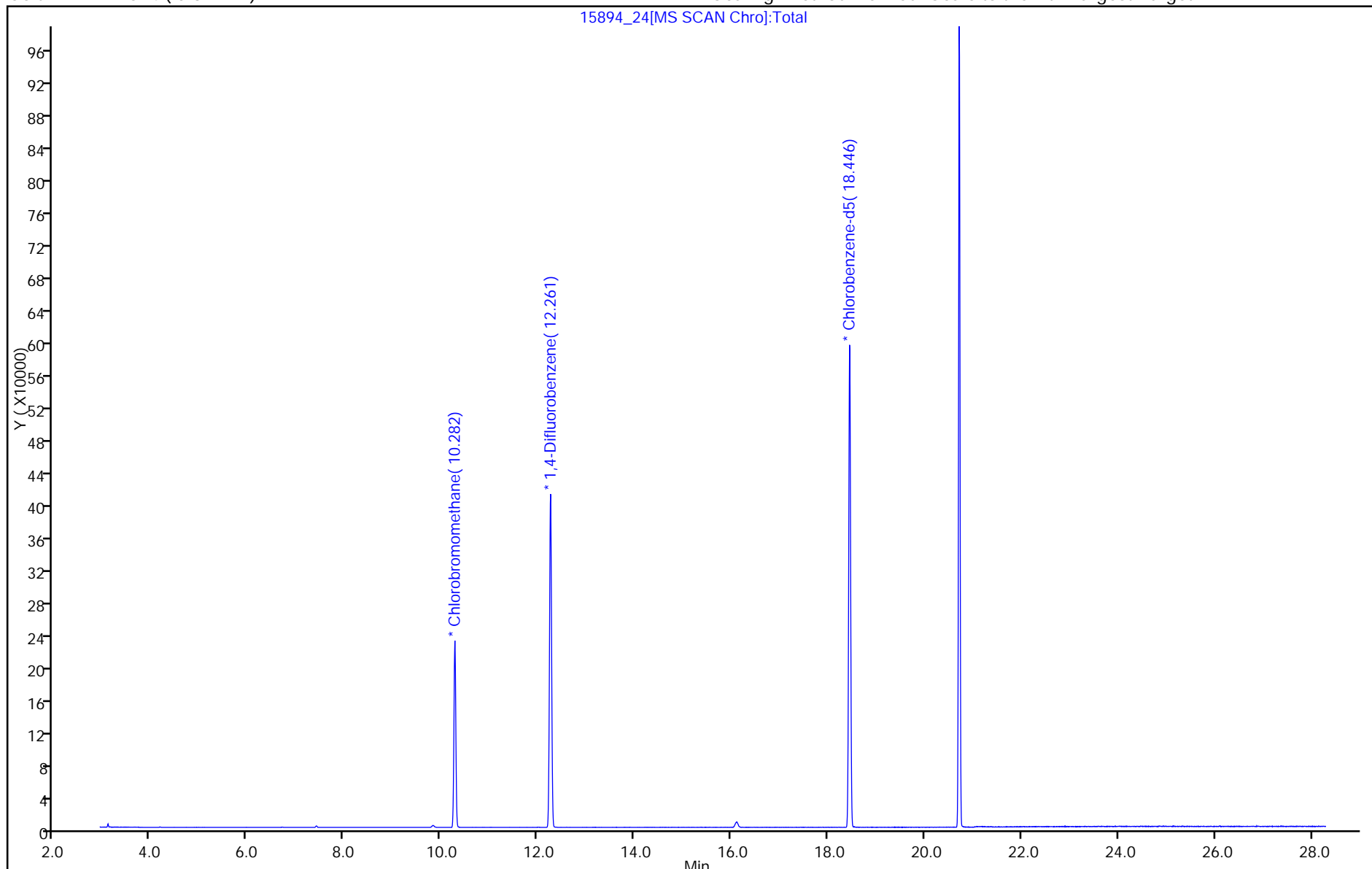
ALS Bottle#: 6

Method: TO15\_LLNJ\_TO3\_CHX.i.m

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 ( 0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29889-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 4012 Lab Sample ID: 200-29889-9  
 Matrix: Air Lab File ID: 15894\_25.D  
 Analysis Method: TO-15 Date Collected: 09/21/2015 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/24/2015 06:59  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 94380 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29889-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 4012 Lab Sample ID: 200-29889-9  
 Matrix: Air Lab File ID: 15894\_25.D  
 Analysis Method: TO-15 Date Collected: 09/21/2015 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/24/2015 06:59  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 94380 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U *	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-29889-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 4012 Lab Sample ID: 200-29889-9  
 Matrix: Air Lab File ID: 15894\_25.D  
 Analysis Method: TO-15 Date Collected: 09/21/2015 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/24/2015 06:59  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 94380 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150923-15894.b\15894\_25.D  
 Lims ID: 200-29889-A-9 Lab Sample ID: 200-29889-9  
 Client ID: 4012  
 Sample Type: Client  
 Inject. Date: 24-Sep-2015 06:59:30 ALS Bottle#: 7 Worklist Smp#: 25  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Sample Info: 200-0015894-025  
 Misc. Info.: 29889-9  
 Operator ID: wrd Instrument ID: CHX.i  
 Method: \\ChromNA\Burlington\ChromData\CHX.i\20150923-15894.b\TO15\_LLNJ\_TO3\_CHX.i.m.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 24-Sep-2015 09:00:13 Calib Date: 17-Aug-2015 23:52:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CHX.i\20150817-15313.b\15313\_11.D  
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN  
 Process Host: XAWRK048

First Level Reviewer: desjardinsb

Date: 24-Sep-2015 09:00:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		3.103				ND	
2 Dichlorodifluoromethane	85		3.167				ND	
3 Chlorodifluoromethane	51		3.220				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.434				ND	
5 Chloromethane	50		3.568				ND	
6 Butane	43		3.766				ND	
7 Vinyl chloride	62		3.809				ND	
8 Butadiene	54		3.884				ND	
9 Bromomethane	94		4.552				ND	
10 Chloroethane	64		4.782				ND	
12 Vinyl bromide	106		5.162				ND	
13 Trichlorofluoromethane	101		5.253				ND	
15 Ethanol	45		5.842				ND	
18 1,1,2-Trichloro-1,2,2-trif	101		6.291				ND	
20 1,1-Dichloroethene	96		6.350				ND	
21 Acetone	43		6.596				ND	
22 Carbon disulfide	76		6.740				ND	
23 Isopropyl alcohol	45		6.901				ND	
24 3-Chloro-1-propene	41		7.120				ND	
26 Methylene Chloride	49	7.425	7.409	0.016	84	1098	0.1383	
28 2-Methyl-2-propanol	59		7.677				ND	
29 Methyl tert-butyl ether	73		7.816				ND	
30 trans-1,2-Dichloroethene	61		7.837				ND	
32 Hexane	57		8.201				ND	
33 1,1-Dichloroethane	63		8.704				ND	
34 Vinyl acetate	43		8.773				ND	
35 cis-1,2-Dichloroethene	96		9.811				ND	
36 2-Butanone (MEK)	72		9.865				ND	
37 Ethyl acetate	88		9.891				ND	
S 38 1,2-Dichloroethene, Total	61		10.000				ND	
* 40 Chlorobromomethane	128	10.287	10.282	0.005	75	107748	10.0	



Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
39 Tetrahydrofuran	42		10.293				ND	
41 Chloroform	83		10.410				ND	
42 Cyclohexane	84		10.651				ND	
43 1,1,1-Trichloroethane	97		10.683				ND	
44 Carbon tetrachloride	117		10.929				ND	
45 Isooctane	57		11.357				ND	
46 Benzene	78		11.416				ND	
47 1,2-Dichloroethane	62		11.603				ND	
48 n-Heptane	43		11.748				ND	
* 50 1,4-Difluorobenzene	114	12.261	12.261	0.000	92	595940	10.0	
52 Trichloroethene	95		12.737				ND	
53 1,2-Dichloropropane	63		13.331				ND	
54 Methyl methacrylate	69		13.486				ND	
55 1,4-Dioxane	88		13.567				ND	
56 Dibromomethane	174		13.599				ND	
57 Dichlorobromomethane	83		13.904				ND	
58 cis-1,3-Dichloropropene	75		14.872				ND	
61 4-Methyl-2-pentanone (MIBK)	43		15.182				ND	
62 Toluene	92		15.476				ND	
67 trans-1,3-Dichloropropene	75		16.092				ND	
68 1,1,2-Trichloroethane	83		16.482				ND	
69 Tetrachloroethene	166		16.579				ND	
70 2-Hexanone	43		16.948				ND	
71 Chlorodibromomethane	129		17.263				ND	
72 Ethylene Dibromide	107		17.547				ND	
* 73 Chlorobenzene-d5	117	18.451	18.446	0.005	82	611168	10.0	
74 Chlorobenzene	112		18.510				ND	
75 Ethylbenzene	91		18.649				ND	
77 m-Xylene & p-Xylene	106		18.906				ND	
78 o-Xylene	106		19.719				ND	
79 Styrene	104		19.767				ND	
S 80 Xylenes, Total	106		20.000				ND	
81 Bromoform	173		20.179				ND	
82 Isopropylbenzene	105		20.355				ND	
85 1,1,2,2-Tetrachloroethane	83		20.981				ND	
86 N-Propylbenzene	91		21.040				ND	
89 4-Ethyltoluene	105		21.217				ND	
90 2-Chlorotoluene	91		21.238				ND	
91 1,3,5-Trimethylbenzene	105		21.318				ND	
93 tert-Butylbenzene	119		21.789				ND	
94 1,2,4-Trimethylbenzene	105		21.880				ND	
95 sec-Butylbenzene	105		22.105				ND	
96 4-Isopropyltoluene	119		22.303				ND	
97 1,3-Dichlorobenzene	146		22.351				ND	
98 1,4-Dichlorobenzene	146		22.485				ND	
99 Benzyl chloride	91		22.688				ND	
101 n-Butylbenzene	91		22.891				ND	
102 1,2-Dichlorobenzene	146		23.046				ND	
104 1,2,4-Trichlorobenzene	180		25.673				ND	
105 Hexachlorobutadiene	225		25.860				ND	
106 Naphthalene	128		26.203				ND	

Reagents:

ATTO15GIS\_00009

Amount Added: 20.00

Units: mL

Run Reagent

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20150923-15894.b\15894\_25.D

Injection Date: 24-Sep-2015 06:59:30

Instrument ID: CHX.i

Operator ID: wrd

Lims ID: 200-29889-A-9

Lab Sample ID: 200-29889-9

Worklist Smp#: 25

Client ID: 4012

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

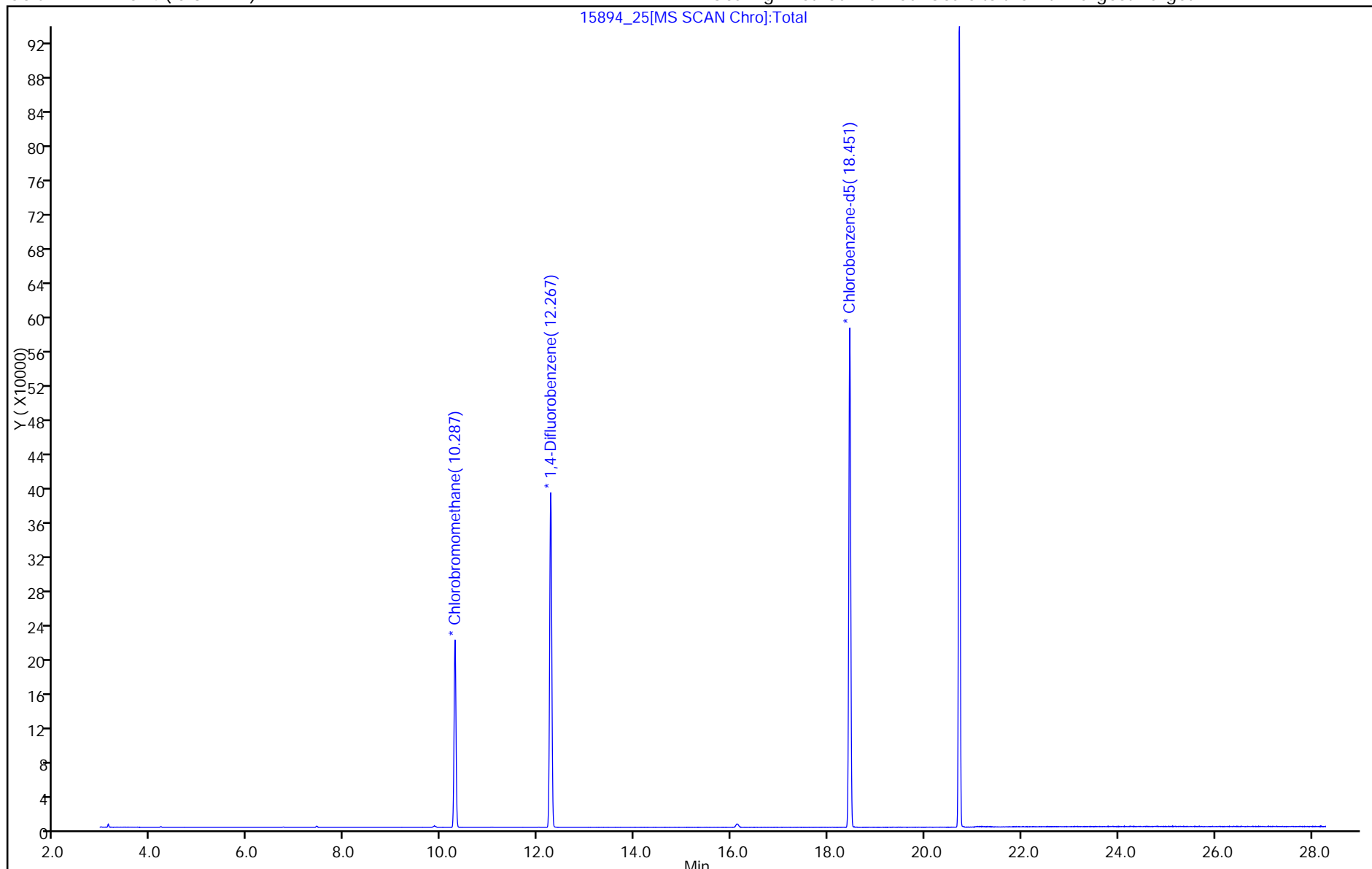
ALS Bottle#: 7

Method: TO15\_LL NJ\_TO3\_CHX.i.m

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 ( 0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1





December 16, 2014

Andrew Romanek  
CDM Smith Inc.  
3715 Northside Parkway  
Atlanta GA 30327

TEL: (404) 720-1400  
FAX: (404) 467-4130

RE: CESSNA

Dear Andrew Romanek:

Order No: 1412954

Analytical Environmental Services, Inc. received 31 samples on 12/10/2014 11:55:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

James Forrest  
Project Manager







<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> DUP-1
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/8/2014 8:00:00 AM
<b>Lab ID:</b> 1412954-001	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
1,1,2,2-Tetrachloroethane	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
1,1,2-Trichloroethane	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
1,1-Dichloroethane	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
1,1-Dichloroethene	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
1,2,4-Trichlorobenzene	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
1,2-Dibromo-3-chloropropane	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
1,2-Dibromoethane	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
1,2-Dichlorobenzene	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
1,2-Dichloroethane	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
1,2-Dichloropropane	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
1,3-Dichlorobenzene	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
1,4-Dichlorobenzene	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
2-Butanone	BRL	35		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
2-Hexanone	BRL	7.1		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
4-Methyl-2-pentanone	BRL	7.1		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
Acetone	BRL	71		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
Benzene	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
Bromodichloromethane	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
Bromoform	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
Bromomethane	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
Carbon disulfide	BRL	7.1		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
Carbon tetrachloride	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
Chlorobenzene	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
Chloroethane	BRL	7.1		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
Chloroform	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
Chloromethane	BRL	7.1		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
cis-1,2-Dichloroethene	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
cis-1,3-Dichloropropene	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
Cyclohexane	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
Dibromochloromethane	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
Dichlorodifluoromethane	BRL	7.1		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
Ethylbenzene	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
Freon-113	BRL	7.1		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
Isopropylbenzene	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
m,p-Xylene	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
Methyl acetate	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
Methyl tert-butyl ether	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
Methylcyclohexane	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
Methylene chloride	BRL	14		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
o-Xylene	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit



<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> DUP-1
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/8/2014 8:00:00 AM
<b>Lab ID:</b> 1412954-001	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5035)</b>				
Styrene	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
Tetrachloroethene	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
Toluene	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
trans-1,2-Dichloroethene	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
trans-1,3-Dichloropropene	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
Trichloroethene	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
Trichlorofluoromethane	BRL	3.5		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
Vinyl chloride	BRL	7.1		ug/Kg-dry	200413	1	12/11/2014 17:50	JE
Surr: 4-Bromofluorobenzene	99.4	70-128		%REC	200413	1	12/11/2014 17:50	JE
Surr: Dibromofluoromethane	104	78.2-128		%REC	200413	1	12/11/2014 17:50	JE
Surr: Toluene-d8	98.9	76.5-116		%REC	200413	1	12/11/2014 17:50	JE
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	18.6	0		wt%	R281926	1	12/15/2014 17:00	PF

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-36 (2)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/8/2014 10:50:00 AM
<b>Lab ID:</b> 1412954-002	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
1,1,2,2-Tetrachloroethane	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
1,1,2-Trichloroethane	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
1,1-Dichloroethane	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
1,1-Dichloroethene	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
1,2,4-Trichlorobenzene	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
1,2-Dibromo-3-chloropropane	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
1,2-Dibromoethane	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
1,2-Dichlorobenzene	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
1,2-Dichloroethane	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
1,2-Dichloropropane	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
1,3-Dichlorobenzene	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
1,4-Dichlorobenzene	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
2-Butanone	BRL	26		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
2-Hexanone	BRL	5.3		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
4-Methyl-2-pentanone	BRL	5.3		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
Acetone	BRL	53		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
Benzene	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
Bromodichloromethane	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
Bromoform	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
Bromomethane	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
Carbon disulfide	BRL	5.3		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
Carbon tetrachloride	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
Chlorobenzene	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
Chloroethane	BRL	5.3		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
Chloroform	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
Chloromethane	BRL	5.3		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
cis-1,2-Dichloroethene	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
cis-1,3-Dichloropropene	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
Cyclohexane	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
Dibromochloromethane	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
Dichlorodifluoromethane	BRL	5.3		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
Ethylbenzene	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
Freon-113	BRL	5.3		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
Isopropylbenzene	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
m,p-Xylene	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
Methyl acetate	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
Methyl tert-butyl ether	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
Methylcyclohexane	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
Methylene chloride	BRL	11		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
o-Xylene	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-36 (2)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/8/2014 10:50:00 AM
<b>Lab ID:</b> 1412954-002	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
Tetrachloroethene	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
Toluene	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
trans-1,2-Dichloroethene	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
trans-1,3-Dichloropropene	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
Trichloroethene	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
Trichlorofluoromethane	BRL	2.6		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
Vinyl chloride	BRL	5.3		ug/Kg-dry	200413	1	12/11/2014 18:40	JE
Surr: 4-Bromofluorobenzene	102	70-128		%REC	200413	1	12/11/2014 18:40	JE
Surr: Dibromofluoromethane	103	78.2-128		%REC	200413	1	12/11/2014 18:40	JE
Surr: Toluene-d8	100	76.5-116		%REC	200413	1	12/11/2014 18:40	JE
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	9.65	0		wt%	R281926	1	12/15/2014 17:00	PF

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 16-Dec-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-36 (5)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/8/2014 10:55:00 AM
<b>Lab ID:</b> 1412954-003	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
1,1,2,2-Tetrachloroethane	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
1,1,2-Trichloroethane	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
1,1-Dichloroethane	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
1,1-Dichloroethene	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
1,2,4-Trichlorobenzene	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
1,2-Dibromo-3-chloropropane	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
1,2-Dibromoethane	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
1,2-Dichlorobenzene	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
1,2-Dichloroethane	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
1,2-Dichloropropane	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
1,3-Dichlorobenzene	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
1,4-Dichlorobenzene	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
2-Butanone	BRL	34		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
2-Hexanone	BRL	6.7		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
4-Methyl-2-pentanone	BRL	6.7		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
Acetone	BRL	67		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
Benzene	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
Bromodichloromethane	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
Bromoform	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
Bromomethane	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
Carbon disulfide	BRL	6.7		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
Carbon tetrachloride	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
Chlorobenzene	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
Chloroethane	BRL	6.7		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
Chloroform	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
Chloromethane	BRL	6.7		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
cis-1,2-Dichloroethene	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
cis-1,3-Dichloropropene	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
Cyclohexane	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
Dibromochloromethane	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
Dichlorodifluoromethane	BRL	6.7		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
Ethylbenzene	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
Freon-113	BRL	6.7		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
Isopropylbenzene	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
m,p-Xylene	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
Methyl acetate	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
Methyl tert-butyl ether	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
Methylcyclohexane	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
Methylene chloride	BRL	13		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
o-Xylene	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-36 (5)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/8/2014 10:55:00 AM
<b>Lab ID:</b> 1412954-003	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
Tetrachloroethene	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
Toluene	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
trans-1,2-Dichloroethene	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
trans-1,3-Dichloropropene	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
Trichloroethene	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
Trichlorofluoromethane	BRL	3.4		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
Vinyl chloride	BRL	6.7		ug/Kg-dry	200413	1	12/11/2014 19:05	JE
Surr: 4-Bromofluorobenzene	104	70-128		%REC	200413	1	12/11/2014 19:05	JE
Surr: Dibromofluoromethane	108	78.2-128		%REC	200413	1	12/11/2014 19:05	JE
Surr: Toluene-d8	99.4	76.5-116		%REC	200413	1	12/11/2014 19:05	JE
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	26.3	0		wt%	R281926	1	12/15/2014 17:00	PF

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 16-Dec-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-36
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/8/2014 11:00:00 AM
<b>Lab ID:</b> 1412954-004	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
1,1-Dichloroethane	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
1,1-Dichloroethene	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
1,2-Dibromoethane	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
1,2-Dichloroethane	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
1,2-Dichloropropane	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
2-Butanone	BRL	50		ug/L	200442	1	12/12/2014 21:56	GK
2-Hexanone	BRL	10		ug/L	200442	1	12/12/2014 21:56	GK
4-Methyl-2-pentanone	BRL	10		ug/L	200442	1	12/12/2014 21:56	GK
Acetone	BRL	50		ug/L	200442	1	12/12/2014 21:56	GK
Benzene	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
Bromodichloromethane	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
Bromoform	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
Bromomethane	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
Carbon disulfide	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
Carbon tetrachloride	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
Chlorobenzene	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
Chloroethane	BRL	10		ug/L	200442	1	12/12/2014 21:56	GK
Chloroform	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
Chloromethane	BRL	10		ug/L	200442	1	12/12/2014 21:56	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
Cyclohexane	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
Dibromochloromethane	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
Dichlorodifluoromethane	BRL	10		ug/L	200442	1	12/12/2014 21:56	GK
Ethylbenzene	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
Freon-113	BRL	10		ug/L	200442	1	12/12/2014 21:56	GK
Isopropylbenzene	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
m,p-Xylene	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
Methyl acetate	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
Methylcyclohexane	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
Methylene chloride	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
o-Xylene	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-36
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/8/2014 11:00:00 AM
<b>Lab ID:</b> 1412954-004	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
Tetrachloroethene	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
Toluene	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
Trichloroethene	540	50		ug/L	200442	10	12/15/2014 10:35	GK
Trichlorofluoromethane	BRL	5.0		ug/L	200442	1	12/12/2014 21:56	GK
Vinyl chloride	BRL	2.0		ug/L	200442	1	12/12/2014 21:56	GK
Surr: 4-Bromofluorobenzene	95.4	70.6-123		%REC	200442	1	12/12/2014 21:56	GK
Surr: 4-Bromofluorobenzene	97.3	70.6-123		%REC	200442	10	12/15/2014 10:35	GK
Surr: Dibromofluoromethane	97.3	78.7-124		%REC	200442	10	12/15/2014 10:35	GK
Surr: Dibromofluoromethane	101	78.7-124		%REC	200442	1	12/12/2014 21:56	GK
Surr: Toluene-d8	99.6	81.3-120		%REC	200442	1	12/12/2014 21:56	GK
Surr: Toluene-d8	98.1	81.3-120		%REC	200442	10	12/15/2014 10:35	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 16-Dec-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-35
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/8/2014 11:25:00 AM
<b>Lab ID:</b> 1412954-005	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
1,1-Dichloroethane	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
1,1-Dichloroethene	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
1,2-Dibromoethane	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
1,2-Dichloroethane	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
1,2-Dichloropropane	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
2-Butanone	BRL	50		ug/L	200442	1	12/12/2014 22:27	GK
2-Hexanone	BRL	10		ug/L	200442	1	12/12/2014 22:27	GK
4-Methyl-2-pentanone	BRL	10		ug/L	200442	1	12/12/2014 22:27	GK
Acetone	BRL	50		ug/L	200442	1	12/12/2014 22:27	GK
Benzene	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
Bromodichloromethane	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
Bromoform	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
Bromomethane	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
Carbon disulfide	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
Carbon tetrachloride	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
Chlorobenzene	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
Chloroethane	BRL	10		ug/L	200442	1	12/12/2014 22:27	GK
Chloroform	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
Chloromethane	BRL	10		ug/L	200442	1	12/12/2014 22:27	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
Cyclohexane	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
Dibromochloromethane	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
Dichlorodifluoromethane	BRL	10		ug/L	200442	1	12/12/2014 22:27	GK
Ethylbenzene	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
Freon-113	BRL	10		ug/L	200442	1	12/12/2014 22:27	GK
Isopropylbenzene	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
m,p-Xylene	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
Methyl acetate	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
Methylcyclohexane	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
Methylene chloride	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
o-Xylene	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-35
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/8/2014 11:25:00 AM
<b>Lab ID:</b> 1412954-005	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
Tetrachloroethene	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
Toluene	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
Trichloroethene	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
Trichlorofluoromethane	BRL	5.0		ug/L	200442	1	12/12/2014 22:27	GK
Vinyl chloride	BRL	2.0		ug/L	200442	1	12/12/2014 22:27	GK
Surr: 4-Bromofluorobenzene	96.6	70.6-123		%REC	200442	1	12/12/2014 22:27	GK
Surr: Dibromofluoromethane	100	78.7-124		%REC	200442	1	12/12/2014 22:27	GK
Surr: Toluene-d8	99.9	81.3-120		%REC	200442	1	12/12/2014 22:27	GK

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 16-Dec-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-34 (2)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/8/2014 11:45:00 AM
<b>Lab ID:</b> 1412954-006	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
1,1,2,2-Tetrachloroethane	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
1,1,2-Trichloroethane	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
1,1-Dichloroethane	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
1,1-Dichloroethene	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
1,2,4-Trichlorobenzene	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
1,2-Dibromo-3-chloropropane	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
1,2-Dibromoethane	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
1,2-Dichlorobenzene	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
1,2-Dichloroethane	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
1,2-Dichloropropane	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
1,3-Dichlorobenzene	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
1,4-Dichlorobenzene	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
2-Butanone	BRL	38		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
2-Hexanone	BRL	7.6		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
4-Methyl-2-pentanone	BRL	7.6		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
Acetone	BRL	76		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
Benzene	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
Bromodichloromethane	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
Bromoform	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
Bromomethane	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
Carbon disulfide	BRL	7.6		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
Carbon tetrachloride	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
Chlorobenzene	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
Chloroethane	BRL	7.6		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
Chloroform	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
Chloromethane	BRL	7.6		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
cis-1,2-Dichloroethene	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
cis-1,3-Dichloropropene	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
Cyclohexane	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
Dibromochloromethane	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
Dichlorodifluoromethane	BRL	7.6		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
Ethylbenzene	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
Freon-113	BRL	7.6		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
Isopropylbenzene	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
m,p-Xylene	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
Methyl acetate	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
Methyl tert-butyl ether	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
Methylcyclohexane	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
Methylene chloride	BRL	15		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
o-Xylene	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 16-Dec-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-34 (2)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/8/2014 11:45:00 AM
<b>Lab ID:</b> 1412954-006	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
Tetrachloroethene	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
Toluene	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
trans-1,2-Dichloroethene	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
trans-1,3-Dichloropropene	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
Trichloroethene	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
Trichlorofluoromethane	BRL	3.8		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
Vinyl chloride	BRL	7.6		ug/Kg-dry	200413	1	12/11/2014 19:30	JE
Surr: 4-Bromofluorobenzene	93.9	70-128		%REC	200413	1	12/11/2014 19:30	JE
Surr: Dibromofluoromethane	107	78.2-128		%REC	200413	1	12/11/2014 19:30	JE
Surr: Toluene-d8	101	76.5-116		%REC	200413	1	12/11/2014 19:30	JE
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	19.3	0		wt%	R281926	1	12/15/2014 17:00	PF

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 16-Dec-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-34 (5)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/8/2014 11:50:00 AM
<b>Lab ID:</b> 1412954-007	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
1,1,2,2-Tetrachloroethane	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
1,1,2-Trichloroethane	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
1,1-Dichloroethane	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
1,1-Dichloroethene	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
1,2,4-Trichlorobenzene	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
1,2-Dibromo-3-chloropropane	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
1,2-Dibromoethane	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
1,2-Dichlorobenzene	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
1,2-Dichloroethane	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
1,2-Dichloropropane	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
1,3-Dichlorobenzene	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
1,4-Dichlorobenzene	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
2-Butanone	BRL	32		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
2-Hexanone	BRL	6.4		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
4-Methyl-2-pentanone	BRL	6.4		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
Acetone	BRL	64		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
Benzene	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
Bromodichloromethane	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
Bromoform	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
Bromomethane	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
Carbon disulfide	BRL	6.4		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
Carbon tetrachloride	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
Chlorobenzene	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
Chloroethane	BRL	6.4		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
Chloroform	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
Chloromethane	BRL	6.4		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
cis-1,2-Dichloroethene	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
cis-1,3-Dichloropropene	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
Cyclohexane	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
Dibromochloromethane	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
Dichlorodifluoromethane	BRL	6.4		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
Ethylbenzene	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
Freon-113	BRL	6.4		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
Isopropylbenzene	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
m,p-Xylene	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
Methyl acetate	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
Methyl tert-butyl ether	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
Methylcyclohexane	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
Methylene chloride	BRL	13		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
o-Xylene	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-34 (5)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/8/2014 11:50:00 AM
<b>Lab ID:</b> 1412954-007	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5035)</b>				
Styrene	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
Tetrachloroethene	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
Toluene	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
trans-1,2-Dichloroethene	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
trans-1,3-Dichloropropene	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
Trichloroethene	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
Trichlorofluoromethane	BRL	3.2		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
Vinyl chloride	BRL	6.4		ug/Kg-dry	200413	1	12/13/2014 21:17	JE
Surr: 4-Bromofluorobenzene	94.6	70-128		%REC	200413	1	12/13/2014 21:17	JE
Surr: Dibromofluoromethane	99	78.2-128		%REC	200413	1	12/13/2014 21:17	JE
Surr: Toluene-d8	97.1	76.5-116		%REC	200413	1	12/13/2014 21:17	JE
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	15.3	0		wt%	R281926	1	12/15/2014 17:00	PF

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 16-Dec-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-34
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/8/2014 11:55:00 AM
<b>Lab ID:</b> 1412954-008	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
1,1-Dichloroethane	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
1,1-Dichloroethene	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
1,2-Dibromoethane	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
1,2-Dichloroethane	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
1,2-Dichloropropane	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
2-Butanone	BRL	50		ug/L	200442	1	12/12/2014 22:57	GK
2-Hexanone	BRL	10		ug/L	200442	1	12/12/2014 22:57	GK
4-Methyl-2-pentanone	BRL	10		ug/L	200442	1	12/12/2014 22:57	GK
Acetone	BRL	50		ug/L	200442	1	12/12/2014 22:57	GK
Benzene	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
Bromodichloromethane	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
Bromoform	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
Bromomethane	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
Carbon disulfide	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
Carbon tetrachloride	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
Chlorobenzene	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
Chloroethane	BRL	10		ug/L	200442	1	12/12/2014 22:57	GK
Chloroform	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
Chloromethane	BRL	10		ug/L	200442	1	12/12/2014 22:57	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
Cyclohexane	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
Dibromochloromethane	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
Dichlorodifluoromethane	BRL	10		ug/L	200442	1	12/12/2014 22:57	GK
Ethylbenzene	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
Freon-113	BRL	10		ug/L	200442	1	12/12/2014 22:57	GK
Isopropylbenzene	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
m,p-Xylene	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
Methyl acetate	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
Methylcyclohexane	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
Methylene chloride	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
o-Xylene	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-34
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/8/2014 11:55:00 AM
<b>Lab ID:</b> 1412954-008	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
Tetrachloroethene	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
Toluene	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
Trichloroethene	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
Trichlorofluoromethane	BRL	5.0		ug/L	200442	1	12/12/2014 22:57	GK
Vinyl chloride	BRL	2.0		ug/L	200442	1	12/12/2014 22:57	GK
Surr: 4-Bromofluorobenzene	95.7	70.6-123		%REC	200442	1	12/12/2014 22:57	GK
Surr: Dibromofluoromethane	101	78.7-124		%REC	200442	1	12/12/2014 22:57	GK
Surr: Toluene-d8	98.9	81.3-120		%REC	200442	1	12/12/2014 22:57	GK

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-33
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/8/2014 12:10:00 PM
<b>Lab ID:</b> 1412954-009	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
1,1-Dichloroethane	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
1,1-Dichloroethene	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
1,2-Dibromoethane	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
1,2-Dichloroethane	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
1,2-Dichloropropane	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
2-Butanone	BRL	50		ug/L	200442	1	12/12/2014 23:28	GK
2-Hexanone	BRL	10		ug/L	200442	1	12/12/2014 23:28	GK
4-Methyl-2-pentanone	BRL	10		ug/L	200442	1	12/12/2014 23:28	GK
Acetone	BRL	50		ug/L	200442	1	12/12/2014 23:28	GK
Benzene	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
Bromodichloromethane	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
Bromoform	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
Bromomethane	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
Carbon disulfide	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
Carbon tetrachloride	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
Chlorobenzene	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
Chloroethane	BRL	10		ug/L	200442	1	12/12/2014 23:28	GK
Chloroform	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
Chloromethane	BRL	10		ug/L	200442	1	12/12/2014 23:28	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
Cyclohexane	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
Dibromochloromethane	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
Dichlorodifluoromethane	BRL	10		ug/L	200442	1	12/12/2014 23:28	GK
Ethylbenzene	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
Freon-113	BRL	10		ug/L	200442	1	12/12/2014 23:28	GK
Isopropylbenzene	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
m,p-Xylene	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
Methyl acetate	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
Methylcyclohexane	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
Methylene chloride	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
o-Xylene	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-33
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/8/2014 12:10:00 PM
<b>Lab ID:</b> 1412954-009	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
Tetrachloroethene	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
Toluene	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
Trichloroethene	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
Trichlorofluoromethane	BRL	5.0		ug/L	200442	1	12/12/2014 23:28	GK
Vinyl chloride	BRL	2.0		ug/L	200442	1	12/12/2014 23:28	GK
Surr: 4-Bromofluorobenzene	96.3	70.6-123		%REC	200442	1	12/12/2014 23:28	GK
Surr: Dibromofluoromethane	99.9	78.7-124		%REC	200442	1	12/12/2014 23:28	GK
Surr: Toluene-d8	99.1	81.3-120		%REC	200442	1	12/12/2014 23:28	GK

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-32 (2)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/8/2014 12:40:00 PM
<b>Lab ID:</b> 1412954-010	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
1,1,2,2-Tetrachloroethane	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
1,1,2-Trichloroethane	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
1,1-Dichloroethane	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
1,1-Dichloroethene	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
1,2,4-Trichlorobenzene	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
1,2-Dibromo-3-chloropropane	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
1,2-Dibromoethane	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
1,2-Dichlorobenzene	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
1,2-Dichloroethane	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
1,2-Dichloropropane	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
1,3-Dichlorobenzene	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
1,4-Dichlorobenzene	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
2-Butanone	BRL	27		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
2-Hexanone	BRL	5.5		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
4-Methyl-2-pentanone	BRL	5.5		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
Acetone	BRL	55		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
Benzene	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
Bromodichloromethane	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
Bromoform	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
Bromomethane	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
Carbon disulfide	BRL	5.5		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
Carbon tetrachloride	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
Chlorobenzene	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
Chloroethane	BRL	5.5		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
Chloroform	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
Chloromethane	BRL	5.5		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
cis-1,2-Dichloroethene	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
cis-1,3-Dichloropropene	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
Cyclohexane	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
Dibromochloromethane	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
Dichlorodifluoromethane	BRL	5.5		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
Ethylbenzene	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
Freon-113	BRL	5.5		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
Isopropylbenzene	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
m,p-Xylene	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
Methyl acetate	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
Methyl tert-butyl ether	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
Methylcyclohexane	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
Methylene chloride	BRL	11		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
o-Xylene	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 16-Dec-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-32 (2)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/8/2014 12:40:00 PM
<b>Lab ID:</b> 1412954-010	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5035)</b>				
Styrene	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
Tetrachloroethene	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
Toluene	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
trans-1,2-Dichloroethene	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
trans-1,3-Dichloropropene	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
Trichloroethene	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
Trichlorofluoromethane	BRL	2.7		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
Vinyl chloride	BRL	5.5		ug/Kg-dry	200413	1	12/13/2014 21:43	JE
Surr: 4-Bromofluorobenzene	95	70-128		%REC	200413	1	12/13/2014 21:43	JE
Surr: Dibromofluoromethane	90	78.2-128		%REC	200413	1	12/13/2014 21:43	JE
Surr: Toluene-d8	97.5	76.5-116		%REC	200413	1	12/13/2014 21:43	JE
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	12.7	0		wt%	R281926	1	12/15/2014 17:00	PF

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 16-Dec-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-32 (5)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/8/2014 12:45:00 PM
<b>Lab ID:</b> 1412954-011	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
1,1,2,2-Tetrachloroethane	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
1,1,2-Trichloroethane	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
1,1-Dichloroethane	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
1,1-Dichloroethene	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
1,2,4-Trichlorobenzene	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
1,2-Dibromo-3-chloropropane	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
1,2-Dibromoethane	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
1,2-Dichlorobenzene	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
1,2-Dichloroethane	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
1,2-Dichloropropane	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
1,3-Dichlorobenzene	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
1,4-Dichlorobenzene	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
2-Butanone	BRL	29		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
2-Hexanone	BRL	5.7		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
4-Methyl-2-pentanone	BRL	5.7		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
Acetone	BRL	57		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
Benzene	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
Bromodichloromethane	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
Bromoform	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
Bromomethane	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
Carbon disulfide	BRL	5.7		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
Carbon tetrachloride	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
Chlorobenzene	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
Chloroethane	BRL	5.7		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
Chloroform	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
Chloromethane	BRL	5.7		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
cis-1,2-Dichloroethene	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
cis-1,3-Dichloropropene	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
Cyclohexane	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
Dibromochloromethane	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
Dichlorodifluoromethane	BRL	5.7		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
Ethylbenzene	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
Freon-113	BRL	5.7		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
Isopropylbenzene	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
m,p-Xylene	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
Methyl acetate	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
Methyl tert-butyl ether	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
Methylcyclohexane	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
Methylene chloride	BRL	11		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
o-Xylene	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-32 (5)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/8/2014 12:45:00 PM
<b>Lab ID:</b> 1412954-011	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5035)</b>				
Styrene	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
Tetrachloroethene	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
Toluene	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
trans-1,2-Dichloroethene	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
trans-1,3-Dichloropropene	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
Trichloroethene	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
Trichlorofluoromethane	BRL	2.9		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
Vinyl chloride	BRL	5.7		ug/Kg-dry	200413	1	12/13/2014 22:08	JE
Surr: 4-Bromofluorobenzene	97.4	70-128		%REC	200413	1	12/13/2014 22:08	JE
Surr: Dibromofluoromethane	93.3	78.2-128		%REC	200413	1	12/13/2014 22:08	JE
Surr: Toluene-d8	98.4	76.5-116		%REC	200413	1	12/13/2014 22:08	JE
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	15.8	0		wt%	R281926	1	12/15/2014 17:00	PF

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-32
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/8/2014 12:50:00 PM
<b>Lab ID:</b> 1412954-012	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
1,1-Dichloroethane	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
1,1-Dichloroethene	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
1,2-Dibromoethane	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
1,2-Dichloroethane	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
1,2-Dichloropropane	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
2-Butanone	BRL	50		ug/L	200442	1	12/12/2014 23:58	GK
2-Hexanone	BRL	10		ug/L	200442	1	12/12/2014 23:58	GK
4-Methyl-2-pentanone	BRL	10		ug/L	200442	1	12/12/2014 23:58	GK
Acetone	BRL	50		ug/L	200442	1	12/12/2014 23:58	GK
Benzene	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
Bromodichloromethane	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
Bromoform	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
Bromomethane	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
Carbon disulfide	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
Carbon tetrachloride	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
Chlorobenzene	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
Chloroethane	BRL	10		ug/L	200442	1	12/12/2014 23:58	GK
Chloroform	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
Chloromethane	BRL	10		ug/L	200442	1	12/12/2014 23:58	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
Cyclohexane	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
Dibromochloromethane	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
Dichlorodifluoromethane	BRL	10		ug/L	200442	1	12/12/2014 23:58	GK
Ethylbenzene	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
Freon-113	BRL	10		ug/L	200442	1	12/12/2014 23:58	GK
Isopropylbenzene	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
m,p-Xylene	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
Methyl acetate	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
Methylcyclohexane	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
Methylene chloride	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
o-Xylene	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-32
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/8/2014 12:50:00 PM
<b>Lab ID:</b> 1412954-012	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
Tetrachloroethene	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
Toluene	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
Trichloroethene	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
Trichlorofluoromethane	BRL	5.0		ug/L	200442	1	12/12/2014 23:58	GK
Vinyl chloride	BRL	2.0		ug/L	200442	1	12/12/2014 23:58	GK
Surr: 4-Bromofluorobenzene	93.9	70.6-123		%REC	200442	1	12/12/2014 23:58	GK
Surr: Dibromofluoromethane	99.5	78.7-124		%REC	200442	1	12/12/2014 23:58	GK
Surr: Toluene-d8	99	81.3-120		%REC	200442	1	12/12/2014 23:58	GK

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-31 (2)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/8/2014 2:10:00 PM
<b>Lab ID:</b> 1412954-013	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
1,1,2,2-Tetrachloroethane	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
1,1,2-Trichloroethane	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
1,1-Dichloroethane	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
1,1-Dichloroethene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
1,2,4-Trichlorobenzene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
1,2-Dibromo-3-chloropropane	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
1,2-Dibromoethane	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
1,2-Dichlorobenzene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
1,2-Dichloroethane	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
1,2-Dichloropropane	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
1,3-Dichlorobenzene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
1,4-Dichlorobenzene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
2-Butanone	BRL	30		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
2-Hexanone	BRL	6.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
4-Methyl-2-pentanone	BRL	6.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
Acetone	BRL	60		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
Benzene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
Bromodichloromethane	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
Bromoform	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
Bromomethane	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
Carbon disulfide	BRL	6.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
Carbon tetrachloride	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
Chlorobenzene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
Chloroethane	BRL	6.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
Chloroform	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
Chloromethane	BRL	6.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
cis-1,2-Dichloroethene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
cis-1,3-Dichloropropene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
Cyclohexane	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
Dibromochloromethane	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
Dichlorodifluoromethane	BRL	6.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
Ethylbenzene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
Freon-113	BRL	6.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
Isopropylbenzene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
m,p-Xylene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
Methyl acetate	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
Methyl tert-butyl ether	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
Methylcyclohexane	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
Methylene chloride	BRL	12		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
o-Xylene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-31 (2)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/8/2014 2:10:00 PM
<b>Lab ID:</b> 1412954-013	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
Tetrachloroethene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
Toluene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
trans-1,2-Dichloroethene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
trans-1,3-Dichloropropene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
Trichloroethene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
Trichlorofluoromethane	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
Vinyl chloride	BRL	6.0		ug/Kg-dry	200413	1	12/13/2014 22:33	JE
Surr: 4-Bromofluorobenzene	100	70-128		%REC	200413	1	12/13/2014 22:33	JE
Surr: Dibromofluoromethane	93.9	78.2-128		%REC	200413	1	12/13/2014 22:33	JE
Surr: Toluene-d8	99.8	76.5-116		%REC	200413	1	12/13/2014 22:33	JE
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	5.91	0		wt%	R281926	1	12/15/2014 17:00	PF

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-31 (5)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/8/2014 2:15:00 PM
<b>Lab ID:</b> 1412954-014	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
1,1,2,2-Tetrachloroethane	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
1,1,2-Trichloroethane	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
1,1-Dichloroethane	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
1,1-Dichloroethene	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
1,2,4-Trichlorobenzene	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
1,2-Dibromo-3-chloropropane	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
1,2-Dibromoethane	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
1,2-Dichlorobenzene	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
1,2-Dichloroethane	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
1,2-Dichloropropane	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
1,3-Dichlorobenzene	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
1,4-Dichlorobenzene	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
2-Butanone	BRL	34		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
2-Hexanone	BRL	6.9		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
4-Methyl-2-pentanone	BRL	6.9		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
Acetone	BRL	69		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
Benzene	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
Bromodichloromethane	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
Bromoform	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
Bromomethane	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
Carbon disulfide	BRL	6.9		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
Carbon tetrachloride	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
Chlorobenzene	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
Chloroethane	BRL	6.9		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
Chloroform	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
Chloromethane	BRL	6.9		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
cis-1,2-Dichloroethene	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
cis-1,3-Dichloropropene	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
Cyclohexane	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
Dibromochloromethane	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
Dichlorodifluoromethane	BRL	6.9		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
Ethylbenzene	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
Freon-113	BRL	6.9		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
Isopropylbenzene	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
m,p-Xylene	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
Methyl acetate	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
Methyl tert-butyl ether	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
Methylcyclohexane	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
Methylene chloride	BRL	14		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
o-Xylene	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-31 (5)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/8/2014 2:15:00 PM
<b>Lab ID:</b> 1412954-014	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5035)</b>				
Styrene	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
Tetrachloroethene	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
Toluene	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
trans-1,2-Dichloroethene	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
trans-1,3-Dichloropropene	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
Trichloroethene	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
Trichlorofluoromethane	BRL	3.4		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
Vinyl chloride	BRL	6.9		ug/Kg-dry	200413	1	12/13/2014 22:57	JE
Surr: 4-Bromofluorobenzene	99.2	70-128		%REC	200413	1	12/13/2014 22:57	JE
Surr: Dibromofluoromethane	94.7	78.2-128		%REC	200413	1	12/13/2014 22:57	JE
Surr: Toluene-d8	103	76.5-116		%REC	200413	1	12/13/2014 22:57	JE
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	11.8	0		wt%	R281926	1	12/15/2014 17:00	PF

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 16-Dec-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-31 (10)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/8/2014 2:20:00 PM
<b>Lab ID:</b> 1412954-015	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
1,1,1-Trichloroethane	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
1,1,2,2-Tetrachloroethane	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
1,1,2-Trichloroethane	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
1,1-Dichloroethane	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
1,1-Dichloroethene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
1,2,4-Trichlorobenzene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
1,2-Dibromo-3-chloropropane	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
1,2-Dibromoethane	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
1,2-Dichlorobenzene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
1,2-Dichloroethane	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
1,2-Dichloropropane	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
1,3-Dichlorobenzene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
1,4-Dichlorobenzene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
2-Butanone	BRL	30		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
2-Hexanone	BRL	6.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
4-Methyl-2-pentanone	BRL	6.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
Acetone	BRL	60		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
Benzene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
Bromodichloromethane	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
Bromoform	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
Bromomethane	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
Carbon disulfide	BRL	6.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
Carbon tetrachloride	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
Chlorobenzene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
Chloroethane	BRL	6.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
Chloroform	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
Chloromethane	BRL	6.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
cis-1,2-Dichloroethene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
cis-1,3-Dichloropropene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
Cyclohexane	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
Dibromochloromethane	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
Dichlorodifluoromethane	BRL	6.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
Ethylbenzene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
Freon-113	BRL	6.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
Isopropylbenzene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
m,p-Xylene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
Methyl acetate	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
Methyl tert-butyl ether	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
Methylcyclohexane	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
Methylene chloride	BRL	12		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
o-Xylene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 16-Dec-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-31 (10)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/8/2014 2:20:00 PM
<b>Lab ID:</b> 1412954-015	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
Tetrachloroethene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
Toluene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
trans-1,2-Dichloroethene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
trans-1,3-Dichloropropene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
Trichloroethene	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
Trichlorofluoromethane	BRL	3.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
Vinyl chloride	BRL	6.0		ug/Kg-dry	200413	1	12/13/2014 23:22	JE
Surr: 4-Bromofluorobenzene	102	70-128		%REC	200413	1	12/13/2014 23:22	JE
Surr: Dibromofluoromethane	93.1	78.2-128		%REC	200413	1	12/13/2014 23:22	JE
Surr: Toluene-d8	99.3	76.5-116		%REC	200413	1	12/13/2014 23:22	JE
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	16.2	0		wt%	R281926	1	12/15/2014 17:00	PF

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 16-Dec-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-31
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/8/2014 2:25:00 PM
<b>Lab ID:</b> 1412954-016	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
1,1-Dichloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
1,1-Dichloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
1,2-Dibromoethane	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
1,2-Dichloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
1,2-Dichloropropane	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
2-Butanone	BRL	50		ug/L	200442	1	12/13/2014 00:29	GK
2-Hexanone	BRL	10		ug/L	200442	1	12/13/2014 00:29	GK
4-Methyl-2-pentanone	BRL	10		ug/L	200442	1	12/13/2014 00:29	GK
Acetone	BRL	50		ug/L	200442	1	12/13/2014 00:29	GK
Benzene	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
Bromodichloromethane	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
Bromoform	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
Bromomethane	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
Carbon disulfide	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
Carbon tetrachloride	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
Chlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
Chloroethane	BRL	10		ug/L	200442	1	12/13/2014 00:29	GK
Chloroform	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
Chloromethane	BRL	10		ug/L	200442	1	12/13/2014 00:29	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
Cyclohexane	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
Dibromochloromethane	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
Dichlorodifluoromethane	BRL	10		ug/L	200442	1	12/13/2014 00:29	GK
Ethylbenzene	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
Freon-113	BRL	10		ug/L	200442	1	12/13/2014 00:29	GK
Isopropylbenzene	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
m,p-Xylene	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
Methyl acetate	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
Methylcyclohexane	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
Methylene chloride	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
o-Xylene	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-31
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/8/2014 2:25:00 PM
<b>Lab ID:</b> 1412954-016	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
Tetrachloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
Toluene	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
Trichloroethene	260	50		ug/L	200442	10	12/15/2014 11:06	GK
Trichlorofluoromethane	BRL	5.0		ug/L	200442	1	12/13/2014 00:29	GK
Vinyl chloride	BRL	2.0		ug/L	200442	1	12/13/2014 00:29	GK
Surr: 4-Bromofluorobenzene	95.6	70.6-123		%REC	200442	1	12/13/2014 00:29	GK
Surr: 4-Bromofluorobenzene	96.1	70.6-123		%REC	200442	10	12/15/2014 11:06	GK
Surr: Dibromofluoromethane	96.9	78.7-124		%REC	200442	10	12/15/2014 11:06	GK
Surr: Dibromofluoromethane	100	78.7-124		%REC	200442	1	12/13/2014 00:29	GK
Surr: Toluene-d8	99	81.3-120		%REC	200442	1	12/13/2014 00:29	GK
Surr: Toluene-d8	99	81.3-120		%REC	200442	10	12/15/2014 11:06	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> DUP-2
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/9/2014 8:00:00 AM
<b>Lab ID:</b> 1412954-017	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
1,1-Dichloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
1,1-Dichloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
1,2-Dibromoethane	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
1,2-Dichloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
1,2-Dichloropropane	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
2-Butanone	BRL	50		ug/L	200442	1	12/13/2014 15:05	NP
2-Hexanone	BRL	10		ug/L	200442	1	12/13/2014 15:05	NP
4-Methyl-2-pentanone	BRL	10		ug/L	200442	1	12/13/2014 15:05	NP
Acetone	BRL	50		ug/L	200442	1	12/13/2014 15:05	NP
Benzene	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
Bromodichloromethane	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
Bromoform	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
Bromomethane	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
Carbon disulfide	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
Carbon tetrachloride	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
Chlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
Chloroethane	BRL	10		ug/L	200442	1	12/13/2014 15:05	NP
Chloroform	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
Chloromethane	BRL	10		ug/L	200442	1	12/13/2014 15:05	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
Cyclohexane	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
Dibromochloromethane	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
Dichlorodifluoromethane	BRL	10		ug/L	200442	1	12/13/2014 15:05	NP
Ethylbenzene	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
Freon-113	BRL	10		ug/L	200442	1	12/13/2014 15:05	NP
Isopropylbenzene	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
m,p-Xylene	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
Methyl acetate	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
Methylcyclohexane	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
Methylene chloride	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
o-Xylene	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> DUP-2
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/9/2014 8:00:00 AM
<b>Lab ID:</b> 1412954-017	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
Tetrachloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
Toluene	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
Trichloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
Trichlorofluoromethane	BRL	5.0		ug/L	200442	1	12/13/2014 15:05	NP
Vinyl chloride	BRL	2.0		ug/L	200442	1	12/13/2014 15:05	NP
Surr: 4-Bromofluorobenzene	85	70.6-123		%REC	200442	1	12/13/2014 15:05	NP
Surr: Dibromofluoromethane	110	78.7-124		%REC	200442	1	12/13/2014 15:05	NP
Surr: Toluene-d8	94.6	81.3-120		%REC	200442	1	12/13/2014 15:05	NP

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> DUP-3
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/9/2014 8:30:00 AM
<b>Lab ID:</b> 1412954-018	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
1,1,2,2-Tetrachloroethane	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
1,1,2-Trichloroethane	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
1,1-Dichloroethane	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
1,1-Dichloroethene	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
1,2,4-Trichlorobenzene	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
1,2-Dibromo-3-chloropropane	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
1,2-Dibromoethane	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
1,2-Dichlorobenzene	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
1,2-Dichloroethane	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
1,2-Dichloropropane	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
1,3-Dichlorobenzene	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
1,4-Dichlorobenzene	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
2-Butanone	BRL	31		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
2-Hexanone	BRL	6.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
4-Methyl-2-pentanone	BRL	6.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
Acetone	BRL	61		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
Benzene	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
Bromodichloromethane	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
Bromoform	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
Bromomethane	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
Carbon disulfide	BRL	6.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
Carbon tetrachloride	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
Chlorobenzene	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
Chloroethane	BRL	6.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
Chloroform	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
Chloromethane	BRL	6.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
cis-1,2-Dichloroethene	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
cis-1,3-Dichloropropene	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
Cyclohexane	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
Dibromochloromethane	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
Dichlorodifluoromethane	BRL	6.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
Ethylbenzene	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
Freon-113	BRL	6.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
Isopropylbenzene	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
m,p-Xylene	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
Methyl acetate	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
Methyl tert-butyl ether	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
Methylcyclohexane	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
Methylene chloride	BRL	12		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
o-Xylene	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> DUP-3
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/9/2014 8:30:00 AM
<b>Lab ID:</b> 1412954-018	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
Tetrachloroethene	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
Toluene	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
trans-1,2-Dichloroethene	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
trans-1,3-Dichloropropene	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
Trichloroethene	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
Trichlorofluoromethane	BRL	3.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
Vinyl chloride	BRL	6.1		ug/Kg-dry	200413	1	12/13/2014 23:47	JE
Surr: 4-Bromofluorobenzene	101	70-128		%REC	200413	1	12/13/2014 23:47	JE
Surr: Dibromofluoromethane	94.3	78.2-128		%REC	200413	1	12/13/2014 23:47	JE
Surr: Toluene-d8	101	76.5-116		%REC	200413	1	12/13/2014 23:47	JE
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	12.1	0		wt%	R281926	1	12/15/2014 17:00	PF

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 16-Dec-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-25
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/9/2014 8:50:00 AM
<b>Lab ID:</b> 1412954-019	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
1,1-Dichloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
1,1-Dichloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
1,2-Dibromoethane	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
1,2-Dichloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
1,2-Dichloropropane	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
2-Butanone	BRL	50		ug/L	200442	1	12/13/2014 15:29	NP
2-Hexanone	BRL	10		ug/L	200442	1	12/13/2014 15:29	NP
4-Methyl-2-pentanone	BRL	10		ug/L	200442	1	12/13/2014 15:29	NP
Acetone	BRL	50		ug/L	200442	1	12/13/2014 15:29	NP
Benzene	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
Bromodichloromethane	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
Bromoform	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
Bromomethane	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
Carbon disulfide	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
Carbon tetrachloride	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
Chlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
Chloroethane	BRL	10		ug/L	200442	1	12/13/2014 15:29	NP
Chloroform	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
Chloromethane	BRL	10		ug/L	200442	1	12/13/2014 15:29	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
Cyclohexane	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
Dibromochloromethane	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
Dichlorodifluoromethane	BRL	10		ug/L	200442	1	12/13/2014 15:29	NP
Ethylbenzene	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
Freon-113	BRL	10		ug/L	200442	1	12/13/2014 15:29	NP
Isopropylbenzene	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
m,p-Xylene	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
Methyl acetate	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
Methylcyclohexane	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
Methylene chloride	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
o-Xylene	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-25
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/9/2014 8:50:00 AM
<b>Lab ID:</b> 1412954-019	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
Tetrachloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
Toluene	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
Trichloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
Trichlorofluoromethane	BRL	5.0		ug/L	200442	1	12/13/2014 15:29	NP
Vinyl chloride	BRL	2.0		ug/L	200442	1	12/13/2014 15:29	NP
Surr: 4-Bromofluorobenzene	84.7	70.6-123		%REC	200442	1	12/13/2014 15:29	NP
Surr: Dibromofluoromethane	111	78.7-124		%REC	200442	1	12/13/2014 15:29	NP
Surr: Toluene-d8	95.6	81.3-120		%REC	200442	1	12/13/2014 15:29	NP

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 16-Dec-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-26
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/9/2014 9:35:00 AM
<b>Lab ID:</b> 1412954-020	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
1,1-Dichloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
1,1-Dichloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
1,2-Dibromoethane	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
1,2-Dichloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
1,2-Dichloropropane	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
2-Butanone	BRL	50		ug/L	200442	1	12/13/2014 15:54	NP
2-Hexanone	BRL	10		ug/L	200442	1	12/13/2014 15:54	NP
4-Methyl-2-pentanone	BRL	10		ug/L	200442	1	12/13/2014 15:54	NP
Acetone	BRL	50		ug/L	200442	1	12/13/2014 15:54	NP
Benzene	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
Bromodichloromethane	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
Bromoform	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
Bromomethane	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
Carbon disulfide	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
Carbon tetrachloride	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
Chlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
Chloroethane	BRL	10		ug/L	200442	1	12/13/2014 15:54	NP
Chloroform	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
Chloromethane	BRL	10		ug/L	200442	1	12/13/2014 15:54	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
Cyclohexane	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
Dibromochloromethane	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
Dichlorodifluoromethane	BRL	10		ug/L	200442	1	12/13/2014 15:54	NP
Ethylbenzene	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
Freon-113	BRL	10		ug/L	200442	1	12/13/2014 15:54	NP
Isopropylbenzene	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
m,p-Xylene	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
Methyl acetate	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
Methylcyclohexane	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
Methylene chloride	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
o-Xylene	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-26
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/9/2014 9:35:00 AM
<b>Lab ID:</b> 1412954-020	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
Tetrachloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
Toluene	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
Trichloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
Trichlorofluoromethane	BRL	5.0		ug/L	200442	1	12/13/2014 15:54	NP
Vinyl chloride	BRL	2.0		ug/L	200442	1	12/13/2014 15:54	NP
Surr: 4-Bromofluorobenzene	87.8	70.6-123		%REC	200442	1	12/13/2014 15:54	NP
Surr: Dibromofluoromethane	112	78.7-124		%REC	200442	1	12/13/2014 15:54	NP
Surr: Toluene-d8	96.4	81.3-120		%REC	200442	1	12/13/2014 15:54	NP

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 16-Dec-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-27
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/9/2014 10:10:00 AM
<b>Lab ID:</b> 1412954-021	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
1,1-Dichloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
1,1-Dichloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
1,2-Dibromoethane	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
1,2-Dichloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
1,2-Dichloropropane	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
2-Butanone	BRL	50		ug/L	200442	1	12/13/2014 16:18	NP
2-Hexanone	BRL	10		ug/L	200442	1	12/13/2014 16:18	NP
4-Methyl-2-pentanone	BRL	10		ug/L	200442	1	12/13/2014 16:18	NP
Acetone	BRL	50		ug/L	200442	1	12/13/2014 16:18	NP
Benzene	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
Bromodichloromethane	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
Bromoform	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
Bromomethane	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
Carbon disulfide	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
Carbon tetrachloride	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
Chlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
Chloroethane	BRL	10		ug/L	200442	1	12/13/2014 16:18	NP
Chloroform	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
Chloromethane	BRL	10		ug/L	200442	1	12/13/2014 16:18	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
Cyclohexane	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
Dibromochloromethane	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
Dichlorodifluoromethane	BRL	10		ug/L	200442	1	12/13/2014 16:18	NP
Ethylbenzene	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
Freon-113	BRL	10		ug/L	200442	1	12/13/2014 16:18	NP
Isopropylbenzene	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
m,p-Xylene	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
Methyl acetate	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
Methylcyclohexane	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
Methylene chloride	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
o-Xylene	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-27
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/9/2014 10:10:00 AM
<b>Lab ID:</b> 1412954-021	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
Tetrachloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
Toluene	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
Trichloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
Trichlorofluoromethane	BRL	5.0		ug/L	200442	1	12/13/2014 16:18	NP
Vinyl chloride	BRL	2.0		ug/L	200442	1	12/13/2014 16:18	NP
Surr: 4-Bromofluorobenzene	86.1	70.6-123		%REC	200442	1	12/13/2014 16:18	NP
Surr: Dibromofluoromethane	110	78.7-124		%REC	200442	1	12/13/2014 16:18	NP
Surr: Toluene-d8	93.5	81.3-120		%REC	200442	1	12/13/2014 16:18	NP

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 16-Dec-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-30 (2)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/9/2014 11:05:00 AM
<b>Lab ID:</b> 1412954-022	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
1,1,2,2-Tetrachloroethane	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
1,1,2-Trichloroethane	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
1,1-Dichloroethane	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
1,1-Dichloroethene	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
1,2,4-Trichlorobenzene	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
1,2-Dibromo-3-chloropropane	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
1,2-Dibromoethane	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
1,2-Dichlorobenzene	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
1,2-Dichloroethane	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
1,2-Dichloropropane	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
1,3-Dichlorobenzene	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
1,4-Dichlorobenzene	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
2-Butanone	BRL	36		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
2-Hexanone	BRL	7.2		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
4-Methyl-2-pentanone	BRL	7.2		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
Acetone	BRL	72		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
Benzene	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
Bromodichloromethane	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
Bromoform	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
Bromomethane	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
Carbon disulfide	BRL	7.2		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
Carbon tetrachloride	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
Chlorobenzene	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
Chloroethane	BRL	7.2		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
Chloroform	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
Chloromethane	BRL	7.2		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
cis-1,2-Dichloroethene	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
cis-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
Cyclohexane	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
Dibromochloromethane	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
Dichlorodifluoromethane	BRL	7.2		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
Ethylbenzene	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
Freon-113	BRL	7.2		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
Isopropylbenzene	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
m,p-Xylene	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
Methyl acetate	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
Methyl tert-butyl ether	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
Methylcyclohexane	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
Methylene chloride	BRL	14		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
o-Xylene	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-30 (2)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/9/2014 11:05:00 AM
<b>Lab ID:</b> 1412954-022	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
Tetrachloroethene	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
Toluene	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
trans-1,2-Dichloroethene	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
trans-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
Trichloroethene	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
Trichlorofluoromethane	BRL	3.6		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
Vinyl chloride	BRL	7.2		ug/Kg-dry	200413	1	12/14/2014 00:12	JE
Surr: 4-Bromofluorobenzene	95.9	70-128		%REC	200413	1	12/14/2014 00:12	JE
Surr: Dibromofluoromethane	91.3	78.2-128		%REC	200413	1	12/14/2014 00:12	JE
Surr: Toluene-d8	100	76.5-116		%REC	200413	1	12/14/2014 00:12	JE
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	7.02	0		wt%	R281926	1	12/15/2014 17:00	PF

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 16-Dec-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-30 (5)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/9/2014 11:10:00 AM
<b>Lab ID:</b> 1412954-023	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
1,1,2,2-Tetrachloroethane	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
1,1,2-Trichloroethane	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
1,1-Dichloroethane	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
1,1-Dichloroethene	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
1,2,4-Trichlorobenzene	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
1,2-Dibromo-3-chloropropane	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
1,2-Dibromoethane	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
1,2-Dichlorobenzene	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
1,2-Dichloroethane	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
1,2-Dichloropropane	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
1,3-Dichlorobenzene	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
1,4-Dichlorobenzene	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
2-Butanone	BRL	26		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
2-Hexanone	BRL	5.3		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
4-Methyl-2-pentanone	BRL	5.3		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
Acetone	BRL	53		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
Benzene	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
Bromodichloromethane	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
Bromoform	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
Bromomethane	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
Carbon disulfide	BRL	5.3		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
Carbon tetrachloride	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
Chlorobenzene	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
Chloroethane	BRL	5.3		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
Chloroform	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
Chloromethane	BRL	5.3		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
cis-1,2-Dichloroethene	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
cis-1,3-Dichloropropene	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
Cyclohexane	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
Dibromochloromethane	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
Dichlorodifluoromethane	BRL	5.3		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
Ethylbenzene	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
Freon-113	BRL	5.3		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
Isopropylbenzene	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
m,p-Xylene	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
Methyl acetate	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
Methyl tert-butyl ether	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
Methylcyclohexane	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
Methylene chloride	BRL	11		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
o-Xylene	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 16-Dec-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-30 (5)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/9/2014 11:10:00 AM
<b>Lab ID:</b> 1412954-023	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
Tetrachloroethene	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
Toluene	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
trans-1,2-Dichloroethene	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
trans-1,3-Dichloropropene	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
Trichloroethene	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
Trichlorofluoromethane	BRL	2.6		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
Vinyl chloride	BRL	5.3		ug/Kg-dry	200413	1	12/14/2014 00:36	JE
Surr: 4-Bromofluorobenzene	99.7	70-128		%REC	200413	1	12/14/2014 00:36	JE
Surr: Dibromofluoromethane	94.1	78.2-128		%REC	200413	1	12/14/2014 00:36	JE
Surr: Toluene-d8	100	76.5-116		%REC	200413	1	12/14/2014 00:36	JE
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	10.3	0		wt%	R281926	1	12/15/2014 17:00	PF

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-30
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/9/2014 11:20:00 AM
<b>Lab ID:</b> 1412954-024	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
1,1-Dichloroethane	17	5.0		ug/L	200442	1	12/13/2014 16:43	NP
1,1-Dichloroethene	9.5	5.0		ug/L	200442	1	12/13/2014 16:43	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
1,2-Dibromoethane	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
1,2-Dichloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
1,2-Dichloropropane	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
2-Butanone	BRL	50		ug/L	200442	1	12/13/2014 16:43	NP
2-Hexanone	BRL	10		ug/L	200442	1	12/13/2014 16:43	NP
4-Methyl-2-pentanone	BRL	10		ug/L	200442	1	12/13/2014 16:43	NP
Acetone	BRL	50		ug/L	200442	1	12/13/2014 16:43	NP
Benzene	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
Bromodichloromethane	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
Bromoform	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
Bromomethane	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
Carbon disulfide	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
Carbon tetrachloride	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
Chlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
Chloroethane	BRL	10		ug/L	200442	1	12/13/2014 16:43	NP
Chloroform	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
Chloromethane	BRL	10		ug/L	200442	1	12/13/2014 16:43	NP
cis-1,2-Dichloroethene	17	5.0		ug/L	200442	1	12/13/2014 16:43	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
Cyclohexane	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
Dibromochloromethane	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
Dichlorodifluoromethane	BRL	10		ug/L	200442	1	12/13/2014 16:43	NP
Ethylbenzene	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
Freon-113	BRL	10		ug/L	200442	1	12/13/2014 16:43	NP
Isopropylbenzene	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
m,p-Xylene	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
Methyl acetate	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
Methylcyclohexane	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
Methylene chloride	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
o-Xylene	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-30
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/9/2014 11:20:00 AM
<b>Lab ID:</b> 1412954-024	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
Tetrachloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
Toluene	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
Trichloroethene	3500	250		ug/L	200442	50	12/13/2014 19:22	NP
Trichlorofluoromethane	BRL	5.0		ug/L	200442	1	12/13/2014 16:43	NP
Vinyl chloride	BRL	2.0		ug/L	200442	1	12/13/2014 16:43	NP
Surr: 4-Bromofluorobenzene	87.6	70.6-123		%REC	200442	50	12/13/2014 19:22	NP
Surr: 4-Bromofluorobenzene	86.6	70.6-123		%REC	200442	1	12/13/2014 16:43	NP
Surr: Dibromofluoromethane	107	78.7-124		%REC	200442	50	12/13/2014 19:22	NP
Surr: Dibromofluoromethane	112	78.7-124		%REC	200442	1	12/13/2014 16:43	NP
Surr: Toluene-d8	93	81.3-120		%REC	200442	50	12/13/2014 19:22	NP
Surr: Toluene-d8	96.8	81.3-120		%REC	200442	1	12/13/2014 16:43	NP

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-29 (2)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/9/2014 11:35:00 AM
<b>Lab ID:</b> 1412954-025	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
1,1,2,2-Tetrachloroethane	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
1,1,2-Trichloroethane	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
1,1-Dichloroethane	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
1,1-Dichloroethene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
1,2,4-Trichlorobenzene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
1,2-Dibromo-3-chloropropane	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
1,2-Dibromoethane	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
1,2-Dichlorobenzene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
1,2-Dichloroethane	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
1,2-Dichloropropane	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
1,3-Dichlorobenzene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
1,4-Dichlorobenzene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
2-Butanone	BRL	30		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
2-Hexanone	BRL	5.9		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
4-Methyl-2-pentanone	BRL	5.9		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
Acetone	BRL	59		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
Benzene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
Bromodichloromethane	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
Bromoform	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
Bromomethane	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
Carbon disulfide	BRL	5.9		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
Carbon tetrachloride	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
Chlorobenzene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
Chloroethane	BRL	5.9		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
Chloroform	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
Chloromethane	BRL	5.9		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
cis-1,2-Dichloroethene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
cis-1,3-Dichloropropene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
Cyclohexane	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
Dibromochloromethane	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
Dichlorodifluoromethane	BRL	5.9		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
Ethylbenzene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
Freon-113	BRL	5.9		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
Isopropylbenzene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
m,p-Xylene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
Methyl acetate	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
Methyl tert-butyl ether	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
Methylcyclohexane	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
Methylene chloride	BRL	12		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
o-Xylene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit



<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-29 (2)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/9/2014 11:35:00 AM
<b>Lab ID:</b> 1412954-025	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
Tetrachloroethene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
Toluene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
trans-1,2-Dichloroethene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
trans-1,3-Dichloropropene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
Trichloroethene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
Trichlorofluoromethane	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
Vinyl chloride	BRL	5.9		ug/Kg-dry	200413	1	12/14/2014 01:01	JE
Surr: 4-Bromofluorobenzene	97.9	70-128		%REC	200413	1	12/14/2014 01:01	JE
Surr: Dibromofluoromethane	93.6	78.2-128		%REC	200413	1	12/14/2014 01:01	JE
Surr: Toluene-d8	100	76.5-116		%REC	200413	1	12/14/2014 01:01	JE
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	7.26	0		wt%	R281926	1	12/15/2014 17:00	PF

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 16-Dec-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-29 (5)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/9/2014 11:40:00 AM
<b>Lab ID:</b> 1412954-026	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
1,1,2,2-Tetrachloroethane	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
1,1,2-Trichloroethane	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
1,1-Dichloroethane	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
1,1-Dichloroethene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
1,2,4-Trichlorobenzene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
1,2-Dibromo-3-chloropropane	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
1,2-Dibromoethane	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
1,2-Dichlorobenzene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
1,2-Dichloroethane	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
1,2-Dichloropropane	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
1,3-Dichlorobenzene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
1,4-Dichlorobenzene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
2-Butanone	BRL	30		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
2-Hexanone	BRL	5.9		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
4-Methyl-2-pentanone	BRL	5.9		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
Acetone	BRL	59		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
Benzene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
Bromodichloromethane	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
Bromoform	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
Bromomethane	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
Carbon disulfide	BRL	5.9		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
Carbon tetrachloride	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
Chlorobenzene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
Chloroethane	BRL	5.9		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
Chloroform	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
Chloromethane	BRL	5.9		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
cis-1,2-Dichloroethene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
cis-1,3-Dichloropropene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
Cyclohexane	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
Dibromochloromethane	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
Dichlorodifluoromethane	BRL	5.9		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
Ethylbenzene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
Freon-113	BRL	5.9		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
Isopropylbenzene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
m,p-Xylene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
Methyl acetate	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
Methyl tert-butyl ether	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
Methylcyclohexane	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
Methylene chloride	BRL	12		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
o-Xylene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-29 (5)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/9/2014 11:40:00 AM
<b>Lab ID:</b> 1412954-026	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
Tetrachloroethene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
Toluene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
trans-1,2-Dichloroethene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
trans-1,3-Dichloropropene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
Trichloroethene	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
Trichlorofluoromethane	BRL	3.0		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
Vinyl chloride	BRL	5.9		ug/Kg-dry	200413	1	12/14/2014 01:26	JE
Surr: 4-Bromofluorobenzene	94.1	70-128		%REC	200413	1	12/14/2014 01:26	JE
Surr: Dibromofluoromethane	90.8	78.2-128		%REC	200413	1	12/14/2014 01:26	JE
Surr: Toluene-d8	98	76.5-116		%REC	200413	1	12/14/2014 01:26	JE
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	11.7	0		wt%	R281926	1	12/15/2014 17:00	PF

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-29
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/9/2014 11:45:00 AM
<b>Lab ID:</b> 1412954-027	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
1,1-Dichloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
1,1-Dichloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
1,2-Dibromoethane	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
1,2-Dichloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
1,2-Dichloropropane	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
2-Butanone	BRL	50		ug/L	200442	1	12/13/2014 19:47	NP
2-Hexanone	BRL	10		ug/L	200442	1	12/13/2014 19:47	NP
4-Methyl-2-pentanone	BRL	10		ug/L	200442	1	12/13/2014 19:47	NP
Acetone	BRL	50		ug/L	200442	1	12/13/2014 19:47	NP
Benzene	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
Bromodichloromethane	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
Bromoform	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
Bromomethane	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
Carbon disulfide	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
Carbon tetrachloride	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
Chlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
Chloroethane	BRL	10		ug/L	200442	1	12/13/2014 19:47	NP
Chloroform	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
Chloromethane	BRL	10		ug/L	200442	1	12/13/2014 19:47	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
Cyclohexane	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
Dibromochloromethane	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
Dichlorodifluoromethane	BRL	10		ug/L	200442	1	12/13/2014 19:47	NP
Ethylbenzene	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
Freon-113	BRL	10		ug/L	200442	1	12/13/2014 19:47	NP
Isopropylbenzene	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
m,p-Xylene	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
Methyl acetate	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
Methylcyclohexane	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
Methylene chloride	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
o-Xylene	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-29
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/9/2014 11:45:00 AM
<b>Lab ID:</b> 1412954-027	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
Tetrachloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
Toluene	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
Trichloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
Trichlorofluoromethane	BRL	5.0		ug/L	200442	1	12/13/2014 19:47	NP
Vinyl chloride	BRL	2.0		ug/L	200442	1	12/13/2014 19:47	NP
Surr: 4-Bromofluorobenzene	87.4	70.6-123		%REC	200442	1	12/13/2014 19:47	NP
Surr: Dibromofluoromethane	111	78.7-124		%REC	200442	1	12/13/2014 19:47	NP
Surr: Toluene-d8	95	81.3-120		%REC	200442	1	12/13/2014 19:47	NP

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 16-Dec-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-28 (2)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/9/2014 12:00:00 PM
<b>Lab ID:</b> 1412954-028	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
1,1,2,2-Tetrachloroethane	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
1,1,2-Trichloroethane	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
1,1-Dichloroethane	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
1,1-Dichloroethene	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
1,2,4-Trichlorobenzene	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
1,2-Dibromo-3-chloropropane	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
1,2-Dibromoethane	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
1,2-Dichlorobenzene	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
1,2-Dichloroethane	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
1,2-Dichloropropane	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
1,3-Dichlorobenzene	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
1,4-Dichlorobenzene	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
2-Butanone	BRL	28		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
2-Hexanone	BRL	5.7		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
4-Methyl-2-pentanone	BRL	5.7		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
Acetone	BRL	57		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
Benzene	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
Bromodichloromethane	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
Bromoform	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
Bromomethane	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
Carbon disulfide	BRL	5.7		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
Carbon tetrachloride	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
Chlorobenzene	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
Chloroethane	BRL	5.7		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
Chloroform	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
Chloromethane	BRL	5.7		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
cis-1,2-Dichloroethene	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
cis-1,3-Dichloropropene	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
Cyclohexane	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
Dibromochloromethane	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
Dichlorodifluoromethane	BRL	5.7		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
Ethylbenzene	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
Freon-113	BRL	5.7		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
Isopropylbenzene	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
m,p-Xylene	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
Methyl acetate	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
Methyl tert-butyl ether	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
Methylcyclohexane	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
Methylene chloride	BRL	11		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
o-Xylene	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 16-Dec-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-28 (2)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/9/2014 12:00:00 PM
<b>Lab ID:</b> 1412954-028	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
Tetrachloroethene	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
Toluene	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
trans-1,2-Dichloroethene	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
trans-1,3-Dichloropropene	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
Trichloroethene	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
Trichlorofluoromethane	BRL	2.8		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
Vinyl chloride	BRL	5.7		ug/Kg-dry	200413	1	12/14/2014 01:50	JE
Surr: 4-Bromofluorobenzene	95.3	70-128		%REC	200413	1	12/14/2014 01:50	JE
Surr: Dibromofluoromethane	92.8	78.2-128		%REC	200413	1	12/14/2014 01:50	JE
Surr: Toluene-d8	99.8	76.5-116		%REC	200413	1	12/14/2014 01:50	JE
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	8.01	0		wt%	R281926	1	12/15/2014 17:00	PF

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-28 (5)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/9/2014 12:05:00 PM
<b>Lab ID:</b> 1412954-029	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
1,1,1-Trichloroethane	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
1,1,2,2-Tetrachloroethane	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
1,1,2-Trichloroethane	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
1,1-Dichloroethane	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
1,1-Dichloroethene	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
1,2,4-Trichlorobenzene	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
1,2-Dibromo-3-chloropropane	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
1,2-Dibromoethane	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
1,2-Dichlorobenzene	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
1,2-Dichloroethane	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
1,2-Dichloropropane	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
1,3-Dichlorobenzene	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
1,4-Dichlorobenzene	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
2-Butanone	BRL	24		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
2-Hexanone	BRL	4.8		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
4-Methyl-2-pentanone	BRL	4.8		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
Acetone	BRL	48		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
Benzene	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
Bromodichloromethane	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
Bromoform	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
Bromomethane	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
Carbon disulfide	BRL	4.8		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
Carbon tetrachloride	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
Chlorobenzene	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
Chloroethane	BRL	4.8		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
Chloroform	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
Chloromethane	BRL	4.8		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
cis-1,2-Dichloroethene	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
cis-1,3-Dichloropropene	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
Cyclohexane	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
Dibromochloromethane	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
Dichlorodifluoromethane	BRL	4.8		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
Ethylbenzene	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
Freon-113	BRL	4.8		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
Isopropylbenzene	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
m,p-Xylene	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
Methyl acetate	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
Methyl tert-butyl ether	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
Methylcyclohexane	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
Methylene chloride	BRL	9.6		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
o-Xylene	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-28 (5)
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/9/2014 12:05:00 PM
<b>Lab ID:</b> 1412954-029	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5035)</b>				
Styrene	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
Tetrachloroethene	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
Toluene	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
trans-1,2-Dichloroethene	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
trans-1,3-Dichloropropene	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
Trichloroethene	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
Trichlorofluoromethane	BRL	2.4		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
Vinyl chloride	BRL	4.8		ug/Kg-dry	200413	1	12/14/2014 02:15	JE
Surr: 4-Bromofluorobenzene	98	70-128		%REC	200413	1	12/14/2014 02:15	JE
Surr: Dibromofluoromethane	90.9	78.2-128		%REC	200413	1	12/14/2014 02:15	JE
Surr: Toluene-d8	100	76.5-116		%REC	200413	1	12/14/2014 02:15	JE
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	11.1	0		wt%	R281926	1	12/15/2014 17:00	PF

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-28
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/9/2014 12:10:00 PM
<b>Lab ID:</b> 1412954-030	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
1,1-Dichloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
1,1-Dichloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
1,2-Dibromoethane	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
1,2-Dichloroethane	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
1,2-Dichloropropane	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
2-Butanone	BRL	50		ug/L	200442	1	12/13/2014 17:33	NP
2-Hexanone	BRL	10		ug/L	200442	1	12/13/2014 17:33	NP
4-Methyl-2-pentanone	BRL	10		ug/L	200442	1	12/13/2014 17:33	NP
Acetone	BRL	50		ug/L	200442	1	12/13/2014 17:33	NP
Benzene	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
Bromodichloromethane	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
Bromoform	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
Bromomethane	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
Carbon disulfide	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
Carbon tetrachloride	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
Chlorobenzene	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
Chloroethane	BRL	10		ug/L	200442	1	12/13/2014 17:33	NP
Chloroform	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
Chloromethane	BRL	10		ug/L	200442	1	12/13/2014 17:33	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
Cyclohexane	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
Dibromochloromethane	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
Dichlorodifluoromethane	BRL	10		ug/L	200442	1	12/13/2014 17:33	NP
Ethylbenzene	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
Freon-113	BRL	10		ug/L	200442	1	12/13/2014 17:33	NP
Isopropylbenzene	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
m,p-Xylene	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
Methyl acetate	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
Methylcyclohexane	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
Methylene chloride	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
o-Xylene	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-28
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/9/2014 12:10:00 PM
<b>Lab ID:</b> 1412954-030	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
Tetrachloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
Toluene	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
Trichloroethene	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
Trichlorofluoromethane	BRL	5.0		ug/L	200442	1	12/13/2014 17:33	NP
Vinyl chloride	BRL	2.0		ug/L	200442	1	12/13/2014 17:33	NP
Surr: 4-Bromofluorobenzene	85.3	70.6-123		%REC	200442	1	12/13/2014 17:33	NP
Surr: Dibromofluoromethane	112	78.7-124		%REC	200442	1	12/13/2014 17:33	NP
Surr: Toluene-d8	96.5	81.3-120		%REC	200442	1	12/13/2014 17:33	NP

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> TRIP BLANK
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/9/2014
<b>Lab ID:</b> 1412954-031	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
1,1-Dichloroethane	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
1,1-Dichloroethene	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
1,2-Dibromoethane	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
1,2-Dichloroethane	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
1,2-Dichloropropane	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
2-Butanone	BRL	50		ug/L	200442	1	12/12/2014 18:22	GK
2-Hexanone	BRL	10		ug/L	200442	1	12/12/2014 18:22	GK
4-Methyl-2-pentanone	BRL	10		ug/L	200442	1	12/12/2014 18:22	GK
Acetone	BRL	50		ug/L	200442	1	12/12/2014 18:22	GK
Benzene	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
Bromodichloromethane	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
Bromoform	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
Bromomethane	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
Carbon disulfide	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
Carbon tetrachloride	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
Chlorobenzene	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
Chloroethane	BRL	10		ug/L	200442	1	12/12/2014 18:22	GK
Chloroform	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
Chloromethane	BRL	10		ug/L	200442	1	12/12/2014 18:22	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
Cyclohexane	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
Dibromochloromethane	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
Dichlorodifluoromethane	BRL	10		ug/L	200442	1	12/12/2014 18:22	GK
Ethylbenzene	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
Freon-113	BRL	10		ug/L	200442	1	12/12/2014 18:22	GK
Isopropylbenzene	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
m,p-Xylene	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
Methyl acetate	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
Methylcyclohexane	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
Methylene chloride	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
o-Xylene	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> TRIP BLANK
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 12/9/2014
<b>Lab ID:</b> 1412954-031	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
Tetrachloroethene	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
Toluene	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
Trichloroethene	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
Trichlorofluoromethane	BRL	5.0		ug/L	200442	1	12/12/2014 18:22	GK
Vinyl chloride	BRL	2.0		ug/L	200442	1	12/12/2014 18:22	GK
Surr: 4-Bromofluorobenzene	96.2	70.6-123		%REC	200442	1	12/12/2014 18:22	GK
Surr: Dibromofluoromethane	99.6	78.7-124		%REC	200442	1	12/12/2014 18:22	GK
Surr: Toluene-d8	97.7	81.3-120		%REC	200442	1	12/12/2014 18:22	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client CDM Smith

Work Order Number 1412954

Checklist completed by Jasars 12/10/14  
Signature Date

Carrier name: FedEx  UPS  Courier  Client  US Mail  Other

Shipping container/cooler in good condition? Yes  No  Not Present

Custody seals intact on shipping container/cooler? Yes  No  Not Present

Custody seals intact on sample bottles? Yes  No  Not Present

Container/Temp Blank temperature in compliance? (0°≤6°C)\* Yes  No

Cooler #1 3.2 Cooler #2 \_\_\_\_\_ Cooler #3 \_\_\_\_\_ Cooler #4 \_\_\_\_\_ Cooler#5 \_\_\_\_\_ Cooler #6 \_\_\_\_\_

Chain of custody present? Yes  No

Chain of custody signed when relinquished and received? Yes  No

Chain of custody agrees with sample labels? Yes  No

Samples in proper container/bottle? Yes  No

Sample containers intact? Yes  No

Sufficient sample volume for indicated test? Yes  No

All samples received within holding time? Yes  No

Was TAT marked on the COC? Yes  No

Proceed with Standard TAT as per project history? Yes  No  Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No

Water - pH acceptable upon receipt? Yes  No  Not Applicable

Adjusted? \_\_\_\_\_ Checked by \_\_\_\_\_

Sample Condition: Good  Other(Explain) \_\_\_\_\_

(For diffusive samples or AIHA lead) Is a known blank included? Yes  No

See Case Narrative for resolution of the Non-Conformance.

\* Samples do not have to comply with the given range for certain parameters.

Client: CDM Smith Inc.  
 Project Name: CESSNA  
 Workorder: 1412954

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 200413

Sample ID: <b>MB-200413</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>12/11/2014</b>	Run No: <b>281744</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>200413</b>	Analysis Date: <b>12/11/2014</b>	Seq No: <b>5965093</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** CDM Smith Inc.  
**Project Name:** CESSNA  
**Workorder:** 1412954

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 200413**

Sample ID: <b>MB-200413</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>12/11/2014</b>	Run No: <b>281744</b>
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>200413</b>	Analysis Date: <b>12/11/2014</b>	Seq No: <b>5965093</b>

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	47.84	0	50.00		95.7	70	128				
Surr: Dibromofluoromethane	50.13	0	50.00		100	78.2	128				
Surr: Toluene-d8	50.11	0	50.00		100	76.5	116				

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



Client: CDM Smith Inc.  
 Project Name: CESSNA  
 Workorder: 1412954

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 200413

Sample ID: <b>LCS-200413</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>12/11/2014</b>	Run No: <b>281744</b>							
SampleType: <b>LCS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>200413</b>	Analysis Date: <b>12/11/2014</b>	Seq No: <b>5965072</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	50.35	5.0	50.00		101	69.9	145				
Benzene	54.00	5.0	50.00		108	72.3	130				
Chlorobenzene	50.61	5.0	50.00		101	69	130				
Toluene	50.96	5.0	50.00		102	71.1	130				
Trichloroethene	52.43	5.0	50.00		105	71.7	136				
Surr: 4-Bromofluorobenzene	47.97	0	50.00		95.9	70	128				
Surr: Dibromofluoromethane	51.01	0	50.00		102	78.2	128				
Surr: Toluene-d8	49.16	0	50.00		98.3	76.5	116				

Sample ID: <b>1412954-001AMS</b>	Client ID: <b>DUP-1</b>	Units: <b>ug/Kg-dry</b>	Prep Date: <b>12/11/2014</b>	Run No: <b>281744</b>							
SampleType: <b>MS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>200413</b>	Analysis Date: <b>12/11/2014</b>	Seq No: <b>5965081</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	64.37	6.1	61.43		105	56.6	151				
Benzene	69.49	6.1	61.43		113	70.4	130				
Chlorobenzene	63.57	6.1	61.43		103	67.5	132				
Toluene	66.52	6.1	61.43		108	70.4	130				
Trichloroethene	67.98	6.1	61.43		111	70.1	137				
Surr: 4-Bromofluorobenzene	60.47	0	61.43		98.4	70	128				
Surr: Dibromofluoromethane	61.84	0	61.43		101	78.2	128				
Surr: Toluene-d8	60.76	0	61.43		98.9	76.5	116				

Sample ID: <b>1412954-001AMSD</b>	Client ID: <b>DUP-1</b>	Units: <b>ug/Kg-dry</b>	Prep Date: <b>12/11/2014</b>	Run No: <b>281744</b>							
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>200413</b>	Analysis Date: <b>12/11/2014</b>	Seq No: <b>5965092</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	63.36	6.1	61.43		103	56.6	151	64.37	1.58	20.4	
Benzene	67.56	6.1	61.43		110	70.4	130	69.49	2.81	16.9	

**Qualifiers:**

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: CDM Smith Inc.  
 Project Name: CESSNA  
 Workorder: 1412954

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 200413

Sample ID: 1412954-001AMSD Client ID: DUP-1 Units: ug/Kg-dry Prep Date: 12/11/2014 Run No: 281744  
 SampleType: MSD TestCode: TCL VOLATILE ORGANICS SW8260B BatchID: 200413 Analysis Date: 12/11/2014 Seq No: 5965092

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	64.06	6.1	61.43		104	67.5	132	63.57	0.770	14.6	
Toluene	65.71	6.1	61.43		107	70.4	130	66.52	1.23	16.6	
Trichloroethene	65.20	6.1	61.43		106	70.1	137	67.98	4.17	17	
Surr: 4-Bromofluorobenzene	59.31	0	61.43		96.5	70	128	60.47	0	0	
Surr: Dibromofluoromethane	60.55	0	61.43		98.6	78.2	128	61.84	0	0	
Surr: Toluene-d8	61.46	0	61.43		100	76.5	116	60.76	0	0	

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** CDM Smith Inc.  
**Project Name:** CESSNA  
**Workorder:** 1412954

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 200442**

Sample ID: <b>MB-200442</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>12/12/2014</b>	Run No: <b>281820</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>200442</b>	Analysis Date: <b>12/12/2014</b>	Seq No: <b>5966426</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** CDM Smith Inc.  
**Project Name:** CESSNA  
**Workorder:** 1412954

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 200442**

Sample ID: <b>MB-200442</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>12/12/2014</b>	Run No: <b>281820</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>200442</b>	Analysis Date: <b>12/12/2014</b>	Seq No: <b>5966426</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	47.86	0	50.00		95.7	70.6	123				
Surr: Dibromofluoromethane	49.52	0	50.00		99.0	78.7	124				
Surr: Toluene-d8	48.98	0	50.00		98.0	81.3	120				

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: CDM Smith Inc.  
 Project Name: CESSNA  
 Workorder: 1412954

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 200442

Sample ID: <b>LCS-200442</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>12/12/2014</b>	Run No: <b>281820</b>							
SampleType: <b>LCS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>200442</b>	Analysis Date: <b>12/12/2014</b>	Seq No: <b>5966425</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	51.51	5.0	50.00		103	64.2	137				
Benzene	49.42	5.0	50.00		98.8	72.8	128				
Chlorobenzene	47.97	5.0	50.00		95.9	72.3	126				
Toluene	49.20	5.0	50.00		98.4	74.9	127				
Trichloroethene	48.07	5.0	50.00		96.1	70.5	134				
Surr: 4-Bromofluorobenzene	48.43	0	50.00		96.9	70.6	123				
Surr: Dibromofluoromethane	49.26	0	50.00		98.5	78.7	124				
Surr: Toluene-d8	49.38	0	50.00		98.8	81.3	120				

Sample ID: <b>1412A59-002AMS</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>12/12/2014</b>	Run No: <b>281820</b>							
SampleType: <b>MS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>200442</b>	Analysis Date: <b>12/12/2014</b>	Seq No: <b>5966432</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	55.13	5.0	50.00		110	60.5	156				
Benzene	51.73	5.0	50.00		103	70	135				
Chlorobenzene	51.02	5.0	50.00		102	70.5	132				
Toluene	51.03	5.0	50.00		102	70.5	137				
Trichloroethene	50.70	5.0	50.00		101	71.8	139				
Surr: 4-Bromofluorobenzene	47.82	0	50.00		95.6	70.6	123				
Surr: Dibromofluoromethane	48.85	0	50.00		97.7	78.7	124				
Surr: Toluene-d8	48.88	0	50.00		97.8	81.3	120				

Sample ID: <b>1412A59-002AMSD</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>12/12/2014</b>	Run No: <b>281820</b>							
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>200442</b>	Analysis Date: <b>12/12/2014</b>	Seq No: <b>5966433</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	52.77	5.0	50.00		106	60.5	156	55.13	4.37	20	
Benzene	50.10	5.0	50.00		100	70	135	51.73	3.20	20	

**Qualifiers:**

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** CDM Smith Inc.  
**Project Name:** CESSNA  
**Workorder:** 1412954

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 200442**

Sample ID: <b>1412A59-002AMSD</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>12/12/2014</b>	Run No: <b>281820</b>							
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>200442</b>	Analysis Date: <b>12/12/2014</b>	Seq No: <b>5966433</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	49.15	5.0	50.00		98.3	70.5	132	51.02	3.73	20	
Toluene	48.85	5.0	50.00		97.7	70.5	137	51.03	4.37	20	
Trichloroethene	48.99	5.0	50.00		98.0	71.8	139	50.70	3.43	20	
Surr: 4-Bromofluorobenzene	47.81	0	50.00		95.6	70.6	123	47.82	0	0	
Surr: Dibromofluoromethane	48.71	0	50.00		97.4	78.7	124	48.85	0	0	
Surr: Toluene-d8	48.64	0	50.00		97.3	81.3	120	48.88	0	0	

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Burlington

30 Community Drive

Suite 11

South Burlington, VT 05403

Tel: (802)660-1990

TestAmerica Job ID: 200-23644-1

TestAmerica Sample Delivery Group: 200-23644

Client Project/Site: Cessna

For:

CDM Smith, Inc.

3715 Northside Parkway, NW

Building 300, Suite 400

Atlanta, Georgia 30327

Attn: Mr. Jeff Weeber



Authorized for release by:

8/27/2014 9:28:42 AM

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### LINKS

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Definitions/Glossary

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-23644-1  
SDG: 200-23644

## Qualifiers

### Air - GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Case Narrative

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-23644-1  
SDG: 200-23644

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**Job ID: 200-23644-1**

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**Laboratory: TestAmerica Burlington**

## **Narrative**

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With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

### **RECEIPT**

The samples were received on 08/14/2014; the samples arrived in good condition.

### **VOLATILE ORGANIC COMPOUNDS**

Samples CESSNA-OUTDOOR-1, CESSNA-INDOOR-1, CESSNA-INDOOR-2 and CESSNA-INDOOR-3 were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 08/18/2014 and 08/19/2014.

1,2-Dichlorobenzene and 1,4-Dichlorobenzene were detected in method blank MB 200-76179/6 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

The continuing calibration verification (CCV) associated with batch 76179 recovered above the upper control limit for cis and trans-1,3-Dichloropropene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Detection Summary

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-23644-1  
SDG: 200-23644

**Client Sample ID: CESSNA-OUTDOOR-1**

**Lab Sample ID: 200-23644-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.47	J	0.50	0.030	ppb v/v	1			TO-15	Total/NA
Freon 22	0.83		0.50	0.048	ppb v/v	1			TO-15	Total/NA
Chloromethane	0.67		0.50	0.14	ppb v/v	1			TO-15	Total/NA
n-Butane	3.3		0.50	0.28	ppb v/v	1			TO-15	Total/NA
Trichlorofluoromethane	0.21		0.20	0.030	ppb v/v	1			TO-15	Total/NA
Freon TF	0.081	J	0.20	0.018	ppb v/v	1			TO-15	Total/NA
Acetone	5.8		5.0	1.3	ppb v/v	1			TO-15	Total/NA
Isopropyl alcohol	0.73	J	5.0	0.22	ppb v/v	1			TO-15	Total/NA
Carbon disulfide	0.44	J	0.50	0.066	ppb v/v	1			TO-15	Total/NA
n-Hexane	1.6		0.20	0.034	ppb v/v	1			TO-15	Total/NA
Methyl Ethyl Ketone	0.81		0.50	0.24	ppb v/v	1			TO-15	Total/NA
Carbon tetrachloride	0.076	J	0.20	0.021	ppb v/v	1			TO-15	Total/NA
2,2,4-Trimethylpentane	0.49		0.20	0.027	ppb v/v	1			TO-15	Total/NA
Benzene	0.53		0.20	0.019	ppb v/v	1			TO-15	Total/NA
n-Heptane	0.33		0.20	0.046	ppb v/v	1			TO-15	Total/NA
Trichloroethene	0.57		0.20	0.024	ppb v/v	1			TO-15	Total/NA
1,4-Dioxane	0.24	J	5.0	0.20	ppb v/v	1			TO-15	Total/NA
methyl isobutyl ketone	0.11	J	0.50	0.027	ppb v/v	1			TO-15	Total/NA
Toluene	1.3		0.20	0.017	ppb v/v	1			TO-15	Total/NA
Ethylbenzene	0.12	J	0.20	0.013	ppb v/v	1			TO-15	Total/NA
m,p-Xylene	0.44	J	0.50	0.023	ppb v/v	1			TO-15	Total/NA
Xylene, o-	0.17	J	0.20	0.016	ppb v/v	1			TO-15	Total/NA
Xylene (total)	0.61		0.20	0.034	ppb v/v	1			TO-15	Total/NA
Styrene	0.048	J	0.20	0.018	ppb v/v	1			TO-15	Total/NA
1,1,2,2-Tetrachloroethane	1.3		0.20	0.016	ppb v/v	1			TO-15	Total/NA
4-Ethyltoluene	0.022	J	0.20	0.018	ppb v/v	1			TO-15	Total/NA
1,3,5-Trimethylbenzene	0.031	J	0.20	0.012	ppb v/v	1			TO-15	Total/NA
1,2,4-Trimethylbenzene	0.092	J	0.20	0.014	ppb v/v	1			TO-15	Total/NA
1,4-Dichlorobenzene	0.017	J B	0.20	0.014	ppb v/v	1			TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Dichlorodifluoromethane	2.3	J	2.5	0.15	ug/m3	1			TO-15	Total/NA
Freon 22	2.9		1.8	0.17	ug/m3	1			TO-15	Total/NA
Chloromethane	1.4		1.0	0.28	ug/m3	1			TO-15	Total/NA
n-Butane	7.8		1.2	0.67	ug/m3	1			TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.17	ug/m3	1			TO-15	Total/NA
Freon TF	0.62	J	1.5	0.14	ug/m3	1			TO-15	Total/NA
Acetone	14		12	3.0	ug/m3	1			TO-15	Total/NA
Isopropyl alcohol	1.8	J	12	0.53	ug/m3	1			TO-15	Total/NA
Carbon disulfide	1.4	J	1.6	0.21	ug/m3	1			TO-15	Total/NA
n-Hexane	5.6		0.70	0.12	ug/m3	1			TO-15	Total/NA
Methyl Ethyl Ketone	2.4		1.5	0.71	ug/m3	1			TO-15	Total/NA
Carbon tetrachloride	0.48	J	1.3	0.13	ug/m3	1			TO-15	Total/NA
2,2,4-Trimethylpentane	2.3		0.93	0.13	ug/m3	1			TO-15	Total/NA
Benzene	1.7		0.64	0.061	ug/m3	1			TO-15	Total/NA
n-Heptane	1.3		0.82	0.19	ug/m3	1			TO-15	Total/NA
Trichloroethene	3.1		1.1	0.13	ug/m3	1			TO-15	Total/NA
1,4-Dioxane	0.88	J	18	0.72	ug/m3	1			TO-15	Total/NA
methyl isobutyl ketone	0.44	J	2.0	0.11	ug/m3	1			TO-15	Total/NA
Toluene	4.8		0.75	0.064	ug/m3	1			TO-15	Total/NA
Ethylbenzene	0.54	J	0.87	0.056	ug/m3	1			TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

## Detection Summary

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-23644-1  
SDG: 200-23644

### Client Sample ID: CESSNA-OUTDOOR-1 (Continued)

Lab Sample ID: 200-23644-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m,p-Xylene	1.9	J	2.2	0.10	ug/m3	1		TO-15	Total/NA
Xylene, o-	0.74	J	0.87	0.069	ug/m3	1		TO-15	Total/NA
Xylene (total)	2.6		0.87	0.15	ug/m3	1		TO-15	Total/NA
Styrene	0.20	J	0.85	0.077	ug/m3	1		TO-15	Total/NA
1,1,2,2-Tetrachloroethane	8.8		1.4	0.11	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.11	J	0.98	0.088	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.15	J	0.98	0.059	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.45	J	0.98	0.069	ug/m3	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.10	J B	1.2	0.084	ug/m3	1		TO-15	Total/NA

### Client Sample ID: CESSNA-INDOOR-1

Lab Sample ID: 200-23644-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.42	J	0.50	0.030	ppb v/v	1		TO-15	Total/NA
Freon 22	4.8		0.50	0.048	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.57		0.50	0.14	ppb v/v	1		TO-15	Total/NA
n-Butane	2.8		0.50	0.28	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.20		0.20	0.030	ppb v/v	1		TO-15	Total/NA
Freon TF	0.068	J	0.20	0.018	ppb v/v	1		TO-15	Total/NA
Acetone	5.9		5.0	1.3	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	4.6	J	5.0	0.22	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.15	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
n-Hexane	1.3		0.20	0.034	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone	0.55		0.50	0.24	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.19	J	0.20	0.025	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.062	J	0.20	0.021	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.36		0.20	0.027	ppb v/v	1		TO-15	Total/NA
Benzene	0.36		0.20	0.019	ppb v/v	1		TO-15	Total/NA
n-Heptane	0.29		0.20	0.046	ppb v/v	1		TO-15	Total/NA
Trichloroethene	2.5		0.20	0.024	ppb v/v	1		TO-15	Total/NA
methyl isobutyl ketone	0.66		0.50	0.027	ppb v/v	1		TO-15	Total/NA
Toluene	1.1		0.20	0.017	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.21		0.20	0.013	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	0.91		0.50	0.023	ppb v/v	1		TO-15	Total/NA
Xylene, o-	0.47		0.20	0.016	ppb v/v	1		TO-15	Total/NA
Xylene (total)	1.4		0.20	0.034	ppb v/v	1		TO-15	Total/NA
Styrene	0.090	J	0.20	0.018	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.042	J	0.20	0.018	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.046	J	0.20	0.012	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.14	J	0.20	0.014	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	2.1	J	2.5	0.15	ug/m3	1		TO-15	Total/NA
Freon 22	17		1.8	0.17	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0	0.28	ug/m3	1		TO-15	Total/NA
n-Butane	6.6		1.2	0.67	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.1		1.1	0.17	ug/m3	1		TO-15	Total/NA
Freon TF	0.52	J	1.5	0.14	ug/m3	1		TO-15	Total/NA
Acetone	14		12	3.0	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	11	J	12	0.53	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.54	J	1.7	0.43	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

# Detection Summary

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-23644-1  
SDG: 200-23644

## Client Sample ID: CESSNA-INDOOR-1 (Continued)

Lab Sample ID: 200-23644-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Hexane	4.7		0.70	0.12	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone	1.6		1.5	0.71	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.66	J	0.69	0.086	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.39	J	1.3	0.13	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	1.7		0.93	0.13	ug/m3	1		TO-15	Total/NA
Benzene	1.2		0.64	0.061	ug/m3	1		TO-15	Total/NA
n-Heptane	1.2		0.82	0.19	ug/m3	1		TO-15	Total/NA
Trichloroethene	13		1.1	0.13	ug/m3	1		TO-15	Total/NA
methyl isobutyl ketone	2.7		2.0	0.11	ug/m3	1		TO-15	Total/NA
Toluene	4.2		0.75	0.064	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.89		0.87	0.056	ug/m3	1		TO-15	Total/NA
m,p-Xylene	3.9		2.2	0.10	ug/m3	1		TO-15	Total/NA
Xylene, o-	2.0		0.87	0.069	ug/m3	1		TO-15	Total/NA
Xylene (total)	6.0		0.87	0.15	ug/m3	1		TO-15	Total/NA
Styrene	0.38	J	0.85	0.077	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.21	J	0.98	0.088	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.23	J	0.98	0.059	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.66	J	0.98	0.069	ug/m3	1		TO-15	Total/NA

## Client Sample ID: CESSNA-INDOOR-2

Lab Sample ID: 200-23644-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.47	J	0.50	0.030	ppb v/v	1		TO-15	Total/NA
Freon 22	4.8		0.50	0.048	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.64		0.50	0.14	ppb v/v	1		TO-15	Total/NA
n-Butane	4.7		0.50	0.28	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.21		0.20	0.030	ppb v/v	1		TO-15	Total/NA
Freon TF	0.074	J	0.20	0.018	ppb v/v	1		TO-15	Total/NA
Acetone	6.2		5.0	1.3	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	4.9	J	5.0	0.22	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	0.091	J	0.50	0.066	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.17	J	0.50	0.13	ppb v/v	1		TO-15	Total/NA
n-Hexane	2.0		0.20	0.034	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone	0.69		0.50	0.24	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.28		0.20	0.025	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.070	J	0.20	0.021	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.56		0.20	0.027	ppb v/v	1		TO-15	Total/NA
Benzene	0.49		0.20	0.019	ppb v/v	1		TO-15	Total/NA
n-Heptane	0.38		0.20	0.046	ppb v/v	1		TO-15	Total/NA
Trichloroethene	2.9		0.20	0.024	ppb v/v	1		TO-15	Total/NA
methyl isobutyl ketone	0.72		0.50	0.027	ppb v/v	1		TO-15	Total/NA
Toluene	1.5		0.20	0.017	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.24		0.20	0.013	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	1.0		0.50	0.023	ppb v/v	1		TO-15	Total/NA
Xylene, o-	0.50		0.20	0.016	ppb v/v	1		TO-15	Total/NA
Xylene (total)	1.5		0.20	0.034	ppb v/v	1		TO-15	Total/NA
Styrene	0.10	J	0.20	0.018	ppb v/v	1		TO-15	Total/NA
Cumene	0.021	J	0.20	0.016	ppb v/v	1		TO-15	Total/NA
1,1,1,2,2-Tetrachloroethane	0.024	J	0.20	0.016	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.049	J	0.20	0.018	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

# Detection Summary

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-23644-1  
SDG: 200-23644

## Client Sample ID: CESSNA-INDOOR-2 (Continued)

## Lab Sample ID: 200-23644-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	0.055	J	0.20	0.012	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.16	J	0.20	0.014	ppb v/v	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.015	J B	0.20	0.014	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	2.3	J	2.5	0.15	ug/m3	1		TO-15	Total/NA
Freon 22	17		1.8	0.17	ug/m3	1		TO-15	Total/NA
Chloromethane	1.3		1.0	0.28	ug/m3	1		TO-15	Total/NA
n-Butane	11		1.2	0.67	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.17	ug/m3	1		TO-15	Total/NA
Freon TF	0.57	J	1.5	0.14	ug/m3	1		TO-15	Total/NA
Acetone	15		12	3.0	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	12	J	12	0.53	ug/m3	1		TO-15	Total/NA
Carbon disulfide	0.28	J	1.6	0.21	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.60	J	1.7	0.43	ug/m3	1		TO-15	Total/NA
n-Hexane	7.1		0.70	0.12	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone	2.0		1.5	0.71	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.98		0.69	0.086	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.44	J	1.3	0.13	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	2.6		0.93	0.13	ug/m3	1		TO-15	Total/NA
Benzene	1.6		0.64	0.061	ug/m3	1		TO-15	Total/NA
n-Heptane	1.6		0.82	0.19	ug/m3	1		TO-15	Total/NA
Trichloroethene	16		1.1	0.13	ug/m3	1		TO-15	Total/NA
methyl isobutyl ketone	3.0		2.0	0.11	ug/m3	1		TO-15	Total/NA
Toluene	5.7		0.75	0.064	ug/m3	1		TO-15	Total/NA
Ethylbenzene	1.0		0.87	0.056	ug/m3	1		TO-15	Total/NA
m,p-Xylene	4.3		2.2	0.10	ug/m3	1		TO-15	Total/NA
Xylene, o-	2.2		0.87	0.069	ug/m3	1		TO-15	Total/NA
Xylene (total)	6.5		0.87	0.15	ug/m3	1		TO-15	Total/NA
Styrene	0.44	J	0.85	0.077	ug/m3	1		TO-15	Total/NA
Cumene	0.10	J	0.98	0.079	ug/m3	1		TO-15	Total/NA
1,1,1,2-Tetrachloroethane	0.16	J	1.4	0.11	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.24	J	0.98	0.088	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.27	J	0.98	0.059	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.77	J	0.98	0.069	ug/m3	1		TO-15	Total/NA
1,4-Dichlorobenzene	0.089	J B	1.2	0.084	ug/m3	1		TO-15	Total/NA

## Client Sample ID: CESSNA-INDOOR-3

## Lab Sample ID: 200-23644-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.47	J	0.50	0.030	ppb v/v	1		TO-15	Total/NA
Freon 22	5.2		0.50	0.048	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.89		0.50	0.14	ppb v/v	1		TO-15	Total/NA
n-Butane	2.8		0.50	0.28	ppb v/v	1		TO-15	Total/NA
Chloroethane	0.16	J	0.50	0.030	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.22		0.20	0.030	ppb v/v	1		TO-15	Total/NA
Freon TF	0.078	J	0.20	0.018	ppb v/v	1		TO-15	Total/NA
Acetone	11		5.0	1.3	ppb v/v	1		TO-15	Total/NA
Isopropyl alcohol	4.2	J	5.0	0.22	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	1.4		0.50	0.066	ppb v/v	1		TO-15	Total/NA
n-Hexane	1.4		0.20	0.034	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

# Detection Summary

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-23644-1  
SDG: 200-23644

**Client Sample ID: CESSNA-INDOOR-3 (Continued)**

**Lab Sample ID: 200-23644-4**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl Ethyl Ketone	1.3		0.50	0.24	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.14	J	0.20	0.025	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.062	J	0.20	0.021	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.37		0.20	0.027	ppb v/v	1		TO-15	Total/NA
Benzene	1.0		0.20	0.019	ppb v/v	1		TO-15	Total/NA
n-Heptane	0.26		0.20	0.046	ppb v/v	1		TO-15	Total/NA
Trichloroethene	2.5		0.20	0.024	ppb v/v	1		TO-15	Total/NA
methyl isobutyl ketone	0.60		0.50	0.027	ppb v/v	1		TO-15	Total/NA
Toluene	1.3		0.20	0.017	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.19	J	0.20	0.013	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	0.82		0.50	0.023	ppb v/v	1		TO-15	Total/NA
Xylene, o-	0.42		0.20	0.016	ppb v/v	1		TO-15	Total/NA
Xylene (total)	1.2		0.20	0.034	ppb v/v	1		TO-15	Total/NA
Styrene	0.080	J	0.20	0.018	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.021	J	0.20	0.018	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.025	J	0.20	0.012	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.065	J	0.20	0.014	ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	2.3	J	2.5	0.15	ug/m3	1		TO-15	Total/NA
Freon 22	18		1.8	0.17	ug/m3	1		TO-15	Total/NA
Chloromethane	1.8		1.0	0.28	ug/m3	1		TO-15	Total/NA
n-Butane	6.7		1.2	0.67	ug/m3	1		TO-15	Total/NA
Chloroethane	0.43	J	1.3	0.079	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.17	ug/m3	1		TO-15	Total/NA
Freon TF	0.60	J	1.5	0.14	ug/m3	1		TO-15	Total/NA
Acetone	27		12	3.0	ug/m3	1		TO-15	Total/NA
Isopropyl alcohol	10	J	12	0.53	ug/m3	1		TO-15	Total/NA
Carbon disulfide	4.2		1.6	0.21	ug/m3	1		TO-15	Total/NA
n-Hexane	4.9		0.70	0.12	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone	3.8		1.5	0.71	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.49	J	0.69	0.086	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.39	J	1.3	0.13	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	1.8		0.93	0.13	ug/m3	1		TO-15	Total/NA
Benzene	3.3		0.64	0.061	ug/m3	1		TO-15	Total/NA
n-Heptane	1.1		0.82	0.19	ug/m3	1		TO-15	Total/NA
Trichloroethene	14		1.1	0.13	ug/m3	1		TO-15	Total/NA
methyl isobutyl ketone	2.5		2.0	0.11	ug/m3	1		TO-15	Total/NA
Toluene	4.7		0.75	0.064	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.82	J	0.87	0.056	ug/m3	1		TO-15	Total/NA
m,p-Xylene	3.5		2.2	0.10	ug/m3	1		TO-15	Total/NA
Xylene, o-	1.8		0.87	0.069	ug/m3	1		TO-15	Total/NA
Xylene (total)	5.4		0.87	0.15	ug/m3	1		TO-15	Total/NA
Styrene	0.34	J	0.85	0.077	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.10	J	0.98	0.088	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.13	J	0.98	0.059	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.32	J	0.98	0.069	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-23644-1  
SDG: 200-23644

**Client Sample ID: CESSNA-OUTDOOR-1**

**Lab Sample ID: 200-23644-1**

Date Collected: 08/12/14 07:50

Matrix: Air

Date Received: 08/14/14 10:00

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.47	J	0.50	0.030	ppb v/v			08/18/14 21:37	1
Freon 22	0.83		0.50	0.048	ppb v/v			08/18/14 21:37	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.035	ppb v/v			08/18/14 21:37	1
Chloromethane	0.67		0.50	0.14	ppb v/v			08/18/14 21:37	1
n-Butane	3.3		0.50	0.28	ppb v/v			08/18/14 21:37	1
Vinyl chloride	0.20	U	0.20	0.038	ppb v/v			08/18/14 21:37	1
1,3-Butadiene	0.20	U	0.20	0.042	ppb v/v			08/18/14 21:37	1
Bromomethane	0.20	U	0.20	0.028	ppb v/v			08/18/14 21:37	1
Chloroethane	0.50	U	0.50	0.030	ppb v/v			08/18/14 21:37	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.030	ppb v/v			08/18/14 21:37	1
Trichlorofluoromethane	0.21		0.20	0.030	ppb v/v			08/18/14 21:37	1
Freon TF	0.081	J	0.20	0.018	ppb v/v			08/18/14 21:37	1
1,1-Dichloroethene	0.20	U	0.20	0.024	ppb v/v			08/18/14 21:37	1
Acetone	5.8		5.0	1.3	ppb v/v			08/18/14 21:37	1
Isopropyl alcohol	0.73	J	5.0	0.22	ppb v/v			08/18/14 21:37	1
Carbon disulfide	0.44	J	0.50	0.066	ppb v/v			08/18/14 21:37	1
3-Chloropropene	0.50	U	0.50	0.034	ppb v/v			08/18/14 21:37	1
Methylene Chloride	0.50	U	0.50	0.13	ppb v/v			08/18/14 21:37	1
tert-Butyl alcohol	5.0	U	5.0	0.33	ppb v/v			08/18/14 21:37	1
Methyl tert-butyl ether	0.20	U	0.20	0.022	ppb v/v			08/18/14 21:37	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.029	ppb v/v			08/18/14 21:37	1
n-Hexane	1.6		0.20	0.034	ppb v/v			08/18/14 21:37	1
1,1-Dichloroethane	0.20	U	0.20	0.038	ppb v/v			08/18/14 21:37	1
Methyl Ethyl Ketone	0.81		0.50	0.24	ppb v/v			08/18/14 21:37	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.038	ppb v/v			08/18/14 21:37	1
1,2-Dichloroethene, Total	0.20	U	0.20	0.064	ppb v/v			08/18/14 21:37	1
Chloroform	0.20	U	0.20	0.025	ppb v/v			08/18/14 21:37	1
Tetrahydrofuran	5.0	U	5.0	0.046	ppb v/v			08/18/14 21:37	1
1,1,1-Trichloroethane	0.20	U	0.20	0.021	ppb v/v			08/18/14 21:37	1
Cyclohexane	0.20	U	0.20	0.025	ppb v/v			08/18/14 21:37	1
Carbon tetrachloride	0.076	J	0.20	0.021	ppb v/v			08/18/14 21:37	1
2,2,4-Trimethylpentane	0.49		0.20	0.027	ppb v/v			08/18/14 21:37	1
Benzene	0.53		0.20	0.019	ppb v/v			08/18/14 21:37	1
1,2-Dichloroethane	0.20	U	0.20	0.017	ppb v/v			08/18/14 21:37	1
n-Heptane	0.33		0.20	0.046	ppb v/v			08/18/14 21:37	1
Trichloroethene	0.57		0.20	0.024	ppb v/v			08/18/14 21:37	1
Methyl methacrylate	0.50	U	0.50	0.030	ppb v/v			08/18/14 21:37	1
1,2-Dichloropropane	0.20	U	0.20	0.032	ppb v/v			08/18/14 21:37	1
1,4-Dioxane	0.24	J	5.0	0.20	ppb v/v			08/18/14 21:37	1
Bromodichloromethane	0.20	U	0.20	0.017	ppb v/v			08/18/14 21:37	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.028	ppb v/v			08/18/14 21:37	1
methyl isobutyl ketone	0.11	J	0.50	0.027	ppb v/v			08/18/14 21:37	1
Toluene	1.3		0.20	0.017	ppb v/v			08/18/14 21:37	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.022	ppb v/v			08/18/14 21:37	1
1,1,2-Trichloroethane	0.20	U	0.20	0.017	ppb v/v			08/18/14 21:37	1
Tetrachloroethene	0.20	U	0.20	0.016	ppb v/v			08/18/14 21:37	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.20	ppb v/v			08/18/14 21:37	1
Dibromochloromethane	0.20	U	0.20	0.020	ppb v/v			08/18/14 21:37	1

TestAmerica Burlington



# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-23644-1  
SDG: 200-23644

**Client Sample ID: CESSNA-OUTDOOR-1**

**Lab Sample ID: 200-23644-1**

Date Collected: 08/12/14 07:50

Matrix: Air

Date Received: 08/14/14 10:00

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	0.20	U	0.20	0.020	ppb v/v			08/18/14 21:37	1
Chlorobenzene	0.20	U	0.20	0.0081	ppb v/v			08/18/14 21:37	1
<b>Ethylbenzene</b>	<b>0.12</b>	<b>J</b>	0.20	0.013	ppb v/v			08/18/14 21:37	1
<b>m,p-Xylene</b>	<b>0.44</b>	<b>J</b>	0.50	0.023	ppb v/v			08/18/14 21:37	1
<b>Xylene, o-</b>	<b>0.17</b>	<b>J</b>	0.20	0.016	ppb v/v			08/18/14 21:37	1
<b>Xylene (total)</b>	<b>0.61</b>		0.20	0.034	ppb v/v			08/18/14 21:37	1
<b>Styrene</b>	<b>0.048</b>	<b>J</b>	0.20	0.018	ppb v/v			08/18/14 21:37	1
Bromoform	0.20	U	0.20	0.010	ppb v/v			08/18/14 21:37	1
Cumene	0.20	U	0.20	0.016	ppb v/v			08/18/14 21:37	1
<b>1,1,2,2-Tetrachloroethane</b>	<b>1.3</b>		0.20	0.016	ppb v/v			08/18/14 21:37	1
n-Propylbenzene	0.20	U	0.20	0.080	ppb v/v			08/18/14 21:37	1
<b>4-Ethyltoluene</b>	<b>0.022</b>	<b>J</b>	0.20	0.018	ppb v/v			08/18/14 21:37	1
<b>1,3,5-Trimethylbenzene</b>	<b>0.031</b>	<b>J</b>	0.20	0.012	ppb v/v			08/18/14 21:37	1
2-Chlorotoluene	0.20	U	0.20	0.013	ppb v/v			08/18/14 21:37	1
tert-Butylbenzene	0.20	U	0.20	0.017	ppb v/v			08/18/14 21:37	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.092</b>	<b>J</b>	0.20	0.014	ppb v/v			08/18/14 21:37	1
sec-Butylbenzene	0.20	U	0.20	0.080	ppb v/v			08/18/14 21:37	1
4-Isopropyltoluene	0.20	U	0.20	0.080	ppb v/v			08/18/14 21:37	1
1,3-Dichlorobenzene	0.20	U	0.20	0.014	ppb v/v			08/18/14 21:37	1
<b>1,4-Dichlorobenzene</b>	<b>0.017</b>	<b>J B</b>	0.20	0.014	ppb v/v			08/18/14 21:37	1
Benzyl chloride	0.20	U	0.20	0.080	ppb v/v			08/18/14 21:37	1
n-Butylbenzene	0.20	U	0.20	0.080	ppb v/v			08/18/14 21:37	1
1,2-Dichlorobenzene	0.20	U	0.20	0.014	ppb v/v			08/18/14 21:37	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.027	ppb v/v			08/18/14 21:37	1
Hexachlorobutadiene	0.20	U	0.20	0.022	ppb v/v			08/18/14 21:37	1
Naphthalene	0.50	U	0.50	0.20	ppb v/v			08/18/14 21:37	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Dichlorodifluoromethane</b>	<b>2.3</b>	<b>J</b>	2.5	0.15	ug/m3			08/18/14 21:37	1
<b>Freon 22</b>	<b>2.9</b>		1.8	0.17	ug/m3			08/18/14 21:37	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.24	ug/m3			08/18/14 21:37	1
<b>Chloromethane</b>	<b>1.4</b>		1.0	0.28	ug/m3			08/18/14 21:37	1
<b>n-Butane</b>	<b>7.8</b>		1.2	0.67	ug/m3			08/18/14 21:37	1
Vinyl chloride	0.51	U	0.51	0.097	ug/m3			08/18/14 21:37	1
1,3-Butadiene	0.44	U	0.44	0.093	ug/m3			08/18/14 21:37	1
Bromomethane	0.78	U	0.78	0.11	ug/m3			08/18/14 21:37	1
Chloroethane	1.3	U	1.3	0.079	ug/m3			08/18/14 21:37	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.13	ug/m3			08/18/14 21:37	1
<b>Trichlorofluoromethane</b>	<b>1.2</b>		1.1	0.17	ug/m3			08/18/14 21:37	1
<b>Freon TF</b>	<b>0.62</b>	<b>J</b>	1.5	0.14	ug/m3			08/18/14 21:37	1
1,1-Dichloroethene	0.79	U	0.79	0.095	ug/m3			08/18/14 21:37	1
<b>Acetone</b>	<b>14</b>		12	3.0	ug/m3			08/18/14 21:37	1
<b>Isopropyl alcohol</b>	<b>1.8</b>	<b>J</b>	12	0.53	ug/m3			08/18/14 21:37	1
<b>Carbon disulfide</b>	<b>1.4</b>	<b>J</b>	1.6	0.21	ug/m3			08/18/14 21:37	1
3-Chloropropene	1.6	U	1.6	0.11	ug/m3			08/18/14 21:37	1
Methylene Chloride	1.7	U	1.7	0.43	ug/m3			08/18/14 21:37	1
tert-Butyl alcohol	15	U	15	0.99	ug/m3			08/18/14 21:37	1
Methyl tert-butyl ether	0.72	U	0.72	0.079	ug/m3			08/18/14 21:37	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.11	ug/m3			08/18/14 21:37	1

TestAmerica Burlington

# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-23644-1  
SDG: 200-23644

**Client Sample ID: CESSNA-OUTDOOR-1**

**Lab Sample ID: 200-23644-1**

Date Collected: 08/12/14 07:50

Matrix: Air

Date Received: 08/14/14 10:00

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>n-Hexane</b>	<b>5.6</b>		0.70	0.12	ug/m3			08/18/14 21:37	1
1,1-Dichloroethane	0.81	U	0.81	0.15	ug/m3			08/18/14 21:37	1
<b>Methyl Ethyl Ketone</b>	<b>2.4</b>		1.5	0.71	ug/m3			08/18/14 21:37	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.15	ug/m3			08/18/14 21:37	1
1,2-Dichloroethene, Total	0.79	U	0.79	0.25	ug/m3			08/18/14 21:37	1
Chloroform	0.98	U	0.98	0.12	ug/m3			08/18/14 21:37	1
Tetrahydrofuran	15	U	15	0.14	ug/m3			08/18/14 21:37	1
1,1,1-Trichloroethane	1.1	U	1.1	0.11	ug/m3			08/18/14 21:37	1
Cyclohexane	0.69	U	0.69	0.086	ug/m3			08/18/14 21:37	1
<b>Carbon tetrachloride</b>	<b>0.48</b>	<b>J</b>	1.3	0.13	ug/m3			08/18/14 21:37	1
<b>2,2,4-Trimethylpentane</b>	<b>2.3</b>		0.93	0.13	ug/m3			08/18/14 21:37	1
<b>Benzene</b>	<b>1.7</b>		0.64	0.061	ug/m3			08/18/14 21:37	1
1,2-Dichloroethane	0.81	U	0.81	0.069	ug/m3			08/18/14 21:37	1
<b>n-Heptane</b>	<b>1.3</b>		0.82	0.19	ug/m3			08/18/14 21:37	1
<b>Trichloroethene</b>	<b>3.1</b>		1.1	0.13	ug/m3			08/18/14 21:37	1
Methyl methacrylate	2.0	U	2.0	0.12	ug/m3			08/18/14 21:37	1
1,2-Dichloropropane	0.92	U	0.92	0.15	ug/m3			08/18/14 21:37	1
<b>1,4-Dioxane</b>	<b>0.88</b>	<b>J</b>	18	0.72	ug/m3			08/18/14 21:37	1
Bromodichloromethane	1.3	U	1.3	0.11	ug/m3			08/18/14 21:37	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.13	ug/m3			08/18/14 21:37	1
<b>methyl isobutyl ketone</b>	<b>0.44</b>	<b>J</b>	2.0	0.11	ug/m3			08/18/14 21:37	1
<b>Toluene</b>	<b>4.8</b>		0.75	0.064	ug/m3			08/18/14 21:37	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.10	ug/m3			08/18/14 21:37	1
1,1,2-Trichloroethane	1.1	U	1.1	0.093	ug/m3			08/18/14 21:37	1
Tetrachloroethene	1.4	U	1.4	0.11	ug/m3			08/18/14 21:37	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.82	ug/m3			08/18/14 21:37	1
Dibromochloromethane	1.7	U	1.7	0.17	ug/m3			08/18/14 21:37	1
1,2-Dibromoethane	1.5	U	1.5	0.15	ug/m3			08/18/14 21:37	1
Chlorobenzene	0.92	U	0.92	0.037	ug/m3			08/18/14 21:37	1
<b>Ethylbenzene</b>	<b>0.54</b>	<b>J</b>	0.87	0.056	ug/m3			08/18/14 21:37	1
<b>m,p-Xylene</b>	<b>1.9</b>	<b>J</b>	2.2	0.10	ug/m3			08/18/14 21:37	1
<b>Xylene, o-</b>	<b>0.74</b>	<b>J</b>	0.87	0.069	ug/m3			08/18/14 21:37	1
<b>Xylene (total)</b>	<b>2.6</b>		0.87	0.15	ug/m3			08/18/14 21:37	1
<b>Styrene</b>	<b>0.20</b>	<b>J</b>	0.85	0.077	ug/m3			08/18/14 21:37	1
Bromoform	2.1	U	2.1	0.10	ug/m3			08/18/14 21:37	1
Cumene	0.98	U	0.98	0.079	ug/m3			08/18/14 21:37	1
<b>1,1,2,2-Tetrachloroethane</b>	<b>8.8</b>		1.4	0.11	ug/m3			08/18/14 21:37	1
n-Propylbenzene	0.98	U	0.98	0.39	ug/m3			08/18/14 21:37	1
<b>4-Ethyltoluene</b>	<b>0.11</b>	<b>J</b>	0.98	0.088	ug/m3			08/18/14 21:37	1
<b>1,3,5-Trimethylbenzene</b>	<b>0.15</b>	<b>J</b>	0.98	0.059	ug/m3			08/18/14 21:37	1
2-Chlorotoluene	1.0	U	1.0	0.067	ug/m3			08/18/14 21:37	1
tert-Butylbenzene	1.1	U	1.1	0.093	ug/m3			08/18/14 21:37	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.45</b>	<b>J</b>	0.98	0.069	ug/m3			08/18/14 21:37	1
sec-Butylbenzene	1.1	U	1.1	0.44	ug/m3			08/18/14 21:37	1
4-Isopropyltoluene	1.1	U	1.1	0.44	ug/m3			08/18/14 21:37	1
1,3-Dichlorobenzene	1.2	U	1.2	0.084	ug/m3			08/18/14 21:37	1
<b>1,4-Dichlorobenzene</b>	<b>0.10</b>	<b>J B</b>	1.2	0.084	ug/m3			08/18/14 21:37	1
Benzyl chloride	1.0	U	1.0	0.41	ug/m3			08/18/14 21:37	1

TestAmerica Burlington

# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-23644-1  
SDG: 200-23644

**Client Sample ID: CESSNA-OUTDOOR-1**

**Lab Sample ID: 200-23644-1**

Date Collected: 08/12/14 07:50

Matrix: Air

Date Received: 08/14/14 10:00

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	1.1	U	1.1	0.44	ug/m3			08/18/14 21:37	1
1,2-Dichlorobenzene	1.2	U	1.2	0.084	ug/m3			08/18/14 21:37	1
1,2,4-Trichlorobenzene	3.7	U	3.7	0.20	ug/m3			08/18/14 21:37	1
Hexachlorobutadiene	2.1	U	2.1	0.23	ug/m3			08/18/14 21:37	1
Naphthalene	2.6	U	2.6	1.0	ug/m3			08/18/14 21:37	1

**Client Sample ID: CESSNA-INDOOR-1**

**Lab Sample ID: 200-23644-2**

Date Collected: 08/12/14 07:53

Matrix: Air

Date Received: 08/14/14 10:00

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.42	J	0.50	0.030	ppb v/v			08/18/14 22:28	1
Freon 22	4.8		0.50	0.048	ppb v/v			08/18/14 22:28	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.035	ppb v/v			08/18/14 22:28	1
Chloromethane	0.57		0.50	0.14	ppb v/v			08/18/14 22:28	1
n-Butane	2.8		0.50	0.28	ppb v/v			08/18/14 22:28	1
Vinyl chloride	0.20	U	0.20	0.038	ppb v/v			08/18/14 22:28	1
1,3-Butadiene	0.20	U	0.20	0.042	ppb v/v			08/18/14 22:28	1
Bromomethane	0.20	U	0.20	0.028	ppb v/v			08/18/14 22:28	1
Chloroethane	0.50	U	0.50	0.030	ppb v/v			08/18/14 22:28	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.030	ppb v/v			08/18/14 22:28	1
Trichlorofluoromethane	0.20		0.20	0.030	ppb v/v			08/18/14 22:28	1
Freon TF	0.068	J	0.20	0.018	ppb v/v			08/18/14 22:28	1
1,1-Dichloroethene	0.20	U	0.20	0.024	ppb v/v			08/18/14 22:28	1
Acetone	5.9		5.0	1.3	ppb v/v			08/18/14 22:28	1
Isopropyl alcohol	4.6	J	5.0	0.22	ppb v/v			08/18/14 22:28	1
Carbon disulfide	0.50	U	0.50	0.066	ppb v/v			08/18/14 22:28	1
3-Chloropropene	0.50	U	0.50	0.034	ppb v/v			08/18/14 22:28	1
Methylene Chloride	0.15	J	0.50	0.13	ppb v/v			08/18/14 22:28	1
tert-Butyl alcohol	5.0	U	5.0	0.33	ppb v/v			08/18/14 22:28	1
Methyl tert-butyl ether	0.20	U	0.20	0.022	ppb v/v			08/18/14 22:28	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.029	ppb v/v			08/18/14 22:28	1
n-Hexane	1.3		0.20	0.034	ppb v/v			08/18/14 22:28	1
1,1-Dichloroethane	0.20	U	0.20	0.038	ppb v/v			08/18/14 22:28	1
Methyl Ethyl Ketone	0.55		0.50	0.24	ppb v/v			08/18/14 22:28	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.038	ppb v/v			08/18/14 22:28	1
1,2-Dichloroethene, Total	0.20	U	0.20	0.064	ppb v/v			08/18/14 22:28	1
Chloroform	0.20	U	0.20	0.025	ppb v/v			08/18/14 22:28	1
Tetrahydrofuran	5.0	U	5.0	0.046	ppb v/v			08/18/14 22:28	1
1,1,1-Trichloroethane	0.20	U	0.20	0.021	ppb v/v			08/18/14 22:28	1
Cyclohexane	0.19	J	0.20	0.025	ppb v/v			08/18/14 22:28	1
Carbon tetrachloride	0.062	J	0.20	0.021	ppb v/v			08/18/14 22:28	1
2,2,4-Trimethylpentane	0.36		0.20	0.027	ppb v/v			08/18/14 22:28	1
Benzene	0.36		0.20	0.019	ppb v/v			08/18/14 22:28	1
1,2-Dichloroethane	0.20	U	0.20	0.017	ppb v/v			08/18/14 22:28	1
n-Heptane	0.29		0.20	0.046	ppb v/v			08/18/14 22:28	1
Trichloroethene	2.5		0.20	0.024	ppb v/v			08/18/14 22:28	1

TestAmerica Burlington

# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-23644-1  
SDG: 200-23644

**Client Sample ID: CESSNA-INDOOR-1**

**Lab Sample ID: 200-23644-2**

Date Collected: 08/12/14 07:53

Matrix: Air

Date Received: 08/14/14 10:00

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl methacrylate	0.50	U	0.50	0.030	ppb v/v			08/18/14 22:28	1
1,2-Dichloropropane	0.20	U	0.20	0.032	ppb v/v			08/18/14 22:28	1
1,4-Dioxane	5.0	U	5.0	0.20	ppb v/v			08/18/14 22:28	1
Bromodichloromethane	0.20	U	0.20	0.017	ppb v/v			08/18/14 22:28	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.028	ppb v/v			08/18/14 22:28	1
<b>methyl isobutyl ketone</b>	<b>0.66</b>		0.50	0.027	ppb v/v			08/18/14 22:28	1
<b>Toluene</b>	<b>1.1</b>		0.20	0.017	ppb v/v			08/18/14 22:28	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.022	ppb v/v			08/18/14 22:28	1
1,1,2-Trichloroethane	0.20	U	0.20	0.017	ppb v/v			08/18/14 22:28	1
Tetrachloroethene	0.20	U	0.20	0.016	ppb v/v			08/18/14 22:28	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.20	ppb v/v			08/18/14 22:28	1
Dibromochloromethane	0.20	U	0.20	0.020	ppb v/v			08/18/14 22:28	1
1,2-Dibromoethane	0.20	U	0.20	0.020	ppb v/v			08/18/14 22:28	1
Chlorobenzene	0.20	U	0.20	0.0081	ppb v/v			08/18/14 22:28	1
<b>Ethylbenzene</b>	<b>0.21</b>		0.20	0.013	ppb v/v			08/18/14 22:28	1
<b>m,p-Xylene</b>	<b>0.91</b>		0.50	0.023	ppb v/v			08/18/14 22:28	1
<b>Xylene, o-</b>	<b>0.47</b>		0.20	0.016	ppb v/v			08/18/14 22:28	1
<b>Xylene (total)</b>	<b>1.4</b>		0.20	0.034	ppb v/v			08/18/14 22:28	1
<b>Styrene</b>	<b>0.090</b>	<b>J</b>	0.20	0.018	ppb v/v			08/18/14 22:28	1
Bromoform	0.20	U	0.20	0.010	ppb v/v			08/18/14 22:28	1
Cumene	0.20	U	0.20	0.016	ppb v/v			08/18/14 22:28	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.016	ppb v/v			08/18/14 22:28	1
n-Propylbenzene	0.20	U	0.20	0.080	ppb v/v			08/18/14 22:28	1
<b>4-Ethyltoluene</b>	<b>0.042</b>	<b>J</b>	0.20	0.018	ppb v/v			08/18/14 22:28	1
<b>1,3,5-Trimethylbenzene</b>	<b>0.046</b>	<b>J</b>	0.20	0.012	ppb v/v			08/18/14 22:28	1
2-Chlorotoluene	0.20	U	0.20	0.013	ppb v/v			08/18/14 22:28	1
tert-Butylbenzene	0.20	U	0.20	0.017	ppb v/v			08/18/14 22:28	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.14</b>	<b>J</b>	0.20	0.014	ppb v/v			08/18/14 22:28	1
sec-Butylbenzene	0.20	U	0.20	0.080	ppb v/v			08/18/14 22:28	1
4-Isopropyltoluene	0.20	U	0.20	0.080	ppb v/v			08/18/14 22:28	1
1,3-Dichlorobenzene	0.20	U	0.20	0.014	ppb v/v			08/18/14 22:28	1
1,4-Dichlorobenzene	0.20	U	0.20	0.014	ppb v/v			08/18/14 22:28	1
Benzyl chloride	0.20	U	0.20	0.080	ppb v/v			08/18/14 22:28	1
n-Butylbenzene	0.20	U	0.20	0.080	ppb v/v			08/18/14 22:28	1
1,2-Dichlorobenzene	0.20	U	0.20	0.014	ppb v/v			08/18/14 22:28	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.027	ppb v/v			08/18/14 22:28	1
Hexachlorobutadiene	0.20	U	0.20	0.022	ppb v/v			08/18/14 22:28	1
Naphthalene	0.50	U	0.50	0.20	ppb v/v			08/18/14 22:28	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Dichlorodifluoromethane</b>	<b>2.1</b>	<b>J</b>	2.5	0.15	ug/m3			08/18/14 22:28	1
<b>Freon 22</b>	<b>17</b>		1.8	0.17	ug/m3			08/18/14 22:28	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.24	ug/m3			08/18/14 22:28	1
<b>Chloromethane</b>	<b>1.2</b>		1.0	0.28	ug/m3			08/18/14 22:28	1
<b>n-Butane</b>	<b>6.6</b>		1.2	0.67	ug/m3			08/18/14 22:28	1
Vinyl chloride	0.51	U	0.51	0.097	ug/m3			08/18/14 22:28	1
1,3-Butadiene	0.44	U	0.44	0.093	ug/m3			08/18/14 22:28	1
Bromomethane	0.78	U	0.78	0.11	ug/m3			08/18/14 22:28	1
Chloroethane	1.3	U	1.3	0.079	ug/m3			08/18/14 22:28	1

TestAmerica Burlington

# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-23644-1  
SDG: 200-23644

**Client Sample ID: CESSNA-INDOOR-1**

**Lab Sample ID: 200-23644-2**

Date Collected: 08/12/14 07:53

Matrix: Air

Date Received: 08/14/14 10:00

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.13	ug/m3			08/18/14 22:28	1
<b>Trichlorofluoromethane</b>	<b>1.1</b>		1.1	0.17	ug/m3			08/18/14 22:28	1
<b>Freon TF</b>	<b>0.52</b>	<b>J</b>	1.5	0.14	ug/m3			08/18/14 22:28	1
1,1-Dichloroethene	0.79	U	0.79	0.095	ug/m3			08/18/14 22:28	1
<b>Acetone</b>	<b>14</b>		12	3.0	ug/m3			08/18/14 22:28	1
<b>Isopropyl alcohol</b>	<b>11</b>	<b>J</b>	12	0.53	ug/m3			08/18/14 22:28	1
Carbon disulfide	1.6	U	1.6	0.21	ug/m3			08/18/14 22:28	1
3-Chloropropene	1.6	U	1.6	0.11	ug/m3			08/18/14 22:28	1
<b>Methylene Chloride</b>	<b>0.54</b>	<b>J</b>	1.7	0.43	ug/m3			08/18/14 22:28	1
tert-Butyl alcohol	15	U	15	0.99	ug/m3			08/18/14 22:28	1
Methyl tert-butyl ether	0.72	U	0.72	0.079	ug/m3			08/18/14 22:28	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.11	ug/m3			08/18/14 22:28	1
<b>n-Hexane</b>	<b>4.7</b>		0.70	0.12	ug/m3			08/18/14 22:28	1
1,1-Dichloroethane	0.81	U	0.81	0.15	ug/m3			08/18/14 22:28	1
<b>Methyl Ethyl Ketone</b>	<b>1.6</b>		1.5	0.71	ug/m3			08/18/14 22:28	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.15	ug/m3			08/18/14 22:28	1
1,2-Dichloroethene, Total	0.79	U	0.79	0.25	ug/m3			08/18/14 22:28	1
Chloroform	0.98	U	0.98	0.12	ug/m3			08/18/14 22:28	1
Tetrahydrofuran	15	U	15	0.14	ug/m3			08/18/14 22:28	1
1,1,1-Trichloroethane	1.1	U	1.1	0.11	ug/m3			08/18/14 22:28	1
<b>Cyclohexane</b>	<b>0.66</b>	<b>J</b>	0.69	0.086	ug/m3			08/18/14 22:28	1
<b>Carbon tetrachloride</b>	<b>0.39</b>	<b>J</b>	1.3	0.13	ug/m3			08/18/14 22:28	1
<b>2,2,4-Trimethylpentane</b>	<b>1.7</b>		0.93	0.13	ug/m3			08/18/14 22:28	1
<b>Benzene</b>	<b>1.2</b>		0.64	0.061	ug/m3			08/18/14 22:28	1
1,2-Dichloroethane	0.81	U	0.81	0.069	ug/m3			08/18/14 22:28	1
<b>n-Heptane</b>	<b>1.2</b>		0.82	0.19	ug/m3			08/18/14 22:28	1
<b>Trichloroethene</b>	<b>13</b>		1.1	0.13	ug/m3			08/18/14 22:28	1
Methyl methacrylate	2.0	U	2.0	0.12	ug/m3			08/18/14 22:28	1
1,2-Dichloropropane	0.92	U	0.92	0.15	ug/m3			08/18/14 22:28	1
1,4-Dioxane	18	U	18	0.72	ug/m3			08/18/14 22:28	1
Bromodichloromethane	1.3	U	1.3	0.11	ug/m3			08/18/14 22:28	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.13	ug/m3			08/18/14 22:28	1
<b>methyl isobutyl ketone</b>	<b>2.7</b>		2.0	0.11	ug/m3			08/18/14 22:28	1
<b>Toluene</b>	<b>4.2</b>		0.75	0.064	ug/m3			08/18/14 22:28	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.10	ug/m3			08/18/14 22:28	1
1,1,2-Trichloroethane	1.1	U	1.1	0.093	ug/m3			08/18/14 22:28	1
Tetrachloroethene	1.4	U	1.4	0.11	ug/m3			08/18/14 22:28	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.82	ug/m3			08/18/14 22:28	1
Dibromochloromethane	1.7	U	1.7	0.17	ug/m3			08/18/14 22:28	1
1,2-Dibromoethane	1.5	U	1.5	0.15	ug/m3			08/18/14 22:28	1
Chlorobenzene	0.92	U	0.92	0.037	ug/m3			08/18/14 22:28	1
<b>Ethylbenzene</b>	<b>0.89</b>		0.87	0.056	ug/m3			08/18/14 22:28	1
<b>m,p-Xylene</b>	<b>3.9</b>		2.2	0.10	ug/m3			08/18/14 22:28	1
<b>Xylene, o-</b>	<b>2.0</b>		0.87	0.069	ug/m3			08/18/14 22:28	1
<b>Xylene (total)</b>	<b>6.0</b>		0.87	0.15	ug/m3			08/18/14 22:28	1
<b>Styrene</b>	<b>0.38</b>	<b>J</b>	0.85	0.077	ug/m3			08/18/14 22:28	1
Bromoform	2.1	U	2.1	0.10	ug/m3			08/18/14 22:28	1
Cumene	0.98	U	0.98	0.079	ug/m3			08/18/14 22:28	1

TestAmerica Burlington

# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-23644-1  
SDG: 200-23644

**Client Sample ID: CESSNA-INDOOR-1**

**Lab Sample ID: 200-23644-2**

Date Collected: 08/12/14 07:53

Matrix: Air

Date Received: 08/14/14 10:00

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.11	ug/m3			08/18/14 22:28	1
n-Propylbenzene	0.98	U	0.98	0.39	ug/m3			08/18/14 22:28	1
<b>4-Ethyltoluene</b>	<b>0.21</b>	<b>J</b>	0.98	0.088	ug/m3			08/18/14 22:28	1
<b>1,3,5-Trimethylbenzene</b>	<b>0.23</b>	<b>J</b>	0.98	0.059	ug/m3			08/18/14 22:28	1
2-Chlorotoluene	1.0	U	1.0	0.067	ug/m3			08/18/14 22:28	1
tert-Butylbenzene	1.1	U	1.1	0.093	ug/m3			08/18/14 22:28	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.66</b>	<b>J</b>	0.98	0.069	ug/m3			08/18/14 22:28	1
sec-Butylbenzene	1.1	U	1.1	0.44	ug/m3			08/18/14 22:28	1
4-Isopropyltoluene	1.1	U	1.1	0.44	ug/m3			08/18/14 22:28	1
1,3-Dichlorobenzene	1.2	U	1.2	0.084	ug/m3			08/18/14 22:28	1
1,4-Dichlorobenzene	1.2	U	1.2	0.084	ug/m3			08/18/14 22:28	1
Benzyl chloride	1.0	U	1.0	0.41	ug/m3			08/18/14 22:28	1
n-Butylbenzene	1.1	U	1.1	0.44	ug/m3			08/18/14 22:28	1
1,2-Dichlorobenzene	1.2	U	1.2	0.084	ug/m3			08/18/14 22:28	1
1,2,4-Trichlorobenzene	3.7	U	3.7	0.20	ug/m3			08/18/14 22:28	1
Hexachlorobutadiene	2.1	U	2.1	0.23	ug/m3			08/18/14 22:28	1
Naphthalene	2.6	U	2.6	1.0	ug/m3			08/18/14 22:28	1

**Client Sample ID: CESSNA-INDOOR-2**

**Lab Sample ID: 200-23644-3**

Date Collected: 08/12/14 07:56

Matrix: Air

Date Received: 08/14/14 10:00

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Dichlorodifluoromethane</b>	<b>0.47</b>	<b>J</b>	0.50	0.030	ppb v/v			08/18/14 23:20	1
<b>Freon 22</b>	<b>4.8</b>		0.50	0.048	ppb v/v			08/18/14 23:20	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.035	ppb v/v			08/18/14 23:20	1
<b>Chloromethane</b>	<b>0.64</b>		0.50	0.14	ppb v/v			08/18/14 23:20	1
<b>n-Butane</b>	<b>4.7</b>		0.50	0.28	ppb v/v			08/18/14 23:20	1
Vinyl chloride	0.20	U	0.20	0.038	ppb v/v			08/18/14 23:20	1
1,3-Butadiene	0.20	U	0.20	0.042	ppb v/v			08/18/14 23:20	1
Bromomethane	0.20	U	0.20	0.028	ppb v/v			08/18/14 23:20	1
Chloroethane	0.50	U	0.50	0.030	ppb v/v			08/18/14 23:20	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.030	ppb v/v			08/18/14 23:20	1
<b>Trichlorofluoromethane</b>	<b>0.21</b>		0.20	0.030	ppb v/v			08/18/14 23:20	1
<b>Freon TF</b>	<b>0.074</b>	<b>J</b>	0.20	0.018	ppb v/v			08/18/14 23:20	1
1,1-Dichloroethene	0.20	U	0.20	0.024	ppb v/v			08/18/14 23:20	1
<b>Acetone</b>	<b>6.2</b>		5.0	1.3	ppb v/v			08/18/14 23:20	1
<b>Isopropyl alcohol</b>	<b>4.9</b>	<b>J</b>	5.0	0.22	ppb v/v			08/18/14 23:20	1
<b>Carbon disulfide</b>	<b>0.091</b>	<b>J</b>	0.50	0.066	ppb v/v			08/18/14 23:20	1
3-Chloropropene	0.50	U	0.50	0.034	ppb v/v			08/18/14 23:20	1
<b>Methylene Chloride</b>	<b>0.17</b>	<b>J</b>	0.50	0.13	ppb v/v			08/18/14 23:20	1
tert-Butyl alcohol	5.0	U	5.0	0.33	ppb v/v			08/18/14 23:20	1
Methyl tert-butyl ether	0.20	U	0.20	0.022	ppb v/v			08/18/14 23:20	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.029	ppb v/v			08/18/14 23:20	1
<b>n-Hexane</b>	<b>2.0</b>		0.20	0.034	ppb v/v			08/18/14 23:20	1
1,1-Dichloroethane	0.20	U	0.20	0.038	ppb v/v			08/18/14 23:20	1
<b>Methyl Ethyl Ketone</b>	<b>0.69</b>		0.50	0.24	ppb v/v			08/18/14 23:20	1

TestAmerica Burlington

# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-23644-1  
SDG: 200-23644

**Client Sample ID: CESSNA-INDOOR-2**

**Lab Sample ID: 200-23644-3**

Date Collected: 08/12/14 07:56

Matrix: Air

Date Received: 08/14/14 10:00

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.20	U	0.20	0.038	ppb v/v			08/18/14 23:20	1
1,2-Dichloroethene, Total	0.20	U	0.20	0.064	ppb v/v			08/18/14 23:20	1
Chloroform	0.20	U	0.20	0.025	ppb v/v			08/18/14 23:20	1
Tetrahydrofuran	5.0	U	5.0	0.046	ppb v/v			08/18/14 23:20	1
1,1,1-Trichloroethane	0.20	U	0.20	0.021	ppb v/v			08/18/14 23:20	1
<b>Cyclohexane</b>	<b>0.28</b>		0.20	0.025	ppb v/v			08/18/14 23:20	1
<b>Carbon tetrachloride</b>	<b>0.070</b>	<b>J</b>	0.20	0.021	ppb v/v			08/18/14 23:20	1
<b>2,2,4-Trimethylpentane</b>	<b>0.56</b>		0.20	0.027	ppb v/v			08/18/14 23:20	1
<b>Benzene</b>	<b>0.49</b>		0.20	0.019	ppb v/v			08/18/14 23:20	1
1,2-Dichloroethane	0.20	U	0.20	0.017	ppb v/v			08/18/14 23:20	1
<b>n-Heptane</b>	<b>0.38</b>		0.20	0.046	ppb v/v			08/18/14 23:20	1
<b>Trichloroethene</b>	<b>2.9</b>		0.20	0.024	ppb v/v			08/18/14 23:20	1
Methyl methacrylate	0.50	U	0.50	0.030	ppb v/v			08/18/14 23:20	1
1,2-Dichloropropane	0.20	U	0.20	0.032	ppb v/v			08/18/14 23:20	1
1,4-Dioxane	5.0	U	5.0	0.20	ppb v/v			08/18/14 23:20	1
Bromodichloromethane	0.20	U	0.20	0.017	ppb v/v			08/18/14 23:20	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.028	ppb v/v			08/18/14 23:20	1
<b>methyl isobutyl ketone</b>	<b>0.72</b>		0.50	0.027	ppb v/v			08/18/14 23:20	1
<b>Toluene</b>	<b>1.5</b>		0.20	0.017	ppb v/v			08/18/14 23:20	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.022	ppb v/v			08/18/14 23:20	1
1,1,2-Trichloroethane	0.20	U	0.20	0.017	ppb v/v			08/18/14 23:20	1
Tetrachloroethene	0.20	U	0.20	0.016	ppb v/v			08/18/14 23:20	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.20	ppb v/v			08/18/14 23:20	1
Dibromochloromethane	0.20	U	0.20	0.020	ppb v/v			08/18/14 23:20	1
1,2-Dibromoethane	0.20	U	0.20	0.020	ppb v/v			08/18/14 23:20	1
Chlorobenzene	0.20	U	0.20	0.0081	ppb v/v			08/18/14 23:20	1
<b>Ethylbenzene</b>	<b>0.24</b>		0.20	0.013	ppb v/v			08/18/14 23:20	1
<b>m,p-Xylene</b>	<b>1.0</b>		0.50	0.023	ppb v/v			08/18/14 23:20	1
<b>Xylene, o-</b>	<b>0.50</b>		0.20	0.016	ppb v/v			08/18/14 23:20	1
<b>Xylene (total)</b>	<b>1.5</b>		0.20	0.034	ppb v/v			08/18/14 23:20	1
<b>Styrene</b>	<b>0.10</b>	<b>J</b>	0.20	0.018	ppb v/v			08/18/14 23:20	1
Bromoform	0.20	U	0.20	0.010	ppb v/v			08/18/14 23:20	1
<b>Cumene</b>	<b>0.021</b>	<b>J</b>	0.20	0.016	ppb v/v			08/18/14 23:20	1
<b>1,1,2,2-Tetrachloroethane</b>	<b>0.024</b>	<b>J</b>	0.20	0.016	ppb v/v			08/18/14 23:20	1
n-Propylbenzene	0.20	U	0.20	0.080	ppb v/v			08/18/14 23:20	1
<b>4-Ethyltoluene</b>	<b>0.049</b>	<b>J</b>	0.20	0.018	ppb v/v			08/18/14 23:20	1
<b>1,3,5-Trimethylbenzene</b>	<b>0.055</b>	<b>J</b>	0.20	0.012	ppb v/v			08/18/14 23:20	1
2-Chlorotoluene	0.20	U	0.20	0.013	ppb v/v			08/18/14 23:20	1
tert-Butylbenzene	0.20	U	0.20	0.017	ppb v/v			08/18/14 23:20	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.16</b>	<b>J</b>	0.20	0.014	ppb v/v			08/18/14 23:20	1
sec-Butylbenzene	0.20	U	0.20	0.080	ppb v/v			08/18/14 23:20	1
4-Isopropyltoluene	0.20	U	0.20	0.080	ppb v/v			08/18/14 23:20	1
1,3-Dichlorobenzene	0.20	U	0.20	0.014	ppb v/v			08/18/14 23:20	1
<b>1,4-Dichlorobenzene</b>	<b>0.015</b>	<b>J B</b>	0.20	0.014	ppb v/v			08/18/14 23:20	1
Benzyl chloride	0.20	U	0.20	0.080	ppb v/v			08/18/14 23:20	1
n-Butylbenzene	0.20	U	0.20	0.080	ppb v/v			08/18/14 23:20	1
1,2-Dichlorobenzene	0.20	U	0.20	0.014	ppb v/v			08/18/14 23:20	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.027	ppb v/v			08/18/14 23:20	1

TestAmerica Burlington



# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-23644-1  
SDG: 200-23644

**Client Sample ID: CESSNA-INDOOR-2**

**Lab Sample ID: 200-23644-3**

Date Collected: 08/12/14 07:56

Matrix: Air

Date Received: 08/14/14 10:00

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	0.20	U	0.20	0.022	ppb v/v			08/18/14 23:20	1
Naphthalene	0.50	U	0.50	0.20	ppb v/v			08/18/14 23:20	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Dichlorodifluoromethane</b>	<b>2.3</b>	<b>J</b>	2.5	0.15	ug/m3			08/18/14 23:20	1
<b>Freon 22</b>	<b>17</b>		1.8	0.17	ug/m3			08/18/14 23:20	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.24	ug/m3			08/18/14 23:20	1
<b>Chloromethane</b>	<b>1.3</b>		1.0	0.28	ug/m3			08/18/14 23:20	1
<b>n-Butane</b>	<b>11</b>		1.2	0.67	ug/m3			08/18/14 23:20	1
Vinyl chloride	0.51	U	0.51	0.097	ug/m3			08/18/14 23:20	1
1,3-Butadiene	0.44	U	0.44	0.093	ug/m3			08/18/14 23:20	1
Bromomethane	0.78	U	0.78	0.11	ug/m3			08/18/14 23:20	1
Chloroethane	1.3	U	1.3	0.079	ug/m3			08/18/14 23:20	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.13	ug/m3			08/18/14 23:20	1
<b>Trichlorofluoromethane</b>	<b>1.2</b>		1.1	0.17	ug/m3			08/18/14 23:20	1
<b>Freon TF</b>	<b>0.57</b>	<b>J</b>	1.5	0.14	ug/m3			08/18/14 23:20	1
1,1-Dichloroethene	0.79	U	0.79	0.095	ug/m3			08/18/14 23:20	1
<b>Acetone</b>	<b>15</b>		12	3.0	ug/m3			08/18/14 23:20	1
<b>Isopropyl alcohol</b>	<b>12</b>	<b>J</b>	12	0.53	ug/m3			08/18/14 23:20	1
<b>Carbon disulfide</b>	<b>0.28</b>	<b>J</b>	1.6	0.21	ug/m3			08/18/14 23:20	1
3-Chloropropene	1.6	U	1.6	0.11	ug/m3			08/18/14 23:20	1
<b>Methylene Chloride</b>	<b>0.60</b>	<b>J</b>	1.7	0.43	ug/m3			08/18/14 23:20	1
tert-Butyl alcohol	15	U	15	0.99	ug/m3			08/18/14 23:20	1
Methyl tert-butyl ether	0.72	U	0.72	0.079	ug/m3			08/18/14 23:20	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.11	ug/m3			08/18/14 23:20	1
<b>n-Hexane</b>	<b>7.1</b>		0.70	0.12	ug/m3			08/18/14 23:20	1
1,1-Dichloroethane	0.81	U	0.81	0.15	ug/m3			08/18/14 23:20	1
<b>Methyl Ethyl Ketone</b>	<b>2.0</b>		1.5	0.71	ug/m3			08/18/14 23:20	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.15	ug/m3			08/18/14 23:20	1
1,2-Dichloroethene, Total	0.79	U	0.79	0.25	ug/m3			08/18/14 23:20	1
Chloroform	0.98	U	0.98	0.12	ug/m3			08/18/14 23:20	1
Tetrahydrofuran	15	U	15	0.14	ug/m3			08/18/14 23:20	1
1,1,1-Trichloroethane	1.1	U	1.1	0.11	ug/m3			08/18/14 23:20	1
<b>Cyclohexane</b>	<b>0.98</b>		0.69	0.086	ug/m3			08/18/14 23:20	1
<b>Carbon tetrachloride</b>	<b>0.44</b>	<b>J</b>	1.3	0.13	ug/m3			08/18/14 23:20	1
<b>2,2,4-Trimethylpentane</b>	<b>2.6</b>		0.93	0.13	ug/m3			08/18/14 23:20	1
<b>Benzene</b>	<b>1.6</b>		0.64	0.061	ug/m3			08/18/14 23:20	1
1,2-Dichloroethane	0.81	U	0.81	0.069	ug/m3			08/18/14 23:20	1
<b>n-Heptane</b>	<b>1.6</b>		0.82	0.19	ug/m3			08/18/14 23:20	1
<b>Trichloroethene</b>	<b>16</b>		1.1	0.13	ug/m3			08/18/14 23:20	1
Methyl methacrylate	2.0	U	2.0	0.12	ug/m3			08/18/14 23:20	1
1,2-Dichloropropane	0.92	U	0.92	0.15	ug/m3			08/18/14 23:20	1
1,4-Dioxane	18	U	18	0.72	ug/m3			08/18/14 23:20	1
Bromodichloromethane	1.3	U	1.3	0.11	ug/m3			08/18/14 23:20	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.13	ug/m3			08/18/14 23:20	1
<b>methyl isobutyl ketone</b>	<b>3.0</b>		2.0	0.11	ug/m3			08/18/14 23:20	1
<b>Toluene</b>	<b>5.7</b>		0.75	0.064	ug/m3			08/18/14 23:20	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.10	ug/m3			08/18/14 23:20	1
1,1,2-Trichloroethane	1.1	U	1.1	0.093	ug/m3			08/18/14 23:20	1

TestAmerica Burlington



# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-23644-1  
SDG: 200-23644

**Client Sample ID: CESSNA-INDOOR-2**

**Lab Sample ID: 200-23644-3**

Date Collected: 08/12/14 07:56

Matrix: Air

Date Received: 08/14/14 10:00

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.4	U	1.4	0.11	ug/m3			08/18/14 23:20	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.82	ug/m3			08/18/14 23:20	1
Dibromochloromethane	1.7	U	1.7	0.17	ug/m3			08/18/14 23:20	1
1,2-Dibromoethane	1.5	U	1.5	0.15	ug/m3			08/18/14 23:20	1
Chlorobenzene	0.92	U	0.92	0.037	ug/m3			08/18/14 23:20	1
<b>Ethylbenzene</b>	<b>1.0</b>		0.87	0.056	ug/m3			08/18/14 23:20	1
<b>m,p-Xylene</b>	<b>4.3</b>		2.2	0.10	ug/m3			08/18/14 23:20	1
<b>Xylene, o-</b>	<b>2.2</b>		0.87	0.069	ug/m3			08/18/14 23:20	1
<b>Xylene (total)</b>	<b>6.5</b>		0.87	0.15	ug/m3			08/18/14 23:20	1
<b>Styrene</b>	<b>0.44</b>	<b>J</b>	0.85	0.077	ug/m3			08/18/14 23:20	1
Bromoform	2.1	U	2.1	0.10	ug/m3			08/18/14 23:20	1
<b>Cumene</b>	<b>0.10</b>	<b>J</b>	0.98	0.079	ug/m3			08/18/14 23:20	1
<b>1,1,1,2-Tetrachloroethane</b>	<b>0.16</b>	<b>J</b>	1.4	0.11	ug/m3			08/18/14 23:20	1
n-Propylbenzene	0.98	U	0.98	0.39	ug/m3			08/18/14 23:20	1
<b>4-Ethyltoluene</b>	<b>0.24</b>	<b>J</b>	0.98	0.088	ug/m3			08/18/14 23:20	1
<b>1,3,5-Trimethylbenzene</b>	<b>0.27</b>	<b>J</b>	0.98	0.059	ug/m3			08/18/14 23:20	1
2-Chlorotoluene	1.0	U	1.0	0.067	ug/m3			08/18/14 23:20	1
tert-Butylbenzene	1.1	U	1.1	0.093	ug/m3			08/18/14 23:20	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.77</b>	<b>J</b>	0.98	0.069	ug/m3			08/18/14 23:20	1
sec-Butylbenzene	1.1	U	1.1	0.44	ug/m3			08/18/14 23:20	1
4-Isopropyltoluene	1.1	U	1.1	0.44	ug/m3			08/18/14 23:20	1
1,3-Dichlorobenzene	1.2	U	1.2	0.084	ug/m3			08/18/14 23:20	1
<b>1,4-Dichlorobenzene</b>	<b>0.089</b>	<b>J B</b>	1.2	0.084	ug/m3			08/18/14 23:20	1
Benzyl chloride	1.0	U	1.0	0.41	ug/m3			08/18/14 23:20	1
n-Butylbenzene	1.1	U	1.1	0.44	ug/m3			08/18/14 23:20	1
1,2-Dichlorobenzene	1.2	U	1.2	0.084	ug/m3			08/18/14 23:20	1
1,2,4-Trichlorobenzene	3.7	U	3.7	0.20	ug/m3			08/18/14 23:20	1
Hexachlorobutadiene	2.1	U	2.1	0.23	ug/m3			08/18/14 23:20	1
Naphthalene	2.6	U	2.6	1.0	ug/m3			08/18/14 23:20	1

**Client Sample ID: CESSNA-INDOOR-3**

**Lab Sample ID: 200-23644-4**

Date Collected: 08/12/14 07:57

Matrix: Air

Date Received: 08/14/14 10:00

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Dichlorodifluoromethane</b>	<b>0.47</b>	<b>J</b>	0.50	0.030	ppb v/v			08/19/14 00:10	1
<b>Freon 22</b>	<b>5.2</b>		0.50	0.048	ppb v/v			08/19/14 00:10	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.035	ppb v/v			08/19/14 00:10	1
<b>Chloromethane</b>	<b>0.89</b>		0.50	0.14	ppb v/v			08/19/14 00:10	1
<b>n-Butane</b>	<b>2.8</b>		0.50	0.28	ppb v/v			08/19/14 00:10	1
Vinyl chloride	0.20	U	0.20	0.038	ppb v/v			08/19/14 00:10	1
1,3-Butadiene	0.20	U	0.20	0.042	ppb v/v			08/19/14 00:10	1
Bromomethane	0.20	U	0.20	0.028	ppb v/v			08/19/14 00:10	1
<b>Chloroethane</b>	<b>0.16</b>	<b>J</b>	0.50	0.030	ppb v/v			08/19/14 00:10	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.030	ppb v/v			08/19/14 00:10	1
<b>Trichlorofluoromethane</b>	<b>0.22</b>		0.20	0.030	ppb v/v			08/19/14 00:10	1
<b>Freon TF</b>	<b>0.078</b>	<b>J</b>	0.20	0.018	ppb v/v			08/19/14 00:10	1

TestAmerica Burlington

# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-23644-1  
SDG: 200-23644

**Client Sample ID: CESSNA-INDOOR-3**

**Lab Sample ID: 200-23644-4**

Date Collected: 08/12/14 07:57

Matrix: Air

Date Received: 08/14/14 10:00

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.20	U	0.20	0.024	ppb v/v			08/19/14 00:10	1
<b>Acetone</b>	<b>11</b>		5.0	1.3	ppb v/v			08/19/14 00:10	1
<b>Isopropyl alcohol</b>	<b>4.2</b>	<b>J</b>	5.0	0.22	ppb v/v			08/19/14 00:10	1
<b>Carbon disulfide</b>	<b>1.4</b>		0.50	0.066	ppb v/v			08/19/14 00:10	1
3-Chloropropene	0.50	U	0.50	0.034	ppb v/v			08/19/14 00:10	1
Methylene Chloride	0.50	U	0.50	0.13	ppb v/v			08/19/14 00:10	1
tert-Butyl alcohol	5.0	U	5.0	0.33	ppb v/v			08/19/14 00:10	1
Methyl tert-butyl ether	0.20	U	0.20	0.022	ppb v/v			08/19/14 00:10	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.029	ppb v/v			08/19/14 00:10	1
<b>n-Hexane</b>	<b>1.4</b>		0.20	0.034	ppb v/v			08/19/14 00:10	1
1,1-Dichloroethane	0.20	U	0.20	0.038	ppb v/v			08/19/14 00:10	1
<b>Methyl Ethyl Ketone</b>	<b>1.3</b>		0.50	0.24	ppb v/v			08/19/14 00:10	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.038	ppb v/v			08/19/14 00:10	1
1,2-Dichloroethene, Total	0.20	U	0.20	0.064	ppb v/v			08/19/14 00:10	1
Chloroform	0.20	U	0.20	0.025	ppb v/v			08/19/14 00:10	1
Tetrahydrofuran	5.0	U	5.0	0.046	ppb v/v			08/19/14 00:10	1
1,1,1-Trichloroethane	0.20	U	0.20	0.021	ppb v/v			08/19/14 00:10	1
<b>Cyclohexane</b>	<b>0.14</b>	<b>J</b>	0.20	0.025	ppb v/v			08/19/14 00:10	1
<b>Carbon tetrachloride</b>	<b>0.062</b>	<b>J</b>	0.20	0.021	ppb v/v			08/19/14 00:10	1
<b>2,2,4-Trimethylpentane</b>	<b>0.37</b>		0.20	0.027	ppb v/v			08/19/14 00:10	1
<b>Benzene</b>	<b>1.0</b>		0.20	0.019	ppb v/v			08/19/14 00:10	1
1,2-Dichloroethane	0.20	U	0.20	0.017	ppb v/v			08/19/14 00:10	1
<b>n-Heptane</b>	<b>0.26</b>		0.20	0.046	ppb v/v			08/19/14 00:10	1
<b>Trichloroethene</b>	<b>2.5</b>		0.20	0.024	ppb v/v			08/19/14 00:10	1
Methyl methacrylate	0.50	U	0.50	0.030	ppb v/v			08/19/14 00:10	1
1,2-Dichloropropane	0.20	U	0.20	0.032	ppb v/v			08/19/14 00:10	1
1,4-Dioxane	5.0	U	5.0	0.20	ppb v/v			08/19/14 00:10	1
Bromodichloromethane	0.20	U	0.20	0.017	ppb v/v			08/19/14 00:10	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.028	ppb v/v			08/19/14 00:10	1
<b>methyl isobutyl ketone</b>	<b>0.60</b>		0.50	0.027	ppb v/v			08/19/14 00:10	1
<b>Toluene</b>	<b>1.3</b>		0.20	0.017	ppb v/v			08/19/14 00:10	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.022	ppb v/v			08/19/14 00:10	1
1,1,2-Trichloroethane	0.20	U	0.20	0.017	ppb v/v			08/19/14 00:10	1
Tetrachloroethene	0.20	U	0.20	0.016	ppb v/v			08/19/14 00:10	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.20	ppb v/v			08/19/14 00:10	1
Dibromochloromethane	0.20	U	0.20	0.020	ppb v/v			08/19/14 00:10	1
1,2-Dibromoethane	0.20	U	0.20	0.020	ppb v/v			08/19/14 00:10	1
Chlorobenzene	0.20	U	0.20	0.0081	ppb v/v			08/19/14 00:10	1
<b>Ethylbenzene</b>	<b>0.19</b>	<b>J</b>	0.20	0.013	ppb v/v			08/19/14 00:10	1
<b>m,p-Xylene</b>	<b>0.82</b>		0.50	0.023	ppb v/v			08/19/14 00:10	1
<b>Xylene, o-</b>	<b>0.42</b>		0.20	0.016	ppb v/v			08/19/14 00:10	1
<b>Xylene (total)</b>	<b>1.2</b>		0.20	0.034	ppb v/v			08/19/14 00:10	1
<b>Styrene</b>	<b>0.080</b>	<b>J</b>	0.20	0.018	ppb v/v			08/19/14 00:10	1
Bromoform	0.20	U	0.20	0.010	ppb v/v			08/19/14 00:10	1
Cumene	0.20	U	0.20	0.016	ppb v/v			08/19/14 00:10	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.016	ppb v/v			08/19/14 00:10	1
n-Propylbenzene	0.20	U	0.20	0.080	ppb v/v			08/19/14 00:10	1
<b>4-Ethyltoluene</b>	<b>0.021</b>	<b>J</b>	0.20	0.018	ppb v/v			08/19/14 00:10	1

TestAmerica Burlington

# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-23644-1  
SDG: 200-23644

**Client Sample ID: CESSNA-INDOOR-3**

**Lab Sample ID: 200-23644-4**

Date Collected: 08/12/14 07:57

Matrix: Air

Date Received: 08/14/14 10:00

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,3,5-Trimethylbenzene</b>	<b>0.025</b>	<b>J</b>	0.20	0.012	ppb v/v			08/19/14 00:10	1
2-Chlorotoluene	0.20	U	0.20	0.013	ppb v/v			08/19/14 00:10	1
tert-Butylbenzene	0.20	U	0.20	0.017	ppb v/v			08/19/14 00:10	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.065</b>	<b>J</b>	0.20	0.014	ppb v/v			08/19/14 00:10	1
sec-Butylbenzene	0.20	U	0.20	0.080	ppb v/v			08/19/14 00:10	1
4-Isopropyltoluene	0.20	U	0.20	0.080	ppb v/v			08/19/14 00:10	1
1,3-Dichlorobenzene	0.20	U	0.20	0.014	ppb v/v			08/19/14 00:10	1
1,4-Dichlorobenzene	0.20	U	0.20	0.014	ppb v/v			08/19/14 00:10	1
Benzyl chloride	0.20	U	0.20	0.080	ppb v/v			08/19/14 00:10	1
n-Butylbenzene	0.20	U	0.20	0.080	ppb v/v			08/19/14 00:10	1
1,2-Dichlorobenzene	0.20	U	0.20	0.014	ppb v/v			08/19/14 00:10	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.027	ppb v/v			08/19/14 00:10	1
Hexachlorobutadiene	0.20	U	0.20	0.022	ppb v/v			08/19/14 00:10	1
Naphthalene	0.50	U	0.50	0.20	ppb v/v			08/19/14 00:10	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Dichlorodifluoromethane</b>	<b>2.3</b>	<b>J</b>	2.5	0.15	ug/m3			08/19/14 00:10	1
<b>Freon 22</b>	<b>18</b>		1.8	0.17	ug/m3			08/19/14 00:10	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.24	ug/m3			08/19/14 00:10	1
<b>Chloromethane</b>	<b>1.8</b>		1.0	0.28	ug/m3			08/19/14 00:10	1
<b>n-Butane</b>	<b>6.7</b>		1.2	0.67	ug/m3			08/19/14 00:10	1
Vinyl chloride	0.51	U	0.51	0.097	ug/m3			08/19/14 00:10	1
1,3-Butadiene	0.44	U	0.44	0.093	ug/m3			08/19/14 00:10	1
Bromomethane	0.78	U	0.78	0.11	ug/m3			08/19/14 00:10	1
<b>Chloroethane</b>	<b>0.43</b>	<b>J</b>	1.3	0.079	ug/m3			08/19/14 00:10	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.13	ug/m3			08/19/14 00:10	1
<b>Trichlorofluoromethane</b>	<b>1.2</b>		1.1	0.17	ug/m3			08/19/14 00:10	1
<b>Freon TF</b>	<b>0.60</b>	<b>J</b>	1.5	0.14	ug/m3			08/19/14 00:10	1
1,1-Dichloroethene	0.79	U	0.79	0.095	ug/m3			08/19/14 00:10	1
<b>Acetone</b>	<b>27</b>		12	3.0	ug/m3			08/19/14 00:10	1
<b>Isopropyl alcohol</b>	<b>10</b>	<b>J</b>	12	0.53	ug/m3			08/19/14 00:10	1
<b>Carbon disulfide</b>	<b>4.2</b>		1.6	0.21	ug/m3			08/19/14 00:10	1
3-Chloropropene	1.6	U	1.6	0.11	ug/m3			08/19/14 00:10	1
Methylene Chloride	1.7	U	1.7	0.43	ug/m3			08/19/14 00:10	1
tert-Butyl alcohol	15	U	15	0.99	ug/m3			08/19/14 00:10	1
Methyl tert-butyl ether	0.72	U	0.72	0.079	ug/m3			08/19/14 00:10	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.11	ug/m3			08/19/14 00:10	1
<b>n-Hexane</b>	<b>4.9</b>		0.70	0.12	ug/m3			08/19/14 00:10	1
1,1-Dichloroethane	0.81	U	0.81	0.15	ug/m3			08/19/14 00:10	1
<b>Methyl Ethyl Ketone</b>	<b>3.8</b>		1.5	0.71	ug/m3			08/19/14 00:10	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.15	ug/m3			08/19/14 00:10	1
1,2-Dichloroethene, Total	0.79	U	0.79	0.25	ug/m3			08/19/14 00:10	1
Chloroform	0.98	U	0.98	0.12	ug/m3			08/19/14 00:10	1
Tetrahydrofuran	15	U	15	0.14	ug/m3			08/19/14 00:10	1
1,1,1-Trichloroethane	1.1	U	1.1	0.11	ug/m3			08/19/14 00:10	1
<b>Cyclohexane</b>	<b>0.49</b>	<b>J</b>	0.69	0.086	ug/m3			08/19/14 00:10	1
<b>Carbon tetrachloride</b>	<b>0.39</b>	<b>J</b>	1.3	0.13	ug/m3			08/19/14 00:10	1
<b>2,2,4-Trimethylpentane</b>	<b>1.8</b>		0.93	0.13	ug/m3			08/19/14 00:10	1
<b>Benzene</b>	<b>3.3</b>		0.64	0.061	ug/m3			08/19/14 00:10	1

TestAmerica Burlington

# Client Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-23644-1  
SDG: 200-23644

**Client Sample ID: CESSNA-INDOOR-3**

**Lab Sample ID: 200-23644-4**

Date Collected: 08/12/14 07:57

Matrix: Air

Date Received: 08/14/14 10:00

Sample Container: Summa Canister 6L

**Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	0.81	U	0.81	0.069	ug/m3			08/19/14 00:10	1
<b>n-Heptane</b>	<b>1.1</b>		0.82	0.19	ug/m3			08/19/14 00:10	1
<b>Trichloroethene</b>	<b>14</b>		1.1	0.13	ug/m3			08/19/14 00:10	1
Methyl methacrylate	2.0	U	2.0	0.12	ug/m3			08/19/14 00:10	1
1,2-Dichloropropane	0.92	U	0.92	0.15	ug/m3			08/19/14 00:10	1
1,4-Dioxane	18	U	18	0.72	ug/m3			08/19/14 00:10	1
Bromodichloromethane	1.3	U	1.3	0.11	ug/m3			08/19/14 00:10	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.13	ug/m3			08/19/14 00:10	1
<b>methyl isobutyl ketone</b>	<b>2.5</b>		2.0	0.11	ug/m3			08/19/14 00:10	1
<b>Toluene</b>	<b>4.7</b>		0.75	0.064	ug/m3			08/19/14 00:10	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.10	ug/m3			08/19/14 00:10	1
1,1,2-Trichloroethane	1.1	U	1.1	0.093	ug/m3			08/19/14 00:10	1
Tetrachloroethene	1.4	U	1.4	0.11	ug/m3			08/19/14 00:10	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.82	ug/m3			08/19/14 00:10	1
Dibromochloromethane	1.7	U	1.7	0.17	ug/m3			08/19/14 00:10	1
1,2-Dibromoethane	1.5	U	1.5	0.15	ug/m3			08/19/14 00:10	1
Chlorobenzene	0.92	U	0.92	0.037	ug/m3			08/19/14 00:10	1
<b>Ethylbenzene</b>	<b>0.82</b>	<b>J</b>	0.87	0.056	ug/m3			08/19/14 00:10	1
<b>m,p-Xylene</b>	<b>3.5</b>		2.2	0.10	ug/m3			08/19/14 00:10	1
<b>Xylene, o-</b>	<b>1.8</b>		0.87	0.069	ug/m3			08/19/14 00:10	1
<b>Xylene (total)</b>	<b>5.4</b>		0.87	0.15	ug/m3			08/19/14 00:10	1
<b>Styrene</b>	<b>0.34</b>	<b>J</b>	0.85	0.077	ug/m3			08/19/14 00:10	1
Bromoform	2.1	U	2.1	0.10	ug/m3			08/19/14 00:10	1
Cumene	0.98	U	0.98	0.079	ug/m3			08/19/14 00:10	1
1,1,1,2-Tetrachloroethane	1.4	U	1.4	0.11	ug/m3			08/19/14 00:10	1
n-Propylbenzene	0.98	U	0.98	0.39	ug/m3			08/19/14 00:10	1
<b>4-Ethyltoluene</b>	<b>0.10</b>	<b>J</b>	0.98	0.088	ug/m3			08/19/14 00:10	1
<b>1,3,5-Trimethylbenzene</b>	<b>0.13</b>	<b>J</b>	0.98	0.059	ug/m3			08/19/14 00:10	1
2-Chlorotoluene	1.0	U	1.0	0.067	ug/m3			08/19/14 00:10	1
tert-Butylbenzene	1.1	U	1.1	0.093	ug/m3			08/19/14 00:10	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.32</b>	<b>J</b>	0.98	0.069	ug/m3			08/19/14 00:10	1
sec-Butylbenzene	1.1	U	1.1	0.44	ug/m3			08/19/14 00:10	1
4-Isopropyltoluene	1.1	U	1.1	0.44	ug/m3			08/19/14 00:10	1
1,3-Dichlorobenzene	1.2	U	1.2	0.084	ug/m3			08/19/14 00:10	1
1,4-Dichlorobenzene	1.2	U	1.2	0.084	ug/m3			08/19/14 00:10	1
Benzyl chloride	1.0	U	1.0	0.41	ug/m3			08/19/14 00:10	1
n-Butylbenzene	1.1	U	1.1	0.44	ug/m3			08/19/14 00:10	1
1,2-Dichlorobenzene	1.2	U	1.2	0.084	ug/m3			08/19/14 00:10	1
1,2,4-Trichlorobenzene	3.7	U	3.7	0.20	ug/m3			08/19/14 00:10	1
Hexachlorobutadiene	2.1	U	2.1	0.23	ug/m3			08/19/14 00:10	1
Naphthalene	2.6	U	2.6	1.0	ug/m3			08/19/14 00:10	1

# QC Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-23644-1  
SDG: 200-23644

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

**Lab Sample ID: MB 200-76179/6**

**Matrix: Air**

**Analysis Batch: 76179**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.50	U	0.50	0.030	ppb v/v			08/18/14 13:53	1
Freon 22	0.50	U	0.50	0.048	ppb v/v			08/18/14 13:53	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.035	ppb v/v			08/18/14 13:53	1
Chloromethane	0.50	U	0.50	0.14	ppb v/v			08/18/14 13:53	1
n-Butane	0.50	U	0.50	0.28	ppb v/v			08/18/14 13:53	1
Vinyl chloride	0.20	U	0.20	0.038	ppb v/v			08/18/14 13:53	1
1,3-Butadiene	0.20	U	0.20	0.042	ppb v/v			08/18/14 13:53	1
Bromomethane	0.20	U	0.20	0.028	ppb v/v			08/18/14 13:53	1
Chloroethane	0.50	U	0.50	0.030	ppb v/v			08/18/14 13:53	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.030	ppb v/v			08/18/14 13:53	1
Trichlorofluoromethane	0.20	U	0.20	0.030	ppb v/v			08/18/14 13:53	1
Freon TF	0.20	U	0.20	0.018	ppb v/v			08/18/14 13:53	1
1,1-Dichloroethene	0.20	U	0.20	0.024	ppb v/v			08/18/14 13:53	1
Acetone	5.0	U	5.0	1.3	ppb v/v			08/18/14 13:53	1
Isopropyl alcohol	5.0	U	5.0	0.22	ppb v/v			08/18/14 13:53	1
Carbon disulfide	0.50	U	0.50	0.066	ppb v/v			08/18/14 13:53	1
3-Chloropropene	0.50	U	0.50	0.034	ppb v/v			08/18/14 13:53	1
Methylene Chloride	0.50	U	0.50	0.13	ppb v/v			08/18/14 13:53	1
tert-Butyl alcohol	5.0	U	5.0	0.33	ppb v/v			08/18/14 13:53	1
Methyl tert-butyl ether	0.20	U	0.20	0.022	ppb v/v			08/18/14 13:53	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.029	ppb v/v			08/18/14 13:53	1
n-Hexane	0.20	U	0.20	0.034	ppb v/v			08/18/14 13:53	1
1,1-Dichloroethane	0.20	U	0.20	0.038	ppb v/v			08/18/14 13:53	1
Methyl Ethyl Ketone	0.50	U	0.50	0.24	ppb v/v			08/18/14 13:53	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.038	ppb v/v			08/18/14 13:53	1
1,2-Dichloroethene, Total	0.20	U	0.20	0.064	ppb v/v			08/18/14 13:53	1
Chloroform	0.20	U	0.20	0.025	ppb v/v			08/18/14 13:53	1
Tetrahydrofuran	5.0	U	5.0	0.046	ppb v/v			08/18/14 13:53	1
1,1,1-Trichloroethane	0.20	U	0.20	0.021	ppb v/v			08/18/14 13:53	1
Cyclohexane	0.20	U	0.20	0.025	ppb v/v			08/18/14 13:53	1
Carbon tetrachloride	0.20	U	0.20	0.021	ppb v/v			08/18/14 13:53	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.027	ppb v/v			08/18/14 13:53	1
Benzene	0.20	U	0.20	0.019	ppb v/v			08/18/14 13:53	1
1,2-Dichloroethane	0.20	U	0.20	0.017	ppb v/v			08/18/14 13:53	1
n-Heptane	0.20	U	0.20	0.046	ppb v/v			08/18/14 13:53	1
Trichloroethene	0.20	U	0.20	0.024	ppb v/v			08/18/14 13:53	1
Methyl methacrylate	0.50	U	0.50	0.030	ppb v/v			08/18/14 13:53	1
1,2-Dichloropropane	0.20	U	0.20	0.032	ppb v/v			08/18/14 13:53	1
1,4-Dioxane	5.0	U	5.0	0.20	ppb v/v			08/18/14 13:53	1
Bromodichloromethane	0.20	U	0.20	0.017	ppb v/v			08/18/14 13:53	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.028	ppb v/v			08/18/14 13:53	1
methyl isobutyl ketone	0.50	U	0.50	0.027	ppb v/v			08/18/14 13:53	1
Toluene	0.20	U	0.20	0.017	ppb v/v			08/18/14 13:53	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.022	ppb v/v			08/18/14 13:53	1
1,1,2-Trichloroethane	0.20	U	0.20	0.017	ppb v/v			08/18/14 13:53	1
Tetrachloroethene	0.20	U	0.20	0.016	ppb v/v			08/18/14 13:53	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.20	ppb v/v			08/18/14 13:53	1
Dibromochloromethane	0.20	U	0.20	0.020	ppb v/v			08/18/14 13:53	1

TestAmerica Burlington

# QC Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-23644-1  
SDG: 200-23644

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-76179/6**

**Matrix: Air**

**Analysis Batch: 76179**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2-Dibromoethane	0.20	U	0.20	0.020	ppb v/v			08/18/14 13:53	1
Chlorobenzene	0.20	U	0.20	0.0081	ppb v/v			08/18/14 13:53	1
Ethylbenzene	0.20	U	0.20	0.013	ppb v/v			08/18/14 13:53	1
m,p-Xylene	0.50	U	0.50	0.023	ppb v/v			08/18/14 13:53	1
Xylene, o-	0.20	U	0.20	0.016	ppb v/v			08/18/14 13:53	1
Xylene (total)	0.20	U	0.20	0.034	ppb v/v			08/18/14 13:53	1
Styrene	0.20	U	0.20	0.018	ppb v/v			08/18/14 13:53	1
Bromoform	0.20	U	0.20	0.010	ppb v/v			08/18/14 13:53	1
Cumene	0.20	U	0.20	0.016	ppb v/v			08/18/14 13:53	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.016	ppb v/v			08/18/14 13:53	1
n-Propylbenzene	0.20	U	0.20	0.080	ppb v/v			08/18/14 13:53	1
4-Ethyltoluene	0.20	U	0.20	0.018	ppb v/v			08/18/14 13:53	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.012	ppb v/v			08/18/14 13:53	1
2-Chlorotoluene	0.20	U	0.20	0.013	ppb v/v			08/18/14 13:53	1
tert-Butylbenzene	0.20	U	0.20	0.017	ppb v/v			08/18/14 13:53	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.014	ppb v/v			08/18/14 13:53	1
sec-Butylbenzene	0.20	U	0.20	0.080	ppb v/v			08/18/14 13:53	1
4-Isopropyltoluene	0.20	U	0.20	0.080	ppb v/v			08/18/14 13:53	1
1,3-Dichlorobenzene	0.20	U	0.20	0.014	ppb v/v			08/18/14 13:53	1
1,4-Dichlorobenzene	0.0184	J	0.20	0.014	ppb v/v			08/18/14 13:53	1
Benzyl chloride	0.20	U	0.20	0.080	ppb v/v			08/18/14 13:53	1
n-Butylbenzene	0.20	U	0.20	0.080	ppb v/v			08/18/14 13:53	1
1,2-Dichlorobenzene	0.0155	J	0.20	0.014	ppb v/v			08/18/14 13:53	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.027	ppb v/v			08/18/14 13:53	1
Hexachlorobutadiene	0.20	U	0.20	0.022	ppb v/v			08/18/14 13:53	1
Naphthalene	0.50	U	0.50	0.20	ppb v/v			08/18/14 13:53	1

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Dichlorodifluoromethane	2.5	U	2.5	0.15	ug/m3			08/18/14 13:53	1
Freon 22	1.8	U	1.8	0.17	ug/m3			08/18/14 13:53	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.24	ug/m3			08/18/14 13:53	1
Chloromethane	1.0	U	1.0	0.28	ug/m3			08/18/14 13:53	1
n-Butane	1.2	U	1.2	0.67	ug/m3			08/18/14 13:53	1
Vinyl chloride	0.51	U	0.51	0.097	ug/m3			08/18/14 13:53	1
1,3-Butadiene	0.44	U	0.44	0.093	ug/m3			08/18/14 13:53	1
Bromomethane	0.78	U	0.78	0.11	ug/m3			08/18/14 13:53	1
Chloroethane	1.3	U	1.3	0.079	ug/m3			08/18/14 13:53	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.13	ug/m3			08/18/14 13:53	1
Trichlorofluoromethane	1.1	U	1.1	0.17	ug/m3			08/18/14 13:53	1
Freon TF	1.5	U	1.5	0.14	ug/m3			08/18/14 13:53	1
1,1-Dichloroethene	0.79	U	0.79	0.095	ug/m3			08/18/14 13:53	1
Acetone	12	U	12	3.0	ug/m3			08/18/14 13:53	1
Isopropyl alcohol	12	U	12	0.53	ug/m3			08/18/14 13:53	1
Carbon disulfide	1.6	U	1.6	0.21	ug/m3			08/18/14 13:53	1
3-Chloropropene	1.6	U	1.6	0.11	ug/m3			08/18/14 13:53	1
Methylene Chloride	1.7	U	1.7	0.43	ug/m3			08/18/14 13:53	1
tert-Butyl alcohol	15	U	15	0.99	ug/m3			08/18/14 13:53	1
Methyl tert-butyl ether	0.72	U	0.72	0.079	ug/m3			08/18/14 13:53	1

TestAmerica Burlington

# QC Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-23644-1  
SDG: 200-23644

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-76179/6**

**Matrix: Air**

**Analysis Batch: 76179**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
trans-1,2-Dichloroethene	0.79	U	0.79	0.11	ug/m3			08/18/14 13:53	1
n-Hexane	0.70	U	0.70	0.12	ug/m3			08/18/14 13:53	1
1,1-Dichloroethane	0.81	U	0.81	0.15	ug/m3			08/18/14 13:53	1
Methyl Ethyl Ketone	1.5	U	1.5	0.71	ug/m3			08/18/14 13:53	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.15	ug/m3			08/18/14 13:53	1
1,2-Dichloroethene, Total	0.79	U	0.79	0.25	ug/m3			08/18/14 13:53	1
Chloroform	0.98	U	0.98	0.12	ug/m3			08/18/14 13:53	1
Tetrahydrofuran	15	U	15	0.14	ug/m3			08/18/14 13:53	1
1,1,1-Trichloroethane	1.1	U	1.1	0.11	ug/m3			08/18/14 13:53	1
Cyclohexane	0.69	U	0.69	0.086	ug/m3			08/18/14 13:53	1
Carbon tetrachloride	1.3	U	1.3	0.13	ug/m3			08/18/14 13:53	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.13	ug/m3			08/18/14 13:53	1
Benzene	0.64	U	0.64	0.061	ug/m3			08/18/14 13:53	1
1,2-Dichloroethane	0.81	U	0.81	0.069	ug/m3			08/18/14 13:53	1
n-Heptane	0.82	U	0.82	0.19	ug/m3			08/18/14 13:53	1
Trichloroethene	1.1	U	1.1	0.13	ug/m3			08/18/14 13:53	1
Methyl methacrylate	2.0	U	2.0	0.12	ug/m3			08/18/14 13:53	1
1,2-Dichloropropane	0.92	U	0.92	0.15	ug/m3			08/18/14 13:53	1
1,4-Dioxane	18	U	18	0.72	ug/m3			08/18/14 13:53	1
Bromodichloromethane	1.3	U	1.3	0.11	ug/m3			08/18/14 13:53	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.13	ug/m3			08/18/14 13:53	1
methyl isobutyl ketone	2.0	U	2.0	0.11	ug/m3			08/18/14 13:53	1
Toluene	0.75	U	0.75	0.064	ug/m3			08/18/14 13:53	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.10	ug/m3			08/18/14 13:53	1
1,1,2-Trichloroethane	1.1	U	1.1	0.093	ug/m3			08/18/14 13:53	1
Tetrachloroethene	1.4	U	1.4	0.11	ug/m3			08/18/14 13:53	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.82	ug/m3			08/18/14 13:53	1
Dibromochloromethane	1.7	U	1.7	0.17	ug/m3			08/18/14 13:53	1
1,2-Dibromoethane	1.5	U	1.5	0.15	ug/m3			08/18/14 13:53	1
Chlorobenzene	0.92	U	0.92	0.037	ug/m3			08/18/14 13:53	1
Ethylbenzene	0.87	U	0.87	0.056	ug/m3			08/18/14 13:53	1
m,p-Xylene	2.2	U	2.2	0.10	ug/m3			08/18/14 13:53	1
Xylene, o-	0.87	U	0.87	0.069	ug/m3			08/18/14 13:53	1
Xylene (total)	0.87	U	0.87	0.15	ug/m3			08/18/14 13:53	1
Styrene	0.85	U	0.85	0.077	ug/m3			08/18/14 13:53	1
Bromoform	2.1	U	2.1	0.10	ug/m3			08/18/14 13:53	1
Cumene	0.98	U	0.98	0.079	ug/m3			08/18/14 13:53	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.11	ug/m3			08/18/14 13:53	1
n-Propylbenzene	0.98	U	0.98	0.39	ug/m3			08/18/14 13:53	1
4-Ethyltoluene	0.98	U	0.98	0.088	ug/m3			08/18/14 13:53	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.059	ug/m3			08/18/14 13:53	1
2-Chlorotoluene	1.0	U	1.0	0.067	ug/m3			08/18/14 13:53	1
tert-Butylbenzene	1.1	U	1.1	0.093	ug/m3			08/18/14 13:53	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.069	ug/m3			08/18/14 13:53	1
sec-Butylbenzene	1.1	U	1.1	0.44	ug/m3			08/18/14 13:53	1
4-Isopropyltoluene	1.1	U	1.1	0.44	ug/m3			08/18/14 13:53	1
1,3-Dichlorobenzene	1.2	U	1.2	0.084	ug/m3			08/18/14 13:53	1
1,4-Dichlorobenzene	0.111	J	1.2	0.084	ug/m3			08/18/14 13:53	1

TestAmerica Burlington



# QC Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-23644-1  
SDG: 200-23644

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-76179/6**

**Matrix: Air**

**Analysis Batch: 76179**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzyl chloride	1.0	U	1.0	0.41	ug/m3			08/18/14 13:53	1
n-Butylbenzene	1.1	U	1.1	0.44	ug/m3			08/18/14 13:53	1
1,2-Dichlorobenzene	0.0930	J	1.2	0.084	ug/m3			08/18/14 13:53	1
1,2,4-Trichlorobenzene	3.7	U	3.7	0.20	ug/m3			08/18/14 13:53	1
Hexachlorobutadiene	2.1	U	2.1	0.23	ug/m3			08/18/14 13:53	1
Naphthalene	2.6	U	2.6	1.0	ug/m3			08/18/14 13:53	1

**Lab Sample ID: LCS 200-76179/5**

**Matrix: Air**

**Analysis Batch: 76179**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Dichlorodifluoromethane	10.0	9.05		ppb v/v		90	70 - 130
Freon 22	10.0	9.07		ppb v/v		91	70 - 130
1,2-Dichlorotetrafluoroethane	10.0	10.3		ppb v/v		103	70 - 130
Chloromethane	10.0	8.83		ppb v/v		88	70 - 130
n-Butane	10.0	9.16		ppb v/v		92	70 - 130
Vinyl chloride	10.0	8.74		ppb v/v		87	70 - 130
1,3-Butadiene	10.0	9.17		ppb v/v		92	70 - 130
Bromomethane	10.0	8.86		ppb v/v		89	70 - 130
Chloroethane	10.0	8.89		ppb v/v		89	70 - 130
Bromoethene(Vinyl Bromide)	10.0	9.84		ppb v/v		98	70 - 130
Trichlorofluoromethane	10.0	9.17		ppb v/v		92	70 - 130
Freon TF	10.0	9.78		ppb v/v		98	70 - 130
1,1-Dichloroethene	10.0	10.2		ppb v/v		102	70 - 130
Acetone	10.0	8.75		ppb v/v		87	70 - 130
Isopropyl alcohol	10.0	9.17		ppb v/v		92	70 - 130
Carbon disulfide	10.0	10.5		ppb v/v		105	70 - 130
3-Chloropropene	10.0	10.1		ppb v/v		101	70 - 130
Methylene Chloride	10.0	9.28		ppb v/v		93	70 - 130
tert-Butyl alcohol	10.0	9.71		ppb v/v		97	70 - 130
Methyl tert-butyl ether	10.0	11.0		ppb v/v		110	70 - 130
trans-1,2-Dichloroethene	10.0	10.5		ppb v/v		105	70 - 130
n-Hexane	10.0	11.4		ppb v/v		114	70 - 130
1,1-Dichloroethane	10.0	10.0		ppb v/v		100	70 - 130
Methyl Ethyl Ketone	10.0	10.1		ppb v/v		101	70 - 130
cis-1,2-Dichloroethene	10.0	10.2		ppb v/v		102	70 - 130
Chloroform	10.0	9.75		ppb v/v		98	70 - 130
Tetrahydrofuran	10.0	8.63		ppb v/v		86	70 - 130
1,1,1-Trichloroethane	10.0	8.44		ppb v/v		84	70 - 130
Cyclohexane	10.0	9.58		ppb v/v		96	70 - 130
Carbon tetrachloride	10.0	8.41		ppb v/v		84	70 - 130
2,2,4-Trimethylpentane	10.0	9.21		ppb v/v		92	70 - 130
Benzene	10.0	8.73		ppb v/v		87	70 - 130
1,2-Dichloroethane	10.0	8.33		ppb v/v		83	70 - 130
n-Heptane	10.0	9.08		ppb v/v		91	70 - 130
Trichloroethene	10.0	9.09		ppb v/v		91	70 - 130
Methyl methacrylate	10.0	10.1		ppb v/v		101	70 - 130

TestAmerica Burlington



# QC Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-23644-1  
SDG: 200-23644

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-76179/5**

**Matrix: Air**

**Analysis Batch: 76179**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec. Limits
	Added	Result	Qualifier				
1,2-Dichloropropane	10.0	9.46		ppb v/v		95	70 - 130
1,4-Dioxane	10.0	9.64		ppb v/v		96	70 - 130
Bromodichloromethane	10.0	9.70		ppb v/v		97	70 - 130
cis-1,3-Dichloropropene	10.0	11.4		ppb v/v		114	70 - 130
methyl isobutyl ketone	10.0	9.14		ppb v/v		91	70 - 130
Toluene	10.0	10.0		ppb v/v		100	70 - 130
trans-1,3-Dichloropropene	10.0	11.2		ppb v/v		112	70 - 130
1,1,2-Trichloroethane	10.0	8.93		ppb v/v		89	70 - 130
Tetrachloroethene	10.0	9.84		ppb v/v		98	70 - 130
Methyl Butyl Ketone (2-Hexanone)	10.0	7.74		ppb v/v		77	70 - 130
Dibromochloromethane	10.0	9.30		ppb v/v		93	70 - 130
1,2-Dibromoethane	10.0	9.43		ppb v/v		94	70 - 130
Chlorobenzene	10.0	9.60		ppb v/v		96	70 - 130
Ethylbenzene	10.0	9.47		ppb v/v		95	70 - 130
m,p-Xylene	20.0	19.2		ppb v/v		96	70 - 130
Xylene, o-	10.0	10.0		ppb v/v		100	70 - 130
Styrene	10.0	10.0		ppb v/v		100	70 - 130
Bromoform	10.0	9.69		ppb v/v		97	70 - 130
Cumene	10.0	9.49		ppb v/v		95	70 - 130
1,1,1,2-Tetrachloroethane	10.0	8.53		ppb v/v		85	70 - 130
n-Propylbenzene	10.0	8.88		ppb v/v		89	70 - 130
4-Ethyltoluene	10.0	9.02		ppb v/v		90	70 - 130
1,3,5-Trimethylbenzene	10.0	9.16		ppb v/v		92	70 - 130
2-Chlorotoluene	10.0	8.25		ppb v/v		83	70 - 130
tert-Butylbenzene	10.0	9.21		ppb v/v		92	70 - 130
1,2,4-Trimethylbenzene	10.0	9.08		ppb v/v		91	70 - 130
sec-Butylbenzene	10.0	8.98		ppb v/v		90	70 - 130
4-Isopropyltoluene	10.0	9.19		ppb v/v		92	70 - 130
1,3-Dichlorobenzene	10.0	9.00		ppb v/v		90	70 - 130
1,4-Dichlorobenzene	10.0	9.30		ppb v/v		93	70 - 130
Benzyl chloride	10.0	10.2		ppb v/v		102	70 - 130
n-Butylbenzene	10.0	8.60		ppb v/v		86	70 - 130
1,2-Dichlorobenzene	10.0	9.27		ppb v/v		93	70 - 130
1,2,4-Trichlorobenzene	10.0	8.74		ppb v/v		87	70 - 130
Hexachlorobutadiene	10.0	9.06		ppb v/v		91	70 - 130
Naphthalene	10.0	8.33		ppb v/v		83	70 - 130
Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec. Limits
	Added	Result	Qualifier				
Dichlorodifluoromethane	49	44.7		ug/m3		90	70 - 130
Freon 22	35	32.1		ug/m3		91	70 - 130
1,2-Dichlorotetrafluoroethane	70	72.0		ug/m3		103	70 - 130
Chloromethane	21	18.2		ug/m3		88	70 - 130
n-Butane	24	21.8		ug/m3		92	70 - 130
Vinyl chloride	26	22.3		ug/m3		87	70 - 130
1,3-Butadiene	22	20.3		ug/m3		92	70 - 130
Bromomethane	39	34.4		ug/m3		89	70 - 130
Chloroethane	26	23.5		ug/m3		89	70 - 130

TestAmerica Burlington

# QC Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-23644-1  
SDG: 200-23644

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-76179/5**

**Matrix: Air**

**Analysis Batch: 76179**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoethene(Vinyl Bromide)	44	43.0		ug/m3		98	70 - 130
Trichlorofluoromethane	56	51.5		ug/m3		92	70 - 130
Freon TF	77	75.0		ug/m3		98	70 - 130
1,1-Dichloroethene	40	40.3		ug/m3		102	70 - 130
Acetone	24	20.8		ug/m3		87	70 - 130
Isopropyl alcohol	25	22.5		ug/m3		92	70 - 130
Carbon disulfide	31	32.8		ug/m3		105	70 - 130
3-Chloropropene	31	31.5		ug/m3		101	70 - 130
Methylene Chloride	35	32.2		ug/m3		93	70 - 130
tert-Butyl alcohol	30	29.4		ug/m3		97	70 - 130
Methyl tert-butyl ether	36	39.8		ug/m3		110	70 - 130
trans-1,2-Dichloroethene	40	41.6		ug/m3		105	70 - 130
n-Hexane	35	40.1		ug/m3		114	70 - 130
1,1-Dichloroethane	40	40.5		ug/m3		100	70 - 130
Methyl Ethyl Ketone	29	29.8		ug/m3		101	70 - 130
cis-1,2-Dichloroethene	40	40.3		ug/m3		102	70 - 130
Chloroform	49	47.6		ug/m3		98	70 - 130
Tetrahydrofuran	29	25.5		ug/m3		86	70 - 130
1,1,1-Trichloroethane	55	46.1		ug/m3		84	70 - 130
Cyclohexane	34	33.0		ug/m3		96	70 - 130
Carbon tetrachloride	63	52.9		ug/m3		84	70 - 130
2,2,4-Trimethylpentane	47	43.0		ug/m3		92	70 - 130
Benzene	32	27.9		ug/m3		87	70 - 130
1,2-Dichloroethane	40	33.7		ug/m3		83	70 - 130
n-Heptane	41	37.2		ug/m3		91	70 - 130
Trichloroethene	54	48.8		ug/m3		91	70 - 130
Methyl methacrylate	41	41.4		ug/m3		101	70 - 130
1,2-Dichloropropane	46	43.7		ug/m3		95	70 - 130
1,4-Dioxane	36	34.8		ug/m3		96	70 - 130
Bromodichloromethane	67	65.0		ug/m3		97	70 - 130
cis-1,3-Dichloropropene	45	51.7		ug/m3		114	70 - 130
methyl isobutyl ketone	41	37.5		ug/m3		91	70 - 130
Toluene	38	37.7		ug/m3		100	70 - 130
trans-1,3-Dichloropropene	45	50.7		ug/m3		112	70 - 130
1,1,2-Trichloroethane	55	48.7		ug/m3		89	70 - 130
Tetrachloroethene	68	66.7		ug/m3		98	70 - 130
Methyl Butyl Ketone (2-Hexanone)	41	31.7		ug/m3		77	70 - 130
Dibromochloromethane	85	79.2		ug/m3		93	70 - 130
1,2-Dibromoethane	77	72.4		ug/m3		94	70 - 130
Chlorobenzene	46	44.2		ug/m3		96	70 - 130
Ethylbenzene	43	41.1		ug/m3		95	70 - 130
m,p-Xylene	87	83.3		ug/m3		96	70 - 130
Xylene, o-	43	43.5		ug/m3		100	70 - 130
Styrene	43	42.7		ug/m3		100	70 - 130
Bromoform	100	100		ug/m3		97	70 - 130
Cumene	49	46.7		ug/m3		95	70 - 130
1,1,2,2-Tetrachloroethane	69	58.5		ug/m3		85	70 - 130

TestAmerica Burlington

# QC Sample Results

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-23644-1  
SDG: 200-23644

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-76179/5

Matrix: Air

Analysis Batch: 76179

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
n-Propylbenzene	49	43.6		ug/m3		89	70 - 130
4-Ethyltoluene	49	44.4		ug/m3		90	70 - 130
1,3,5-Trimethylbenzene	49	45.0		ug/m3		92	70 - 130
2-Chlorotoluene	52	42.7		ug/m3		83	70 - 130
tert-Butylbenzene	55	50.6		ug/m3		92	70 - 130
1,2,4-Trimethylbenzene	49	44.7		ug/m3		91	70 - 130
sec-Butylbenzene	55	49.3		ug/m3		90	70 - 130
4-Isopropyltoluene	55	50.5		ug/m3		92	70 - 130
1,3-Dichlorobenzene	60	54.1		ug/m3		90	70 - 130
1,4-Dichlorobenzene	60	55.9		ug/m3		93	70 - 130
Benzyl chloride	52	52.9		ug/m3		102	70 - 130
n-Butylbenzene	55	47.2		ug/m3		86	70 - 130
1,2-Dichlorobenzene	60	55.7		ug/m3		93	70 - 130
1,2,4-Trichlorobenzene	74	64.9		ug/m3		87	70 - 130
Hexachlorobutadiene	110	96.7		ug/m3		91	70 - 130
Naphthalene	52	43.7		ug/m3		83	70 - 130

# QC Association Summary

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-23644-1  
SDG: 200-23644

## Air - GC/MS VOA

### Analysis Batch: 76179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-23644-1	CESSNA-OUTDOOR-1	Total/NA	Air	TO-15	
200-23644-2	CESSNA-INDOOR-1	Total/NA	Air	TO-15	
200-23644-3	CESSNA-INDOOR-2	Total/NA	Air	TO-15	
200-23644-4	CESSNA-INDOOR-3	Total/NA	Air	TO-15	
LCS 200-76179/5	Lab Control Sample	Total/NA	Air	TO-15	
MB 200-76179/6	Method Blank	Total/NA	Air	TO-15	

# Lab Chronicle

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-23644-1  
SDG: 200-23644

## Client Sample ID: CESSNA-OUTDOOR-1

Lab Sample ID: 200-23644-1

Date Collected: 08/12/14 07:50

Matrix: Air

Date Received: 08/14/14 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	76179	08/18/14 21:37	PAD	TAL BUR

## Client Sample ID: CESSNA-INDOOR-1

Lab Sample ID: 200-23644-2

Date Collected: 08/12/14 07:53

Matrix: Air

Date Received: 08/14/14 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	76179	08/18/14 22:28	PAD	TAL BUR

## Client Sample ID: CESSNA-INDOOR-2

Lab Sample ID: 200-23644-3

Date Collected: 08/12/14 07:56

Matrix: Air

Date Received: 08/14/14 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	76179	08/18/14 23:20	PAD	TAL BUR

## Client Sample ID: CESSNA-INDOOR-3

Lab Sample ID: 200-23644-4

Date Collected: 08/12/14 07:57

Matrix: Air

Date Received: 08/14/14 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	76179	08/19/14 00:10	PAD	TAL BUR

### Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

# Certification Summary

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-23644-1  
SDG: 200-23644

## Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-15
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-15
L-A-B	DoD ELAP		L2336	02-26-17
Maine	State Program	1	VT00008	04-17-15
Minnesota	NELAP	5	050-999-436	12-31-14
New Hampshire	NELAP	1	2006	12-18-14
New Jersey	NELAP	2	VT972	06-30-15
New York	NELAP	2	10391	03-31-15
Pennsylvania	NELAP	3	68-00489	04-30-15
Rhode Island	State Program	1	LAO00298	12-30-14
US Fish & Wildlife	Federal		LE-058448-0	02-28-15
USDA	Federal		P330-11-00093	10-28-16
Vermont	State Program	1	VT-4000	12-31-14
Virginia	NELAP	3	460209	12-14-14

# Method Summary

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-23644-1  
SDG: 200-23644

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Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL BUR

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**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

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# Sample Summary

Client: CDM Smith, Inc.  
Project/Site: Cessna

TestAmerica Job ID: 200-23644-1  
SDG: 200-23644

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-23644-1	CESSNA-OUTDOOR-1	Air	08/12/14 07:50	08/14/14 10:00
200-23644-2	CESSNA-INDOOR-1	Air	08/12/14 07:53	08/14/14 10:00
200-23644-3	CESSNA-INDOOR-2	Air	08/12/14 07:56	08/14/14 10:00
200-23644-4	CESSNA-INDOOR-3	Air	08/12/14 07:57	08/14/14 10:00

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**TestAmerica Burlington**  
 30 Community Drive  
 Suite 11  
 South Burlington, VT 05403  
 phone 802-660-1990 fax 802-660-1919

## Canister Samples Chain of Custody Record

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

Client Contact Information		Project Manager: <b>Andrew Romanek</b>		Samples Collected By: <b>NF</b>		1 of 1 COCs																	
Company: <b>CDM Smith</b>		Phone: _____		EPA 25C		Other (Please specify in notes section)																	
Address: <b>3715 Northside Pkwy #300/302</b>		Email: <b>romanekay@cdmsmith.com</b>		EPA 3C		Landfill Gas																	
City/State/Zip: <b>Atlanta GA 30327</b>		Site Contact: _____		MA-APH		Soil Gas																	
Phone: <b>404-720-1406</b>		TA Contact: _____		TO-15		Ambient Air																	
FAX: _____		Project Name: <b>Cessna</b>		Canister ID		Indoor Air																	
Analysis Turnaround Time		Standard (Specify) <b>X</b>		Flow Controller ID		Sample Type																	
Site: <b>Columbus, GA</b>		Rush (Specify)		Canister Vacuum in Field, "Hg (Start)		Other (Please specify in notes section)																	
PO #		Canister Vacuum in Field, "Hg (Stop)		Canister ID		ASTM D-1946																	
Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID																
Cessna-Outdoor-1	8/12/14	0910	0750	30	10	3239	5713 X																
Cessna-Indoor-1	8/12/14	0900	0753	30	6	3105	2703 X																
Cessna-Indoor-2	8/12/14	0902	0756	30	5	4506	3705 X																
Cessna-Indoor-3	8/12/14	0910	0757	30	10	5243	5681 X																
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Temperature (Fahrenheit)</th> </tr> <tr> <th>Interior</th> <th>Ambient</th> </tr> </thead> <tbody> <tr> <td>Start</td> <td></td> </tr> <tr> <td>Stop</td> <td></td> </tr> <tr> <th colspan="2">Pressure (Inches of Hg)</th> </tr> <tr> <th>Interior</th> <th>Ambient</th> </tr> <tr> <td>Start</td> <td></td> </tr> <tr> <td>Stop</td> <td></td> </tr> </tbody> </table>								Temperature (Fahrenheit)		Interior	Ambient	Start		Stop		Pressure (Inches of Hg)		Interior	Ambient	Start		Stop	
Temperature (Fahrenheit)																							
Interior	Ambient																						
Start																							
Stop																							
Pressure (Inches of Hg)																							
Interior	Ambient																						
Start																							
Stop																							
 200-23644 Chain of Custody																							
Special Instructions/QC Requirements & Comments: <b>Fall TU-15 Suite</b>																							
Samples Shipped by: <b>via FedEx</b>		Date/Time: <b>8/12/14 0930</b>		Samples Received by: <b>[Signature]</b>		Date/Time: <b>8/14/14 1000</b>																	
Sample Relinquished by:		Date/Time:		Received by:		Date/Time:																	
Relinquished by:		Date/Time:		Received by:		Date/Time:																	
Lab Use Only		Shipper Name:		Opened by:		Condition:																	



**Fed** Express **US Airbill**

1 From **8654 6476 1815**  
Date \_\_\_\_\_  
Sender's Name \_\_\_\_\_  
Company \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_  
Dept./Floor/Suite/Room \_\_\_\_\_

FedEx Tracking Number **8654 6476 1815**

Form ID No. **0215**

fedex.com 1.800.GoFedEx 1.800.463.3339

**4a Express Package Service**  
 **FedEx Priority Overnight**  
Next business morning. \*Friday shipments delivered on Monday unless SATURDAY Delivery is selected.  
 **FedEx 2Day**  
Second business day. \*Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.  
 **FedEx Standard Overnight**  
Next business afternoon. \*Saturday Delivery NOT available.  
 **FedEx First Overnight**  
Earliest next business morning delivery to select locations. \*Saturday Delivery NOT available.

**4b Express Freight Service**  
 **FedEx 10Day Freight**  
Next business day. \*Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.  
 **FedEx 2Day Freight**  
Second business day. \*Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.  
 **FedEx 3Day Freight**  
Third business day. \*Saturday Delivery NOT available.

**5 Packaging**  
 **FedEx Envelope\***  
 **FedEx Pak\***  
FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.  
 **FedEx Tube**  
 **FedEx Box**  
 **Other**

**6 Special Handling**  
 **SATURDAY Delivery**  
Not available for FedEx Priority Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.  
 **HOLD Weekday at FedEx Location**  
Not available for FedEx First Overnight.  
 **HOLD Saturday at FedEx Location**  
Available only for FedEx Priority Overnight and FedEx 2Day. \*To select locations.  
 **Signature Required**  
Yes  No   
Shipper's Declaration: Yes  No   
Shipper's Declaration not required.  
 **Dry Ice**  
Dry Ice, 3 UN 1845  
 **Cargo Aircraft Only**

**7 Payment Bill to:**  
 **Sender**  
Enter FedEx Acct. No. or Credit Card No. below.  
 **Recipient**  
 **Third Party**  
 **Credit Card**  
 **Cash/Check**  
**Total Packages** \_\_\_\_\_  
**Total Weight** \_\_\_\_\_ kg

**8 Residential Delivery Signature Options**  
 **No Signature Required**  
Package may be left without obtaining a signature for delivery.  
 **Direct Signature**  
Someone at recipient's address may sign for delivery. Fee applies.  
 **Indirect Signature**  
If no one is available at recipient's address, someone at shipping address may sign for delivery. Fee applies.  
Rev. Date 10/05-Part 1 (5/27/05) © 1994-2005 FedEx/PRINTED IN U.S.A./STS



8654 6476 1815



## Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 200-23644-1

SDG Number: 200-23644

**Login Number: 23644**

**List Number: 1**

**Creator: Atherton, Joel E**

**List Source: TestAmerica Burlington**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	119538
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	AMBIENT
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	



200-23356-A-5

2680  
Location: Air-Storage  
Bottle: Summa Canister 6L  
Sampled: 7/26/2014 12:00 AM 200-681851

Loc: 200  
**23356**  
**#5**  
**A**

### Pre-Shipment Clean Canister Certification Req

Certification Type:  Batch  Individual

Canister Cleaning & Pre-Shipment Leak Test											
System ID		# Cycles	Cleaning Date		Technician	Canister Size					
TOP		50	7/26/14		MSC	(6L)			1L	3L	
Leak Test											
Port	Can ID	Initial <sup>1</sup> ("Hg)	Final ("Hg)	Adjusted Initial <sup>2</sup> ("Hg)	Difference <sup>3</sup>	Initial Reading			Final Reading		
						Gauge ID:	Date:	Time:	Gauge ID:	Date:	Time:
1	3502	-27.9	-29.9	-30.1	0.2	613	7/28/14	1500	613	7/29/14	1545
2	5409		-29.7		+0.4	NEA			SL by (RP)		
3	4070		-30.0		+0.1	29.4			29.6		
4	4068		-30.1		+0.0	23			22		
5	282680		-29.6		+0.5	<sup>3</sup> Acceptance Criteria: (1) The difference must be less than or equal to + 0.5 (2) Pressure readings must be at least 24 hours apart. If time frame was not met, the PM must authorize shipment of canister: PM Authorization:					
6	4175		-30.1		+0.0						
7	3786		-29.9		+0.2						
8	4326		-30.1		+0.0						
9	5403		-30.0		+0.1						
10	4211		-30.0		+0.1						
11	5713		-30.1		+0.0						
(721)	2721		-30.0		0.1	Signature			Date		

- <sup>1</sup> Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.
- <sup>2</sup> To calculate Adjusted Initial Pressure, subtract Final BP from Initial BP and add the result (positive or negative) to the Initial pressure reading.
- <sup>3</sup> To calculate Difference, subtract the Adjusted Initial Pressure from the Final Pressure (See Acceptance Criteria)

Clean Canister Certification Analysis & Authorization of Release to Inventory											
Test Method: <input type="checkbox"/> TO15 Routine <input type="checkbox"/> TO15 LL <input type="checkbox"/> NJDEP-LL TO15					Inventory Level					Secondary Review	
Can ID	Date	Sequence	Analyst		1	2	3	4	Limited	Review Date	Reviewer
2650	7/29/14	8732 (6)	BL			✓				7/29/14	ANA

- Inventory Level 1: Individual Canister Certification Only. Certified clean to RLS listed in laboratory SOP for LLTO15.
- Inventory Level 2: Individual or Batch Certification. Certified clean to 0.04 ppbv.
- Inventory Level 3: Individual or Batch Certification. Certified clean to 0.20 ppbv.
- Inventory Level 4: Individual or Batch Certification. Certified clean following procedures and RLS listed in laboratory SOP NJDEP-LLTO15.
- Inventory Level Limited Use: Canisters may only be used for certain projects.

Comments: Routine

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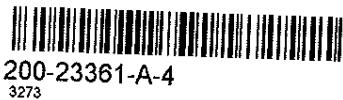
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200-23361-A-4  
3273

Loc: 200  
**23361**  
**#4**  
**A**

### Pre-Shipment Clean Canister Certification Report

Bottle: Summa Canister 6L  
Sampled: 7/28/2014 12:00 AM 200-681975

Certification Type:  Batch  Individual

Canister Cleaning & Pre-Shipment Leak Test										
System ID		# Cycles	Cleaning Date	Technician	Canister Size					
TOP		15	7/28/14	E	(6L) 1L 3L					
Port	Can ID	Initial <sup>1</sup> ("Hg)	Final ("Hg)	Adjusted Initial <sup>2</sup> ("Hg)	Difference <sup>3</sup>	Leak Test				
						Initial Reading	Final Reading			
						Gauge ID: G13	Gauge ID: G13			
1	2703	-29.9	-30.2	-30.0	-0.2	Date: 7/29/14	Date: 7/31/14			
2	3011		-30.2		-0.2	Time: 1000	Time: 0900			
3	4804		-30.2		-0.2	Tech: E	Tech: (E)			
4	3273		-30.4		-0.4	BP: 29.4 ("Hg)	BP: 29.7 ("Hg)			
5	5095		-30.1		-0.1	Temp 22 (°C)	Temp: 22 (°C)			
6	4820		-30.2		-0.2	<sup>3</sup> Acceptance Criteria: (1) The difference must be less than or equal to +0.5 (2) Pressure readings must be at least 24 hours apart. If time frame was not met, the PM must authorize shipment of canister: PM Authorization:				
7	5707		-30.1		-0.1					
8	3762		-30.2		-0.2					
9	4356		-30.2		-0.2					
10	3472		-30.2		-0.2					
11	881		-30.2		-0.2					
12	3705		-30.2		-0.2					
						Signature	Date			

<sup>1</sup> Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

<sup>2</sup> To calculate Adjusted Initial Pressure, subtract Final BP from Initial BP and add the result (positive or negative) to the initial pressure reading.

<sup>3</sup> To calculate Difference, subtract the Adjusted Initial Pressure from the Final Pressure (See Acceptance Criteria)

Clean Canister Certification Analysis & Authorization of Release to Inventory											
Test Method: <input type="checkbox"/> TO15 Routine <input type="checkbox"/> TO15 LL <input type="checkbox"/> NJDEP-LL TO15				Inventory Level				Secondary Review			
Can ID	Date	Sequence	Analyst	1	2	3	4	Limited	Review Date	Reviewer	
3223	7/29/14	8754	WNO		✓				7/30/14	AW	

Inventory Level 1: Individual Canister Certification Only. Certified clean to RLS listed in laboratory SOP for LLTO15.

Inventory Level 2: Individual or Batch Certification. Certified clean to 0.04 ppbv.

Inventory Level 3: Individual or Batch Certification. Certified clean to 0.20 ppbv.

Inventory Level 4: Individual or Batch Certification. Certified clean following procedures and RLS listed in laboratory SOP NJDEP-LLTO15.

Inventory Level Limited Use: Canisters may only be used for certain projects.

Comments:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-23356-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 2680 Lab Sample ID: 200-23356-5  
 Matrix: Air Lab File ID: 8732\_022.D  
 Analysis Method: TO-15 Date Collected: 07/26/2014 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 07/29/2014 04:18  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 75370 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U *	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.040	U	0.040	0.040
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-23356-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 2680 Lab Sample ID: 200-23356-5  
 Matrix: Air Lab File ID: 8732\_022.D  
 Analysis Method: TO-15 Date Collected: 07/26/2014 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 07/29/2014 04:18  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 75370 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.040	U	0.040	0.040
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-23356-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 2680 Lab Sample ID: 200-23356-5  
 Matrix: Air Lab File ID: 8732\_022.D  
 Analysis Method: TO-15 Date Collected: 07/26/2014 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 07/29/2014 04:18  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 75370 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CHG.i\20140728-8732.b\8732\_022.D  
 Lims ID: 200-23356-A-5 Lab Sample ID: 200-23356-5  
 Client ID: 2680  
 Sample Type: Client  
 Inject. Date: 29-Jul-2014 04:18:30 ALS Bottle#: 4 Worklist Smp#: 22  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Sample Info: 200-0008732-022  
 Misc. Info.: 200-23356-A-5  
 Operator ID: bpl Instrument ID: CHG.i  
 Method: \\BTV-LIMS1\ChromData\CHG.i\20140728-8732.b\TO15\_LLNJ\_TO3\_G.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 29-Jul-2014 11:02:18 Calib Date: 02-Jul-2014 22:50:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal/External Standard Quant By: Initial Calibration  
 Last ICal File: \\BTV-LIMS1\ChromData\CHG.i\20140702-8394.b\8394\_010.D  
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN  
 Process Host: XAWRK014

First Level Reviewer: lyonsb

Date: 29-Jul-2014 10:49:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		2.758				ND	
2 Dichlorodifluoromethane	85		2.827				ND	
6 Chlorodifluoromethane	51		2.886				ND	
7 1,2-Dichloro-1,1,2,2-tetra	85		3.100				ND	
8 Chloromethane	50		3.244				ND	
9 Butane	43		3.448				ND	
10 Vinyl chloride	62		3.496				ND	
11 Butadiene	54		3.576				ND	
12 Bromomethane	94		4.293				ND	
14 Chloroethane	64		4.544				ND	
16 Vinyl bromide	106		4.962				ND	
17 Trichlorofluoromethane	101		5.069				ND	
19 Ethanol	45		5.716				ND	
23 1,1,2-Trichloro-1,2,2-trif	101		6.224				ND	
24 1,1-Dichloroethene	96		6.256				ND	
25 Acetone	43		6.534				ND	
26 Carbon disulfide	76		6.641				ND	
27 Isopropyl alcohol	45		6.866				ND	
29 3-Chloro-1-propene	41		7.101				ND	
31 Methylene Chloride	49		7.417				ND	
32 2-Methyl-2-propanol	59		7.679				ND	
33 Methyl tert-butyl ether	73		7.834				ND	
34 trans-1,2-Dichloroethene	61		7.866				ND	
36 Hexane	57		8.273				ND	
37 1,1-Dichloroethane	63		8.781				ND	
38 Vinyl acetate	43		8.883				ND	
39 cis-1,2-Dichloroethene	96		9.931				ND	
40 2-Butanone (MEK)	72		9.996				ND	
42 Ethyl acetate	88		10.044				ND	
S 41 1,2-Dichloroethene, Total	61		10.200				0	
44 Tetrahydrofuran	42		10.397				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 43 Chlorobromomethane	128	10.397	10.402	-0.005	68	570750	10.0	
45 Chloroform	83		10.552				ND	
46 Cyclohexane	84		10.761				ND	
47 1,1,1-Trichloroethane	97		10.809				ND	
48 Carbon tetrachloride	117		11.060				ND	
51 Isooctane	57		11.515				ND	
50 Benzene	78		11.542				ND	
52 1,2-Dichloroethane	62		11.740				ND	
53 n-Heptane	43		11.922				ND	
* 54 1,4-Difluorobenzene	114	12.409	12.414	-0.005	91	3135425	10.0	
56 Trichloroethene	95		12.863				ND	
58 1,2-Dichloropropane	63		13.441				ND	
59 Methyl methacrylate	69		13.628				ND	
60 1,4-Dioxane	88		13.666				ND	
61 Dibromomethane	174		13.698				ND	
62 Dichlorobromomethane	83		14.013				ND	
64 cis-1,3-Dichloropropene	75		14.998				ND	
65 4-Methyl-2-pentanone (MIBK)	43		15.308				ND	
66 Toluene	92		15.602				ND	
70 trans-1,3-Dichloropropene	75		16.239				ND	
71 1,1,2-Trichloroethane	83		16.624				ND	
72 Tetrachloroethene	166		16.710				ND	
73 2-Hexanone	43		17.095				ND	
74 Chlorodibromomethane	129		17.394				ND	
75 Ethylene Dibromide	107		17.672				ND	
* 76 Chlorobenzene-d5	117	18.582	18.587	-0.005	82	3960920	10.0	
77 Chlorobenzene	112		18.646				ND	
78 Ethylbenzene	91		18.807				ND	
80 m-Xylene & p-Xylene	106		19.063				ND	
83 o-Xylene	106		19.914				ND	
84 Styrene	104		19.968				ND	
S 82 Xylenes, Total	106		20.100				0	
85 Bromoform	173		20.385				ND	
86 Isopropylbenzene	105		20.593				ND	
* 87 4-Bromofluorobenzene	95	20.963	20.963	0.000	97	2342625	10.0	
88 1,1,2,2-Tetrachloroethane	83		21.251				ND	
90 N-Propylbenzene	91		21.316				ND	
92 2-Chlorotoluene	91		21.508				ND	
91 4-Ethyltoluene	105		21.508				ND	
94 1,3,5-Trimethylbenzene	105		21.610				ND	
96 tert-Butylbenzene	119		22.097				ND	
97 1,2,4-Trimethylbenzene	105		22.193				ND	
98 sec-Butylbenzene	105		22.418				ND	
99 4-Isopropyltoluene	119		22.621				ND	
100 1,3-Dichlorobenzene	146		22.648				ND	
101 1,4-Dichlorobenzene	146	22.782	22.781	0.001	92	7998	0.0228	
102 Benzyl chloride	91		22.979				ND	
103 n-Butylbenzene	91		23.188				ND	
105 1,2-Dichlorobenzene	146		23.311				ND	
107 1,2,4-Trichlorobenzene	180		25.804				ND	
108 Hexachlorobutadiene	225		25.986				ND	
109 Naphthalene	128		26.296				ND	

### QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

### Reagents:

ATTO15GIS\_00009

Amount Added: 20.00

Units: mL

Run Reagent

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CHG.i\20140728-8732.b\8732\_022.D

Injection Date: 29-Jul-2014 04:18:30

Instrument ID: CHG.i

Operator ID: bpl

Lims ID: 200-23356-A-5

Lab Sample ID: 200-23356-5

Worklist Smp#: 22

Client ID: 2680

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

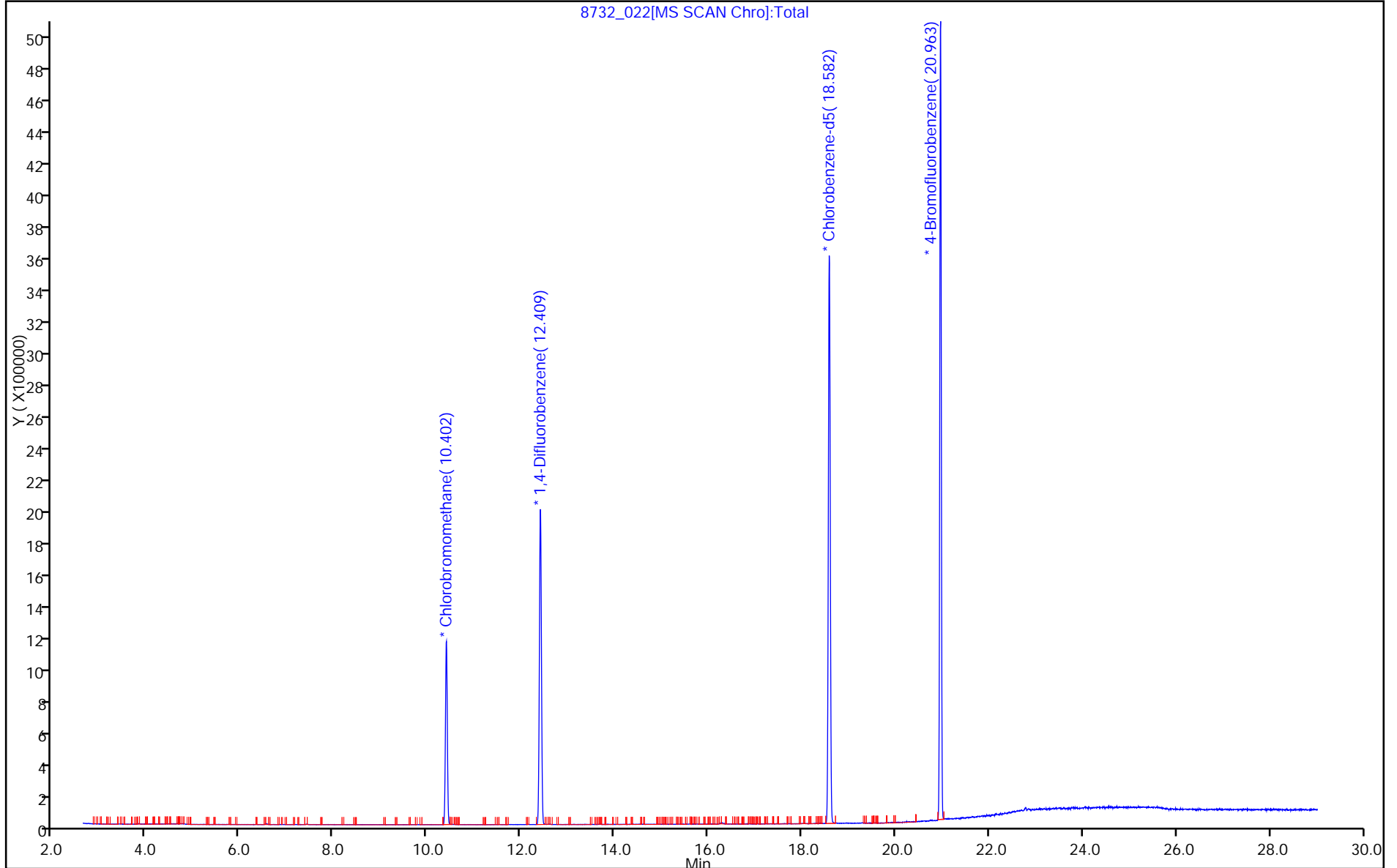
ALS Bottle#: 4

Method: TO15\_LLNJ\_TO3\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 ( 0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-23361-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 3273 Lab Sample ID: 200-23361-4  
 Matrix: Air Lab File ID: 8754\_026.D  
 Analysis Method: TO-15 Date Collected: 07/28/2014 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 07/30/2014 07:26  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 75424 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.040	U	0.040	0.040
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-23361-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 3273 Lab Sample ID: 200-23361-4  
 Matrix: Air Lab File ID: 8754\_026.D  
 Analysis Method: TO-15 Date Collected: 07/28/2014 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 07/30/2014 07:26  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 75424 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.040	U	0.040	0.040
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-23361-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 3273 Lab Sample ID: 200-23361-4  
 Matrix: Air Lab File ID: 8754\_026.D  
 Analysis Method: TO-15 Date Collected: 07/28/2014 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 07/30/2014 07:26  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 0.2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 75424 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CHG.i\20140729-8754.b\8754\_026.D  
 Lims ID: 200-23361-A-4 Lab Sample ID: 200-23361-4  
 Client ID: 3273  
 Sample Type: Client  
 Inject. Date: 30-Jul-2014 07:26:30 ALS Bottle#: 9 Worklist Smp#: 26  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Sample Info: 200-0008754-026  
 Misc. Info.: 200-23361-A-4  
 Operator ID: bpl Instrument ID: CHG.i  
 Method: \\BTV-LIMS1\ChromData\CHG.i\20140729-8754.b\TO15\_LLNJ\_TO3\_G.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 30-Jul-2014 09:19:42 Calib Date: 02-Jul-2014 22:50:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal/External Standard Quant By: Initial Calibration  
 Last ICal File: \\BTV-LIMS1\ChromData\CHG.i\20140702-8394.b\8394\_010.D  
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN  
 Process Host: XAWRK016

First Level Reviewer: desjardinsb

Date: 30-Jul-2014 09:19:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		2.758				0	
2 Dichlorodifluoromethane	85		2.827				ND	
6 Chlorodifluoromethane	51		2.881				0	
7 1,2-Dichloro-1,1,2,2-tetra	85		3.100				ND	
8 Chloromethane	50		3.239				0	
9 Butane	43		3.448				0	
10 Vinyl chloride	62		3.496				ND	
11 Butadiene	54		3.576				ND	
12 Bromomethane	94		4.288				ND	
14 Chloroethane	64		4.544				ND	
16 Vinyl bromide	106		4.956				ND	
17 Trichlorofluoromethane	101		5.069				ND	
19 Ethanol	45		5.711				ND	
23 1,1,2-Trichloro-1,2,2-trif	101		6.219				ND	
24 1,1-Dichloroethene	96		6.262				0	
25 Acetone	43		6.529				0	
26 Carbon disulfide	76		6.642				0	
27 Isopropyl alcohol	45		6.861				0	
29 3-Chloro-1-propene	41		7.096				0	
31 Methylene Chloride	49		7.412				0	
32 2-Methyl-2-propanol	59		7.674				ND	
33 Methyl tert-butyl ether	73		7.835				ND	
34 trans-1,2-Dichloroethene	61		7.867				ND	
36 Hexane	57		8.268				ND	
37 1,1-Dichloroethane	63		8.781				ND	
38 Vinyl acetate	43		8.883				ND	
39 cis-1,2-Dichloroethene	96		9.926				ND	
40 2-Butanone (MEK)	72		9.996				0	
42 Ethyl acetate	88		10.049				ND	
S 41 1,2-Dichloroethene, Total	61		10.200				0	
44 Tetrahydrofuran	42		10.392				ND	



Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 43 Chlorobromomethane	128	10.397	10.402	-0.005	68	569151	10.0	
45 Chloroform	83		10.547				ND	
46 Cyclohexane	84		10.766				ND	
47 1,1,1-Trichloroethane	97		10.809				ND	
48 Carbon tetrachloride	117		11.055				ND	
51 Isooctane	57		11.510				ND	
50 Benzene	78		11.542				ND	
52 1,2-Dichloroethane	62		11.740				ND	
53 n-Heptane	43		11.911				ND	
* 54 1,4-Difluorobenzene	114	12.408	12.414	-0.006	91	3152841	10.0	
56 Trichloroethene	95		12.863				ND	
58 1,2-Dichloropropane	63		13.441				ND	
59 Methyl methacrylate	69		13.628				ND	
60 1,4-Dioxane	88		13.671				ND	
61 Dibromomethane	174		13.698				0	
62 Dichlorobromomethane	83		14.008				ND	
64 cis-1,3-Dichloropropene	75		14.992				ND	
65 4-Methyl-2-pentanone (MIBK)	43		15.313				0	
66 Toluene	92		15.602				ND	
70 trans-1,3-Dichloropropene	75		16.239				0	
71 1,1,2-Trichloroethane	83		16.619				ND	
72 Tetrachloroethene	166		16.704				0	
73 2-Hexanone	43		17.095				ND	
74 Chlorodibromomethane	129		17.394				ND	
75 Ethylene Dibromide	107		17.667				ND	
* 76 Chlorobenzene-d5	117	18.582	18.587	-0.005	82	3970916	10.0	
77 Chlorobenzene	112		18.646				ND	
78 Ethylbenzene	91		18.807				ND	
80 m-Xylene & p-Xylene	106		19.064				ND	
83 o-Xylene	106		19.909				ND	
84 Styrene	104		19.962				ND	
S 82 Xylenes, Total	106		20.100				0	
85 Bromoform	173		20.385				ND	
86 Isopropylbenzene	105		20.594				0	
* 87 4-Bromofluorobenzene	95	20.957	20.957	0.000	97	2400468	10.0	
88 1,1,2,2-Tetrachloroethane	83		21.252				ND	
90 N-Propylbenzene	91		21.316				0	
91 4-Ethyltoluene	105		21.503				0	
92 2-Chlorotoluene	91		21.508				0	
94 1,3,5-Trimethylbenzene	105		21.610				0	
96 tert-Butylbenzene	119		22.097				0	
97 1,2,4-Trimethylbenzene	105		22.188				0	
98 sec-Butylbenzene	105		22.418				0	
99 4-Isopropyltoluene	119		22.621				0	
100 1,3-Dichlorobenzene	146		22.642				0	
101 1,4-Dichlorobenzene	146		22.782				0	
102 Benzyl chloride	91		22.980				0	
103 n-Butylbenzene	91		23.188				0	
105 1,2-Dichlorobenzene	146		23.311				0	
107 1,2,4-Trichlorobenzene	180		25.804				0	
108 Hexachlorobutadiene	225		25.986				0	
109 Naphthalene	128		26.291				0	

### QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

### Reagents:

ATTO15GIS\_00009

Amount Added: 20.00

Units: mL

Run Reagent

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CHG.\20140729-8754.b\8754\_026.D

Injection Date: 30-Jul-2014 07:26:30

Instrument ID: CHG.i

Operator ID: bpl

Lims ID: 200-23361-A-4

Lab Sample ID: 200-23361-4

Worklist Smp#: 26

Client ID: 3273

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

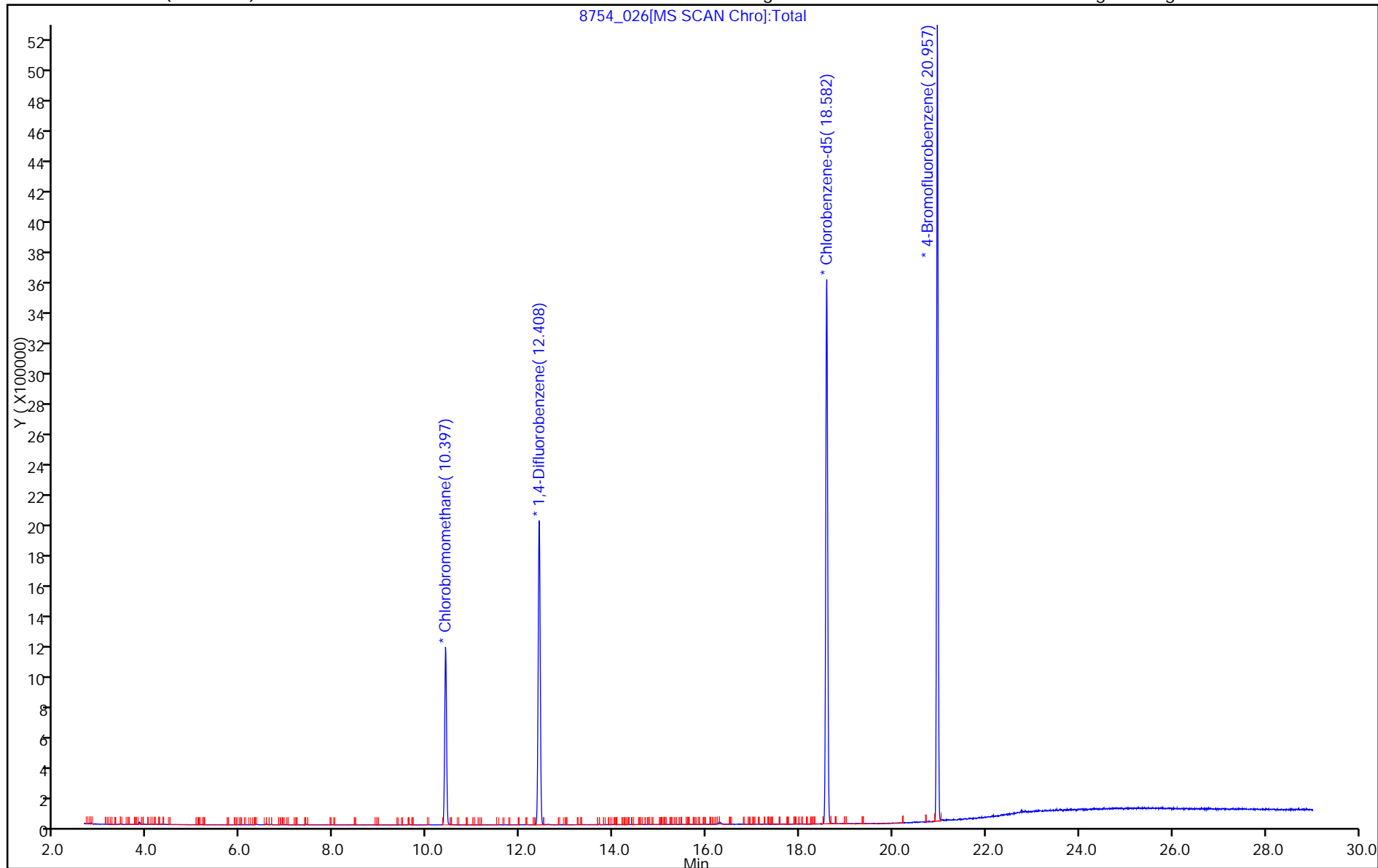
ALS Bottle#: 9

Method: TO15\_LLNJ\_TO3\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 ( 0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1





August 11, 2014

Tom Duffey  
CDM Smith Inc.  
3715 Northside Parkway  
Atlanta GA 30327

TEL: (404) 720-1400  
FAX: (404) 467-4130

RE: CESSNA

Dear Tom Duffey:

Order No: 1408202

Analytical Environmental Services, Inc. received 11 samples on August 5, 2014 8:05 am for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

James Forrest  
Project Manager



COMPANY: <b>CDM Smith</b>		ADDRESS: <b>3715 Northside Parkway NW B. 300 S. 400 Atlanta, GA 30327</b>					ANALYSIS REQUESTED										Visit our website <a href="http://www.aesatlanta.com">www.aesatlanta.com</a> to check on the status of your results, place bottle orders, etc.		No # of Containers
PHONE: <b>(404) 783-4702</b>		FAX:					PRESERVATION (See codes)										REMARKS		
SAMPLED BY: <b>Nick Fuller</b>		SIGNATURE: <i>[Signature]</i>					VALS MEE COD COD TCLP Vals												
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)										REMARKS		
		DATE	TIME				H+I	H+I	S+I	NA	VA								
1	DUP-1	8/14/14	0800	X			X												
2	GW-8	8/14/14	0950	X			X	X	X									2	
3	MW-2A	8/14/14	1030	X			X	X	X									5	
4	MW-3B	8/14/14	1110	X			X	X	X									5	
5	MW-3A	8/14/14	1145	X			X	X	X									5	
6	MW-4B	8/14/14	1235	X			X	X	X									5	
7	MW-4A	8/14/14	1310	X			X	X	X									5	
8	MW-1A	8/14/14	1355	X			X	X		X								5	
9	FDW-So.1	8/14/14	1425		X													1	
10	TDW-H <sub>2</sub> O	8/14/14	1430		X													1	
11	TRIP Blank			X			X											2	
12																			
13																			
14																			
RELINQUISHED BY <i>[Signature]</i>		DATE/TIME 8/5/14 0905		RECEIVED BY <i>[Signature]</i>		DATE/TIME 8/5/14 8:05		PROJECT INFORMATION PROJECT NAME: <b>Cessna</b> PROJECT #: _____ SITE ADDRESS: <b>Columbus, GA</b> SEND REPORT TO: <b>Andrew Romanek / Tom Duffey</b> INVOICE TO: (IF DIFFERENT FROM ABOVE) <b>Romanek AR@CDMSmith.com</b> <b>Duffey JT@CDMSmith.com</b> QUOTE #: _____ PO#: _____										RECEIPT Total # of Containers: <b>41</b> Turnaround Time Request: <input checked="" type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other _____ STATE PROGRAM (if any): _____ E-mail? Y/N: _____ Fax? Y/N _____ DATA PACKAGE: I II III	
SPECIAL INSTRUCTIONS/COMMENTS: <b>Labs only provided 6 H<sub>2</sub>SO<sub>4</sub> preserved bottles. Had to collect MW-1A COD in unpreserved bottle.</b>				SHIPMENT METHOD OUT / / VIA: IN / / VIA: <input checked="" type="radio"/> CLIENT <input type="radio"/> FedEx <input type="radio"/> UPS MAIL COURIER <input type="radio"/> GREYHOUND OTHER _____															

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLING. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water  
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> DUP-1
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 8/4/2014 8:00:00 AM
<b>Lab ID:</b> 1408202-001	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
1,1-Dichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
1,1-Dichloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
1,2-Dibromoethane	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
1,2-Dichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
1,2-Dichloropropane	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
2-Butanone	BRL	50		ug/L	194587	1	08/07/2014 04:15	GK
2-Hexanone	BRL	10		ug/L	194587	1	08/07/2014 04:15	GK
4-Methyl-2-pentanone	BRL	10		ug/L	194587	1	08/07/2014 04:15	GK
Acetone	BRL	50		ug/L	194587	1	08/07/2014 04:15	GK
Benzene	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
Bromodichloromethane	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
Bromoform	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
Bromomethane	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
Carbon disulfide	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
Carbon tetrachloride	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
Chlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
Chloroethane	BRL	10		ug/L	194587	1	08/07/2014 04:15	GK
Chloroform	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
Chloromethane	BRL	10		ug/L	194587	1	08/07/2014 04:15	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
Cyclohexane	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
Dibromochloromethane	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
Dichlorodifluoromethane	BRL	10		ug/L	194587	1	08/07/2014 04:15	GK
Ethylbenzene	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
Freon-113	BRL	10		ug/L	194587	1	08/07/2014 04:15	GK
Isopropylbenzene	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
m,p-Xylene	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
Methyl acetate	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
Methylcyclohexane	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
Methylene chloride	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
o-Xylene	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> DUP-1
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 8/4/2014 8:00:00 AM
<b>Lab ID:</b> 1408202-001	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
Tetrachloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
Toluene	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
Trichloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
Trichlorofluoromethane	BRL	5.0		ug/L	194587	1	08/07/2014 04:15	GK
Vinyl chloride	BRL	2.0		ug/L	194587	1	08/07/2014 04:15	GK
Surr: 4-Bromofluorobenzene	92	66.2-120		%REC	194587	1	08/07/2014 04:15	GK
Surr: Dibromofluoromethane	101	79.5-121		%REC	194587	1	08/07/2014 04:15	GK
Surr: Toluene-d8	102	77-117		%REC	194587	1	08/07/2014 04:15	GK

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Aug-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> GW-8
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 8/4/2014 9:50:00 AM
<b>Lab ID:</b> 1408202-002	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
1,1-Dichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
1,1-Dichloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
1,2-Dibromoethane	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
1,2-Dichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
1,2-Dichloropropane	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
2-Butanone	BRL	50		ug/L	194587	1	08/07/2014 04:43	GK
2-Hexanone	BRL	10		ug/L	194587	1	08/07/2014 04:43	GK
4-Methyl-2-pentanone	BRL	10		ug/L	194587	1	08/07/2014 04:43	GK
Acetone	BRL	50		ug/L	194587	1	08/07/2014 04:43	GK
Benzene	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
Bromodichloromethane	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
Bromoform	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
Bromomethane	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
Carbon disulfide	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
Carbon tetrachloride	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
Chlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
Chloroethane	BRL	10		ug/L	194587	1	08/07/2014 04:43	GK
Chloroform	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
Chloromethane	BRL	10		ug/L	194587	1	08/07/2014 04:43	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
Cyclohexane	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
Dibromochloromethane	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
Dichlorodifluoromethane	BRL	10		ug/L	194587	1	08/07/2014 04:43	GK
Ethylbenzene	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
Freon-113	BRL	10		ug/L	194587	1	08/07/2014 04:43	GK
Isopropylbenzene	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
m,p-Xylene	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
Methyl acetate	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
Methylcyclohexane	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
Methylene chloride	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
o-Xylene	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> GW-8
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 8/4/2014 9:50:00 AM
<b>Lab ID:</b> 1408202-002	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
Tetrachloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
Toluene	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
Trichloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
Trichlorofluoromethane	BRL	5.0		ug/L	194587	1	08/07/2014 04:43	GK
Vinyl chloride	BRL	2.0		ug/L	194587	1	08/07/2014 04:43	GK
Surr: 4-Bromofluorobenzene	90.4	66.2-120		%REC	194587	1	08/07/2014 04:43	GK
Surr: Dibromofluoromethane	103	79.5-121		%REC	194587	1	08/07/2014 04:43	GK
Surr: Toluene-d8	103	77-117		%REC	194587	1	08/07/2014 04:43	GK
<b>GC Analysis of Gaseous Samples SOP-RSK 175</b>					<b>(RSK175)</b>			
Ethane	BRL	9		ug/L	194468	1	08/05/2014 10:37	JM
Ethylene	BRL	7		ug/L	194468	1	08/05/2014 10:37	JM
Methane	BRL	4		ug/L	194468	1	08/05/2014 10:37	JM
<b>Chemical Oxygen Demand (COD) E410.4</b>								
Chemical Oxygen Demand	BRL	10.0		mg/L	R273158	1	08/06/2014 10:45	MG

**Qualifiers:**

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- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Aug-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-2A
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 8/4/2014 10:30:00 AM
<b>Lab ID:</b> 1408202-003	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
1,1-Dichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
1,1-Dichloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
1,2-Dibromoethane	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
1,2-Dichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
1,2-Dichloropropane	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
2-Butanone	BRL	50		ug/L	194587	1	08/07/2014 05:11	GK
2-Hexanone	BRL	10		ug/L	194587	1	08/07/2014 05:11	GK
4-Methyl-2-pentanone	BRL	10		ug/L	194587	1	08/07/2014 05:11	GK
Acetone	BRL	50		ug/L	194587	1	08/07/2014 05:11	GK
Benzene	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
Bromodichloromethane	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
Bromoform	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
Bromomethane	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
Carbon disulfide	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
Carbon tetrachloride	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
Chlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
Chloroethane	BRL	10		ug/L	194587	1	08/07/2014 05:11	GK
Chloroform	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
Chloromethane	BRL	10		ug/L	194587	1	08/07/2014 05:11	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
Cyclohexane	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
Dibromochloromethane	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
Dichlorodifluoromethane	BRL	10		ug/L	194587	1	08/07/2014 05:11	GK
Ethylbenzene	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
Freon-113	BRL	10		ug/L	194587	1	08/07/2014 05:11	GK
Isopropylbenzene	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
m,p-Xylene	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
Methyl acetate	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
Methylcyclohexane	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
Methylene chloride	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
o-Xylene	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-2A
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 8/4/2014 10:30:00 AM
<b>Lab ID:</b> 1408202-003	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5030B)</b>				
Styrene	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
Tetrachloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
Toluene	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
Trichloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
Trichlorofluoromethane	BRL	5.0		ug/L	194587	1	08/07/2014 05:11	GK
Vinyl chloride	BRL	2.0		ug/L	194587	1	08/07/2014 05:11	GK
Surr: 4-Bromofluorobenzene	91.2	66.2-120		%REC	194587	1	08/07/2014 05:11	GK
Surr: Dibromofluoromethane	98.7	79.5-121		%REC	194587	1	08/07/2014 05:11	GK
Surr: Toluene-d8	100	77-117		%REC	194587	1	08/07/2014 05:11	GK
<b>GC Analysis of Gaseous Samples SOP-RSK 175</b>				<b>(RSK175)</b>				
Ethane	BRL	9		ug/L	194468	1	08/05/2014 10:41	JM
Ethylene	BRL	7		ug/L	194468	1	08/05/2014 10:41	JM
Methane	12	4		ug/L	194468	1	08/05/2014 10:41	JM
<b>Chemical Oxygen Demand (COD) E410.4</b>								
Chemical Oxygen Demand	BRL	10.0		mg/L	R273158	1	08/06/2014 10:45	MG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 11-Aug-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-3B
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 8/4/2014 11:10:00 AM
<b>Lab ID:</b> 1408202-004	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
1,1-Dichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
1,1-Dichloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
1,2-Dibromoethane	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
1,2-Dichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
1,2-Dichloropropane	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
2-Butanone	BRL	50		ug/L	194587	1	08/07/2014 05:40	GK
2-Hexanone	BRL	10		ug/L	194587	1	08/07/2014 05:40	GK
4-Methyl-2-pentanone	BRL	10		ug/L	194587	1	08/07/2014 05:40	GK
Acetone	BRL	50		ug/L	194587	1	08/07/2014 05:40	GK
Benzene	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
Bromodichloromethane	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
Bromoform	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
Bromomethane	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
Carbon disulfide	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
Carbon tetrachloride	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
Chlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
Chloroethane	BRL	10		ug/L	194587	1	08/07/2014 05:40	GK
Chloroform	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
Chloromethane	BRL	10		ug/L	194587	1	08/07/2014 05:40	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
Cyclohexane	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
Dibromochloromethane	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
Dichlorodifluoromethane	BRL	10		ug/L	194587	1	08/07/2014 05:40	GK
Ethylbenzene	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
Freon-113	BRL	10		ug/L	194587	1	08/07/2014 05:40	GK
Isopropylbenzene	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
m,p-Xylene	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
Methyl acetate	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
Methylcyclohexane	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
Methylene chloride	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
o-Xylene	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-3B
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 8/4/2014 11:10:00 AM
<b>Lab ID:</b> 1408202-004	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
Tetrachloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
Toluene	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
Trichloroethene	71	5.0		ug/L	194587	1	08/07/2014 05:40	GK
Trichlorofluoromethane	BRL	5.0		ug/L	194587	1	08/07/2014 05:40	GK
Vinyl chloride	BRL	2.0		ug/L	194587	1	08/07/2014 05:40	GK
Surr: 4-Bromofluorobenzene	91.1	66.2-120		%REC	194587	1	08/07/2014 05:40	GK
Surr: Dibromofluoromethane	102	79.5-121		%REC	194587	1	08/07/2014 05:40	GK
Surr: Toluene-d8	103	77-117		%REC	194587	1	08/07/2014 05:40	GK
<b>GC Analysis of Gaseous Samples SOP-RSK 175</b>					<b>(RSK175)</b>			
Ethane	BRL	9		ug/L	194468	1	08/05/2014 10:48	JM
Ethylene	BRL	7		ug/L	194468	1	08/05/2014 10:48	JM
Methane	BRL	4		ug/L	194468	1	08/05/2014 10:48	JM
<b>Chemical Oxygen Demand (COD) E410.4</b>								
Chemical Oxygen Demand	BRL	10.0		mg/L	R273158	1	08/06/2014 10:45	MG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 11-Aug-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-3A
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 8/4/2014 11:45:00 AM
<b>Lab ID:</b> 1408202-005	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
1,1-Dichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
1,1-Dichloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
1,2-Dibromoethane	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
1,2-Dichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
1,2-Dichloropropane	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
2-Butanone	BRL	50		ug/L	194587	1	08/07/2014 06:08	GK
2-Hexanone	BRL	10		ug/L	194587	1	08/07/2014 06:08	GK
4-Methyl-2-pentanone	BRL	10		ug/L	194587	1	08/07/2014 06:08	GK
Acetone	BRL	50		ug/L	194587	1	08/07/2014 06:08	GK
Benzene	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
Bromodichloromethane	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
Bromoform	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
Bromomethane	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
Carbon disulfide	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
Carbon tetrachloride	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
Chlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
Chloroethane	BRL	10		ug/L	194587	1	08/07/2014 06:08	GK
Chloroform	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
Chloromethane	BRL	10		ug/L	194587	1	08/07/2014 06:08	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
Cyclohexane	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
Dibromochloromethane	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
Dichlorodifluoromethane	BRL	10		ug/L	194587	1	08/07/2014 06:08	GK
Ethylbenzene	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
Freon-113	BRL	10		ug/L	194587	1	08/07/2014 06:08	GK
Isopropylbenzene	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
m,p-Xylene	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
Methyl acetate	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
Methylcyclohexane	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
Methylene chloride	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
o-Xylene	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-3A
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 8/4/2014 11:45:00 AM
<b>Lab ID:</b> 1408202-005	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
Tetrachloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
Toluene	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
Trichloroethene	160	5.0		ug/L	194587	1	08/07/2014 06:08	GK
Trichlorofluoromethane	BRL	5.0		ug/L	194587	1	08/07/2014 06:08	GK
Vinyl chloride	BRL	2.0		ug/L	194587	1	08/07/2014 06:08	GK
Surr: 4-Bromofluorobenzene	90.6	66.2-120		%REC	194587	1	08/07/2014 06:08	GK
Surr: Dibromofluoromethane	101	79.5-121		%REC	194587	1	08/07/2014 06:08	GK
Surr: Toluene-d8	102	77-117		%REC	194587	1	08/07/2014 06:08	GK
<b>GC Analysis of Gaseous Samples SOP-RSK 175</b>					<b>(RSK175)</b>			
Ethane	BRL	9		ug/L	194468	1	08/05/2014 10:57	JM
Ethylene	BRL	7		ug/L	194468	1	08/05/2014 10:57	JM
Methane	BRL	4		ug/L	194468	1	08/05/2014 10:57	JM
<b>Chemical Oxygen Demand (COD) E410.4</b>								
Chemical Oxygen Demand	BRL	10.0		mg/L	R273158	1	08/06/2014 10:45	MG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Aug-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-4B
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 8/4/2014 12:35:00 PM
<b>Lab ID:</b> 1408202-006	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
1,1-Dichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
1,1-Dichloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
1,2-Dibromoethane	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
1,2-Dichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
1,2-Dichloropropane	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
2-Butanone	BRL	50		ug/L	194587	1	08/07/2014 12:12	GK
2-Hexanone	BRL	10		ug/L	194587	1	08/07/2014 12:12	GK
4-Methyl-2-pentanone	BRL	10		ug/L	194587	1	08/07/2014 12:12	GK
Acetone	BRL	50		ug/L	194587	1	08/07/2014 12:12	GK
Benzene	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
Bromodichloromethane	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
Bromoform	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
Bromomethane	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
Carbon disulfide	6.8	5.0		ug/L	194587	1	08/07/2014 12:12	GK
Carbon tetrachloride	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
Chlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
Chloroethane	BRL	10		ug/L	194587	1	08/07/2014 12:12	GK
Chloroform	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
Chloromethane	BRL	10		ug/L	194587	1	08/07/2014 12:12	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
Cyclohexane	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
Dibromochloromethane	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
Dichlorodifluoromethane	BRL	10		ug/L	194587	1	08/07/2014 12:12	GK
Ethylbenzene	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
Freon-113	BRL	10		ug/L	194587	1	08/07/2014 12:12	GK
Isopropylbenzene	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
m,p-Xylene	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
Methyl acetate	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
Methylcyclohexane	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
Methylene chloride	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
o-Xylene	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-4B
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 8/4/2014 12:35:00 PM
<b>Lab ID:</b> 1408202-006	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
Tetrachloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
Toluene	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
Trichloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
Trichlorofluoromethane	BRL	5.0		ug/L	194587	1	08/07/2014 12:12	GK
Vinyl chloride	BRL	2.0		ug/L	194587	1	08/07/2014 12:12	GK
Surr: 4-Bromofluorobenzene	89.5	66.2-120		%REC	194587	1	08/07/2014 12:12	GK
Surr: Dibromofluoromethane	105	79.5-121		%REC	194587	1	08/07/2014 12:12	GK
Surr: Toluene-d8	102	77-117		%REC	194587	1	08/07/2014 12:12	GK
<b>GC Analysis of Gaseous Samples SOP-RSK 175</b>					<b>(RSK175)</b>			
Ethane	BRL	9		ug/L	194468	1	08/05/2014 11:02	JM
Ethylene	BRL	7		ug/L	194468	1	08/05/2014 11:02	JM
Methane	BRL	4		ug/L	194468	1	08/05/2014 11:02	JM
<b>Chemical Oxygen Demand (COD) E410.4</b>								
Chemical Oxygen Demand	11.0	10.0		mg/L	R273158	1	08/06/2014 10:45	MG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-4A
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 8/4/2014 1:10:00 PM
<b>Lab ID:</b> 1408202-007	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
1,1-Dichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
1,1-Dichloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
1,2-Dibromoethane	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
1,2-Dichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
1,2-Dichloropropane	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
2-Butanone	BRL	50		ug/L	194587	1	08/07/2014 07:03	GK
2-Hexanone	BRL	10		ug/L	194587	1	08/07/2014 07:03	GK
4-Methyl-2-pentanone	BRL	10		ug/L	194587	1	08/07/2014 07:03	GK
Acetone	BRL	50		ug/L	194587	1	08/07/2014 07:03	GK
Benzene	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
Bromodichloromethane	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
Bromoform	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
Bromomethane	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
Carbon disulfide	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
Carbon tetrachloride	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
Chlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
Chloroethane	BRL	10		ug/L	194587	1	08/07/2014 07:03	GK
Chloroform	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
Chloromethane	BRL	10		ug/L	194587	1	08/07/2014 07:03	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
Cyclohexane	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
Dibromochloromethane	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
Dichlorodifluoromethane	BRL	10		ug/L	194587	1	08/07/2014 07:03	GK
Ethylbenzene	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
Freon-113	BRL	10		ug/L	194587	1	08/07/2014 07:03	GK
Isopropylbenzene	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
m,p-Xylene	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
Methyl acetate	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
Methylcyclohexane	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
Methylene chloride	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
o-Xylene	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-4A
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 8/4/2014 1:10:00 PM
<b>Lab ID:</b> 1408202-007	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
Tetrachloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
Toluene	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
Trichloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
Trichlorofluoromethane	BRL	5.0		ug/L	194587	1	08/07/2014 07:03	GK
Vinyl chloride	BRL	2.0		ug/L	194587	1	08/07/2014 07:03	GK
Surr: 4-Bromofluorobenzene	90.9	66.2-120		%REC	194587	1	08/07/2014 07:03	GK
Surr: Dibromofluoromethane	101	79.5-121		%REC	194587	1	08/07/2014 07:03	GK
Surr: Toluene-d8	102	77-117		%REC	194587	1	08/07/2014 07:03	GK
<b>GC Analysis of Gaseous Samples SOP-RSK 175</b>					<b>(RSK175)</b>			
Ethane	BRL	9		ug/L	194468	1	08/05/2014 11:11	JM
Ethylene	BRL	7		ug/L	194468	1	08/05/2014 11:11	JM
Methane	BRL	4		ug/L	194468	1	08/05/2014 11:11	JM
<b>Chemical Oxygen Demand (COD) E410.4</b>								
Chemical Oxygen Demand	BRL	10.0		mg/L	R273158	1	08/06/2014 10:45	MG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 11-Aug-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-1A
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 8/4/2014 1:55:00 PM
<b>Lab ID:</b> 1408202-008	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
1,1-Dichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
1,1-Dichloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
1,2-Dibromoethane	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
1,2-Dichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
1,2-Dichloropropane	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
2-Butanone	BRL	50		ug/L	194587	1	08/07/2014 07:31	GK
2-Hexanone	BRL	10		ug/L	194587	1	08/07/2014 07:31	GK
4-Methyl-2-pentanone	BRL	10		ug/L	194587	1	08/07/2014 07:31	GK
Acetone	BRL	50		ug/L	194587	1	08/07/2014 07:31	GK
Benzene	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
Bromodichloromethane	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
Bromoform	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
Bromomethane	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
Carbon disulfide	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
Carbon tetrachloride	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
Chlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
Chloroethane	BRL	10		ug/L	194587	1	08/07/2014 07:31	GK
Chloroform	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
Chloromethane	BRL	10		ug/L	194587	1	08/07/2014 07:31	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
Cyclohexane	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
Dibromochloromethane	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
Dichlorodifluoromethane	BRL	10		ug/L	194587	1	08/07/2014 07:31	GK
Ethylbenzene	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
Freon-113	BRL	10		ug/L	194587	1	08/07/2014 07:31	GK
Isopropylbenzene	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
m,p-Xylene	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
Methyl acetate	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
Methylcyclohexane	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
Methylene chloride	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
o-Xylene	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-1A
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 8/4/2014 1:55:00 PM
<b>Lab ID:</b> 1408202-008	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
Tetrachloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
Toluene	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
Trichloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
Trichlorofluoromethane	BRL	5.0		ug/L	194587	1	08/07/2014 07:31	GK
Vinyl chloride	BRL	2.0		ug/L	194587	1	08/07/2014 07:31	GK
Surr: 4-Bromofluorobenzene	91.6	66.2-120		%REC	194587	1	08/07/2014 07:31	GK
Surr: Dibromofluoromethane	105	79.5-121		%REC	194587	1	08/07/2014 07:31	GK
Surr: Toluene-d8	103	77-117		%REC	194587	1	08/07/2014 07:31	GK
<b>GC Analysis of Gaseous Samples SOP-RSK 175</b>					<b>(RSK175)</b>			
Ethane	BRL	9		ug/L	194468	1	08/05/2014 11:15	JM
Ethylene	BRL	7		ug/L	194468	1	08/05/2014 11:15	JM
Methane	BRL	4		ug/L	194468	1	08/05/2014 11:15	JM
<b>Chemical Oxygen Demand (COD) E410.4</b>								
Chemical Oxygen Demand	BRL	10.0		mg/L	R273158	1	08/06/2014 10:45	MG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit





Analytical Environmental Services, Inc

Date: 11-Aug-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> TRIP BLANK
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 8/4/2014
<b>Lab ID:</b> 1408202-011	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
1,1-Dichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
1,1-Dichloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
1,2-Dibromoethane	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
1,2-Dichloroethane	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
1,2-Dichloropropane	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
2-Butanone	BRL	50		ug/L	194587	1	08/07/2014 11:43	GK
2-Hexanone	BRL	10		ug/L	194587	1	08/07/2014 11:43	GK
4-Methyl-2-pentanone	BRL	10		ug/L	194587	1	08/07/2014 11:43	GK
Acetone	BRL	50		ug/L	194587	1	08/07/2014 11:43	GK
Benzene	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
Bromodichloromethane	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
Bromoform	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
Bromomethane	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
Carbon disulfide	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
Carbon tetrachloride	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
Chlorobenzene	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
Chloroethane	BRL	10		ug/L	194587	1	08/07/2014 11:43	GK
Chloroform	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
Chloromethane	BRL	10		ug/L	194587	1	08/07/2014 11:43	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
Cyclohexane	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
Dibromochloromethane	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
Dichlorodifluoromethane	BRL	10		ug/L	194587	1	08/07/2014 11:43	GK
Ethylbenzene	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
Freon-113	BRL	10		ug/L	194587	1	08/07/2014 11:43	GK
Isopropylbenzene	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
m,p-Xylene	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
Methyl acetate	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
Methylcyclohexane	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
Methylene chloride	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
o-Xylene	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> TRIP BLANK
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 8/4/2014
<b>Lab ID:</b> 1408202-011	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
Tetrachloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
Toluene	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
Trichloroethene	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
Trichlorofluoromethane	BRL	5.0		ug/L	194587	1	08/07/2014 11:43	GK
Vinyl chloride	BRL	2.0		ug/L	194587	1	08/07/2014 11:43	GK
Surr: 4-Bromofluorobenzene	89.8	66.2-120		%REC	194587	1	08/07/2014 11:43	GK
Surr: Dibromofluoromethane	102	79.5-121		%REC	194587	1	08/07/2014 11:43	GK
Surr: Toluene-d8	102	77-117		%REC	194587	1	08/07/2014 11:43	GK

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client CDM Smith

Work Order Number 1408202

Checklist completed by [Signature] 8/5/14  
Signature Date

Carrier name: FedEx  UPS  Courier  Client  US Mail  Other

Shipping container/cooler in good condition? Yes  No  Not Present

Custody seals intact on shipping container/cooler? Yes  No  Not Present

Custody seals intact on sample bottles? Yes  No  Not Present

Container/Temp Blank temperature in compliance? (4°C±2)\* Yes  No

Cooler #1 3.2 Cooler #2 \_\_\_\_\_ Cooler #3 \_\_\_\_\_ Cooler #4 \_\_\_\_\_ Cooler#5 \_\_\_\_\_ Cooler #6 \_\_\_\_\_

Chain of custody present? Yes  No

Chain of custody signed when relinquished and received? Yes  No

Chain of custody agrees with sample labels? Yes  No

Samples in proper container/bottle? Yes  No

Sample containers intact? Yes  No

Sufficient sample volume for indicated test? Yes  No

All samples received within holding time? Yes  No

Was TAT marked on the COC? Yes  No

Proceed with Standard TAT as per project history? Yes  No  Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No

Water - pH acceptable upon receipt? Yes  No  Not Applicable

Adjusted? JB Checked by JB

Sample Condition: Good  Other(Explain) \_\_\_\_\_

(For diffusive samples or AIHA lead) Is a known blank included? Yes  No

See Case Narrative for resolution of the Non-Conformance.

\* Samples do not have to comply with the given range for certain parameters.



Client: CDM Smith Inc.  
 Project Name: CESSNA  
 Workorder: 1408202

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 194468

Sample ID: <b>MB-194468</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>08/05/2014</b>	Run No: <b>273074</b>							
SampleType: <b>MBLK</b>	TestCode: <b>GC Analysis of Gaseous Samples SOP-RSK 175</b>	BatchID: <b>194468</b>	Analysis Date: <b>08/05/2014</b>	Seq No: <b>5762356</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane  
 Ethylene  
 Methane

BRL 9  
 BRL 7  
 BRL 4

Sample ID: <b>LCS-194468</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>08/05/2014</b>	Run No: <b>273074</b>							
SampleType: <b>LCS</b>	TestCode: <b>GC Analysis of Gaseous Samples SOP-RSK 175</b>	BatchID: <b>194468</b>	Analysis Date: <b>08/05/2014</b>	Seq No: <b>5762456</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane  
 Ethylene  
 Methane

108.1 9 200.0 54.1 41.6 115  
 71.67 7 200.0 35.8 26.9 115  
 117.9 4 200.0 59.0 45.2 115

Sample ID: <b>LCSD-194468</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>08/05/2014</b>	Run No: <b>273074</b>							
SampleType: <b>LCSD</b>	TestCode: <b>GC Analysis of Gaseous Samples SOP-RSK 175</b>	BatchID: <b>194468</b>	Analysis Date: <b>08/05/2014</b>	Seq No: <b>5762367</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane  
 Ethylene  
 Methane

102.6 9 200.0 51.3 41.6 115 108.1 5.23 20  
 68.04 7 200.0 34.0 26.9 115 71.67 5.20 20  
 112.0 4 200.0 56.0 45.2 115 117.9 5.14 20

Sample ID: <b>1408202-002BMS</b>	Client ID: <b>GW-8</b>	Units: <b>ug/L</b>	Prep Date: <b>08/05/2014</b>	Run No: <b>273074</b>							
SampleType: <b>MS</b>	TestCode: <b>GC Analysis of Gaseous Samples SOP-RSK 175</b>	BatchID: <b>194468</b>	Analysis Date: <b>08/05/2014</b>	Seq No: <b>5762406</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane  
 Ethylene  
 Methane

124.4 9 200.0 62.2 40.1 115  
 83.22 7 200.0 41.6 24.5 115  
 137.9 4 200.0 69.0 41.1 115

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: CDM Smith Inc.  
 Project Name: CESSNA  
 Workorder: 1408202

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 194468

Sample ID: <b>1408202-002BMSD</b>	Client ID: <b>GW-8</b>	Units: <b>ug/L</b>	Prep Date: <b>08/05/2014</b>	Run No: <b>273074</b>							
SampleType: <b>MSD</b>	TestCode: <b>GC Analysis of Gaseous Samples SOP-RSK 175</b>	BatchID: <b>194468</b>	Analysis Date: <b>08/05/2014</b>	Seq No: <b>5762412</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethane	126.8	9	200.0		63.4	40.1	115	124.4	1.89	20	
Ethylene	84.83	7	200.0		42.4	24.5	115	83.22	1.91	20	
Methane	140.3	4	200.0		70.2	41.1	115	137.9	1.71	20	

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** CDM Smith Inc.  
**Project Name:** CESSNA  
**Workorder:** 1408202

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 194587**

Sample ID: <b>MB-194587</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>08/06/2014</b>	Run No: <b>273193</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>194587</b>	Analysis Date: <b>08/06/2014</b>	Seq No: <b>5765174</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: CDM Smith Inc.  
 Project Name: CESSNA  
 Workorder: 1408202

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 194587

Sample ID: <b>MB-194587</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>08/06/2014</b>	Run No: <b>273193</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>194587</b>	Analysis Date: <b>08/06/2014</b>	Seq No: <b>5765174</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	47.13	0	50.00		94.3	66.2	120				
Surr: Dibromofluoromethane	50.14	0	50.00		100	79.5	121				
Surr: Toluene-d8	50.94	0	50.00		102	77	117				

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** CDM Smith Inc.  
**Project Name:** CESSNA  
**Workorder:** 1408202

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 194587**

Sample ID: <b>LCS-194587</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>08/06/2014</b>	Run No: <b>273193</b>							
SampleType: <b>LCS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>194587</b>	Analysis Date: <b>08/06/2014</b>	Seq No: <b>5765172</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	48.79	5.0	50.00		97.6	63.1	140				
Benzene	47.74	5.0	50.00		95.5	74.2	129				
Chlorobenzene	49.16	5.0	50.00		98.3	70	129				
Toluene	50.79	5.0	50.00		102	74.2	129				
Trichloroethene	50.90	5.0	50.00		102	71.2	135				
Surr: 4-Bromofluorobenzene	47.47	0	50.00		94.9	66.2	120				
Surr: Dibromofluoromethane	48.45	0	50.00		96.9	79.5	121				
Surr: Toluene-d8	50.55	0	50.00		101	77	117				

Sample ID: <b>1408335-001AMS</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>08/06/2014</b>	Run No: <b>273193</b>							
SampleType: <b>MS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>194587</b>	Analysis Date: <b>08/07/2014</b>	Seq No: <b>5765181</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	50.16	5.0	50.00		100	60.2	159				
Benzene	48.59	5.0	50.00		97.2	70.2	138				
Chlorobenzene	50.45	5.0	50.00		101	70.1	133				
Toluene	51.90	5.0	50.00		104	70	139				
Trichloroethene	56.30	5.0	50.00	5.710	101	70.1	144				
Surr: 4-Bromofluorobenzene	46.47	0	50.00		92.9	66.2	120				
Surr: Dibromofluoromethane	49.58	0	50.00		99.2	79.5	121				
Surr: Toluene-d8	49.70	0	50.00		99.4	77	117				

Sample ID: <b>1408335-001AMSD</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>08/06/2014</b>	Run No: <b>273193</b>							
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>194587</b>	Analysis Date: <b>08/07/2014</b>	Seq No: <b>5765182</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	52.20	5.0	50.00		104	60.2	159	50.16	3.99	19.2	
Benzene	50.17	5.0	50.00		100	70.2	138	48.59	3.20	20	

**Qualifiers:**

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



Client: CDM Smith Inc.  
 Project Name: CESSNA  
 Workorder: 1408202

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 194587

Sample ID: <b>1408335-001AMSD</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>08/06/2014</b>	Run No: <b>273193</b>
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>194587</b>	Analysis Date: <b>08/07/2014</b>	Seq No: <b>5765182</b>

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	51.99	5.0	50.00		104	70.1	133	50.45	3.01	20	
Toluene	53.34	5.0	50.00		107	70	139	51.90	2.74	20	
Trichloroethene	57.42	5.0	50.00	5.710	103	70.1	144	56.30	1.97	20	
Surr: 4-Bromofluorobenzene	46.96	0	50.00		93.9	66.2	120	46.47	0	0	
Surr: Dibromofluoromethane	48.61	0	50.00		97.2	79.5	121	49.58	0	0	
Surr: Toluene-d8	50.15	0	50.00		100	77	117	49.70	0	0	

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: CDM Smith Inc.  
 Project Name: CESSNA  
 Workorder: 1408202

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 194628

Sample ID: <b>MB-194628</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>08/07/2014</b>	Run No: <b>273271</b>							
SampleType: <b>MBLK</b>	TestCode: <b>VOLATILES, TCLP SW1311/8260B</b>	BatchID: <b>194628</b>	Analysis Date: <b>08/07/2014</b>	Seq No: <b>5766925</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	0.10									
1,2-Dichloroethane	BRL	0.10									
2-Butanone	BRL	0.20									
Benzene	BRL	0.10									
Carbon tetrachloride	BRL	0.10									
Chlorobenzene	BRL	0.10									
Chloroform	BRL	0.10									
Tetrachloroethene	BRL	0.10									
Trichloroethene	BRL	0.10									
Vinyl chloride	BRL	0.040									
Surr: 4-Bromofluorobenzene	0.9352	0	1.000		93.5	67.9	128				
Surr: Dibromofluoromethane	0.9956	0	1.000		99.6	77.2	124				
Surr: Toluene-d8	1.000	0	1.000		100	71.6	127				

Sample ID: <b>LCS-194628</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>08/07/2014</b>	Run No: <b>273271</b>							
SampleType: <b>LCS</b>	TestCode: <b>VOLATILES, TCLP SW1311/8260B</b>	BatchID: <b>194628</b>	Analysis Date: <b>08/07/2014</b>	Seq No: <b>5766924</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	0.8748	0.10	1.000		87.5	62.3	141				
1,2-Dichloroethane	1.060	0.10	1.000		106	74.1	127				
2-Butanone	2.040	0.20	2.000		102	45.5	137				
Benzene	0.9870	0.10	1.000		98.7	73.5	125				
Carbon tetrachloride	0.7120	0.10	1.000		71.2	55.1	144				
Chlorobenzene	0.9838	0.10	1.000		98.4	75.4	122				
Chloroform	0.9980	0.10	1.000		99.8	68.2	127				
Tetrachloroethene	0.9270	0.10	1.000		92.7	70.3	132				
Trichloroethene	0.9570	0.10	1.000		95.7	70.5	128				
Vinyl chloride	1.041	0.040	1.000		104	54.9	143				

**Qualifiers:**

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** CDM Smith Inc.  
**Project Name:** CESSNA  
**Workorder:** 1408202

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 194628**

Sample ID: <b>LCS-194628</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>08/07/2014</b>	Run No: <b>273271</b>							
SampleType: <b>LCS</b>	TestCode: <b>VOLATILES, TCLP SW1311/8260B</b>	BatchID: <b>194628</b>	Analysis Date: <b>08/07/2014</b>	Seq No: <b>5766924</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: 4-Bromofluorobenzene	0.9960	0	1.000		99.6	67.9	128				
Surr: Dibromofluoromethane	1.010	0	1.000		101	77.2	124				
Surr: Toluene-d8	1.023	0	1.000		102	71.6	127				

Sample ID: <b>1408366-001AMS</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>08/07/2014</b>	Run No: <b>273271</b>							
SampleType: <b>MS</b>	TestCode: <b>VOLATILES, TCLP SW1311/8260B</b>	BatchID: <b>194628</b>	Analysis Date: <b>08/07/2014</b>	Seq No: <b>5766927</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	0.9418	0.10	1.000		94.2	62.3	154				
1,2-Dichloroethane	0.9294	0.10	1.000		92.9	65.8	132				
2-Butanone	1.690	0.20	2.000		84.5	44.2	148				
Benzene	0.9322	0.10	1.000		93.2	72.6	133				
Carbon tetrachloride	0.7594	0.10	1.000		75.9	53.7	151				
Chlorobenzene	0.8940	0.10	1.000		89.4	72	130				
Chloroform	0.9336	0.10	1.000		93.4	63.2	137				
Tetrachloroethene	0.9348	0.10	1.000		93.5	71.9	140				
Trichloroethene	0.9088	0.10	1.000		90.9	68.3	146				
Vinyl chloride	1.166	0.040	1.000		117	54.5	151				
Surr: 4-Bromofluorobenzene	0.9966	0	1.000		99.7	67.9	128				
Surr: Dibromofluoromethane	1.014	0	1.000		101	77.2	124				
Surr: Toluene-d8	1.031	0	1.000		103	71.6	127				

Sample ID: <b>1408366-001ADUP</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>08/07/2014</b>	Run No: <b>273271</b>							
SampleType: <b>DUP</b>	TestCode: <b>VOLATILES, TCLP SW1311/8260B</b>	BatchID: <b>194628</b>	Analysis Date: <b>08/07/2014</b>	Seq No: <b>5766928</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	0.10						0	0	30	
1,2-Dichloroethane	BRL	0.10						0	0	30	

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: CDM Smith Inc.  
 Project Name: CESSNA  
 Workorder: 1408202

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 194628

Sample ID: <b>1408366-001ADUP</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>08/07/2014</b>	Run No: <b>273271</b>							
SampleType: <b>DUP</b>	TestCode: <b>VOLATILES, TCLP SW1311/8260B</b>	BatchID: <b>194628</b>	Analysis Date: <b>08/07/2014</b>	Seq No: <b>5766928</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	BRL	0.20						0	0	30	
Benzene	BRL	0.10						0	0	30	
Carbon tetrachloride	BRL	0.10						0	0	30	
Chlorobenzene	BRL	0.10						0	0	30	
Chloroform	BRL	0.10						0	0	30	
Tetrachloroethene	BRL	0.10						0	0	30	
Trichloroethene	BRL	0.10						0	0	30	
Vinyl chloride	BRL	0.040						0	0	30	
Surr: 4-Bromofluorobenzene	0.9272	0	1.000		92.7	67.9	128	0.9268	0	0	
Surr: Dibromofluoromethane	0.9792	0	1.000		97.9	77.2	124	0.9940	0	0	
Surr: Toluene-d8	0.9990	0	1.000		99.9	71.6	127	1.008	0	0	

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** CDM Smith Inc.  
**Project Name:** CESSNA  
**Workorder:** 1408202

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: R273158**

Sample ID: <b>MB-R273158</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>273158</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Chemical Oxygen Demand (COD) E410.4</b>	BatchID: <b>R273158</b>	Analysis Date: <b>08/06/2014</b>	Seq No: <b>5764109</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chemical Oxygen Demand      BRL                      10.0

Sample ID: <b>LCS-R273158</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>273158</b>							
SampleType: <b>LCS</b>	TestCode: <b>Chemical Oxygen Demand (COD) E410.4</b>	BatchID: <b>R273158</b>	Analysis Date: <b>08/06/2014</b>	Seq No: <b>5764110</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chemical Oxygen Demand      491.7                      10.0                      500.0                      98.3                      90                      110

Sample ID: <b>1408185-001CMS</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>273158</b>							
SampleType: <b>MS</b>	TestCode: <b>Chemical Oxygen Demand (COD) E410.4</b>	BatchID: <b>R273158</b>	Analysis Date: <b>08/06/2014</b>	Seq No: <b>5764113</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chemical Oxygen Demand      397.6                      12.5                      375.0                      106                      90                      110

Sample ID: <b>1408202-005CMS</b>	Client ID: <b>MW-3A</b>	Units: <b>mg/L</b>	Prep Date:	Run No: <b>273158</b>							
SampleType: <b>MS</b>	TestCode: <b>Chemical Oxygen Demand (COD) E410.4</b>	BatchID: <b>R273158</b>	Analysis Date: <b>08/06/2014</b>	Seq No: <b>5764128</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chemical Oxygen Demand      403.2                      12.5                      375.0                      108                      90                      110

Sample ID: <b>1408185-001CMSD</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>273158</b>							
SampleType: <b>MSD</b>	TestCode: <b>Chemical Oxygen Demand (COD) E410.4</b>	BatchID: <b>R273158</b>	Analysis Date: <b>08/06/2014</b>	Seq No: <b>5764114</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chemical Oxygen Demand      403.2                      12.5                      375.0                      108                      90                      110                      397.6                      1.39                      30

**Qualifiers:**      >      Greater than Result value                      <      Less than Result value                      B      Analyte detected in the associated method blank  
 BRL      Below reporting limit                      E      Estimated (value above quantitation range)                      H      Holding times for preparation or analysis exceeded  
 J      Estimated value detected below Reporting Limit                      N      Analyte not NELAC certified                      R      RPD outside limits due to matrix  
 Rpt Lim      Reporting Limit                      S      Spike Recovery outside limits due to matrix



July 17, 2014

Tom Duffey  
CDM Smith Inc.  
3715 Northside Parkway  
Atlanta GA 30327

TEL: (404) 720-1400  
FAX: (404) 467-4130

RE: CESSNA

Dear Tom Duffey:

Order No: 1407783

Analytical Environmental Services, Inc. received 75 samples on July 10, 2014 9:55 am for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

James Forrest  
Project Manager



# ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

AES TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

# CHAIN OF CUSTODY

Work Order: / 40776

Date: 7-7-14 Page 1 of 6

#	SAMPLE ID	SIGNED BY: TOM DUFFY/FRANK MORRIS	SAMPLED		Grab	Composite	Matrix (See codes)	ANALYSIS REQUESTED				REMARKS	No # of Containers	
			DATE	TIME				1	2	3	4			
1	MW-2-1		7-7	1445	X		SO							
2	MW-2-5		7-7	1450	X		SO							
3	MW-2-10		7-7	1455	X		SO							
4	MW-2-15		7-7	1500	X		SO							
5	MW-4-5		7-7	1530	X		SO							
6	MW-4-10		7-7	1535	X		SO							
7	MW-4-11		7-7	1540	X		SO							
8	MW-3-1		7-7	1645	X		SO							
9	MW-3-5		7-7	1650	X		SO							
10	MW-3-10		7-7	1655	X		SO							
11	MW-3-15		7-7	1700	X		SO							
12	SB-4-5		7-8	745	X		SO							
13	SB-4-10		7-8	755	X		SO							
14	SB-4-15		7-8	805	X		SO							
RELINQUISHED BY		DATE/TIME		RECEIVED BY		DATE/TIME		PROJECT INFORMATION						
T. Duffy		7-10-14/955		C. Ochoa		7/10/14 9:55		PROJECT NAME: CESSNA						
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD		VIA:		OUT		PROJECT #:						
		IN		CLIENT		FedEx		SITE ADDRESS: 7800 CAGG DR.						
		UPS		MAIL		COURIER		COLUMBUS GA						
		OTHER		GREYHOUND				SEND REPORT TO: DUFFY@AES.COM						
								INVOICE TO:						
								(IF DIFFERENT FROM ABOVE)						
								QUOTE #:						
								PO#:						
								TURNAROUND TIME REQUEST						
								Standard 5 Business Days						
								2 Business Day Rush						
								Next Business Day Rush						
								Same Day Rush (auth req.)						
								Other						
								Total # of Containers						
								STATE PROGRAM (if any): GA						
								E-mail? <input checked="" type="checkbox"/> N: Fax? Y/N						
								DATA PACKAGE: <input checked="" type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV						

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.

SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original: Yellow Copy - Client



# ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704  
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

# CHAIN OF CUSTODY

Work Order: 140710

Date: 7-8-14 Page 2 of 6

COMPANY: <b>COM Smith</b>		ADDRESS: <b>3715 Northside Dr NW Atlanta, GA 30328</b>		PHONE: <b>770-329-7143</b>		FAX: <b>770-329-7143</b>		SIGNATURE: <i>[Signature]</i>		DATE/TIME RECEIVED BY: <b>7/10/14 9:55</b>		DATE/TIME RECEIVED BY: <b>7/10/14 9:55</b>		DATE/TIME RECEIVED BY: <b>7/10/14 9:55</b>	
SAMPLER BY: <b>TRADUFFEY/FRA</b>		SAMPLER BY: <b>TRADUFFEY/FRA</b>		SAMPLER BY: <b>TRADUFFEY/FRA</b>		SAMPLER BY: <b>TRADUFFEY/FRA</b>		SAMPLER BY: <b>TRADUFFEY/FRA</b>		SAMPLER BY: <b>TRADUFFEY/FRA</b>		SAMPLER BY: <b>TRADUFFEY/FRA</b>		SAMPLER BY: <b>TRADUFFEY/FRA</b>	
#	SAMPLE ID	SAMPLED	TIME	Grab	Composite	Matrix	Matrix	Matrix	Matrix	Matrix	Matrix	Matrix	Matrix	Matrix	Matrix
1	SB-8-GW	7-8	8:55	X		GW	GW	GW	GW	GW	GW	GW	GW	GW	GW
2	SB-9-5	7-8	9:15	X		50	50	50	50	50	50	50	50	50	50
3	SB-9-10	7-8	9:35	X		50	50	50	50	50	50	50	50	50	50
4	SB-9-15	7-8	9:50	X		50	50	50	50	50	50	50	50	50	50
5	SB-13-5	7-8	10:35	X		50	50	50	50	50	50	50	50	50	50
6	SB-13-10	7-8	10:45	X		50	50	50	50	50	50	50	50	50	50
7	SB-13-15	7-8	10:55	X		50	50	50	50	50	50	50	50	50	50
8	SB-13-GW	7-8	11:15	X		6W	6W	6W	6W	6W	6W	6W	6W	6W	6W
9	SB-12-5	7-8	11:30	X		50	50	50	50	50	50	50	50	50	50
10	SB-12-10	7-8	11:40	X		50	50	50	50	50	50	50	50	50	50
11	SB-12-15	7-8	11:50	X		50	50	50	50	50	50	50	50	50	50
12	SB-12-GW	7-8	12:00	X		6W	6W	6W	6W	6W	6W	6W	6W	6W	6W
13	SB-11-5	7-8	12:25	X		50	50	50	50	50	50	50	50	50	50
14	SB-11-10	7-8	12:40	X		50	50	50	50	50	50	50	50	50	50

ANALYSIS REQUESTED

MEASURE

NO MEASURE

REMARKS

Visit our website  
[www.aesatlanta.com](http://www.aesatlanta.com)  
to check on the status of  
your results, place bottle  
orders, etc.

PRESERVATION (See codes)

PROJECT INFORMATION

PROJECT NAME: **CESSNA**

PROJECT #:

SITE ADDRESS: **4800 WOODMAN  
COLUMBUS, GA**

SEND REPORT TO: **pubby.it@aes.com**

INVOICE TO:  
(IF DIFFERENT FROM ABOVE)

QUOTE #:

PO#:

RECEIPT

Total # of Containers

Turnaround Time Request

Standard 5 Business Days

2 Business Day Rush

Next Business Day Rush

Same Day Rush (auth req)

Other

STATE PROGRAM (if any): **GA**

E-mail? **Y** N: **Y** Fax? **Y** / N

DATA PACKAGE: **I** II III IV

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT / / VIA:

IN / / VIA:

CLIENT: **UPS MAIL COURIER**

SHIPMENT METHOD: **UPS MAIL COURIER**

SAMPLES RECEIVED AFTER 3PM ON SATURDAY ARE CONSIDERED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.

SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water

PRESERVATIVE CODES: H+1 = Hydrochloric acid + ice I = Ice only N = Nitric acid S+H = Sulfuric acid + ice SAM+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original: Yellow Copy - Client





ANALYTICAL ENVIRONMENTAL SERVICES, INC  
 3080 Presidential Drive, Atlanta GA 30340-3704  
 TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1407783

Date: 7-8-14 Page 3 of 6

#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	ANALYSIS REQUESTED				REMARKS	No # of Containers	
		DATE	TIME				TOXICANTS	METALS	PRESERVATION (See codes)	OTHER			OTHER
1	SB-11-15	7-8	1250	X		SO							Visit our website <a href="http://www.aesatlanta.com">www.aesatlanta.com</a> to check on the status of your results, place bottle orders, etc.
2	SB-11-6W	7-8	1305	X		GW							
3	SB-10-5	7-8	1320	X		SO							
4	SB-10-10	7-8	1310	X		SO							
5	SB10-15	7-8	1320	X		SO							
6	SB-14-10	7-8	1350	X		SO							
7	SB-14-15	7-8	1400	X		SO							
8	SB-10-6W	7-8	1420	X		GW							
9	SB-15-5	7-8	1420	X		SO							
10	SB-15-10	7-8	1430	X		SO							
11	SB-15-15	7-8	1440	X		SO							
12	SB-16-5	7-8	1500	X		SO							
13	SB-16-10	7-8	1510	X		SO							
14	SB-16-15	7-8	1520	X		SO							

ADDRESS: 3715 Northside Pkwy NW  
 B 300, 5400  
 ATLANTA, GA

PHONE: 770-329-7143  
 FAX: 770-329-7143  
 SIGNATURE: [Signature]

RELINQUISHED BY: [Signature] DATE/TIME: 7-10-14/9:55

RECEIVED BY: [Signature] DATE/TIME: 7-10-14/9:55

PROJECT NAME: CRESSNA

PROJECT #: 4500 CAGRO DR  
 COLUMBUS GA

SEND REPORT TO: [Signature]

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: [Signature]

SHIPMENT METHOD: [Signature]

VIA: [Signature]

CLIENT: [Signature]

UPS MAIL COURIER

GREYHOUND OTHER

SPECIAL INSTRUCTIONS/COMMENTS:

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.

SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SB = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+H = Sulfuric acid + ice SM+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

STATE PROGRAM (if any): 69  
 E-mail: [Signature] N: [Signature] Y/N  
 DATA PACKAGE: I II III IV

Turnaround Time Request:  
 Standard 5 Business Days  
 2 Business Day Rush  
 Next Business Day Rush  
 Same Day Rush (auth req)  
 Other

Total # of Containers

White Copy - Original, Yellow Copy - Client



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1407785

1407785

Date: 7-8-14 Page 4 of 6

#	SAMPLE ID	DATE	TIME	SAMPLED		Grab	Composite	Matrix (See codes)	ANALYSIS REQUESTED				REMARKS	No # of Containers
				DATE	TIME				MC ESTURE	MC ESTURE	MC ESTURE	MC ESTURE		
1	SB-15-GW	7-8	1510	X		X		GW						
2	SB-17-5	7-8	1530	X		X		SO						
3	SB-17-10	7-8	1540	X		X		SO						
4	SB-17-15	7-8	1550	X		X		SO						
5	SB-16-GW	7-8	1540	X		X		GW						
6	SB-18-5	7-8	1605	X		X		SO						
7	SB-18-10	7-8	1620	X		X		SO						
8	SB-18-15	7-8	1630	X		X		SO						
9	SB-18-GW	7-8	1635	X		X		GW						
10	SB-19-5	7-9	800	X		X		SO						
11	SB-19-10	7-9	810	X		X		SO						
12	SB-19-15	7-9	815	X		X		SO						
13	SB-20-5	7-9	830	X		X		SO						
14	SB-20-10	7-9	840	X		X		SO						
RELINQUISHED BY		DATE/TIME		RECEIVED BY		DATE/TIME		PROJECT INFORMATION						
J.P. Pappas		7/10/14/9:55		C. E. SENA		7/10/14 9:55		PROJECT NAME: C.E.SENA						
3		3		3		3		PROJECT #:						
3		3		3		3		SITE ADDRESS: 4400 Camp Dr Columbus, GA						
3		3		3		3		SEND REPORT TO: J.P.PAPPAS@aes.com						
3		3		3		3		INVOICE TO: (IF DIFFERENT FROM ABOVE)						
3		3		3		3		QUOTE #:						
3		3		3		3		SHIPMENT METHOD: CLIENT						
3		3		3		3		SPECIAL INSTRUCTIONS/COMMENTS:						

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

Turnaround Time Request: Standard 5 Business Days, 2 Business Day Rush, Next Business Day Rush, Same Day Rush (auth req.), Other

STATE PROGRAM (if any): GA, E-mail: ON, Fax? Y/N, DATA PACKAGE: 0 II III IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. PRESERVATIVE CODES: H+1 = Hydrochloric acid + ice, I = Ice only, N = Nitric acid, S+I = Sulfuric acid + ice, S/M+I = Sodium Bisulfate/Methanol + ice, O = Other (specify), WW = Waste Water



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1407783

Date: 7-9-14 Page 5 of 6

COMPANY: CDM Smith ADDRESS: 3715 Northside Pkwy SW  
ATLANTA, GA  
 PHONE: 770-329-7143 FAX: \_\_\_\_\_  
 SAMPLED BY: TOM DUFFEY / FRANK MONIZ SIGNATURE: [Signature] Frank A. Moniz  
3715 Northside Pkwy SW  
ATLANTA, GA 30340

#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	ANALYSIS REQUESTED				REMARKS	No # of Containers	
		DATE	TIME				1	2	3	4			
1	SB-20-15	7-9	845	X		SO							
2	SB-19-GW	7-9	850	X		GW							
3	SB-21-5	7-9	855	X		SO							
4	SB-21-10	7-9	905	X		SO							
5	SB-21-15	7-9	910	X		SO							
6	SB-20-GW	7-9	855	X		GW							
7	SB-23-5	7-9	940	X		SO							
8	SB-23-10	7-9	950	X		SO							
9	SB-23-15	7-9	1000	X		SO							
10	SB-21-GW	7-9	1005	X		GW							
11	SB-24-5	7-9	1015	X		SO							
12	SB-24-10	7-9	1025	X		SO							
13	SB-24-15	7-9	1030	X		SO							
14	SB-23-GW	7-9	1035	X		GW							
RELINQUISHED BY: <u>[Signature]</u>		DATE/TIME: <u>7/10/14 9:55</u>		RECEIVED BY: <u>[Signature]</u>		DATE/TIME: <u>7/10/14 9:52</u>		PROJECT INFORMATION					
PROJECT NAME: <u>CESSMA</u>		PROJECT #: <u>4500666-08</u>		SITE ADDRESS: <u>COLUMBUS, GA</u>		SEND REPORT TO: <u>DAFFEY@CDMSM.T4</u>		INVOICE TO: (IF DIFFERENT FROM ABOVE)					
SHIPMENT METHOD: <u>CLIENT</u>		VIA: <u>FedEx</u>		UPS MAIL COURIER		GREYHOUND OTHER		QUOTE #:					
SPECIAL INSTRUCTIONS/COMMENTS:													

RECEIPT  
 Total # of Containers: \_\_\_\_\_  
 Turnaround Time Request:  Standard 5 Business Days  
 2 Business Day Rush  
 Next Business Day Rush  
 Same Day Rush (auth req)  
 Other: \_\_\_\_\_  
 STATE PROGRAM (if any): GA  
 E-mail?  N: \_\_\_\_\_ Fax?  Y / N  
 DATA PACKAGE:  I  II  III  IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.  
 SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.  
 MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water  
 PRESERVATIVE CODES: HH = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice SM+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None



ANALYTICAL ENVIRONMENTAL SERVICES, INC  
3080 Presidential Drive, Atlanta GA 30340-3704  
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1407783

1407783

Date: 7-9-11 Page 6 of 6

#	SAMPLE ID	SAMPLING		Grab	Composite	Matrix (See codes)	ANALYSIS REQUESTED		REMARKS	No # of Containers
		DATE	TIME				PRESERVATION (See codes)			
1	SB-24-GW	7-9	1050	X		GW				
2	SB-22-S	7-9	0940	X		SO				
3	SB-22-10	7-9	0950	X		SO				
4	SB-22-15	7-9	1000	X		SO				
5	SB-23-GW	7-9	1035	X		GW				
6	SB-22-GW	7-9	1215	X		GW				
7										
8										
9										
10										
11										
12										
13										
14										

COMPANY: <b>CDM Smith</b>	ADDRESS: <b>3715 Northside Pkwy NW Atlanta GA</b>
PHONE: <b>770-329-7147</b>	FAX:
SAMPLED BY: <b>Tomperrey/Farrall/Roberts</b>	SIGNATURE: <b>[Signature]</b>

RELINQUISHED BY: <b>[Signature]</b>	DATE/TIME: <b>7-10-11/955</b>
RECEIVED BY: <b>[Signature]</b>	DATE/TIME: <b>7/10/11 9:55</b>

SPECIAL INSTRUCTIONS/COMMENTS:	SHIPMENT METHOD OUT / / VIA: IN (CLIENT) FedEx UPS MAIL COURIER GROUNDROUND OTHER:
--------------------------------	---

PROJECT NAME: <b>CESSNA</b>	PROJECT INFORMATION
PROJECT #: <b>4500000000</b>	
SITE ADDRESS: <b>Columbus GA</b>	
SEND REPORT TO: <b>DIFFERENT FROM ABOVE</b>	
INVOICE TO: <b>DIFFERENT FROM ABOVE</b>	
QUOTE #:	PO#:

RECEIPT	Turnaround Time Request
Total # of Containers	Standard 5 Business Days
	2 Business Day Rush
	Next Business Day Rush
	Same Day Rush (auth req.)
	Other
	STATE PROGRAM (if any): <b>GA</b>
	E-mail? <b>Y/N</b>
	Fax? <b>Y/N</b>
	DATA PACKAGE: <b>I II III IV</b>

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.  
SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water  
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original, Yellow Copy - Client

**Client:** CDM Smith Inc.  
**Project:** CESSNA  
**Lab ID:** 1407783

**Case Narrative**

Sample SB-23-GW was listed twice on the COC however received only one set of vials.

For sample 1407783-007, the sample was identified on lables as "MW-4-15" with date and time matching that of the COC. Sample ID was taken from COC for login.

Volatile Organic Compounds Analysis by Method 8260B:

Percent recovery for the internal standard compound 1,4-Dichlorobenzene-d4 on samples 1407783-001A, -002A, -003A, 045A, -048A, -060A, -064A, & -068A was outside control limits biased low due to suspected matrix interference.

Percent recovery for the internal standard compounds Pentafluorobenzene, and 1,4-Dichlorobenzene-d4 on samples 1407783-004A, & -057A were outside control limits biased low due to suspected matrix interference.

Percent recovery for the internal standard compound Pentafluorobenzene on sample 1407783-017A was outside control limits biased low due to suspected matrix interference.

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-2-1
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/7/2014 2:45:00 PM
<b>Lab ID:</b> 1407783-001	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
1,1,2,2-Tetrachloroethane	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
1,1,2-Trichloroethane	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
1,1-Dichloroethane	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
1,1-Dichloroethene	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
1,2,4-Trichlorobenzene	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
1,2-Dibromo-3-chloropropane	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
1,2-Dibromoethane	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
1,2-Dichlorobenzene	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
1,2-Dichloroethane	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
1,2-Dichloropropane	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
1,3-Dichlorobenzene	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
1,4-Dichlorobenzene	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
2-Butanone	BRL	25		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
2-Hexanone	BRL	5.0		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
4-Methyl-2-pentanone	BRL	5.0		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
Acetone	BRL	50		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
Benzene	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
Bromodichloromethane	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
Bromoform	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
Bromomethane	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
Carbon disulfide	BRL	5.0		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
Carbon tetrachloride	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
Chlorobenzene	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
Chloroethane	BRL	5.0		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
Chloroform	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
Chloromethane	BRL	5.0		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
cis-1,2-Dichloroethene	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
cis-1,3-Dichloropropene	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
Cyclohexane	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
Dibromochloromethane	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
Dichlorodifluoromethane	BRL	5.0		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
Ethylbenzene	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
Freon-113	BRL	5.0		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
Isopropylbenzene	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
m,p-Xylene	2.8	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
Methyl acetate	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
Methyl tert-butyl ether	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
Methylcyclohexane	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
Methylene chloride	BRL	9.9		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
o-Xylene	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-2-1
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/7/2014 2:45:00 PM
<b>Lab ID:</b> 1407783-001	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
Tetrachloroethene	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
Toluene	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
trans-1,2-Dichloroethene	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
trans-1,3-Dichloropropene	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
Trichloroethene	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
Trichlorofluoromethane	BRL	2.5		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
Vinyl chloride	BRL	5.0		ug/Kg-dry	193557	1	07/14/2014 17:21	MD
Surr: 4-Bromofluorobenzene	91.6	70-128		%REC	193557	1	07/14/2014 17:21	MD
Surr: Dibromofluoromethane	111	78.2-128		%REC	193557	1	07/14/2014 17:21	MD
Surr: Toluene-d8	92.1	76.5-116		%REC	193557	1	07/14/2014 17:21	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	13.7	0		wt%	R271609	1	07/12/2014 07:00	SG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-2-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/7/2014 2:50:00 PM
<b>Lab ID:</b> 1407783-002	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
1,1,2,2-Tetrachloroethane	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
1,1,2-Trichloroethane	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
1,1-Dichloroethane	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
1,1-Dichloroethene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
1,2,4-Trichlorobenzene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
1,2-Dibromo-3-chloropropane	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
1,2-Dibromoethane	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
1,2-Dichlorobenzene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
1,2-Dichloroethane	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
1,2-Dichloropropane	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
1,3-Dichlorobenzene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
1,4-Dichlorobenzene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
2-Butanone	BRL	33		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
2-Hexanone	BRL	6.5		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
4-Methyl-2-pentanone	BRL	6.5		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
Acetone	BRL	65		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
Benzene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
Bromodichloromethane	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
Bromoform	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
Bromomethane	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
Carbon disulfide	BRL	6.5		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
Carbon tetrachloride	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
Chlorobenzene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
Chloroethane	BRL	6.5		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
Chloroform	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
Chloromethane	BRL	6.5		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
cis-1,2-Dichloroethene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
cis-1,3-Dichloropropene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
Cyclohexane	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
Dibromochloromethane	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
Dichlorodifluoromethane	BRL	6.5		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
Ethylbenzene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
Freon-113	BRL	6.5		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
Isopropylbenzene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
m,p-Xylene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
Methyl acetate	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
Methyl tert-butyl ether	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
Methylcyclohexane	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
Methylene chloride	BRL	13		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
o-Xylene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-2-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/7/2014 2:50:00 PM
<b>Lab ID:</b> 1407783-002	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
Tetrachloroethene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
Toluene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
trans-1,2-Dichloroethene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
trans-1,3-Dichloropropene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
Trichloroethene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
Trichlorofluoromethane	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
Vinyl chloride	BRL	6.5		ug/Kg-dry	193557	1	07/14/2014 17:48	MD
Surr: 4-Bromofluorobenzene	91.7	70-128		%REC	193557	1	07/14/2014 17:48	MD
Surr: Dibromofluoromethane	110	78.2-128		%REC	193557	1	07/14/2014 17:48	MD
Surr: Toluene-d8	93.1	76.5-116		%REC	193557	1	07/14/2014 17:48	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	15.0	0		wt%	R271609	1	07/12/2014 07:00	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-2-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/7/2014 2:55:00 PM
<b>Lab ID:</b> 1407783-003	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
1,1,2,2-Tetrachloroethane	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
1,1,2-Trichloroethane	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
1,1-Dichloroethane	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
1,1-Dichloroethene	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
1,2,4-Trichlorobenzene	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
1,2-Dibromo-3-chloropropane	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
1,2-Dibromoethane	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
1,2-Dichlorobenzene	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
1,2-Dichloroethane	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
1,2-Dichloropropane	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
1,3-Dichlorobenzene	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
1,4-Dichlorobenzene	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
2-Butanone	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
2-Hexanone	BRL	5.8		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
4-Methyl-2-pentanone	BRL	5.8		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
Acetone	BRL	5.8		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
Benzene	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
Bromodichloromethane	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
Bromoform	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
Bromomethane	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
Carbon disulfide	BRL	5.8		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
Carbon tetrachloride	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
Chlorobenzene	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
Chloroethane	BRL	5.8		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
Chloroform	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
Chloromethane	BRL	5.8		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
cis-1,2-Dichloroethene	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
cis-1,3-Dichloropropene	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
Cyclohexane	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
Dibromochloromethane	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
Dichlorodifluoromethane	BRL	5.8		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
Ethylbenzene	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
Freon-113	BRL	5.8		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
Isopropylbenzene	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
m,p-Xylene	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
Methyl acetate	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
Methyl tert-butyl ether	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
Methylcyclohexane	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
Methylene chloride	BRL	12		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
o-Xylene	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-2-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/7/2014 2:55:00 PM
<b>Lab ID:</b> 1407783-003	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
Tetrachloroethene	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
Toluene	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
trans-1,2-Dichloroethene	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
trans-1,3-Dichloropropene	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
Trichloroethene	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
Trichlorofluoromethane	BRL	2.9		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
Vinyl chloride	BRL	5.8		ug/Kg-dry	193557	1	07/14/2014 18:14	MD
Surr: 4-Bromofluorobenzene	83.8	70-128		%REC	193557	1	07/14/2014 18:14	MD
Surr: Dibromofluoromethane	111	78.2-128		%REC	193557	1	07/14/2014 18:14	MD
Surr: Toluene-d8	91.3	76.5-116		%REC	193557	1	07/14/2014 18:14	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	7.26	0		wt%	R271609	1	07/12/2014 07:00	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-2-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/7/2014 3:00:00 PM
<b>Lab ID:</b> 1407783-004	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
1,1,2,2-Tetrachloroethane	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
1,1,2-Trichloroethane	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
1,1-Dichloroethane	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
1,1-Dichloroethene	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
1,2,4-Trichlorobenzene	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
1,2-Dibromo-3-chloropropane	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
1,2-Dibromoethane	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
1,2-Dichlorobenzene	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
1,2-Dichloroethane	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
1,2-Dichloropropane	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
1,3-Dichlorobenzene	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
1,4-Dichlorobenzene	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
2-Butanone	BRL	28		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
2-Hexanone	BRL	5.7		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
4-Methyl-2-pentanone	BRL	5.7		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
Acetone	BRL	57		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
Benzene	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
Bromodichloromethane	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
Bromoform	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
Bromomethane	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
Carbon disulfide	BRL	5.7		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
Carbon tetrachloride	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
Chlorobenzene	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
Chloroethane	BRL	5.7		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
Chloroform	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
Chloromethane	BRL	5.7		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
cis-1,2-Dichloroethene	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
cis-1,3-Dichloropropene	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
Cyclohexane	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
Dibromochloromethane	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
Dichlorodifluoromethane	BRL	5.7		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
Ethylbenzene	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
Freon-113	BRL	5.7		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
Isopropylbenzene	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
m,p-Xylene	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
Methyl acetate	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
Methyl tert-butyl ether	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
Methylcyclohexane	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
Methylene chloride	BRL	11		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
o-Xylene	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-2-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/7/2014 3:00:00 PM
<b>Lab ID:</b> 1407783-004	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
Tetrachloroethene	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
Toluene	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
trans-1,2-Dichloroethene	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
trans-1,3-Dichloropropene	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
Trichloroethene	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
Trichlorofluoromethane	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
Vinyl chloride	BRL	5.7		ug/Kg-dry	193557	1	07/14/2014 18:41	MD
Surr: 4-Bromofluorobenzene	98.2	70-128		%REC	193557	1	07/14/2014 18:41	MD
Surr: Dibromofluoromethane	113	78.2-128		%REC	193557	1	07/14/2014 18:41	MD
Surr: Toluene-d8	97.9	76.5-116		%REC	193557	1	07/14/2014 18:41	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	14.1	0		wt%	R271609	1	07/12/2014 07:00	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-4-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/7/2014 3:30:00 PM
<b>Lab ID:</b> 1407783-005	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
1,1,2,2-Tetrachloroethane	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
1,1,2-Trichloroethane	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
1,1-Dichloroethane	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
1,1-Dichloroethene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
1,2,4-Trichlorobenzene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
1,2-Dibromo-3-chloropropane	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
1,2-Dibromoethane	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
1,2-Dichlorobenzene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
1,2-Dichloroethane	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
1,2-Dichloropropane	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
1,3-Dichlorobenzene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
1,4-Dichlorobenzene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
2-Butanone	BRL	33		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
2-Hexanone	BRL	6.7		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
4-Methyl-2-pentanone	BRL	6.7		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
Acetone	BRL	67		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
Benzene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
Bromodichloromethane	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
Bromoform	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
Bromomethane	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
Carbon disulfide	BRL	6.7		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
Carbon tetrachloride	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
Chlorobenzene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
Chloroethane	BRL	6.7		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
Chloroform	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
Chloromethane	BRL	6.7		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
cis-1,2-Dichloroethene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
cis-1,3-Dichloropropene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
Cyclohexane	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
Dibromochloromethane	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
Dichlorodifluoromethane	BRL	6.7		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
Ethylbenzene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
Freon-113	BRL	6.7		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
Isopropylbenzene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
m,p-Xylene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
Methyl acetate	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
Methyl tert-butyl ether	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
Methylcyclohexane	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
Methylene chloride	BRL	13		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
o-Xylene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-4-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/7/2014 3:30:00 PM
<b>Lab ID:</b> 1407783-005	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
Styrene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
Tetrachloroethene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
Toluene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
trans-1,2-Dichloroethene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
trans-1,3-Dichloropropene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
Trichloroethene	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
Trichlorofluoromethane	BRL	3.3		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
Vinyl chloride	BRL	6.7		ug/Kg-dry	193557	1	07/14/2014 22:21	MD
Surr: 4-Bromofluorobenzene	88.5	70-128		%REC	193557	1	07/14/2014 22:21	MD
Surr: Dibromofluoromethane	112	78.2-128		%REC	193557	1	07/14/2014 22:21	MD
Surr: Toluene-d8	94.1	76.5-116		%REC	193557	1	07/14/2014 22:21	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	6.76	0		wt%	R271609	1	07/12/2014 07:00	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-4-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/7/2014 3:35:00 PM
<b>Lab ID:</b> 1407783-006	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
1,1,2,2-Tetrachloroethane	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
1,1,2-Trichloroethane	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
1,1-Dichloroethane	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
1,1-Dichloroethene	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
1,2,4-Trichlorobenzene	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
1,2-Dibromo-3-chloropropane	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
1,2-Dibromoethane	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
1,2-Dichlorobenzene	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
1,2-Dichloroethane	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
1,2-Dichloropropane	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
1,3-Dichlorobenzene	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
1,4-Dichlorobenzene	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
2-Butanone	BRL	39		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
2-Hexanone	BRL	7.8		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
4-Methyl-2-pentanone	BRL	7.8		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
Acetone	BRL	78		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
Benzene	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
Bromodichloromethane	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
Bromoform	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
Bromomethane	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
Carbon disulfide	BRL	7.8		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
Carbon tetrachloride	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
Chlorobenzene	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
Chloroethane	BRL	7.8		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
Chloroform	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
Chloromethane	BRL	7.8		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
cis-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
cis-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
Cyclohexane	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
Dibromochloromethane	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
Dichlorodifluoromethane	BRL	7.8		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
Ethylbenzene	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
Freon-113	BRL	7.8		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
Isopropylbenzene	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
m,p-Xylene	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
Methyl acetate	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
Methyl tert-butyl ether	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
Methylcyclohexane	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
Methylene chloride	BRL	16		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
o-Xylene	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-4-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/7/2014 3:35:00 PM
<b>Lab ID:</b> 1407783-006	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
Tetrachloroethene	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
Toluene	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
trans-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
trans-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
Trichloroethene	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
Trichlorofluoromethane	BRL	3.9		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
Vinyl chloride	BRL	7.8		ug/Kg-dry	193565	1	07/14/2014 22:47	MD
Surr: 4-Bromofluorobenzene	88.6	70-128		%REC	193565	1	07/14/2014 22:47	MD
Surr: Dibromofluoromethane	111	78.2-128		%REC	193565	1	07/14/2014 22:47	MD
Surr: Toluene-d8	93.6	76.5-116		%REC	193565	1	07/14/2014 22:47	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	26.2	0		wt%	R271609	1	07/12/2014 07:00	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-4-11
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/7/2014 3:40:00 PM
<b>Lab ID:</b> 1407783-007	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
1,1,2,2-Tetrachloroethane	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
1,1,2-Trichloroethane	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
1,1-Dichloroethane	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
1,1-Dichloroethene	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
1,2,4-Trichlorobenzene	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
1,2-Dibromo-3-chloropropane	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
1,2-Dibromoethane	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
1,2-Dichlorobenzene	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
1,2-Dichloroethane	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
1,2-Dichloropropane	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
1,3-Dichlorobenzene	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
1,4-Dichlorobenzene	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
2-Butanone	BRL	26		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
2-Hexanone	BRL	5.2		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
4-Methyl-2-pentanone	BRL	5.2		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
Acetone	BRL	52		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
Benzene	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
Bromodichloromethane	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
Bromoform	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
Bromomethane	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
Carbon disulfide	BRL	5.2		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
Carbon tetrachloride	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
Chlorobenzene	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
Chloroethane	BRL	5.2		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
Chloroform	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
Chloromethane	BRL	5.2		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
cis-1,2-Dichloroethene	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
cis-1,3-Dichloropropene	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
Cyclohexane	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
Dibromochloromethane	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
Dichlorodifluoromethane	BRL	5.2		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
Ethylbenzene	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
Freon-113	BRL	5.2		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
Isopropylbenzene	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
m,p-Xylene	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
Methyl acetate	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
Methyl tert-butyl ether	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
Methylcyclohexane	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
Methylene chloride	BRL	10		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
o-Xylene	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-4-11
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/7/2014 3:40:00 PM
<b>Lab ID:</b> 1407783-007	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
Tetrachloroethene	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
Toluene	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
trans-1,2-Dichloroethene	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
trans-1,3-Dichloropropene	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
Trichloroethene	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
Trichlorofluoromethane	BRL	2.6		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
Vinyl chloride	BRL	5.2		ug/Kg-dry	193557	1	07/14/2014 23:14	MD
Surr: 4-Bromofluorobenzene	85.9	70-128		%REC	193557	1	07/14/2014 23:14	MD
Surr: Dibromofluoromethane	109	78.2-128		%REC	193557	1	07/14/2014 23:14	MD
Surr: Toluene-d8	92.2	76.5-116		%REC	193557	1	07/14/2014 23:14	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	13.0	0		wt%	R271609	1	07/12/2014 07:00	SG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-3-1
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/7/2014 4:45:00 PM
<b>Lab ID:</b> 1407783-008	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
1,1,2,2-Tetrachloroethane	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
1,1,2-Trichloroethane	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
1,1-Dichloroethane	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
1,1-Dichloroethene	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
1,2,4-Trichlorobenzene	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
1,2-Dibromo-3-chloropropane	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
1,2-Dibromoethane	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
1,2-Dichlorobenzene	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
1,2-Dichloroethane	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
1,2-Dichloropropane	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
1,3-Dichlorobenzene	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
1,4-Dichlorobenzene	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
2-Butanone	BRL	28		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
2-Hexanone	BRL	5.6		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
4-Methyl-2-pentanone	BRL	5.6		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
Acetone	120	56		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
Benzene	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
Bromodichloromethane	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
Bromoform	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
Bromomethane	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
Carbon disulfide	BRL	5.6		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
Carbon tetrachloride	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
Chlorobenzene	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
Chloroethane	BRL	5.6		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
Chloroform	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
Chloromethane	BRL	5.6		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
cis-1,2-Dichloroethene	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
cis-1,3-Dichloropropene	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
Cyclohexane	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
Dibromochloromethane	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
Dichlorodifluoromethane	BRL	5.6		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
Ethylbenzene	55	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
Freon-113	BRL	5.6		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
Isopropylbenzene	3.1	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
m,p-Xylene	200	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
Methyl acetate	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
Methyl tert-butyl ether	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
Methylcyclohexane	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
Methylene chloride	BRL	11		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
o-Xylene	61	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-3-1
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/7/2014 4:45:00 PM
<b>Lab ID:</b> 1407783-008	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
Tetrachloroethene	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
Toluene	28	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
trans-1,2-Dichloroethene	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
trans-1,3-Dichloropropene	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
Trichloroethene	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
Trichlorofluoromethane	BRL	2.8		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
Vinyl chloride	BRL	5.6		ug/Kg-dry	193557	1	07/14/2014 23:41	MD
Surr: 4-Bromofluorobenzene	95.1	70-128		%REC	193557	1	07/14/2014 23:41	MD
Surr: Dibromofluoromethane	111	78.2-128		%REC	193557	1	07/14/2014 23:41	MD
Surr: Toluene-d8	109	76.5-116		%REC	193557	1	07/14/2014 23:41	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	12.1	0		wt%	R271609	1	07/12/2014 07:00	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: CDM Smith Inc.  
 Project Name: CESSNA  
 Lab ID: 1407783-009

Client Sample ID: MW-3-5  
 Collection Date: 7/7/2014 4:50:00 PM  
 Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
1,1,2,2-Tetrachloroethane	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
1,1,2-Trichloroethane	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
1,1-Dichloroethane	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
1,1-Dichloroethene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
1,2,4-Trichlorobenzene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
1,2-Dibromo-3-chloropropane	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
1,2-Dibromoethane	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
1,2-Dichlorobenzene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
1,2-Dichloroethane	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
1,2-Dichloropropane	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
1,3-Dichlorobenzene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
1,4-Dichlorobenzene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
2-Butanone	BRL	32		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
2-Hexanone	BRL	6.3		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
4-Methyl-2-pentanone	BRL	6.3		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
Acetone	BRL	63		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
Benzene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
Bromodichloromethane	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
Bromoform	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
Bromomethane	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
Carbon disulfide	BRL	6.3		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
Carbon tetrachloride	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
Chlorobenzene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
Chloroethane	BRL	6.3		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
Chloroform	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
Chloromethane	BRL	6.3		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
cis-1,2-Dichloroethene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
cis-1,3-Dichloropropene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
Cyclohexane	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
Dibromochloromethane	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
Dichlorodifluoromethane	BRL	6.3		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
Ethylbenzene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
Freon-113	BRL	6.3		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
Isopropylbenzene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
m,p-Xylene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
Methyl acetate	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
Methyl tert-butyl ether	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
Methylcyclohexane	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
Methylene chloride	BRL	13		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
o-Xylene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-3-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/7/2014 4:50:00 PM
<b>Lab ID:</b> 1407783-009	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
Tetrachloroethene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
Toluene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
trans-1,2-Dichloroethene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
trans-1,3-Dichloropropene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
Trichloroethene	5.4	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
Trichlorofluoromethane	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
Vinyl chloride	BRL	6.3		ug/Kg-dry	193557	1	07/15/2014 00:08	MD
Surr: 4-Bromofluorobenzene	88.4	70-128		%REC	193557	1	07/15/2014 00:08	MD
Surr: Dibromofluoromethane	117	78.2-128		%REC	193557	1	07/15/2014 00:08	MD
Surr: Toluene-d8	95.7	76.5-116		%REC	193557	1	07/15/2014 00:08	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	28.6	0		wt%	R271609	1	07/12/2014 07:00	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-3-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/7/2014 4:55:00 PM
<b>Lab ID:</b> 1407783-010	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
1,1,2,2-Tetrachloroethane	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
1,1,2-Trichloroethane	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
1,1-Dichloroethane	3.8	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
1,1-Dichloroethene	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
1,2,4-Trichlorobenzene	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
1,2-Dibromo-3-chloropropane	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
1,2-Dibromoethane	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
1,2-Dichlorobenzene	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
1,2-Dichloroethane	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
1,2-Dichloropropane	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
1,3-Dichlorobenzene	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
1,4-Dichlorobenzene	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
2-Butanone	BRL	28		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
2-Hexanone	BRL	5.7		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
4-Methyl-2-pentanone	BRL	5.7		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
Acetone	74	57		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
Benzene	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
Bromodichloromethane	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
Bromoform	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
Bromomethane	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
Carbon disulfide	BRL	5.7		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
Carbon tetrachloride	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
Chlorobenzene	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
Chloroethane	BRL	5.7		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
Chloroform	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
Chloromethane	BRL	5.7		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
cis-1,2-Dichloroethene	17	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
cis-1,3-Dichloropropene	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
Cyclohexane	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
Dibromochloromethane	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
Dichlorodifluoromethane	BRL	5.7		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
Ethylbenzene	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
Freon-113	BRL	5.7		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
Isopropylbenzene	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
m,p-Xylene	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
Methyl acetate	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
Methyl tert-butyl ether	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
Methylcyclohexane	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
Methylene chloride	BRL	11		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
o-Xylene	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit



Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-3-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/7/2014 4:55:00 PM
<b>Lab ID:</b> 1407783-010	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
Tetrachloroethene	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
Toluene	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
trans-1,2-Dichloroethene	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
trans-1,3-Dichloropropene	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
Trichloroethene	1100	130		ug/Kg-dry	193623	50	07/15/2014 23:59	NP
Trichlorofluoromethane	BRL	2.8		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
Vinyl chloride	BRL	5.7		ug/Kg-dry	193557	1	07/15/2014 00:37	MD
Surr: 4-Bromofluorobenzene	81	70-128		%REC	193623	50	07/15/2014 23:59	NP
Surr: 4-Bromofluorobenzene	94.6	70-128		%REC	193557	1	07/15/2014 00:37	MD
Surr: Dibromofluoromethane	100	78.2-128		%REC	193623	50	07/15/2014 23:59	NP
Surr: Dibromofluoromethane	111	78.2-128		%REC	193557	1	07/15/2014 00:37	MD
Surr: Toluene-d8	92.9	76.5-116		%REC	193623	50	07/15/2014 23:59	NP
Surr: Toluene-d8	95.6	76.5-116		%REC	193557	1	07/15/2014 00:37	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	5.59	0		wt%	R271609	1	07/12/2014 07:00	SG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-3-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/7/2014 5:00:00 PM
<b>Lab ID:</b> 1407783-011	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
1,1,2,2-Tetrachloroethane	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
1,1,2-Trichloroethane	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
1,1-Dichloroethane	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
1,1-Dichloroethene	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
1,2,4-Trichlorobenzene	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
1,2-Dibromo-3-chloropropane	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
1,2-Dibromoethane	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
1,2-Dichlorobenzene	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
1,2-Dichloroethane	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
1,2-Dichloropropane	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
1,3-Dichlorobenzene	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
1,4-Dichlorobenzene	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
2-Butanone	BRL	39		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
2-Hexanone	BRL	7.8		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
4-Methyl-2-pentanone	BRL	7.8		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
Acetone	BRL	78		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
Benzene	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
Bromodichloromethane	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
Bromoform	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
Bromomethane	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
Carbon disulfide	BRL	7.8		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
Carbon tetrachloride	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
Chlorobenzene	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
Chloroethane	BRL	7.8		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
Chloroform	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
Chloromethane	BRL	7.8		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
cis-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
cis-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
Cyclohexane	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
Dibromochloromethane	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
Dichlorodifluoromethane	BRL	7.8		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
Ethylbenzene	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
Freon-113	BRL	7.8		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
Isopropylbenzene	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
m,p-Xylene	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
Methyl acetate	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
Methyl tert-butyl ether	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
Methylcyclohexane	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
Methylene chloride	BRL	16		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
o-Xylene	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-3-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/7/2014 5:00:00 PM
<b>Lab ID:</b> 1407783-011	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
Tetrachloroethene	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
Toluene	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
trans-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
trans-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
Trichloroethene	610	230		ug/Kg-dry	193623	50	07/16/2014 00:24	NP
Trichlorofluoromethane	BRL	3.9		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
Vinyl chloride	BRL	7.8		ug/Kg-dry	193557	1	07/15/2014 01:09	MD
Surr: 4-Bromofluorobenzene	81.6	70-128		%REC	193623	50	07/16/2014 00:24	NP
Surr: 4-Bromofluorobenzene	83.7	70-128		%REC	193557	1	07/15/2014 01:09	MD
Surr: Dibromofluoromethane	99.2	78.2-128		%REC	193623	50	07/16/2014 00:24	NP
Surr: Dibromofluoromethane	120	78.2-128		%REC	193557	1	07/15/2014 01:09	MD
Surr: Toluene-d8	93.9	76.5-116		%REC	193623	50	07/16/2014 00:24	NP
Surr: Toluene-d8	100	76.5-116		%REC	193557	1	07/15/2014 01:09	MD

**PERCENT MOISTURE D2216**

Percent Moisture	14.3	0		wt%	R271609	1	07/12/2014 07:00	SG
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<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-8-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 7:45:00 AM
<b>Lab ID:</b> 1407783-012	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
1,1,2,2-Tetrachloroethane	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
1,1,2-Trichloroethane	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
1,1-Dichloroethane	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
1,1-Dichloroethene	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
1,2,4-Trichlorobenzene	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
1,2-Dibromo-3-chloropropane	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
1,2-Dibromoethane	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
1,2-Dichlorobenzene	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
1,2-Dichloroethane	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
1,2-Dichloropropane	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
1,3-Dichlorobenzene	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
1,4-Dichlorobenzene	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
2-Butanone	BRL	38		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
2-Hexanone	BRL	7.7		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
4-Methyl-2-pentanone	BRL	7.7		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
Acetone	BRL	77		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
Benzene	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
Bromodichloromethane	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
Bromoform	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
Bromomethane	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
Carbon disulfide	BRL	7.7		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
Carbon tetrachloride	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
Chlorobenzene	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
Chloroethane	BRL	7.7		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
Chloroform	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
Chloromethane	BRL	7.7		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
cis-1,2-Dichloroethene	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
cis-1,3-Dichloropropene	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
Cyclohexane	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
Dibromochloromethane	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
Dichlorodifluoromethane	BRL	7.7		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
Ethylbenzene	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
Freon-113	BRL	7.7		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
Isopropylbenzene	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
m,p-Xylene	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
Methyl acetate	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
Methyl tert-butyl ether	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
Methylcyclohexane	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
Methylene chloride	BRL	15		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
o-Xylene	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-8-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 7:45:00 AM
<b>Lab ID:</b> 1407783-012	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5035)</b>				
Styrene	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
Tetrachloroethene	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
Toluene	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
trans-1,2-Dichloroethene	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
trans-1,3-Dichloropropene	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
Trichloroethene	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
Trichlorofluoromethane	BRL	3.8		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
Vinyl chloride	BRL	7.7		ug/Kg-dry	193557	1	07/15/2014 01:35	MD
Surr: 4-Bromofluorobenzene	87.8	70-128		%REC	193557	1	07/15/2014 01:35	MD
Surr: Dibromofluoromethane	111	78.2-128		%REC	193557	1	07/15/2014 01:35	MD
Surr: Toluene-d8	94.2	76.5-116		%REC	193557	1	07/15/2014 01:35	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	8.10	0		wt%	R271609	1	07/12/2014 07:00	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-8-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 7:55:00 AM
<b>Lab ID:</b> 1407783-013	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
1,1,2,2-Tetrachloroethane	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
1,1,2-Trichloroethane	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
1,1-Dichloroethane	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
1,1-Dichloroethene	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
1,2,4-Trichlorobenzene	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
1,2-Dibromo-3-chloropropane	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
1,2-Dibromoethane	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
1,2-Dichlorobenzene	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
1,2-Dichloroethane	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
1,2-Dichloropropane	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
1,3-Dichlorobenzene	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
1,4-Dichlorobenzene	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
2-Butanone	BRL	44		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
2-Hexanone	BRL	8.8		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
4-Methyl-2-pentanone	BRL	8.8		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
Acetone	BRL	88		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
Benzene	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
Bromodichloromethane	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
Bromoform	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
Bromomethane	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
Carbon disulfide	BRL	8.8		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
Carbon tetrachloride	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
Chlorobenzene	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
Chloroethane	BRL	8.8		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
Chloroform	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
Chloromethane	BRL	8.8		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
cis-1,2-Dichloroethene	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
cis-1,3-Dichloropropene	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
Cyclohexane	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
Dibromochloromethane	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
Dichlorodifluoromethane	BRL	8.8		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
Ethylbenzene	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
Freon-113	BRL	8.8		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
Isopropylbenzene	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
m,p-Xylene	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
Methyl acetate	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
Methyl tert-butyl ether	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
Methylcyclohexane	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
Methylene chloride	BRL	18		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
o-Xylene	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-8-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 7:55:00 AM
<b>Lab ID:</b> 1407783-013	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
Tetrachloroethene	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
Toluene	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
trans-1,2-Dichloroethene	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
trans-1,3-Dichloropropene	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
Trichloroethene	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
Trichlorofluoromethane	BRL	4.4		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
Vinyl chloride	BRL	8.8		ug/Kg-dry	193557	1	07/16/2014 12:08	MD
Surr: 4-Bromofluorobenzene	88.9	70-128		%REC	193557	1	07/16/2014 12:08	MD
Surr: Dibromofluoromethane	114	78.2-128		%REC	193557	1	07/16/2014 12:08	MD
Surr: Toluene-d8	94.9	76.5-116		%REC	193557	1	07/16/2014 12:08	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	7.44	0		wt%	R271609	1	07/12/2014 07:00	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-8-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 8:05:00 AM
<b>Lab ID:</b> 1407783-014	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
1,1,2,2-Tetrachloroethane	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
1,1,2-Trichloroethane	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
1,1-Dichloroethane	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
1,1-Dichloroethene	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
1,2,4-Trichlorobenzene	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
1,2-Dibromo-3-chloropropane	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
1,2-Dibromoethane	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
1,2-Dichlorobenzene	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
1,2-Dichloroethane	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
1,2-Dichloropropane	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
1,3-Dichlorobenzene	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
1,4-Dichlorobenzene	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
2-Butanone	BRL	32		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
2-Hexanone	BRL	6.3		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
4-Methyl-2-pentanone	BRL	6.3		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
Acetone	BRL	63		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
Benzene	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
Bromodichloromethane	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
Bromoform	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
Bromomethane	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
Carbon disulfide	BRL	6.3		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
Carbon tetrachloride	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
Chlorobenzene	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
Chloroethane	BRL	6.3		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
Chloroform	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
Chloromethane	BRL	6.3		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
cis-1,2-Dichloroethene	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
cis-1,3-Dichloropropene	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
Cyclohexane	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
Dibromochloromethane	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
Dichlorodifluoromethane	BRL	6.3		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
Ethylbenzene	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
Freon-113	BRL	6.3		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
Isopropylbenzene	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
m,p-Xylene	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
Methyl acetate	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
Methyl tert-butyl ether	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
Methylcyclohexane	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
Methylene chloride	BRL	13		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
o-Xylene	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit



Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-8-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 8:05:00 AM
<b>Lab ID:</b> 1407783-014	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5035)</b>				
Styrene	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
Tetrachloroethene	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
Toluene	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
trans-1,2-Dichloroethene	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
trans-1,3-Dichloropropene	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
Trichloroethene	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
Trichlorofluoromethane	BRL	3.2		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
Vinyl chloride	BRL	6.3		ug/Kg-dry	193557	1	07/16/2014 12:35	MD
Surr: 4-Bromofluorobenzene	97.8	70-128		%REC	193557	1	07/16/2014 12:35	MD
Surr: Dibromofluoromethane	111	78.2-128		%REC	193557	1	07/16/2014 12:35	MD
Surr: Toluene-d8	93.9	76.5-116		%REC	193557	1	07/16/2014 12:35	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	11.1	0		wt%	R271609	1	07/12/2014 07:00	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-8-GW
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 8:55:00 AM
<b>Lab ID:</b> 1407783-015	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
1,1-Dichloroethane	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
1,1-Dichloroethene	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
1,2-Dibromoethane	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
1,2-Dichloroethane	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
1,2-Dichloropropane	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
2-Butanone	BRL	50		ug/L	193520	1	07/12/2014 02:42	GK
2-Hexanone	BRL	10		ug/L	193520	1	07/12/2014 02:42	GK
4-Methyl-2-pentanone	BRL	10		ug/L	193520	1	07/12/2014 02:42	GK
Acetone	BRL	50		ug/L	193520	1	07/12/2014 02:42	GK
Benzene	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
Bromodichloromethane	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
Bromoform	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
Bromomethane	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
Carbon disulfide	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
Carbon tetrachloride	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
Chlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
Chloroethane	BRL	10		ug/L	193520	1	07/12/2014 02:42	GK
Chloroform	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
Chloromethane	BRL	10		ug/L	193520	1	07/12/2014 02:42	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
Cyclohexane	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
Dibromochloromethane	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
Dichlorodifluoromethane	BRL	10		ug/L	193520	1	07/12/2014 02:42	GK
Ethylbenzene	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
Freon-113	BRL	10		ug/L	193520	1	07/12/2014 02:42	GK
Isopropylbenzene	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
m,p-Xylene	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
Methyl acetate	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
Methylcyclohexane	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
Methylene chloride	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
o-Xylene	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-8-GW
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 8:55:00 AM
<b>Lab ID:</b> 1407783-015	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
Tetrachloroethene	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
Toluene	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
Trichloroethene	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
Trichlorofluoromethane	BRL	5.0		ug/L	193520	1	07/12/2014 02:42	GK
Vinyl chloride	BRL	2.0		ug/L	193520	1	07/12/2014 02:42	GK
Surr: 4-Bromofluorobenzene	92.2	66.2-120		%REC	193520	1	07/12/2014 02:42	GK
Surr: Dibromofluoromethane	95.7	79.5-121		%REC	193520	1	07/12/2014 02:42	GK
Surr: Toluene-d8	98.5	77-117		%REC	193520	1	07/12/2014 02:42	GK

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-9-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 9:15:00 AM
<b>Lab ID:</b> 1407783-016	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
1,1,2,2-Tetrachloroethane	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
1,1,2-Trichloroethane	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
1,1-Dichloroethane	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
1,1-Dichloroethene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
1,2,4-Trichlorobenzene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
1,2-Dibromo-3-chloropropane	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
1,2-Dibromoethane	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
1,2-Dichlorobenzene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
1,2-Dichloroethane	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
1,2-Dichloropropane	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
1,3-Dichlorobenzene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
1,4-Dichlorobenzene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
2-Butanone	BRL	34		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
2-Hexanone	BRL	6.9		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
4-Methyl-2-pentanone	BRL	6.9		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
Acetone	BRL	69		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
Benzene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
Bromodichloromethane	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
Bromoform	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
Bromomethane	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
Carbon disulfide	BRL	6.9		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
Carbon tetrachloride	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
Chlorobenzene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
Chloroethane	BRL	6.9		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
Chloroform	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
Chloromethane	BRL	6.9		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
cis-1,2-Dichloroethene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
cis-1,3-Dichloropropene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
Cyclohexane	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
Dibromochloromethane	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
Dichlorodifluoromethane	BRL	6.9		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
Ethylbenzene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
Freon-113	BRL	6.9		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
Isopropylbenzene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
m,p-Xylene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
Methyl acetate	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
Methyl tert-butyl ether	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
Methylcyclohexane	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
Methylene chloride	BRL	14		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
o-Xylene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-9-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 9:15:00 AM
<b>Lab ID:</b> 1407783-016	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
Tetrachloroethene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
Toluene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
trans-1,2-Dichloroethene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
trans-1,3-Dichloropropene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
Trichloroethene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
Trichlorofluoromethane	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
Vinyl chloride	BRL	6.9		ug/Kg-dry	193557	1	07/15/2014 02:56	MD
Surr: 4-Bromofluorobenzene	77.8	70-128		%REC	193557	1	07/15/2014 02:56	MD
Surr: Dibromofluoromethane	130	78.2-128	S	%REC	193557	1	07/15/2014 02:56	MD
Surr: Toluene-d8	99.3	76.5-116		%REC	193557	1	07/15/2014 02:56	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	10.5	0		wt%	R271609	1	07/12/2014 07:00	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-9-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 9:35:00 AM
<b>Lab ID:</b> 1407783-017	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
1,1,2,2-Tetrachloroethane	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
1,1,2-Trichloroethane	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
1,1-Dichloroethane	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
1,1-Dichloroethene	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
1,2,4-Trichlorobenzene	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
1,2-Dibromo-3-chloropropane	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
1,2-Dibromoethane	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
1,2-Dichlorobenzene	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
1,2-Dichloroethane	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
1,2-Dichloropropane	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
1,3-Dichlorobenzene	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
1,4-Dichlorobenzene	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
2-Butanone	BRL	35		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
2-Hexanone	BRL	7.0		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
4-Methyl-2-pentanone	BRL	7.0		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
Acetone	BRL	70		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
Benzene	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
Bromodichloromethane	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
Bromoform	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
Bromomethane	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
Carbon disulfide	BRL	7.0		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
Carbon tetrachloride	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
Chlorobenzene	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
Chloroethane	BRL	7.0		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
Chloroform	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
Chloromethane	BRL	7.0		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
cis-1,2-Dichloroethene	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
cis-1,3-Dichloropropene	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
Cyclohexane	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
Dibromochloromethane	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
Dichlorodifluoromethane	BRL	7.0		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
Ethylbenzene	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
Freon-113	BRL	7.0		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
Isopropylbenzene	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
m,p-Xylene	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
Methyl acetate	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
Methyl tert-butyl ether	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
Methylcyclohexane	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
Methylene chloride	BRL	14		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
o-Xylene	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-9-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 9:35:00 AM
<b>Lab ID:</b> 1407783-017	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
Tetrachloroethene	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
Toluene	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
trans-1,2-Dichloroethene	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
trans-1,3-Dichloropropene	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
Trichloroethene	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
Trichlorofluoromethane	BRL	3.5		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
Vinyl chloride	BRL	7.0		ug/Kg-dry	193557	1	07/15/2014 03:23	MD
Surr: 4-Bromofluorobenzene	92.1	70-128		%REC	193557	1	07/15/2014 03:23	MD
Surr: Dibromofluoromethane	110	78.2-128		%REC	193557	1	07/15/2014 03:23	MD
Surr: Toluene-d8	95.9	76.5-116		%REC	193557	1	07/15/2014 03:23	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	16.1	0		wt%	R271609	1	07/12/2014 07:00	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-9-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 9:50:00 AM
<b>Lab ID:</b> 1407783-018	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
1,1,2,2-Tetrachloroethane	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
1,1,2-Trichloroethane	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
1,1-Dichloroethane	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
1,1-Dichloroethene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
1,2,4-Trichlorobenzene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
1,2-Dibromo-3-chloropropane	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
1,2-Dibromoethane	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
1,2-Dichlorobenzene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
1,2-Dichloroethane	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
1,2-Dichloropropane	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
1,3-Dichlorobenzene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
1,4-Dichlorobenzene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
2-Butanone	BRL	34		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
2-Hexanone	BRL	6.9		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
4-Methyl-2-pentanone	BRL	6.9		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
Acetone	BRL	69		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
Benzene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
Bromodichloromethane	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
Bromoform	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
Bromomethane	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
Carbon disulfide	BRL	6.9		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
Carbon tetrachloride	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
Chlorobenzene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
Chloroethane	BRL	6.9		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
Chloroform	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
Chloromethane	BRL	6.9		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
cis-1,2-Dichloroethene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
cis-1,3-Dichloropropene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
Cyclohexane	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
Dibromochloromethane	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
Dichlorodifluoromethane	BRL	6.9		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
Ethylbenzene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
Freon-113	BRL	6.9		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
Isopropylbenzene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
m,p-Xylene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
Methyl acetate	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
Methyl tert-butyl ether	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
Methylcyclohexane	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
Methylene chloride	BRL	14		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
o-Xylene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit



Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-9-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 9:50:00 AM
<b>Lab ID:</b> 1407783-018	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
Tetrachloroethene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
Toluene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
trans-1,2-Dichloroethene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
trans-1,3-Dichloropropene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
Trichloroethene	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
Trichlorofluoromethane	BRL	3.4		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
Vinyl chloride	BRL	6.9		ug/Kg-dry	193557	1	07/15/2014 03:50	MD
Surr: 4-Bromofluorobenzene	94	70-128		%REC	193557	1	07/15/2014 03:50	MD
Surr: Dibromofluoromethane	116	78.2-128		%REC	193557	1	07/15/2014 03:50	MD
Surr: Toluene-d8	94.9	76.5-116		%REC	193557	1	07/15/2014 03:50	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	11.5	0		wt%	R271609	1	07/12/2014 07:00	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-13-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 10:35:00 AM
<b>Lab ID:</b> 1407783-019	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
1,1,2,2-Tetrachloroethane	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
1,1,2-Trichloroethane	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
1,1-Dichloroethane	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
1,1-Dichloroethene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
1,2,4-Trichlorobenzene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
1,2-Dibromo-3-chloropropane	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
1,2-Dibromoethane	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
1,2-Dichlorobenzene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
1,2-Dichloroethane	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
1,2-Dichloropropane	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
1,3-Dichlorobenzene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
1,4-Dichlorobenzene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
2-Butanone	BRL	32		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
2-Hexanone	BRL	6.3		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
4-Methyl-2-pentanone	BRL	6.3		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
Acetone	BRL	63		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
Benzene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
Bromodichloromethane	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
Bromoform	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
Bromomethane	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
Carbon disulfide	BRL	6.3		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
Carbon tetrachloride	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
Chlorobenzene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
Chloroethane	BRL	6.3		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
Chloroform	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
Chloromethane	BRL	6.3		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
cis-1,2-Dichloroethene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
cis-1,3-Dichloropropene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
Cyclohexane	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
Dibromochloromethane	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
Dichlorodifluoromethane	BRL	6.3		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
Ethylbenzene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
Freon-113	BRL	6.3		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
Isopropylbenzene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
m,p-Xylene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
Methyl acetate	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
Methyl tert-butyl ether	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
Methylcyclohexane	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
Methylene chloride	BRL	13		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
o-Xylene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-13-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 10:35:00 AM
<b>Lab ID:</b> 1407783-019	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
Tetrachloroethene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
Toluene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
trans-1,2-Dichloroethene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
trans-1,3-Dichloropropene	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
Trichloroethene	34	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
Trichlorofluoromethane	BRL	3.2		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
Vinyl chloride	BRL	6.3		ug/Kg-dry	193557	1	07/15/2014 04:17	MD
Surr: 4-Bromofluorobenzene	84.8	70-128		%REC	193557	1	07/15/2014 04:17	MD
Surr: Dibromofluoromethane	121	78.2-128		%REC	193557	1	07/15/2014 04:17	MD
Surr: Toluene-d8	94.2	76.5-116		%REC	193557	1	07/15/2014 04:17	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	5.34	0		wt%	R271609	1	07/12/2014 07:00	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-13-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 10:45:00 AM
<b>Lab ID:</b> 1407783-020	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
1,1,2,2-Tetrachloroethane	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
1,1,2-Trichloroethane	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
1,1-Dichloroethane	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
1,1-Dichloroethene	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
1,2,4-Trichlorobenzene	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
1,2-Dibromo-3-chloropropane	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
1,2-Dibromoethane	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
1,2-Dichlorobenzene	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
1,2-Dichloroethane	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
1,2-Dichloropropane	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
1,3-Dichlorobenzene	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
1,4-Dichlorobenzene	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
2-Butanone	BRL	35		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
2-Hexanone	BRL	7.1		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
4-Methyl-2-pentanone	BRL	7.1		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
Acetone	BRL	71		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
Benzene	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
Bromodichloromethane	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
Bromoform	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
Bromomethane	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
Carbon disulfide	BRL	7.1		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
Carbon tetrachloride	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
Chlorobenzene	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
Chloroethane	BRL	7.1		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
Chloroform	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
Chloromethane	BRL	7.1		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
cis-1,2-Dichloroethene	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
cis-1,3-Dichloropropene	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
Cyclohexane	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
Dibromochloromethane	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
Dichlorodifluoromethane	BRL	7.1		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
Ethylbenzene	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
Freon-113	BRL	7.1		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
Isopropylbenzene	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
m,p-Xylene	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
Methyl acetate	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
Methyl tert-butyl ether	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
Methylcyclohexane	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
Methylene chloride	BRL	14		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
o-Xylene	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-13-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 10:45:00 AM
<b>Lab ID:</b> 1407783-020	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
Tetrachloroethene	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
Toluene	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
trans-1,2-Dichloroethene	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
trans-1,3-Dichloropropene	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
Trichloroethene	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
Trichlorofluoromethane	BRL	3.5		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
Vinyl chloride	BRL	7.1		ug/Kg-dry	193565	1	07/15/2014 04:44	MD
Surr: 4-Bromofluorobenzene	86.3	70-128		%REC	193565	1	07/15/2014 04:44	MD
Surr: Dibromofluoromethane	121	78.2-128		%REC	193565	1	07/15/2014 04:44	MD
Surr: Toluene-d8	95	76.5-116		%REC	193565	1	07/15/2014 04:44	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	6.59	0		wt%	R271609	1	07/12/2014 07:00	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-13-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 10:55:00 AM
<b>Lab ID:</b> 1407783-021	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
1,1,2,2-Tetrachloroethane	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
1,1,2-Trichloroethane	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
1,1-Dichloroethane	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
1,1-Dichloroethene	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
1,2,4-Trichlorobenzene	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
1,2-Dibromo-3-chloropropane	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
1,2-Dibromoethane	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
1,2-Dichlorobenzene	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
1,2-Dichloroethane	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
1,2-Dichloropropane	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
1,3-Dichlorobenzene	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
1,4-Dichlorobenzene	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
2-Butanone	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
2-Hexanone	BRL	8.3		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
4-Methyl-2-pentanone	BRL	8.3		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
Acetone	BRL	8.3		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
Benzene	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
Bromodichloromethane	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
Bromoform	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
Bromomethane	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
Carbon disulfide	BRL	8.3		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
Carbon tetrachloride	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
Chlorobenzene	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
Chloroethane	BRL	8.3		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
Chloroform	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
Chloromethane	BRL	8.3		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
cis-1,2-Dichloroethene	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
cis-1,3-Dichloropropene	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
Cyclohexane	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
Dibromochloromethane	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
Dichlorodifluoromethane	BRL	8.3		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
Ethylbenzene	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
Freon-113	BRL	8.3		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
Isopropylbenzene	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
m,p-Xylene	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
Methyl acetate	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
Methyl tert-butyl ether	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
Methylcyclohexane	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
Methylene chloride	BRL	17		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
o-Xylene	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-13-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 10:55:00 AM
<b>Lab ID:</b> 1407783-021	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
Styrene	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
Tetrachloroethene	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
Toluene	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
trans-1,2-Dichloroethene	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
trans-1,3-Dichloropropene	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
Trichloroethene	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
Trichlorofluoromethane	BRL	4.2		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
Vinyl chloride	BRL	8.3		ug/Kg-dry	193565	1	07/16/2014 13:02	MD
Surr: 4-Bromofluorobenzene	85	70-128		%REC	193565	1	07/16/2014 13:02	MD
Surr: Dibromofluoromethane	114	78.2-128		%REC	193565	1	07/16/2014 13:02	MD
Surr: Toluene-d8	90.9	76.5-116		%REC	193565	1	07/16/2014 13:02	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	18.0	0		wt%	R271609	1	07/12/2014 07:00	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-13-GW
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 11:15:00 AM
<b>Lab ID:</b> 1407783-022	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
1,1-Dichloroethane	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
1,1-Dichloroethene	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
1,2-Dibromoethane	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
1,2-Dichloroethane	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
1,2-Dichloropropane	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
2-Butanone	BRL	50		ug/L	193520	1	07/12/2014 03:10	GK
2-Hexanone	BRL	10		ug/L	193520	1	07/12/2014 03:10	GK
4-Methyl-2-pentanone	BRL	10		ug/L	193520	1	07/12/2014 03:10	GK
Acetone	BRL	50		ug/L	193520	1	07/12/2014 03:10	GK
Benzene	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
Bromodichloromethane	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
Bromoform	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
Bromomethane	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
Carbon disulfide	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
Carbon tetrachloride	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
Chlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
Chloroethane	BRL	10		ug/L	193520	1	07/12/2014 03:10	GK
Chloroform	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
Chloromethane	BRL	10		ug/L	193520	1	07/12/2014 03:10	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
Cyclohexane	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
Dibromochloromethane	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
Dichlorodifluoromethane	BRL	10		ug/L	193520	1	07/12/2014 03:10	GK
Ethylbenzene	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
Freon-113	BRL	10		ug/L	193520	1	07/12/2014 03:10	GK
Isopropylbenzene	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
m,p-Xylene	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
Methyl acetate	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
Methylcyclohexane	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
Methylene chloride	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
o-Xylene	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-13-GW
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 11:15:00 AM
<b>Lab ID:</b> 1407783-022	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
Tetrachloroethene	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
Toluene	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
Trichloroethene	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
Trichlorofluoromethane	BRL	5.0		ug/L	193520	1	07/12/2014 03:10	GK
Vinyl chloride	BRL	2.0		ug/L	193520	1	07/12/2014 03:10	GK
Surr: 4-Bromofluorobenzene	92.4	66.2-120		%REC	193520	1	07/12/2014 03:10	GK
Surr: Dibromofluoromethane	97.4	79.5-121		%REC	193520	1	07/12/2014 03:10	GK
Surr: Toluene-d8	98.4	77-117		%REC	193520	1	07/12/2014 03:10	GK

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-12-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 11:30:00 AM
<b>Lab ID:</b> 1407783-023	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
1,1,2,2-Tetrachloroethane	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
1,1,2-Trichloroethane	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
1,1-Dichloroethane	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
1,1-Dichloroethene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
1,2,4-Trichlorobenzene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
1,2-Dibromo-3-chloropropane	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
1,2-Dibromoethane	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
1,2-Dichlorobenzene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
1,2-Dichloroethane	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
1,2-Dichloropropane	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
1,3-Dichlorobenzene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
1,4-Dichlorobenzene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
2-Butanone	BRL	30		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
2-Hexanone	BRL	6.1		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
4-Methyl-2-pentanone	BRL	6.1		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
Acetone	BRL	61		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
Benzene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
Bromodichloromethane	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
Bromoform	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
Bromomethane	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
Carbon disulfide	BRL	6.1		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
Carbon tetrachloride	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
Chlorobenzene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
Chloroethane	BRL	6.1		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
Chloroform	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
Chloromethane	BRL	6.1		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
cis-1,2-Dichloroethene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
cis-1,3-Dichloropropene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
Cyclohexane	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
Dibromochloromethane	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
Dichlorodifluoromethane	BRL	6.1		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
Ethylbenzene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
Freon-113	BRL	6.1		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
Isopropylbenzene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
m,p-Xylene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
Methyl acetate	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
Methyl tert-butyl ether	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
Methylcyclohexane	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
Methylene chloride	BRL	12		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
o-Xylene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-12-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 11:30:00 AM
<b>Lab ID:</b> 1407783-023	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
Tetrachloroethene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
Toluene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
trans-1,2-Dichloroethene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
trans-1,3-Dichloropropene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
Trichloroethene	2700	190		ug/Kg-dry	193623	50	07/16/2014 00:48	NP
Trichlorofluoromethane	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
Vinyl chloride	BRL	6.1		ug/Kg-dry	193565	1	07/15/2014 05:41	MD
Surr: 4-Bromofluorobenzene	82.5	70-128		%REC	193623	50	07/16/2014 00:48	NP
Surr: 4-Bromofluorobenzene	82.6	70-128		%REC	193565	1	07/15/2014 05:41	MD
Surr: Dibromofluoromethane	99.5	78.2-128		%REC	193623	50	07/16/2014 00:48	NP
Surr: Dibromofluoromethane	116	78.2-128		%REC	193565	1	07/15/2014 05:41	MD
Surr: Toluene-d8	93.9	76.5-116		%REC	193623	50	07/16/2014 00:48	NP
Surr: Toluene-d8	95.3	76.5-116		%REC	193565	1	07/15/2014 05:41	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	4.87	0		wt%	R271609	1	07/12/2014 07:00	SG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-12-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 11:40:00 AM
<b>Lab ID:</b> 1407783-024	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
1,1,2,2-Tetrachloroethane	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
1,1,2-Trichloroethane	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
1,1-Dichloroethane	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
1,1-Dichloroethene	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
1,2,4-Trichlorobenzene	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
1,2-Dibromo-3-chloropropane	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
1,2-Dibromoethane	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
1,2-Dichlorobenzene	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
1,2-Dichloroethane	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
1,2-Dichloropropane	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
1,3-Dichlorobenzene	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
1,4-Dichlorobenzene	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
2-Butanone	BRL	31		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
2-Hexanone	BRL	6.2		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
4-Methyl-2-pentanone	BRL	6.2		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
Acetone	BRL	62		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
Benzene	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
Bromodichloromethane	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
Bromoform	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
Bromomethane	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
Carbon disulfide	BRL	6.2		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
Carbon tetrachloride	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
Chlorobenzene	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
Chloroethane	BRL	6.2		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
Chloroform	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
Chloromethane	BRL	6.2		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
cis-1,2-Dichloroethene	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
cis-1,3-Dichloropropene	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
Cyclohexane	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
Dibromochloromethane	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
Dichlorodifluoromethane	BRL	6.2		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
Ethylbenzene	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
Freon-113	BRL	6.2		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
Isopropylbenzene	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
m,p-Xylene	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
Methyl acetate	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
Methyl tert-butyl ether	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
Methylcyclohexane	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
Methylene chloride	BRL	12		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
o-Xylene	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-12-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 11:40:00 AM
<b>Lab ID:</b> 1407783-024	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5035)</b>				
Styrene	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
Tetrachloroethene	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
Toluene	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
trans-1,2-Dichloroethene	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
trans-1,3-Dichloropropene	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
Trichloroethene	29	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
Trichlorofluoromethane	BRL	3.1		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
Vinyl chloride	BRL	6.2		ug/Kg-dry	193565	1	07/15/2014 06:07	MD
Surr: 4-Bromofluorobenzene	85.8	70-128		%REC	193565	1	07/15/2014 06:07	MD
Surr: Dibromofluoromethane	118	78.2-128		%REC	193565	1	07/15/2014 06:07	MD
Surr: Toluene-d8	95.1	76.5-116		%REC	193565	1	07/15/2014 06:07	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	12.1	0		wt%	R271609	1	07/12/2014 07:00	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-12-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 11:50:00 AM
<b>Lab ID:</b> 1407783-025	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
1,1,2,2-Tetrachloroethane	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
1,1,2-Trichloroethane	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
1,1-Dichloroethane	14	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
1,1-Dichloroethene	10	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
1,2,4-Trichlorobenzene	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
1,2-Dibromo-3-chloropropane	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
1,2-Dibromoethane	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
1,2-Dichlorobenzene	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
1,2-Dichloroethane	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
1,2-Dichloropropane	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
1,3-Dichlorobenzene	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
1,4-Dichlorobenzene	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
2-Butanone	BRL	35		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
2-Hexanone	BRL	7.0		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
4-Methyl-2-pentanone	BRL	7.0		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
Acetone	BRL	70		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
Benzene	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
Bromodichloromethane	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
Bromoform	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
Bromomethane	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
Carbon disulfide	BRL	7.0		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
Carbon tetrachloride	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
Chlorobenzene	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
Chloroethane	BRL	7.0		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
Chloroform	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
Chloromethane	BRL	7.0		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
cis-1,2-Dichloroethene	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
cis-1,3-Dichloropropene	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
Cyclohexane	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
Dibromochloromethane	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
Dichlorodifluoromethane	BRL	7.0		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
Ethylbenzene	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
Freon-113	BRL	7.0		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
Isopropylbenzene	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
m,p-Xylene	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
Methyl acetate	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
Methyl tert-butyl ether	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
Methylcyclohexane	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
Methylene chloride	BRL	14		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
o-Xylene	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-12-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 11:50:00 AM
<b>Lab ID:</b> 1407783-025	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
Tetrachloroethene	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
Toluene	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
trans-1,2-Dichloroethene	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
trans-1,3-Dichloropropene	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
Trichloroethene	110	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
Trichlorofluoromethane	BRL	3.5		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
Vinyl chloride	BRL	7.0		ug/Kg-dry	193565	1	07/16/2014 13:29	MD
Surr: 4-Bromofluorobenzene	87.6	70-128		%REC	193565	1	07/16/2014 13:29	MD
Surr: Dibromofluoromethane	117	78.2-128		%REC	193565	1	07/16/2014 13:29	MD
Surr: Toluene-d8	96.1	76.5-116		%REC	193565	1	07/16/2014 13:29	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	24.4	0		wt%	R271609	1	07/12/2014 07:00	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-12-GW
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 12:00:00 PM
<b>Lab ID:</b> 1407783-026	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
1,1-Dichloroethane	5.9	5.0		ug/L	193520	1	07/12/2014 03:37	GK
1,1-Dichloroethene	18	5.0		ug/L	193520	1	07/12/2014 03:37	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
1,2-Dibromoethane	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
1,2-Dichloroethane	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
1,2-Dichloropropane	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
2-Butanone	BRL	50		ug/L	193520	1	07/12/2014 03:37	GK
2-Hexanone	BRL	10		ug/L	193520	1	07/12/2014 03:37	GK
4-Methyl-2-pentanone	BRL	10		ug/L	193520	1	07/12/2014 03:37	GK
Acetone	BRL	50		ug/L	193520	1	07/12/2014 03:37	GK
Benzene	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
Bromodichloromethane	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
Bromoform	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
Bromomethane	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
Carbon disulfide	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
Carbon tetrachloride	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
Chlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
Chloroethane	BRL	10		ug/L	193520	1	07/12/2014 03:37	GK
Chloroform	18	5.0		ug/L	193520	1	07/12/2014 03:37	GK
Chloromethane	BRL	10		ug/L	193520	1	07/12/2014 03:37	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
Cyclohexane	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
Dibromochloromethane	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
Dichlorodifluoromethane	BRL	10		ug/L	193520	1	07/12/2014 03:37	GK
Ethylbenzene	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
Freon-113	BRL	10		ug/L	193520	1	07/12/2014 03:37	GK
Isopropylbenzene	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
m,p-Xylene	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
Methyl acetate	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
Methylcyclohexane	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
Methylene chloride	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
o-Xylene	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-12-GW
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 12:00:00 PM
<b>Lab ID:</b> 1407783-026	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
Tetrachloroethene	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
Toluene	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
Trichloroethene	64	5.0		ug/L	193520	1	07/12/2014 03:37	GK
Trichlorofluoromethane	BRL	5.0		ug/L	193520	1	07/12/2014 03:37	GK
Vinyl chloride	BRL	2.0		ug/L	193520	1	07/12/2014 03:37	GK
Surr: 4-Bromofluorobenzene	94.4	66.2-120		%REC	193520	1	07/12/2014 03:37	GK
Surr: Dibromofluoromethane	98.8	79.5-121		%REC	193520	1	07/12/2014 03:37	GK
Surr: Toluene-d8	101	77-117		%REC	193520	1	07/12/2014 03:37	GK

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-11-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 12:25:00 PM
<b>Lab ID:</b> 1407783-027	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
1,1,2,2-Tetrachloroethane	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
1,1,2-Trichloroethane	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
1,1-Dichloroethane	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
1,1-Dichloroethene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
1,2,4-Trichlorobenzene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
1,2-Dibromo-3-chloropropane	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
1,2-Dibromoethane	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
1,2-Dichlorobenzene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
1,2-Dichloroethane	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
1,2-Dichloropropane	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
1,3-Dichlorobenzene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
1,4-Dichlorobenzene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
2-Butanone	BRL	30		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
2-Hexanone	BRL	6.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
4-Methyl-2-pentanone	BRL	6.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
Acetone	BRL	60		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
Benzene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
Bromodichloromethane	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
Bromoform	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
Bromomethane	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
Carbon disulfide	BRL	6.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
Carbon tetrachloride	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
Chlorobenzene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
Chloroethane	BRL	6.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
Chloroform	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
Chloromethane	BRL	6.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
cis-1,2-Dichloroethene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
cis-1,3-Dichloropropene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
Cyclohexane	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
Dibromochloromethane	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
Dichlorodifluoromethane	BRL	6.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
Ethylbenzene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
Freon-113	BRL	6.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
Isopropylbenzene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
m,p-Xylene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
Methyl acetate	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
Methyl tert-butyl ether	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
Methylcyclohexane	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
Methylene chloride	BRL	12		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
o-Xylene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-11-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 12:25:00 PM
<b>Lab ID:</b> 1407783-027	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
Tetrachloroethene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
Toluene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
trans-1,2-Dichloroethene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
trans-1,3-Dichloropropene	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
Trichloroethene	36	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
Trichlorofluoromethane	BRL	3.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
Vinyl chloride	BRL	6.0		ug/Kg-dry	193565	1	07/15/2014 07:05	MD
Surr: 4-Bromofluorobenzene	89.7	70-128		%REC	193565	1	07/15/2014 07:05	MD
Surr: Dibromofluoromethane	116	78.2-128		%REC	193565	1	07/15/2014 07:05	MD
Surr: Toluene-d8	92.9	76.5-116		%REC	193565	1	07/15/2014 07:05	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	3.30	0		wt%	R271609	1	07/12/2014 07:00	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-11-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 12:40:00 PM
<b>Lab ID:</b> 1407783-028	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
1,1,2,2-Tetrachloroethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
1,1,2-Trichloroethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
1,1-Dichloroethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
1,1-Dichloroethene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
1,2,4-Trichlorobenzene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
1,2-Dibromo-3-chloropropane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
1,2-Dibromoethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
1,2-Dichlorobenzene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
1,2-Dichloroethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
1,2-Dichloropropane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
1,3-Dichlorobenzene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
1,4-Dichlorobenzene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
2-Butanone	BRL	36		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
2-Hexanone	BRL	7.2		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
4-Methyl-2-pentanone	BRL	7.2		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
Acetone	BRL	72		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
Benzene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
Bromodichloromethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
Bromoform	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
Bromomethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
Carbon disulfide	BRL	7.2		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
Carbon tetrachloride	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
Chlorobenzene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
Chloroethane	BRL	7.2		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
Chloroform	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
Chloromethane	BRL	7.2		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
cis-1,2-Dichloroethene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
cis-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
Cyclohexane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
Dibromochloromethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
Dichlorodifluoromethane	BRL	7.2		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
Ethylbenzene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
Freon-113	BRL	7.2		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
Isopropylbenzene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
m,p-Xylene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
Methyl acetate	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
Methyl tert-butyl ether	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
Methylcyclohexane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
Methylene chloride	BRL	14		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
o-Xylene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-11-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 12:40:00 PM
<b>Lab ID:</b> 1407783-028	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
Tetrachloroethene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
Toluene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
trans-1,2-Dichloroethene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
trans-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
Trichloroethene	12	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
Trichlorofluoromethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
Vinyl chloride	BRL	7.2		ug/Kg-dry	193646	1	07/15/2014 13:12	MD
Surr: 4-Bromofluorobenzene	87.5	70-128		%REC	193646	1	07/15/2014 13:12	MD
Surr: Dibromofluoromethane	122	78.2-128		%REC	193646	1	07/15/2014 13:12	MD
Surr: Toluene-d8	94.6	76.5-116		%REC	193646	1	07/15/2014 13:12	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	17.4	0		wt%	R271609	1	07/12/2014 07:00	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-11-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 12:50:00 PM
<b>Lab ID:</b> 1407783-029	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
1,1,2,2-Tetrachloroethane	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
1,1,2-Trichloroethane	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
1,1-Dichloroethane	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
1,1-Dichloroethene	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
1,2,4-Trichlorobenzene	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
1,2-Dibromo-3-chloropropane	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
1,2-Dibromoethane	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
1,2-Dichlorobenzene	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
1,2-Dichloroethane	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
1,2-Dichloropropane	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
1,3-Dichlorobenzene	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
1,4-Dichlorobenzene	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
2-Butanone	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
2-Hexanone	BRL	8.5		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
4-Methyl-2-pentanone	BRL	8.5		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
Acetone	BRL	85		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
Benzene	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
Bromodichloromethane	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
Bromoform	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
Bromomethane	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
Carbon disulfide	BRL	8.5		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
Carbon tetrachloride	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
Chlorobenzene	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
Chloroethane	BRL	8.5		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
Chloroform	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
Chloromethane	BRL	8.5		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
cis-1,2-Dichloroethene	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
cis-1,3-Dichloropropene	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
Cyclohexane	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
Dibromochloromethane	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
Dichlorodifluoromethane	BRL	8.5		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
Ethylbenzene	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
Freon-113	BRL	8.5		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
Isopropylbenzene	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
m,p-Xylene	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
Methyl acetate	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
Methyl tert-butyl ether	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
Methylcyclohexane	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
Methylene chloride	BRL	17		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
o-Xylene	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-11-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 12:50:00 PM
<b>Lab ID:</b> 1407783-029	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
Tetrachloroethene	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
Toluene	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
trans-1,2-Dichloroethene	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
trans-1,3-Dichloropropene	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
Trichloroethene	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
Trichlorofluoromethane	BRL	4.2		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
Vinyl chloride	BRL	8.5		ug/Kg-dry	193646	1	07/15/2014 13:40	MD
Surr: 4-Bromofluorobenzene	88.8	70-128		%REC	193646	1	07/15/2014 13:40	MD
Surr: Dibromofluoromethane	116	78.2-128		%REC	193646	1	07/15/2014 13:40	MD
Surr: Toluene-d8	95.7	76.5-116		%REC	193646	1	07/15/2014 13:40	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	17.7	0		wt%	R271609	1	07/12/2014 07:00	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-11-GW
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 1:05:00 PM
<b>Lab ID:</b> 1407783-030	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
1,1-Dichloroethane	31	5.0		ug/L	193520	1	07/12/2014 04:04	GK
1,1-Dichloroethene	39	5.0		ug/L	193520	1	07/12/2014 04:04	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
1,2-Dibromoethane	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
1,2-Dichloroethane	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
1,2-Dichloropropane	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
2-Butanone	BRL	50		ug/L	193520	1	07/12/2014 04:04	GK
2-Hexanone	BRL	10		ug/L	193520	1	07/12/2014 04:04	GK
4-Methyl-2-pentanone	BRL	10		ug/L	193520	1	07/12/2014 04:04	GK
Acetone	BRL	50		ug/L	193520	1	07/12/2014 04:04	GK
Benzene	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
Bromodichloromethane	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
Bromoform	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
Bromomethane	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
Carbon disulfide	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
Carbon tetrachloride	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
Chlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
Chloroethane	BRL	10		ug/L	193520	1	07/12/2014 04:04	GK
Chloroform	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
Chloromethane	BRL	10		ug/L	193520	1	07/12/2014 04:04	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
Cyclohexane	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
Dibromochloromethane	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
Dichlorodifluoromethane	BRL	10		ug/L	193520	1	07/12/2014 04:04	GK
Ethylbenzene	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
Freon-113	BRL	10		ug/L	193520	1	07/12/2014 04:04	GK
Isopropylbenzene	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
m,p-Xylene	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
Methyl acetate	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
Methylcyclohexane	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
Methylene chloride	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
o-Xylene	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-11-GW
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 1:05:00 PM
<b>Lab ID:</b> 1407783-030	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
Tetrachloroethene	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
Toluene	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
Trichloroethene	1100	50		ug/L	193520	10	07/14/2014 20:14	GK
Trichlorofluoromethane	BRL	5.0		ug/L	193520	1	07/12/2014 04:04	GK
Vinyl chloride	BRL	2.0		ug/L	193520	1	07/12/2014 04:04	GK
Surr: 4-Bromofluorobenzene	93.6	66.2-120		%REC	193520	1	07/12/2014 04:04	GK
Surr: 4-Bromofluorobenzene	103	66.2-120		%REC	193520	10	07/14/2014 20:14	GK
Surr: Dibromofluoromethane	88.2	79.5-121		%REC	193520	10	07/14/2014 20:14	GK
Surr: Dibromofluoromethane	97.4	79.5-121		%REC	193520	1	07/12/2014 04:04	GK
Surr: Toluene-d8	94.8	77-117		%REC	193520	10	07/14/2014 20:14	GK
Surr: Toluene-d8	99.8	77-117		%REC	193520	1	07/12/2014 04:04	GK

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-10-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 1:10:00 PM
<b>Lab ID:</b> 1407783-031	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
1,1,2,2-Tetrachloroethane	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
1,1,2-Trichloroethane	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
1,1-Dichloroethane	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
1,1-Dichloroethene	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
1,2,4-Trichlorobenzene	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
1,2-Dibromo-3-chloropropane	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
1,2-Dibromoethane	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
1,2-Dichlorobenzene	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
1,2-Dichloroethane	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
1,2-Dichloropropane	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
1,3-Dichlorobenzene	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
1,4-Dichlorobenzene	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
2-Butanone	BRL	32		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
2-Hexanone	BRL	6.3		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
4-Methyl-2-pentanone	BRL	6.3		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
Acetone	BRL	63		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
Benzene	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
Bromodichloromethane	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
Bromoform	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
Bromomethane	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
Carbon disulfide	BRL	6.3		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
Carbon tetrachloride	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
Chlorobenzene	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
Chloroethane	BRL	6.3		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
Chloroform	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
Chloromethane	BRL	6.3		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
cis-1,2-Dichloroethene	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
cis-1,3-Dichloropropene	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
Cyclohexane	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
Dibromochloromethane	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
Dichlorodifluoromethane	BRL	6.3		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
Ethylbenzene	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
Freon-113	BRL	6.3		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
Isopropylbenzene	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
m,p-Xylene	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
Methyl acetate	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
Methyl tert-butyl ether	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
Methylcyclohexane	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
Methylene chloride	BRL	13		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
o-Xylene	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-10-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 1:10:00 PM
<b>Lab ID:</b> 1407783-031	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
Tetrachloroethene	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
Toluene	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
trans-1,2-Dichloroethene	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
trans-1,3-Dichloropropene	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
Trichloroethene	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
Trichlorofluoromethane	BRL	3.2		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
Vinyl chloride	BRL	6.3		ug/Kg-dry	193646	1	07/15/2014 14:18	MD
Surr: 4-Bromofluorobenzene	83.6	70-128		%REC	193646	1	07/15/2014 14:18	MD
Surr: Dibromofluoromethane	125	78.2-128		%REC	193646	1	07/15/2014 14:18	MD
Surr: Toluene-d8	96	76.5-116		%REC	193646	1	07/15/2014 14:18	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	3.11	0		wt%	R271609	1	07/12/2014 07:00	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: CDM Smith Inc.  
 Project Name: CESSNA  
 Lab ID: 1407783-032

Client Sample ID: SB-10-10  
 Collection Date: 7/8/2014 1:10:00 PM  
 Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
1,1,2,2-Tetrachloroethane	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
1,1,2-Trichloroethane	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
1,1-Dichloroethane	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
1,1-Dichloroethene	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
1,2,4-Trichlorobenzene	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
1,2-Dibromo-3-chloropropane	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
1,2-Dibromoethane	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
1,2-Dichlorobenzene	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
1,2-Dichloroethane	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
1,2-Dichloropropane	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
1,3-Dichlorobenzene	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
1,4-Dichlorobenzene	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
2-Butanone	BRL	39		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
2-Hexanone	BRL	7.8		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
4-Methyl-2-pentanone	BRL	7.8		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
Acetone	BRL	78		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
Benzene	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
Bromodichloromethane	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
Bromoform	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
Bromomethane	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
Carbon disulfide	BRL	7.8		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
Carbon tetrachloride	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
Chlorobenzene	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
Chloroethane	BRL	7.8		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
Chloroform	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
Chloromethane	BRL	7.8		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
cis-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
cis-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
Cyclohexane	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
Dibromochloromethane	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
Dichlorodifluoromethane	BRL	7.8		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
Ethylbenzene	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
Freon-113	BRL	7.8		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
Isopropylbenzene	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
m,p-Xylene	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
Methyl acetate	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
Methyl tert-butyl ether	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
Methylcyclohexane	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
Methylene chloride	BRL	16		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
o-Xylene	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-10-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 1:10:00 PM
<b>Lab ID:</b> 1407783-032	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
Tetrachloroethene	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
Toluene	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
trans-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
trans-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
Trichloroethene	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
Trichlorofluoromethane	BRL	3.9		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
Vinyl chloride	BRL	7.8		ug/Kg-dry	193646	1	07/16/2014 13:56	MD
Surr: 4-Bromofluorobenzene	85.5	70-128		%REC	193646	1	07/16/2014 13:56	MD
Surr: Dibromofluoromethane	120	78.2-128		%REC	193646	1	07/16/2014 13:56	MD
Surr: Toluene-d8	94.4	76.5-116		%REC	193646	1	07/16/2014 13:56	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	24.9	0		wt%	R271609	1	07/12/2014 07:00	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-10-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 1:20:00 PM
<b>Lab ID:</b> 1407783-033	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
1,1,2,2-Tetrachloroethane	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
1,1,2-Trichloroethane	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
1,1-Dichloroethane	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
1,1-Dichloroethene	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
1,2,4-Trichlorobenzene	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
1,2-Dibromo-3-chloropropane	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
1,2-Dibromoethane	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
1,2-Dichlorobenzene	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
1,2-Dichloroethane	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
1,2-Dichloropropane	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
1,3-Dichlorobenzene	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
1,4-Dichlorobenzene	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
2-Butanone	BRL	41		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
2-Hexanone	BRL	8.2		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
4-Methyl-2-pentanone	BRL	8.2		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
Acetone	BRL	82		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
Benzene	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
Bromodichloromethane	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
Bromoform	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
Bromomethane	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
Carbon disulfide	BRL	8.2		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
Carbon tetrachloride	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
Chlorobenzene	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
Chloroethane	BRL	8.2		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
Chloroform	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
Chloromethane	BRL	8.2		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
cis-1,2-Dichloroethene	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
cis-1,3-Dichloropropene	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
Cyclohexane	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
Dibromochloromethane	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
Dichlorodifluoromethane	BRL	8.2		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
Ethylbenzene	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
Freon-113	BRL	8.2		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
Isopropylbenzene	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
m,p-Xylene	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
Methyl acetate	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
Methyl tert-butyl ether	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
Methylcyclohexane	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
Methylene chloride	BRL	16		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
o-Xylene	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-10-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 1:20:00 PM
<b>Lab ID:</b> 1407783-033	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
Tetrachloroethene	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
Toluene	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
trans-1,2-Dichloroethene	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
trans-1,3-Dichloropropene	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
Trichloroethene	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
Trichlorofluoromethane	BRL	4.1		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
Vinyl chloride	BRL	8.2		ug/Kg-dry	193646	1	07/15/2014 15:11	MD
Surr: 4-Bromofluorobenzene	87.4	70-128		%REC	193646	1	07/15/2014 15:11	MD
Surr: Dibromofluoromethane	118	78.2-128		%REC	193646	1	07/15/2014 15:11	MD
Surr: Toluene-d8	95.9	76.5-116		%REC	193646	1	07/15/2014 15:11	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	8.53	0		wt%	R271609	1	07/12/2014 07:00	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-14-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 1:50:00 PM
<b>Lab ID:</b> 1407783-034	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
1,1,2,2-Tetrachloroethane	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
1,1,2-Trichloroethane	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
1,1-Dichloroethane	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
1,1-Dichloroethene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
1,2,4-Trichlorobenzene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
1,2-Dibromo-3-chloropropane	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
1,2-Dibromoethane	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
1,2-Dichlorobenzene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
1,2-Dichloroethane	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
1,2-Dichloropropane	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
1,3-Dichlorobenzene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
1,4-Dichlorobenzene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
2-Butanone	BRL	31		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
2-Hexanone	BRL	6.2		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
4-Methyl-2-pentanone	BRL	6.2		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
Acetone	BRL	62		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
Benzene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
Bromodichloromethane	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
Bromoform	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
Bromomethane	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
Carbon disulfide	BRL	6.2		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
Carbon tetrachloride	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
Chlorobenzene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
Chloroethane	BRL	6.2		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
Chloroform	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
Chloromethane	BRL	6.2		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
cis-1,2-Dichloroethene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
cis-1,3-Dichloropropene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
Cyclohexane	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
Dibromochloromethane	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
Dichlorodifluoromethane	BRL	6.2		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
Ethylbenzene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
Freon-113	BRL	6.2		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
Isopropylbenzene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
m,p-Xylene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
Methyl acetate	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
Methyl tert-butyl ether	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
Methylcyclohexane	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
Methylene chloride	BRL	12		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
o-Xylene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit



Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-14-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 1:50:00 PM
<b>Lab ID:</b> 1407783-034	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
Tetrachloroethene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
Toluene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
trans-1,2-Dichloroethene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
trans-1,3-Dichloropropene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
Trichloroethene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
Trichlorofluoromethane	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
Vinyl chloride	BRL	6.2		ug/Kg-dry	193646	1	07/15/2014 15:38	MD
Surr: 4-Bromofluorobenzene	86.9	70-128		%REC	193646	1	07/15/2014 15:38	MD
Surr: Dibromofluoromethane	121	78.2-128		%REC	193646	1	07/15/2014 15:38	MD
Surr: Toluene-d8	95.9	76.5-116		%REC	193646	1	07/15/2014 15:38	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	15.4	0		wt%	R271609	1	07/12/2014 07:00	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-14-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 2:00:00 PM
<b>Lab ID:</b> 1407783-035	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
1,1,2,2-Tetrachloroethane	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
1,1,2-Trichloroethane	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
1,1-Dichloroethane	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
1,1-Dichloroethene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
1,2,4-Trichlorobenzene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
1,2-Dibromo-3-chloropropane	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
1,2-Dibromoethane	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
1,2-Dichlorobenzene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
1,2-Dichloroethane	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
1,2-Dichloropropane	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
1,3-Dichlorobenzene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
1,4-Dichlorobenzene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
2-Butanone	BRL	27		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
2-Hexanone	BRL	5.3		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
4-Methyl-2-pentanone	BRL	5.3		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
Acetone	BRL	53		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
Benzene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
Bromodichloromethane	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
Bromoform	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
Bromomethane	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
Carbon disulfide	BRL	5.3		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
Carbon tetrachloride	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
Chlorobenzene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
Chloroethane	BRL	5.3		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
Chloroform	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
Chloromethane	BRL	5.3		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
cis-1,2-Dichloroethene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
cis-1,3-Dichloropropene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
Cyclohexane	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
Dibromochloromethane	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
Dichlorodifluoromethane	BRL	5.3		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
Ethylbenzene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
Freon-113	BRL	5.3		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
Isopropylbenzene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
m,p-Xylene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
Methyl acetate	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
Methyl tert-butyl ether	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
Methylcyclohexane	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
Methylene chloride	BRL	11		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
o-Xylene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-14-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 2:00:00 PM
<b>Lab ID:</b> 1407783-035	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5035)</b>				
Styrene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
Tetrachloroethene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
Toluene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
trans-1,2-Dichloroethene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
trans-1,3-Dichloropropene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
Trichloroethene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
Trichlorofluoromethane	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
Vinyl chloride	BRL	5.3		ug/Kg-dry	193646	1	07/15/2014 16:05	MD
Surr: 4-Bromofluorobenzene	85.1	70-128		%REC	193646	1	07/15/2014 16:05	MD
Surr: Dibromofluoromethane	117	78.2-128		%REC	193646	1	07/15/2014 16:05	MD
Surr: Toluene-d8	96.8	76.5-116		%REC	193646	1	07/15/2014 16:05	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	11.3	0		wt%	R271609	1	07/12/2014 07:00	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-10-GW
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 2:20:00 PM
<b>Lab ID:</b> 1407783-036	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
1,1-Dichloroethane	5.5	5.0		ug/L	193520	1	07/12/2014 04:32	GK
1,1-Dichloroethene	30	5.0		ug/L	193520	1	07/12/2014 04:32	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
1,2-Dibromoethane	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
1,2-Dichloroethane	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
1,2-Dichloropropane	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
2-Butanone	BRL	50		ug/L	193520	1	07/12/2014 04:32	GK
2-Hexanone	BRL	10		ug/L	193520	1	07/12/2014 04:32	GK
4-Methyl-2-pentanone	BRL	10		ug/L	193520	1	07/12/2014 04:32	GK
Acetone	BRL	50		ug/L	193520	1	07/12/2014 04:32	GK
Benzene	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
Bromodichloromethane	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
Bromoform	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
Bromomethane	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
Carbon disulfide	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
Carbon tetrachloride	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
Chlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
Chloroethane	BRL	10		ug/L	193520	1	07/12/2014 04:32	GK
Chloroform	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
Chloromethane	BRL	10		ug/L	193520	1	07/12/2014 04:32	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
Cyclohexane	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
Dibromochloromethane	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
Dichlorodifluoromethane	BRL	10		ug/L	193520	1	07/12/2014 04:32	GK
Ethylbenzene	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
Freon-113	BRL	10		ug/L	193520	1	07/12/2014 04:32	GK
Isopropylbenzene	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
m,p-Xylene	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
Methyl acetate	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
Methylcyclohexane	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
Methylene chloride	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
o-Xylene	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-10-GW
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 2:20:00 PM
<b>Lab ID:</b> 1407783-036	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
Tetrachloroethene	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
Toluene	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
Trichloroethene	430	50		ug/L	193520	10	07/14/2014 20:42	GK
Trichlorofluoromethane	BRL	5.0		ug/L	193520	1	07/12/2014 04:32	GK
Vinyl chloride	BRL	2.0		ug/L	193520	1	07/12/2014 04:32	GK
Surr: 4-Bromofluorobenzene	96.7	66.2-120		%REC	193520	1	07/12/2014 04:32	GK
Surr: 4-Bromofluorobenzene	101	66.2-120		%REC	193520	10	07/14/2014 20:42	GK
Surr: Dibromofluoromethane	89.3	79.5-121		%REC	193520	10	07/14/2014 20:42	GK
Surr: Dibromofluoromethane	98.2	79.5-121		%REC	193520	1	07/12/2014 04:32	GK
Surr: Toluene-d8	95.1	77-117		%REC	193520	10	07/14/2014 20:42	GK
Surr: Toluene-d8	98	77-117		%REC	193520	1	07/12/2014 04:32	GK

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-15-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 2:20:00 PM
<b>Lab ID:</b> 1407783-037	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
1,1,2,2-Tetrachloroethane	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
1,1,2-Trichloroethane	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
1,1-Dichloroethane	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
1,1-Dichloroethene	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
1,2,4-Trichlorobenzene	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
1,2-Dibromo-3-chloropropane	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
1,2-Dibromoethane	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
1,2-Dichlorobenzene	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
1,2-Dichloroethane	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
1,2-Dichloropropane	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
1,3-Dichlorobenzene	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
1,4-Dichlorobenzene	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
2-Butanone	BRL	30		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
2-Hexanone	BRL	6.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
4-Methyl-2-pentanone	BRL	6.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
Acetone	BRL	60		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
Benzene	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
Bromodichloromethane	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
Bromoform	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
Bromomethane	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
Carbon disulfide	BRL	6.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
Carbon tetrachloride	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
Chlorobenzene	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
Chloroethane	BRL	6.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
Chloroform	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
Chloromethane	BRL	6.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
cis-1,2-Dichloroethene	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
cis-1,3-Dichloropropene	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
Cyclohexane	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
Dibromochloromethane	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
Dichlorodifluoromethane	BRL	6.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
Ethylbenzene	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
Freon-113	BRL	6.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
Isopropylbenzene	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
m,p-Xylene	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
Methyl acetate	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
Methyl tert-butyl ether	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
Methylcyclohexane	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
Methylene chloride	BRL	12		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
o-Xylene	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-15-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 2:20:00 PM
<b>Lab ID:</b> 1407783-037	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
Tetrachloroethene	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
Toluene	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
trans-1,2-Dichloroethene	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
trans-1,3-Dichloropropene	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
Trichloroethene	19	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
Trichlorofluoromethane	BRL	3.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
Vinyl chloride	BRL	6.0		ug/Kg-dry	193646	1	07/15/2014 16:32	MD
Surr: 4-Bromofluorobenzene	85	70-128		%REC	193646	1	07/15/2014 16:32	MD
Surr: Dibromofluoromethane	120	78.2-128		%REC	193646	1	07/15/2014 16:32	MD
Surr: Toluene-d8	98.6	76.5-116		%REC	193646	1	07/15/2014 16:32	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	11.9	0		wt%	R271609	1	07/12/2014 07:00	SG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-15-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 2:30:00 PM
<b>Lab ID:</b> 1407783-038	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
1,1,2,2-Tetrachloroethane	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
1,1,2-Trichloroethane	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
1,1-Dichloroethane	28	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
1,1-Dichloroethene	50	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
1,2,4-Trichlorobenzene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
1,2-Dibromo-3-chloropropane	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
1,2-Dibromoethane	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
1,2-Dichlorobenzene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
1,2-Dichloroethane	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
1,2-Dichloropropane	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
1,3-Dichlorobenzene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
1,4-Dichlorobenzene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
2-Butanone	BRL	27		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
2-Hexanone	BRL	5.5		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
4-Methyl-2-pentanone	BRL	5.5		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
Acetone	BRL	55		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
Benzene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
Bromodichloromethane	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
Bromoform	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
Bromomethane	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
Carbon disulfide	BRL	5.5		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
Carbon tetrachloride	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
Chlorobenzene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
Chloroethane	BRL	5.5		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
Chloroform	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
Chloromethane	BRL	5.5		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
cis-1,2-Dichloroethene	23	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
cis-1,3-Dichloropropene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
Cyclohexane	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
Dibromochloromethane	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
Dichlorodifluoromethane	BRL	5.5		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
Ethylbenzene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
Freon-113	BRL	5.5		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
Isopropylbenzene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
m,p-Xylene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
Methyl acetate	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
Methyl tert-butyl ether	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
Methylcyclohexane	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
Methylene chloride	BRL	11		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
o-Xylene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



**Analytical Environmental Services, Inc**

**Date:** 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-15-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 2:30:00 PM
<b>Lab ID:</b> 1407783-038	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
Tetrachloroethene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
Toluene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
trans-1,2-Dichloroethene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
trans-1,3-Dichloropropene	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
Trichloroethene	1900	190		ug/Kg-dry	193623	50	07/16/2014 01:38	NP
Trichlorofluoromethane	BRL	2.7		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
Vinyl chloride	BRL	5.5		ug/Kg-dry	193646	1	07/15/2014 16:58	MD
Surr: 4-Bromofluorobenzene	83.4	70-128		%REC	193623	50	07/16/2014 01:38	NP
Surr: 4-Bromofluorobenzene	81	70-128		%REC	193646	1	07/15/2014 16:58	MD
Surr: Dibromofluoromethane	98.3	78.2-128		%REC	193623	50	07/16/2014 01:38	NP
Surr: Dibromofluoromethane	107	78.2-128		%REC	193646	1	07/15/2014 16:58	MD
Surr: Toluene-d8	94.8	76.5-116		%REC	193623	50	07/16/2014 01:38	NP
Surr: Toluene-d8	100	76.5-116		%REC	193646	1	07/15/2014 16:58	MD

**PERCENT MOISTURE D2216**

Percent Moisture	18.9	0		wt%	R271665	1	07/14/2014 11:30	SG
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<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-15-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 2:40:00 PM
<b>Lab ID:</b> 1407783-039	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
1,1,2,2-Tetrachloroethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
1,1,2-Trichloroethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
1,1-Dichloroethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
1,1-Dichloroethene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
1,2,4-Trichlorobenzene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
1,2-Dibromo-3-chloropropane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
1,2-Dibromoethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
1,2-Dichlorobenzene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
1,2-Dichloroethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
1,2-Dichloropropane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
1,3-Dichlorobenzene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
1,4-Dichlorobenzene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
2-Butanone	BRL	36		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
2-Hexanone	BRL	7.2		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
4-Methyl-2-pentanone	BRL	7.2		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
Acetone	BRL	72		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
Benzene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
Bromodichloromethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
Bromoform	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
Bromomethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
Carbon disulfide	BRL	7.2		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
Carbon tetrachloride	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
Chlorobenzene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
Chloroethane	BRL	7.2		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
Chloroform	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
Chloromethane	BRL	7.2		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
cis-1,2-Dichloroethene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
cis-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
Cyclohexane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
Dibromochloromethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
Dichlorodifluoromethane	BRL	7.2		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
Ethylbenzene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
Freon-113	BRL	7.2		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
Isopropylbenzene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
m,p-Xylene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
Methyl acetate	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
Methyl tert-butyl ether	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
Methylcyclohexane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
Methylene chloride	BRL	14		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
o-Xylene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-15-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 2:40:00 PM
<b>Lab ID:</b> 1407783-039	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
Tetrachloroethene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
Toluene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
trans-1,2-Dichloroethene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
trans-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
Trichloroethene	44	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
Trichlorofluoromethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
Vinyl chloride	BRL	7.2		ug/Kg-dry	193646	1	07/15/2014 20:36	MD
Surr: 4-Bromofluorobenzene	87.4	70-128		%REC	193646	1	07/15/2014 20:36	MD
Surr: Dibromofluoromethane	119	78.2-128		%REC	193646	1	07/15/2014 20:36	MD
Surr: Toluene-d8	97.8	76.5-116		%REC	193646	1	07/15/2014 20:36	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	20.2	0		wt%	R271665	1	07/14/2014 11:30	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-16-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 3:00:00 PM
<b>Lab ID:</b> 1407783-040	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
1,1,2,2-Tetrachloroethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
1,1,2-Trichloroethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
1,1-Dichloroethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
1,1-Dichloroethene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
1,2,4-Trichlorobenzene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
1,2-Dibromo-3-chloropropane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
1,2-Dibromoethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
1,2-Dichlorobenzene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
1,2-Dichloroethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
1,2-Dichloropropane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
1,3-Dichlorobenzene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
1,4-Dichlorobenzene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
2-Butanone	BRL	36		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
2-Hexanone	BRL	7.2		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
4-Methyl-2-pentanone	BRL	7.2		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
Acetone	BRL	72		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
Benzene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
Bromodichloromethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
Bromoform	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
Bromomethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
Carbon disulfide	BRL	7.2		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
Carbon tetrachloride	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
Chlorobenzene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
Chloroethane	BRL	7.2		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
Chloroform	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
Chloromethane	BRL	7.2		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
cis-1,2-Dichloroethene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
cis-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
Cyclohexane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
Dibromochloromethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
Dichlorodifluoromethane	BRL	7.2		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
Ethylbenzene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
Freon-113	BRL	7.2		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
Isopropylbenzene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
m,p-Xylene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
Methyl acetate	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
Methyl tert-butyl ether	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
Methylcyclohexane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
Methylene chloride	BRL	14		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
o-Xylene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-16-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 3:00:00 PM
<b>Lab ID:</b> 1407783-040	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
Tetrachloroethene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
Toluene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
trans-1,2-Dichloroethene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
trans-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
Trichloroethene	3400	160		ug/Kg-dry	193623	50	07/16/2014 02:02	NP
Trichlorofluoromethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
Vinyl chloride	BRL	7.2		ug/Kg-dry	193646	1	07/15/2014 21:04	MD
Surr: 4-Bromofluorobenzene	80.6	70-128		%REC	193623	50	07/16/2014 02:02	NP
Surr: 4-Bromofluorobenzene	85.4	70-128		%REC	193646	1	07/15/2014 21:04	MD
Surr: Dibromofluoromethane	98.7	78.2-128		%REC	193623	50	07/16/2014 02:02	NP
Surr: Dibromofluoromethane	126	78.2-128		%REC	193646	1	07/15/2014 21:04	MD
Surr: Toluene-d8	92.5	76.5-116		%REC	193623	50	07/16/2014 02:02	NP
Surr: Toluene-d8	103	76.5-116		%REC	193646	1	07/15/2014 21:04	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	14.4	0		wt%	R271665	1	07/14/2014 11:30	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-16-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 3:10:00 PM
<b>Lab ID:</b> 1407783-041	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
1,1,2,2-Tetrachloroethane	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
1,1,2-Trichloroethane	4.0	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
1,1-Dichloroethane	7.2	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
1,1-Dichloroethene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
1,2,4-Trichlorobenzene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
1,2-Dibromo-3-chloropropane	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
1,2-Dibromoethane	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
1,2-Dichlorobenzene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
1,2-Dichloroethane	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
1,2-Dichloropropane	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
1,3-Dichlorobenzene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
1,4-Dichlorobenzene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
2-Butanone	BRL	28		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
2-Hexanone	BRL	5.7		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
4-Methyl-2-pentanone	BRL	5.7		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Acetone	BRL	57		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Benzene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Bromodichloromethane	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Bromoform	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Bromomethane	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Carbon disulfide	BRL	5.7		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Carbon tetrachloride	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Chlorobenzene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Chloroethane	BRL	5.7		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Chloroform	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Chloromethane	BRL	5.7		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
cis-1,2-Dichloroethene	16	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
cis-1,3-Dichloropropene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Cyclohexane	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Dibromochloromethane	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Dichlorodifluoromethane	BRL	5.7		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Ethylbenzene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Freon-113	BRL	5.7		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Isopropylbenzene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
m,p-Xylene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Methyl acetate	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Methyl tert-butyl ether	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Methylcyclohexane	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Methylene chloride	BRL	11		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
o-Xylene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-16-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 3:10:00 PM
<b>Lab ID:</b> 1407783-041	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
Styrene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Tetrachloroethene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Toluene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
trans-1,2-Dichloroethene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
trans-1,3-Dichloropropene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Trichloroethene	12000	360		ug/Kg-dry	193623	100	07/16/2014 02:27	NP
Trichlorofluoromethane	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Vinyl chloride	BRL	5.7		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Surr: 4-Bromofluorobenzene	85.5	70-128		%REC	193646	1	07/15/2014 21:30	MD
Surr: 4-Bromofluorobenzene	80.2	70-128		%REC	193623	100	07/16/2014 02:27	NP
Surr: Dibromofluoromethane	119	78.2-128		%REC	193646	1	07/15/2014 21:30	MD
Surr: Dibromofluoromethane	100	78.2-128		%REC	193623	100	07/16/2014 02:27	NP
Surr: Toluene-d8	101	76.5-116		%REC	193646	1	07/15/2014 21:30	MD
Surr: Toluene-d8	94.4	76.5-116		%REC	193623	100	07/16/2014 02:27	NP
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	10.2	0		wt%	R271665	1	07/14/2014 11:30	SG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-16-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 3:20:00 PM
<b>Lab ID:</b> 1407783-042	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
1,1,2,2-Tetrachloroethane	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
1,1,2-Trichloroethane	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
1,1-Dichloroethane	16	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
1,1-Dichloroethene	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
1,2,4-Trichlorobenzene	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
1,2-Dibromo-3-chloropropane	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
1,2-Dibromoethane	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
1,2-Dichlorobenzene	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
1,2-Dichloroethane	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
1,2-Dichloropropane	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
1,3-Dichlorobenzene	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
1,4-Dichlorobenzene	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
2-Butanone	BRL	37		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
2-Hexanone	BRL	7.5		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
4-Methyl-2-pentanone	BRL	7.5		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
Acetone	BRL	75		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
Benzene	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
Bromodichloromethane	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
Bromoform	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
Bromomethane	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
Carbon disulfide	BRL	7.5		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
Carbon tetrachloride	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
Chlorobenzene	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
Chloroethane	BRL	7.5		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
Chloroform	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
Chloromethane	BRL	7.5		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
cis-1,2-Dichloroethene	16	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
cis-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
Cyclohexane	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
Dibromochloromethane	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
Dichlorodifluoromethane	BRL	7.5		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
Ethylbenzene	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
Freon-113	BRL	7.5		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
Isopropylbenzene	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
m,p-Xylene	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
Methyl acetate	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
Methyl tert-butyl ether	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
Methylcyclohexane	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
Methylene chloride	BRL	15		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
o-Xylene	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit



Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-16-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 3:20:00 PM
<b>Lab ID:</b> 1407783-042	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
Tetrachloroethene	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
Toluene	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
trans-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
trans-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
Trichloroethene	14000	1700		ug/Kg-dry	193623	500	07/17/2014 11:22	NP
Trichlorofluoromethane	BRL	3.7		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
Vinyl chloride	BRL	7.5		ug/Kg-dry	193646	1	07/15/2014 21:56	MD
Surr: 4-Bromofluorobenzene	77.8	70-128		%REC	193623	500	07/17/2014 11:22	NP
Surr: 4-Bromofluorobenzene	83.5	70-128		%REC	193646	1	07/15/2014 21:56	MD
Surr: Dibromofluoromethane	92.1	78.2-128		%REC	193623	500	07/17/2014 11:22	NP
Surr: Dibromofluoromethane	124	78.2-128		%REC	193646	1	07/15/2014 21:56	MD
Surr: Toluene-d8	90.8	76.5-116		%REC	193623	500	07/17/2014 11:22	NP
Surr: Toluene-d8	102	76.5-116		%REC	193646	1	07/15/2014 21:56	MD

**PERCENT MOISTURE D2216**

Percent Moisture	15.7	0		wt%	R271665	1	07/14/2014 11:30	SG
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<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-15-GW
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 3:10:00 PM
<b>Lab ID:</b> 1407783-043	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	6.0	5.0		ug/L	193520	1	07/12/2014 04:59	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
1,1-Dichloroethane	72	5.0		ug/L	193520	1	07/12/2014 04:59	GK
1,1-Dichloroethene	120	5.0		ug/L	193520	1	07/12/2014 04:59	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
1,2-Dibromoethane	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
1,2-Dichloroethane	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
1,2-Dichloropropane	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
2-Butanone	BRL	50		ug/L	193520	1	07/12/2014 04:59	GK
2-Hexanone	BRL	10		ug/L	193520	1	07/12/2014 04:59	GK
4-Methyl-2-pentanone	BRL	10		ug/L	193520	1	07/12/2014 04:59	GK
Acetone	BRL	50		ug/L	193520	1	07/12/2014 04:59	GK
Benzene	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
Bromodichloromethane	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
Bromoform	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
Bromomethane	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
Carbon disulfide	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
Carbon tetrachloride	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
Chlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
Chloroethane	BRL	10		ug/L	193520	1	07/12/2014 04:59	GK
Chloroform	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
Chloromethane	BRL	10		ug/L	193520	1	07/12/2014 04:59	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
Cyclohexane	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
Dibromochloromethane	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
Dichlorodifluoromethane	BRL	10		ug/L	193520	1	07/12/2014 04:59	GK
Ethylbenzene	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
Freon-113	BRL	10		ug/L	193520	1	07/12/2014 04:59	GK
Isopropylbenzene	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
m,p-Xylene	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
Methyl acetate	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
Methylcyclohexane	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
Methylene chloride	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
o-Xylene	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-15-GW
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 3:10:00 PM
<b>Lab ID:</b> 1407783-043	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5030B)</b>						
Styrene	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
Tetrachloroethene	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
Toluene	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
Trichloroethene	9500	500		ug/L	193520	100	07/14/2014 19:18	GK
Trichlorofluoromethane	BRL	5.0		ug/L	193520	1	07/12/2014 04:59	GK
Vinyl chloride	BRL	2.0		ug/L	193520	1	07/12/2014 04:59	GK
Surr: 4-Bromofluorobenzene	92.7	66.2-120		%REC	193520	1	07/12/2014 04:59	GK
Surr: 4-Bromofluorobenzene	108	66.2-120		%REC	193520	100	07/14/2014 19:18	GK
Surr: Dibromofluoromethane	86.3	79.5-121		%REC	193520	100	07/14/2014 19:18	GK
Surr: Dibromofluoromethane	95	79.5-121		%REC	193520	1	07/12/2014 04:59	GK
Surr: Toluene-d8	95.3	77-117		%REC	193520	100	07/14/2014 19:18	GK
Surr: Toluene-d8	99.2	77-117		%REC	193520	1	07/12/2014 04:59	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-17-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 3:30:00 PM
<b>Lab ID:</b> 1407783-044	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
1,1,2,2-Tetrachloroethane	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
1,1,2-Trichloroethane	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
1,1-Dichloroethane	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
1,1-Dichloroethene	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
1,2,4-Trichlorobenzene	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
1,2-Dibromo-3-chloropropane	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
1,2-Dibromoethane	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
1,2-Dichlorobenzene	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
1,2-Dichloroethane	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
1,2-Dichloropropane	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
1,3-Dichlorobenzene	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
1,4-Dichlorobenzene	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
2-Butanone	BRL	26		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
2-Hexanone	BRL	5.2		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
4-Methyl-2-pentanone	BRL	5.2		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
Acetone	BRL	52		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
Benzene	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
Bromodichloromethane	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
Bromoform	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
Bromomethane	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
Carbon disulfide	BRL	5.2		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
Carbon tetrachloride	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
Chlorobenzene	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
Chloroethane	BRL	5.2		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
Chloroform	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
Chloromethane	BRL	5.2		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
cis-1,2-Dichloroethene	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
cis-1,3-Dichloropropene	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
Cyclohexane	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
Dibromochloromethane	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
Dichlorodifluoromethane	BRL	5.2		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
Ethylbenzene	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
Freon-113	BRL	5.2		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
Isopropylbenzene	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
m,p-Xylene	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
Methyl acetate	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
Methyl tert-butyl ether	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
Methylcyclohexane	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
Methylene chloride	BRL	10		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
o-Xylene	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-17-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 3:30:00 PM
<b>Lab ID:</b> 1407783-044	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
Tetrachloroethene	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
Toluene	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
trans-1,2-Dichloroethene	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
trans-1,3-Dichloropropene	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
Trichloroethene	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
Trichlorofluoromethane	BRL	2.6		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
Vinyl chloride	BRL	5.2		ug/Kg-dry	193646	1	07/15/2014 19:33	MD
Surr: 4-Bromofluorobenzene	101	70-128		%REC	193646	1	07/15/2014 19:33	MD
Surr: Dibromofluoromethane	102	78.2-128		%REC	193646	1	07/15/2014 19:33	MD
Surr: Toluene-d8	99.8	76.5-116		%REC	193646	1	07/15/2014 19:33	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	16.2	0		wt%	R271665	1	07/14/2014 11:30	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-17-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 3:40:00 PM
<b>Lab ID:</b> 1407783-045	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
1,1,2,2-Tetrachloroethane	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
1,1,2-Trichloroethane	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
1,1-Dichloroethane	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
1,1-Dichloroethene	3.4	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
1,2,4-Trichlorobenzene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
1,2-Dibromo-3-chloropropane	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
1,2-Dibromoethane	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
1,2-Dichlorobenzene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
1,2-Dichloroethane	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
1,2-Dichloropropane	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
1,3-Dichlorobenzene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
1,4-Dichlorobenzene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
2-Butanone	BRL	31		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
2-Hexanone	BRL	6.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
4-Methyl-2-pentanone	BRL	6.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
Acetone	BRL	61		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
Benzene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
Bromodichloromethane	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
Bromoform	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
Bromomethane	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
Carbon disulfide	BRL	6.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
Carbon tetrachloride	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
Chlorobenzene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
Chloroethane	BRL	6.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
Chloroform	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
Chloromethane	BRL	6.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
cis-1,2-Dichloroethene	50	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
cis-1,3-Dichloropropene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
Cyclohexane	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
Dibromochloromethane	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
Dichlorodifluoromethane	BRL	6.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
Ethylbenzene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
Freon-113	BRL	6.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
Isopropylbenzene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
m,p-Xylene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
Methyl acetate	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
Methyl tert-butyl ether	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
Methylcyclohexane	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
Methylene chloride	BRL	12		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
o-Xylene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-17-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 3:40:00 PM
<b>Lab ID:</b> 1407783-045	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
Styrene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
Tetrachloroethene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
Toluene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
trans-1,2-Dichloroethene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
trans-1,3-Dichloropropene	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
Trichloroethene	490	140		ug/Kg-dry	193623	50	07/17/2014 00:34	AR
Trichlorofluoromethane	BRL	3.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
Vinyl chloride	BRL	6.1		ug/Kg-dry	193646	1	07/15/2014 20:02	MD
Surr: 4-Bromofluorobenzene	93.2	70-128		%REC	193623	50	07/17/2014 00:34	AR
Surr: 4-Bromofluorobenzene	87.3	70-128		%REC	193646	1	07/15/2014 20:02	MD
Surr: Dibromofluoromethane	109	78.2-128		%REC	193623	50	07/17/2014 00:34	AR
Surr: Dibromofluoromethane	104	78.2-128		%REC	193646	1	07/15/2014 20:02	MD
Surr: Toluene-d8	91.8	76.5-116		%REC	193623	50	07/17/2014 00:34	AR
Surr: Toluene-d8	97.4	76.5-116		%REC	193646	1	07/15/2014 20:02	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	6.55	0		wt%	R271665	1	07/14/2014 11:30	SG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-17-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 3:50:00 PM
<b>Lab ID:</b> 1407783-046	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
1,1,2,2-Tetrachloroethane	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
1,1,2-Trichloroethane	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
1,1-Dichloroethane	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
1,1-Dichloroethene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
1,2,4-Trichlorobenzene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
1,2-Dibromo-3-chloropropane	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
1,2-Dibromoethane	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
1,2-Dichlorobenzene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
1,2-Dichloroethane	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
1,2-Dichloropropane	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
1,3-Dichlorobenzene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
1,4-Dichlorobenzene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
2-Butanone	BRL	28		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
2-Hexanone	BRL	5.6		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
4-Methyl-2-pentanone	BRL	5.6		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
Acetone	BRL	56		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
Benzene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
Bromodichloromethane	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
Bromoform	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
Bromomethane	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
Carbon disulfide	BRL	5.6		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
Carbon tetrachloride	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
Chlorobenzene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
Chloroethane	BRL	5.6		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
Chloroform	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
Chloromethane	BRL	5.6		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
cis-1,2-Dichloroethene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
cis-1,3-Dichloropropene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
Cyclohexane	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
Dibromochloromethane	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
Dichlorodifluoromethane	BRL	5.6		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
Ethylbenzene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
Freon-113	BRL	5.6		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
Isopropylbenzene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
m,p-Xylene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
Methyl acetate	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
Methyl tert-butyl ether	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
Methylcyclohexane	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
Methylene chloride	BRL	11		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
o-Xylene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-17-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 3:50:00 PM
<b>Lab ID:</b> 1407783-046	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
Tetrachloroethene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
Toluene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
trans-1,2-Dichloroethene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
trans-1,3-Dichloropropene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
Trichloroethene	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
Trichlorofluoromethane	BRL	2.8		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
Vinyl chloride	BRL	5.6		ug/Kg-dry	193646	1	07/15/2014 20:32	MD
Surr: 4-Bromofluorobenzene	96.9	70-128		%REC	193646	1	07/15/2014 20:32	MD
Surr: Dibromofluoromethane	99.3	78.2-128		%REC	193646	1	07/15/2014 20:32	MD
Surr: Toluene-d8	97.3	76.5-116		%REC	193646	1	07/15/2014 20:32	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	16.0	0		wt%	R271665	1	07/14/2014 11:30	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-16-GW
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 3:40:00 PM
<b>Lab ID:</b> 1407783-047	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
1,1-Dichloroethane	30	5.0		ug/L	193520	1	07/12/2014 05:26	GK
1,1-Dichloroethene	12	5.0		ug/L	193520	1	07/12/2014 05:26	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
1,2-Dibromoethane	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
1,2-Dichloroethane	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
1,2-Dichloropropane	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
2-Butanone	BRL	50		ug/L	193520	1	07/12/2014 05:26	GK
2-Hexanone	BRL	10		ug/L	193520	1	07/12/2014 05:26	GK
4-Methyl-2-pentanone	BRL	10		ug/L	193520	1	07/12/2014 05:26	GK
Acetone	BRL	50		ug/L	193520	1	07/12/2014 05:26	GK
Benzene	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
Bromodichloromethane	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
Bromoform	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
Bromomethane	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
Carbon disulfide	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
Carbon tetrachloride	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
Chlorobenzene	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
Chloroethane	BRL	10		ug/L	193520	1	07/12/2014 05:26	GK
Chloroform	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
Chloromethane	BRL	10		ug/L	193520	1	07/12/2014 05:26	GK
cis-1,2-Dichloroethene	5.4	5.0		ug/L	193520	1	07/12/2014 05:26	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
Cyclohexane	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
Dibromochloromethane	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
Dichlorodifluoromethane	BRL	10		ug/L	193520	1	07/12/2014 05:26	GK
Ethylbenzene	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
Freon-113	BRL	10		ug/L	193520	1	07/12/2014 05:26	GK
Isopropylbenzene	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
m,p-Xylene	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
Methyl acetate	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
Methylcyclohexane	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
Methylene chloride	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
o-Xylene	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-16-GW
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 3:40:00 PM
<b>Lab ID:</b> 1407783-047	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
Tetrachloroethene	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
Toluene	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
Trichloroethene	2500	100		ug/L	193520	20	07/14/2014 19:46	GK
Trichlorofluoromethane	BRL	5.0		ug/L	193520	1	07/12/2014 05:26	GK
Vinyl chloride	BRL	2.0		ug/L	193520	1	07/12/2014 05:26	GK
Surr: 4-Bromofluorobenzene	104	66.2-120		%REC	193520	20	07/14/2014 19:46	GK
Surr: 4-Bromofluorobenzene	91.2	66.2-120		%REC	193520	1	07/12/2014 05:26	GK
Surr: Dibromofluoromethane	97.7	79.5-121		%REC	193520	1	07/12/2014 05:26	GK
Surr: Dibromofluoromethane	87.9	79.5-121		%REC	193520	20	07/14/2014 19:46	GK
Surr: Toluene-d8	98.9	77-117		%REC	193520	1	07/12/2014 05:26	GK
Surr: Toluene-d8	94.3	77-117		%REC	193520	20	07/14/2014 19:46	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-18-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 4:05:00 PM
<b>Lab ID:</b> 1407783-048	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
1,1,2,2-Tetrachloroethane	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
1,1,2-Trichloroethane	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
1,1-Dichloroethane	4.5	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
1,1-Dichloroethene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
1,2,4-Trichlorobenzene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
1,2-Dibromo-3-chloropropane	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
1,2-Dibromoethane	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
1,2-Dichlorobenzene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
1,2-Dichloroethane	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
1,2-Dichloropropane	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
1,3-Dichlorobenzene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
1,4-Dichlorobenzene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
2-Butanone	BRL	29		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
2-Hexanone	BRL	5.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
4-Methyl-2-pentanone	BRL	5.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
Acetone	BRL	59		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
Benzene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
Bromodichloromethane	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
Bromoform	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
Bromomethane	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
Carbon disulfide	BRL	5.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
Carbon tetrachloride	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
Chlorobenzene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
Chloroethane	BRL	5.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
Chloroform	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
Chloromethane	BRL	5.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
cis-1,2-Dichloroethene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
cis-1,3-Dichloropropene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
Cyclohexane	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
Dibromochloromethane	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
Dichlorodifluoromethane	BRL	5.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
Ethylbenzene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
Freon-113	BRL	5.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
Isopropylbenzene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
m,p-Xylene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
Methyl acetate	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
Methyl tert-butyl ether	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
Methylcyclohexane	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
Methylene chloride	BRL	12		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
o-Xylene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-18-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 4:05:00 PM
<b>Lab ID:</b> 1407783-048	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
Tetrachloroethene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
Toluene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
trans-1,2-Dichloroethene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
trans-1,3-Dichloropropene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
Trichloroethene	5.3	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
Trichlorofluoromethane	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
Vinyl chloride	BRL	5.9		ug/Kg-dry	193646	1	07/15/2014 21:01	MD
Surr: 4-Bromofluorobenzene	96.1	70-128		%REC	193646	1	07/15/2014 21:01	MD
Surr: Dibromofluoromethane	100	78.2-128		%REC	193646	1	07/15/2014 21:01	MD
Surr: Toluene-d8	96.2	76.5-116		%REC	193646	1	07/15/2014 21:01	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	20.8	0		wt%	R271665	1	07/14/2014 11:30	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-18-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 4:20:00 PM
<b>Lab ID:</b> 1407783-049	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
1,1,2,2-Tetrachloroethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
1,1,2-Trichloroethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
1,1-Dichloroethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
1,1-Dichloroethene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
1,2,4-Trichlorobenzene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
1,2-Dibromo-3-chloropropane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
1,2-Dibromoethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
1,2-Dichlorobenzene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
1,2-Dichloroethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
1,2-Dichloropropane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
1,3-Dichlorobenzene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
1,4-Dichlorobenzene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
2-Butanone	BRL	36		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
2-Hexanone	BRL	7.2		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
4-Methyl-2-pentanone	BRL	7.2		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Acetone	BRL	72		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Benzene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Bromodichloromethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Bromoform	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Bromomethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Carbon disulfide	BRL	7.2		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Carbon tetrachloride	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Chlorobenzene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Chloroethane	BRL	7.2		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Chloroform	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Chloromethane	BRL	7.2		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
cis-1,2-Dichloroethene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
cis-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Cyclohexane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Dibromochloromethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Dichlorodifluoromethane	BRL	7.2		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Ethylbenzene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Freon-113	BRL	7.2		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Isopropylbenzene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
m,p-Xylene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Methyl acetate	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Methyl tert-butyl ether	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Methylcyclohexane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Methylene chloride	BRL	14		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
o-Xylene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-18-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 4:20:00 PM
<b>Lab ID:</b> 1407783-049	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
Styrene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Tetrachloroethene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Toluene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
trans-1,2-Dichloroethene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
trans-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Trichloroethene	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Trichlorofluoromethane	BRL	3.6		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Vinyl chloride	BRL	7.2		ug/Kg-dry	193646	1	07/15/2014 21:30	MD
Surr: 4-Bromofluorobenzene	97.2	70-128		%REC	193646	1	07/15/2014 21:30	MD
Surr: Dibromofluoromethane	102	78.2-128		%REC	193646	1	07/15/2014 21:30	MD
Surr: Toluene-d8	99.9	76.5-116		%REC	193646	1	07/15/2014 21:30	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	14.3	0		wt%	R271665	1	07/14/2014 11:30	SG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-18-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 4:30:00 PM
<b>Lab ID:</b> 1407783-050	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
1,1,2,2-Tetrachloroethane	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
1,1,2-Trichloroethane	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
1,1-Dichloroethane	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
1,1-Dichloroethene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
1,2,4-Trichlorobenzene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
1,2-Dibromo-3-chloropropane	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
1,2-Dibromoethane	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
1,2-Dichlorobenzene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
1,2-Dichloroethane	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
1,2-Dichloropropane	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
1,3-Dichlorobenzene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
1,4-Dichlorobenzene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
2-Butanone	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
2-Hexanone	BRL	5.8		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
4-Methyl-2-pentanone	BRL	5.8		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
Acetone	BRL	5.8		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
Benzene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
Bromodichloromethane	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
Bromoform	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
Bromomethane	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
Carbon disulfide	BRL	5.8		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
Carbon tetrachloride	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
Chlorobenzene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
Chloroethane	BRL	5.8		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
Chloroform	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
Chloromethane	BRL	5.8		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
cis-1,2-Dichloroethene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
cis-1,3-Dichloropropene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
Cyclohexane	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
Dibromochloromethane	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
Dichlorodifluoromethane	BRL	5.8		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
Ethylbenzene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
Freon-113	BRL	5.8		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
Isopropylbenzene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
m,p-Xylene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
Methyl acetate	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
Methyl tert-butyl ether	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
Methylcyclohexane	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
Methylene chloride	BRL	12		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
o-Xylene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-18-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 4:30:00 PM
<b>Lab ID:</b> 1407783-050	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
Tetrachloroethene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
Toluene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
trans-1,2-Dichloroethene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
trans-1,3-Dichloropropene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
Trichloroethene	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
Trichlorofluoromethane	BRL	2.9		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
Vinyl chloride	BRL	5.8		ug/Kg-dry	193646	1	07/15/2014 22:00	MD
Surr: 4-Bromofluorobenzene	99.2	70-128		%REC	193646	1	07/15/2014 22:00	MD
Surr: Dibromofluoromethane	103	78.2-128		%REC	193646	1	07/15/2014 22:00	MD
Surr: Toluene-d8	95	76.5-116		%REC	193646	1	07/15/2014 22:00	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	10.6	0		wt%	R271665	1	07/14/2014 11:30	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-18-GW
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 4:35:00 PM
<b>Lab ID:</b> 1407783-051	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
1,1-Dichloroethane	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
1,1-Dichloroethene	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
1,2-Dibromoethane	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
1,2-Dichloroethane	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
1,2-Dichloropropane	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
2-Butanone	BRL	50		ug/L	193520	1	07/16/2014 07:24	NP
2-Hexanone	BRL	10		ug/L	193520	1	07/16/2014 07:24	NP
4-Methyl-2-pentanone	BRL	10		ug/L	193520	1	07/16/2014 07:24	NP
Acetone	BRL	50		ug/L	193520	1	07/16/2014 07:24	NP
Benzene	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
Bromodichloromethane	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
Bromoform	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
Bromomethane	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
Carbon disulfide	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
Carbon tetrachloride	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
Chlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
Chloroethane	BRL	10		ug/L	193520	1	07/16/2014 07:24	NP
Chloroform	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
Chloromethane	BRL	10		ug/L	193520	1	07/16/2014 07:24	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
Cyclohexane	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
Dibromochloromethane	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
Dichlorodifluoromethane	BRL	10		ug/L	193520	1	07/16/2014 07:24	NP
Ethylbenzene	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
Freon-113	BRL	10		ug/L	193520	1	07/16/2014 07:24	NP
Isopropylbenzene	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
m,p-Xylene	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
Methyl acetate	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
Methylcyclohexane	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
Methylene chloride	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
o-Xylene	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-18-GW
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/8/2014 4:35:00 PM
<b>Lab ID:</b> 1407783-051	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
Tetrachloroethene	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
Toluene	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
Trichloroethene	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
Trichlorofluoromethane	BRL	5.0		ug/L	193520	1	07/16/2014 07:24	NP
Vinyl chloride	BRL	2.0		ug/L	193520	1	07/16/2014 07:24	NP
Surr: 4-Bromofluorobenzene	97.9	66.2-120		%REC	193520	1	07/16/2014 07:24	NP
Surr: Dibromofluoromethane	94.7	79.5-121		%REC	193520	1	07/16/2014 07:24	NP
Surr: Toluene-d8	95.1	77-117		%REC	193520	1	07/16/2014 07:24	NP

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-19-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 8:00:00 AM
<b>Lab ID:</b> 1407783-052	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
1,1,2,2-Tetrachloroethane	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
1,1,2-Trichloroethane	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
1,1-Dichloroethane	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
1,1-Dichloroethene	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
1,2,4-Trichlorobenzene	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
1,2-Dibromo-3-chloropropane	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
1,2-Dibromoethane	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
1,2-Dichlorobenzene	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
1,2-Dichloroethane	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
1,2-Dichloropropane	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
1,3-Dichlorobenzene	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
1,4-Dichlorobenzene	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
2-Butanone	BRL	33		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
2-Hexanone	BRL	6.7		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
4-Methyl-2-pentanone	BRL	6.7		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
Acetone	BRL	67		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
Benzene	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
Bromodichloromethane	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
Bromoform	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
Bromomethane	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
Carbon disulfide	BRL	6.7		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
Carbon tetrachloride	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
Chlorobenzene	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
Chloroethane	BRL	6.7		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
Chloroform	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
Chloromethane	BRL	6.7		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
cis-1,2-Dichloroethene	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
cis-1,3-Dichloropropene	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
Cyclohexane	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
Dibromochloromethane	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
Dichlorodifluoromethane	BRL	6.7		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
Ethylbenzene	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
Freon-113	BRL	6.7		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
Isopropylbenzene	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
m,p-Xylene	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
Methyl acetate	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
Methyl tert-butyl ether	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
Methylcyclohexane	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
Methylene chloride	BRL	13		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
o-Xylene	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-19-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 8:00:00 AM
<b>Lab ID:</b> 1407783-052	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
Tetrachloroethene	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
Toluene	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
trans-1,2-Dichloroethene	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
trans-1,3-Dichloropropene	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
Trichloroethene	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
Trichlorofluoromethane	BRL	3.3		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
Vinyl chloride	BRL	6.7		ug/Kg-dry	193646	1	07/15/2014 22:29	MD
Surr: 4-Bromofluorobenzene	94.7	70-128		%REC	193646	1	07/15/2014 22:29	MD
Surr: Dibromofluoromethane	102	78.2-128		%REC	193646	1	07/15/2014 22:29	MD
Surr: Toluene-d8	98.6	76.5-116		%REC	193646	1	07/15/2014 22:29	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	11.8	0		wt%	R271665	1	07/14/2014 11:30	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-19-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 8:10:00 AM
<b>Lab ID:</b> 1407783-053	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
1,1,2,2-Tetrachloroethane	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
1,1,2-Trichloroethane	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
1,1-Dichloroethane	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
1,1-Dichloroethene	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
1,2,4-Trichlorobenzene	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
1,2-Dibromo-3-chloropropane	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
1,2-Dibromoethane	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
1,2-Dichlorobenzene	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
1,2-Dichloroethane	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
1,2-Dichloropropane	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
1,3-Dichlorobenzene	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
1,4-Dichlorobenzene	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
2-Butanone	BRL	35		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
2-Hexanone	BRL	7.0		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
4-Methyl-2-pentanone	BRL	7.0		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
Acetone	BRL	70		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
Benzene	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
Bromodichloromethane	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
Bromoform	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
Bromomethane	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
Carbon disulfide	BRL	7.0		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
Carbon tetrachloride	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
Chlorobenzene	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
Chloroethane	BRL	7.0		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
Chloroform	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
Chloromethane	BRL	7.0		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
cis-1,2-Dichloroethene	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
cis-1,3-Dichloropropene	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
Cyclohexane	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
Dibromochloromethane	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
Dichlorodifluoromethane	BRL	7.0		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
Ethylbenzene	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
Freon-113	BRL	7.0		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
Isopropylbenzene	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
m,p-Xylene	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
Methyl acetate	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
Methyl tert-butyl ether	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
Methylcyclohexane	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
Methylene chloride	BRL	14		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
o-Xylene	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-19-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 8:10:00 AM
<b>Lab ID:</b> 1407783-053	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5035)</b>				
Styrene	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
Tetrachloroethene	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
Toluene	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
trans-1,2-Dichloroethene	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
trans-1,3-Dichloropropene	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
Trichloroethene	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
Trichlorofluoromethane	BRL	3.5		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
Vinyl chloride	BRL	7.0		ug/Kg-dry	193649	1	07/15/2014 13:37	MD
Surr: 4-Bromofluorobenzene	101	70-128		%REC	193649	1	07/15/2014 13:37	MD
Surr: Dibromofluoromethane	105	78.2-128		%REC	193649	1	07/15/2014 13:37	MD
Surr: Toluene-d8	96.4	76.5-116		%REC	193649	1	07/15/2014 13:37	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	6.72	0		wt%	R271665	1	07/14/2014 11:30	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-19-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 8:15:00 AM
<b>Lab ID:</b> 1407783-054	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
1,1,2,2-Tetrachloroethane	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
1,1,2-Trichloroethane	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
1,1-Dichloroethane	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
1,1-Dichloroethene	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
1,2,4-Trichlorobenzene	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
1,2-Dibromo-3-chloropropane	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
1,2-Dibromoethane	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
1,2-Dichlorobenzene	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
1,2-Dichloroethane	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
1,2-Dichloropropane	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
1,3-Dichlorobenzene	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
1,4-Dichlorobenzene	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
2-Butanone	BRL	38		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
2-Hexanone	BRL	7.5		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
4-Methyl-2-pentanone	BRL	7.5		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
Acetone	BRL	75		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
Benzene	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
Bromodichloromethane	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
Bromoform	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
Bromomethane	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
Carbon disulfide	BRL	7.5		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
Carbon tetrachloride	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
Chlorobenzene	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
Chloroethane	BRL	7.5		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
Chloroform	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
Chloromethane	BRL	7.5		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
cis-1,2-Dichloroethene	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
cis-1,3-Dichloropropene	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
Cyclohexane	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
Dibromochloromethane	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
Dichlorodifluoromethane	BRL	7.5		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
Ethylbenzene	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
Freon-113	BRL	7.5		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
Isopropylbenzene	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
m,p-Xylene	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
Methyl acetate	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
Methyl tert-butyl ether	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
Methylcyclohexane	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
Methylene chloride	BRL	15		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
o-Xylene	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit



Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-19-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 8:15:00 AM
<b>Lab ID:</b> 1407783-054	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
Tetrachloroethene	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
Toluene	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
trans-1,2-Dichloroethene	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
trans-1,3-Dichloropropene	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
Trichloroethene	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
Trichlorofluoromethane	BRL	3.8		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
Vinyl chloride	BRL	7.5		ug/Kg-dry	193649	1	07/15/2014 14:06	MD
Surr: 4-Bromofluorobenzene	102	70-128		%REC	193649	1	07/15/2014 14:06	MD
Surr: Dibromofluoromethane	104	78.2-128		%REC	193649	1	07/15/2014 14:06	MD
Surr: Toluene-d8	98.8	76.5-116		%REC	193649	1	07/15/2014 14:06	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	26.2	0		wt%	R271665	1	07/14/2014 11:30	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-20-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 8:30:00 AM
<b>Lab ID:</b> 1407783-055	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
1,1,2,2-Tetrachloroethane	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
1,1,2-Trichloroethane	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
1,1-Dichloroethane	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
1,1-Dichloroethene	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
1,2,4-Trichlorobenzene	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
1,2-Dibromo-3-chloropropane	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
1,2-Dibromoethane	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
1,2-Dichlorobenzene	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
1,2-Dichloroethane	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
1,2-Dichloropropane	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
1,3-Dichlorobenzene	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
1,4-Dichlorobenzene	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
2-Butanone	BRL	31		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
2-Hexanone	BRL	6.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
4-Methyl-2-pentanone	BRL	6.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
Acetone	BRL	61		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
Benzene	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
Bromodichloromethane	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
Bromoform	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
Bromomethane	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
Carbon disulfide	BRL	6.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
Carbon tetrachloride	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
Chlorobenzene	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
Chloroethane	BRL	6.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
Chloroform	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
Chloromethane	BRL	6.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
cis-1,2-Dichloroethene	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
cis-1,3-Dichloropropene	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
Cyclohexane	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
Dibromochloromethane	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
Dichlorodifluoromethane	BRL	6.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
Ethylbenzene	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
Freon-113	BRL	6.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
Isopropylbenzene	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
m,p-Xylene	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
Methyl acetate	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
Methyl tert-butyl ether	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
Methylcyclohexane	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
Methylene chloride	BRL	12		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
o-Xylene	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-20-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 8:30:00 AM
<b>Lab ID:</b> 1407783-055	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
Tetrachloroethene	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
Toluene	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
trans-1,2-Dichloroethene	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
trans-1,3-Dichloropropene	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
Trichloroethene	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
Trichlorofluoromethane	BRL	3.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
Vinyl chloride	BRL	6.1		ug/Kg-dry	193649	1	07/15/2014 14:36	MD
Surr: 4-Bromofluorobenzene	94.1	70-128		%REC	193649	1	07/15/2014 14:36	MD
Surr: Dibromofluoromethane	105	78.2-128		%REC	193649	1	07/15/2014 14:36	MD
Surr: Toluene-d8	97.8	76.5-116		%REC	193649	1	07/15/2014 14:36	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	14.3	0		wt%	R271665	1	07/14/2014 11:30	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-20-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 8:40:00 AM
<b>Lab ID:</b> 1407783-056	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
1,1,2,2-Tetrachloroethane	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
1,1,2-Trichloroethane	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
1,1-Dichloroethane	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
1,1-Dichloroethene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
1,2,4-Trichlorobenzene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
1,2-Dibromo-3-chloropropane	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
1,2-Dibromoethane	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
1,2-Dichlorobenzene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
1,2-Dichloroethane	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
1,2-Dichloropropane	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
1,3-Dichlorobenzene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
1,4-Dichlorobenzene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
2-Butanone	BRL	25		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
2-Hexanone	BRL	5.0		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
4-Methyl-2-pentanone	BRL	5.0		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
Acetone	BRL	50		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
Benzene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
Bromodichloromethane	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
Bromoform	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
Bromomethane	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
Carbon disulfide	BRL	5.0		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
Carbon tetrachloride	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
Chlorobenzene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
Chloroethane	BRL	5.0		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
Chloroform	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
Chloromethane	BRL	5.0		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
cis-1,2-Dichloroethene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
cis-1,3-Dichloropropene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
Cyclohexane	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
Dibromochloromethane	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
Dichlorodifluoromethane	BRL	5.0		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
Ethylbenzene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
Freon-113	BRL	5.0		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
Isopropylbenzene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
m,p-Xylene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
Methyl acetate	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
Methyl tert-butyl ether	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
Methylcyclohexane	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
Methylene chloride	BRL	10.0		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
o-Xylene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-20-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 8:40:00 AM
<b>Lab ID:</b> 1407783-056	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5035)</b>				
Styrene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
Tetrachloroethene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
Toluene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
trans-1,2-Dichloroethene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
trans-1,3-Dichloropropene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
Trichloroethene	26	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
Trichlorofluoromethane	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
Vinyl chloride	BRL	5.0		ug/Kg-dry	193649	1	07/15/2014 15:05	MD
Surr: 4-Bromofluorobenzene	97.5	70-128		%REC	193649	1	07/15/2014 15:05	MD
Surr: Dibromofluoromethane	102	78.2-128		%REC	193649	1	07/15/2014 15:05	MD
Surr: Toluene-d8	96.9	76.5-116		%REC	193649	1	07/15/2014 15:05	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	6.77	0		wt%	R271665	1	07/14/2014 11:30	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-20-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 8:45:00 AM
<b>Lab ID:</b> 1407783-057	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
1,1,2,2-Tetrachloroethane	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
1,1,2-Trichloroethane	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
1,1-Dichloroethane	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
1,1-Dichloroethene	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
1,2,4-Trichlorobenzene	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
1,2-Dibromo-3-chloropropane	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
1,2-Dibromoethane	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
1,2-Dichlorobenzene	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
1,2-Dichloroethane	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
1,2-Dichloropropane	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
1,3-Dichlorobenzene	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
1,4-Dichlorobenzene	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
2-Butanone	BRL	32		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
2-Hexanone	BRL	6.4		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
4-Methyl-2-pentanone	BRL	6.4		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
Acetone	BRL	64		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
Benzene	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
Bromodichloromethane	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
Bromoform	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
Bromomethane	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
Carbon disulfide	BRL	6.4		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
Carbon tetrachloride	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
Chlorobenzene	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
Chloroethane	BRL	6.4		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
Chloroform	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
Chloromethane	BRL	6.4		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
cis-1,2-Dichloroethene	4.2	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
cis-1,3-Dichloropropene	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
Cyclohexane	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
Dibromochloromethane	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
Dichlorodifluoromethane	BRL	6.4		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
Ethylbenzene	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
Freon-113	BRL	6.4		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
Isopropylbenzene	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
m,p-Xylene	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
Methyl acetate	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
Methyl tert-butyl ether	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
Methylcyclohexane	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
Methylene chloride	BRL	13		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
o-Xylene	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-20-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 8:45:00 AM
<b>Lab ID:</b> 1407783-057	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
Tetrachloroethene	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
Toluene	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
trans-1,2-Dichloroethene	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
trans-1,3-Dichloropropene	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
Trichloroethene	19	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
Trichlorofluoromethane	BRL	3.2		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
Vinyl chloride	BRL	6.4		ug/Kg-dry	193649	1	07/16/2014 14:23	MD
Surr: 4-Bromofluorobenzene	80.5	70-128		%REC	193649	1	07/16/2014 14:23	MD
Surr: Dibromofluoromethane	122	78.2-128		%REC	193649	1	07/16/2014 14:23	MD
Surr: Toluene-d8	98.2	76.5-116		%REC	193649	1	07/16/2014 14:23	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	14.3	0		wt%	R271665	1	07/14/2014 11:30	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-19-GW
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 8:50:00 AM
<b>Lab ID:</b> 1407783-058	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
1,1-Dichloroethane	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
1,1-Dichloroethene	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
1,2-Dibromoethane	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
1,2-Dichloroethane	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
1,2-Dichloropropane	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
2-Butanone	BRL	50		ug/L	193520	1	07/16/2014 07:52	NP
2-Hexanone	BRL	10		ug/L	193520	1	07/16/2014 07:52	NP
4-Methyl-2-pentanone	BRL	10		ug/L	193520	1	07/16/2014 07:52	NP
Acetone	BRL	50		ug/L	193520	1	07/16/2014 07:52	NP
Benzene	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
Bromodichloromethane	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
Bromoform	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
Bromomethane	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
Carbon disulfide	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
Carbon tetrachloride	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
Chlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
Chloroethane	BRL	10		ug/L	193520	1	07/16/2014 07:52	NP
Chloroform	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
Chloromethane	BRL	10		ug/L	193520	1	07/16/2014 07:52	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
Cyclohexane	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
Dibromochloromethane	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
Dichlorodifluoromethane	BRL	10		ug/L	193520	1	07/16/2014 07:52	NP
Ethylbenzene	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
Freon-113	BRL	10		ug/L	193520	1	07/16/2014 07:52	NP
Isopropylbenzene	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
m,p-Xylene	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
Methyl acetate	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
Methylcyclohexane	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
Methylene chloride	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
o-Xylene	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-19-GW
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 8:50:00 AM
<b>Lab ID:</b> 1407783-058	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
Tetrachloroethene	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
Toluene	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
Trichloroethene	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
Trichlorofluoromethane	BRL	5.0		ug/L	193520	1	07/16/2014 07:52	NP
Vinyl chloride	BRL	2.0		ug/L	193520	1	07/16/2014 07:52	NP
Surr: 4-Bromofluorobenzene	97.8	66.2-120		%REC	193520	1	07/16/2014 07:52	NP
Surr: Dibromofluoromethane	91.8	79.5-121		%REC	193520	1	07/16/2014 07:52	NP
Surr: Toluene-d8	94.2	77-117		%REC	193520	1	07/16/2014 07:52	NP

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-21-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 8:55:00 AM
<b>Lab ID:</b> 1407783-059	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
1,1,2,2-Tetrachloroethane	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
1,1,2-Trichloroethane	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
1,1-Dichloroethane	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
1,1-Dichloroethene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
1,2,4-Trichlorobenzene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
1,2-Dibromo-3-chloropropane	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
1,2-Dibromoethane	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
1,2-Dichlorobenzene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
1,2-Dichloroethane	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
1,2-Dichloropropane	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
1,3-Dichlorobenzene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
1,4-Dichlorobenzene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
2-Butanone	BRL	25		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
2-Hexanone	BRL	5.0		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
4-Methyl-2-pentanone	BRL	5.0		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
Acetone	BRL	50		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
Benzene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
Bromodichloromethane	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
Bromoform	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
Bromomethane	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
Carbon disulfide	BRL	5.0		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
Carbon tetrachloride	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
Chlorobenzene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
Chloroethane	BRL	5.0		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
Chloroform	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
Chloromethane	BRL	5.0		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
cis-1,2-Dichloroethene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
cis-1,3-Dichloropropene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
Cyclohexane	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
Dibromochloromethane	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
Dichlorodifluoromethane	BRL	5.0		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
Ethylbenzene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
Freon-113	BRL	5.0		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
Isopropylbenzene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
m,p-Xylene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
Methyl acetate	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
Methyl tert-butyl ether	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
Methylcyclohexane	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
Methylene chloride	BRL	10		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
o-Xylene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-21-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 8:55:00 AM
<b>Lab ID:</b> 1407783-059	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5035)</b>				
Styrene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
Tetrachloroethene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
Toluene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
trans-1,2-Dichloroethene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
trans-1,3-Dichloropropene	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
Trichloroethene	19	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
Trichlorofluoromethane	BRL	2.5		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
Vinyl chloride	BRL	5.0		ug/Kg-dry	193649	1	07/15/2014 16:04	MD
Surr: 4-Bromofluorobenzene	71.1	70-128		%REC	193649	1	07/15/2014 16:04	MD
Surr: Dibromofluoromethane	107	78.2-128		%REC	193649	1	07/15/2014 16:04	MD
Surr: Toluene-d8	99.4	76.5-116		%REC	193649	1	07/15/2014 16:04	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	9.37	0		wt%	R271665	1	07/14/2014 11:30	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-21-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 9:05:00 AM
<b>Lab ID:</b> 1407783-060	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
1,1,2,2-Tetrachloroethane	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
1,1,2-Trichloroethane	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
1,1-Dichloroethane	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
1,1-Dichloroethene	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
1,2,4-Trichlorobenzene	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
1,2-Dibromo-3-chloropropane	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
1,2-Dibromoethane	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
1,2-Dichlorobenzene	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
1,2-Dichloroethane	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
1,2-Dichloropropane	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
1,3-Dichlorobenzene	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
1,4-Dichlorobenzene	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
2-Butanone	BRL	36		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
2-Hexanone	BRL	7.3		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
4-Methyl-2-pentanone	BRL	7.3		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
Acetone	BRL	73		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
Benzene	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
Bromodichloromethane	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
Bromoform	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
Bromomethane	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
Carbon disulfide	BRL	7.3		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
Carbon tetrachloride	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
Chlorobenzene	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
Chloroethane	BRL	7.3		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
Chloroform	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
Chloromethane	BRL	7.3		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
cis-1,2-Dichloroethene	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
cis-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
Cyclohexane	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
Dibromochloromethane	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
Dichlorodifluoromethane	BRL	7.3		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
Ethylbenzene	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
Freon-113	BRL	7.3		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
Isopropylbenzene	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
m,p-Xylene	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
Methyl acetate	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
Methyl tert-butyl ether	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
Methylcyclohexane	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
Methylene chloride	BRL	15		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
o-Xylene	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-21-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 9:05:00 AM
<b>Lab ID:</b> 1407783-060	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
Tetrachloroethene	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
Toluene	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
trans-1,2-Dichloroethene	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
trans-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
Trichloroethene	1100	150		ug/Kg-dry	193623	50	07/16/2014 02:51	NP
Trichlorofluoromethane	BRL	3.6		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
Vinyl chloride	BRL	7.3		ug/Kg-dry	193649	1	07/15/2014 16:33	MD
Surr: 4-Bromofluorobenzene	81.4	70-128		%REC	193623	50	07/16/2014 02:51	NP
Surr: 4-Bromofluorobenzene	91.6	70-128		%REC	193649	1	07/15/2014 16:33	MD
Surr: Dibromofluoromethane	96.5	78.2-128		%REC	193623	50	07/16/2014 02:51	NP
Surr: Dibromofluoromethane	103	78.2-128		%REC	193649	1	07/15/2014 16:33	MD
Surr: Toluene-d8	92.1	76.5-116		%REC	193623	50	07/16/2014 02:51	NP
Surr: Toluene-d8	96.5	76.5-116		%REC	193649	1	07/15/2014 16:33	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	7.02	0		wt%	R271665	1	07/14/2014 11:30	SG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-21-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 9:15:00 AM
<b>Lab ID:</b> 1407783-061	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
1,1,2,2-Tetrachloroethane	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
1,1,2-Trichloroethane	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
1,1-Dichloroethane	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
1,1-Dichloroethene	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
1,2,4-Trichlorobenzene	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
1,2-Dibromo-3-chloropropane	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
1,2-Dibromoethane	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
1,2-Dichlorobenzene	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
1,2-Dichloroethane	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
1,2-Dichloropropane	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
1,3-Dichlorobenzene	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
1,4-Dichlorobenzene	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
2-Butanone	BRL	33		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
2-Hexanone	BRL	6.6		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
4-Methyl-2-pentanone	BRL	6.6		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
Acetone	BRL	66		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
Benzene	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
Bromodichloromethane	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
Bromoform	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
Bromomethane	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
Carbon disulfide	BRL	6.6		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
Carbon tetrachloride	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
Chlorobenzene	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
Chloroethane	BRL	6.6		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
Chloroform	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
Chloromethane	BRL	6.6		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
cis-1,2-Dichloroethene	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
cis-1,3-Dichloropropene	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
Cyclohexane	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
Dibromochloromethane	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
Dichlorodifluoromethane	BRL	6.6		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
Ethylbenzene	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
Freon-113	BRL	6.6		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
Isopropylbenzene	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
m,p-Xylene	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
Methyl acetate	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
Methyl tert-butyl ether	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
Methylcyclohexane	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
Methylene chloride	BRL	13		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
o-Xylene	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-21-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 9:15:00 AM
<b>Lab ID:</b> 1407783-061	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5035)</b>				
Styrene	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
Tetrachloroethene	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
Toluene	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
trans-1,2-Dichloroethene	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
trans-1,3-Dichloropropene	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
Trichloroethene	120	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
Trichlorofluoromethane	BRL	3.3		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
Vinyl chloride	BRL	6.6		ug/Kg-dry	193649	1	07/15/2014 17:02	MD
Surr: 4-Bromofluorobenzene	99.1	70-128		%REC	193649	1	07/15/2014 17:02	MD
Surr: Dibromofluoromethane	101	78.2-128		%REC	193649	1	07/15/2014 17:02	MD
Surr: Toluene-d8	98.6	76.5-116		%REC	193649	1	07/15/2014 17:02	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	22.5	0		wt%	R271665	1	07/14/2014 11:30	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-20-GW
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 8:55:00 AM
<b>Lab ID:</b> 1407783-062	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
1,1,1-Trichloroethane	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
1,1-Dichloroethane	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
1,1-Dichloroethene	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
1,2-Dibromoethane	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
1,2-Dichloroethane	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
1,2-Dichloropropane	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
2-Butanone	BRL	50		ug/L	193520	1	07/16/2014 08:20	NP
2-Hexanone	BRL	10		ug/L	193520	1	07/16/2014 08:20	NP
4-Methyl-2-pentanone	BRL	10		ug/L	193520	1	07/16/2014 08:20	NP
Acetone	BRL	50		ug/L	193520	1	07/16/2014 08:20	NP
Benzene	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
Bromodichloromethane	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
Bromoform	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
Bromomethane	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
Carbon disulfide	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
Carbon tetrachloride	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
Chlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
Chloroethane	BRL	10		ug/L	193520	1	07/16/2014 08:20	NP
Chloroform	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
Chloromethane	BRL	10		ug/L	193520	1	07/16/2014 08:20	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
Cyclohexane	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
Dibromochloromethane	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
Dichlorodifluoromethane	BRL	10		ug/L	193520	1	07/16/2014 08:20	NP
Ethylbenzene	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
Freon-113	BRL	10		ug/L	193520	1	07/16/2014 08:20	NP
Isopropylbenzene	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
m,p-Xylene	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
Methyl acetate	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
Methylcyclohexane	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
Methylene chloride	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
o-Xylene	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-20-GW
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 8:55:00 AM
<b>Lab ID:</b> 1407783-062	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
Tetrachloroethene	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
Toluene	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
Trichloroethene	41	5.0		ug/L	193520	1	07/16/2014 08:20	NP
Trichlorofluoromethane	BRL	5.0		ug/L	193520	1	07/16/2014 08:20	NP
Vinyl chloride	BRL	2.0		ug/L	193520	1	07/16/2014 08:20	NP
Surr: 4-Bromofluorobenzene	98.6	66.2-120		%REC	193520	1	07/16/2014 08:20	NP
Surr: Dibromofluoromethane	94.4	79.5-121		%REC	193520	1	07/16/2014 08:20	NP
Surr: Toluene-d8	93.8	77-117		%REC	193520	1	07/16/2014 08:20	NP

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Client: CDM Smith Inc.  
 Project Name: CESSNA  
 Lab ID: 1407783-063

Client Sample ID: SB-23-5  
 Collection Date: 7/9/2014 9:40:00 AM  
 Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
1,1,2,2-Tetrachloroethane	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
1,1,2-Trichloroethane	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
1,1-Dichloroethane	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
1,1-Dichloroethene	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
1,2,4-Trichlorobenzene	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
1,2-Dibromo-3-chloropropane	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
1,2-Dibromoethane	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
1,2-Dichlorobenzene	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
1,2-Dichloroethane	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
1,2-Dichloropropane	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
1,3-Dichlorobenzene	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
1,4-Dichlorobenzene	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
2-Butanone	BRL	38		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
2-Hexanone	BRL	7.6		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
4-Methyl-2-pentanone	BRL	7.6		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
Acetone	BRL	76		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
Benzene	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
Bromodichloromethane	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
Bromoform	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
Bromomethane	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
Carbon disulfide	BRL	7.6		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
Carbon tetrachloride	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
Chlorobenzene	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
Chloroethane	BRL	7.6		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
Chloroform	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
Chloromethane	BRL	7.6		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
cis-1,2-Dichloroethene	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
cis-1,3-Dichloropropene	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
Cyclohexane	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
Dibromochloromethane	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
Dichlorodifluoromethane	BRL	7.6		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
Ethylbenzene	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
Freon-113	BRL	7.6		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
Isopropylbenzene	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
m,p-Xylene	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
Methyl acetate	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
Methyl tert-butyl ether	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
Methylcyclohexane	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
Methylene chloride	BRL	15		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
o-Xylene	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-23-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 9:40:00 AM
<b>Lab ID:</b> 1407783-063	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5035)</b>				
Styrene	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
Tetrachloroethene	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
Toluene	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
trans-1,2-Dichloroethene	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
trans-1,3-Dichloropropene	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
Trichloroethene	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
Trichlorofluoromethane	BRL	3.8		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
Vinyl chloride	BRL	7.6		ug/Kg-dry	193649	1	07/16/2014 12:45	MD
Surr: 4-Bromofluorobenzene	102	70-128		%REC	193649	1	07/16/2014 12:45	MD
Surr: Dibromofluoromethane	99.9	78.2-128		%REC	193649	1	07/16/2014 12:45	MD
Surr: Toluene-d8	98.5	76.5-116		%REC	193649	1	07/16/2014 12:45	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	11.5	0		wt%	R271665	1	07/14/2014 11:30	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-23-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 9:50:00 AM
<b>Lab ID:</b> 1407783-064	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
1,1,2,2-Tetrachloroethane	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
1,1,2-Trichloroethane	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
1,1-Dichloroethane	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
1,1-Dichloroethene	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
1,2,4-Trichlorobenzene	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
1,2-Dibromo-3-chloropropane	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
1,2-Dibromoethane	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
1,2-Dichlorobenzene	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
1,2-Dichloroethane	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
1,2-Dichloropropane	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
1,3-Dichlorobenzene	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
1,4-Dichlorobenzene	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
2-Butanone	BRL	28		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
2-Hexanone	BRL	5.5		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
4-Methyl-2-pentanone	BRL	5.5		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
Acetone	BRL	55		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
Benzene	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
Bromodichloromethane	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
Bromoform	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
Bromomethane	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
Carbon disulfide	BRL	5.5		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
Carbon tetrachloride	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
Chlorobenzene	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
Chloroethane	BRL	5.5		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
Chloroform	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
Chloromethane	BRL	5.5		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
cis-1,2-Dichloroethene	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
cis-1,3-Dichloropropene	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
Cyclohexane	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
Dibromochloromethane	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
Dichlorodifluoromethane	BRL	5.5		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
Ethylbenzene	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
Freon-113	BRL	5.5		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
Isopropylbenzene	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
m,p-Xylene	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
Methyl acetate	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
Methyl tert-butyl ether	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
Methylcyclohexane	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
Methylene chloride	BRL	11		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
o-Xylene	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-23-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 9:50:00 AM
<b>Lab ID:</b> 1407783-064	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
Tetrachloroethene	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
Toluene	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
trans-1,2-Dichloroethene	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
trans-1,3-Dichloropropene	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
Trichloroethene	180	150		ug/Kg-dry	193623	50	07/17/2014 01:02	AR
Trichlorofluoromethane	BRL	2.8		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
Vinyl chloride	BRL	5.5		ug/Kg-dry	193649	1	07/16/2014 13:14	MD
Surr: 4-Bromofluorobenzene	95.3	70-128		%REC	193623	50	07/17/2014 01:02	AR
Surr: 4-Bromofluorobenzene	86.7	70-128		%REC	193649	1	07/16/2014 13:14	MD
Surr: Dibromofluoromethane	111	78.2-128		%REC	193623	50	07/17/2014 01:02	AR
Surr: Dibromofluoromethane	108	78.2-128		%REC	193649	1	07/16/2014 13:14	MD
Surr: Toluene-d8	94.6	76.5-116		%REC	193623	50	07/17/2014 01:02	AR
Surr: Toluene-d8	96.5	76.5-116		%REC	193649	1	07/16/2014 13:14	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	6.01	0		wt%	R271665	1	07/14/2014 11:30	SG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-23-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 10:00:00 AM
<b>Lab ID:</b> 1407783-065	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
1,1,2,2-Tetrachloroethane	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
1,1,2-Trichloroethane	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
1,1-Dichloroethane	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
1,1-Dichloroethene	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
1,2,4-Trichlorobenzene	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
1,2-Dibromo-3-chloropropane	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
1,2-Dibromoethane	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
1,2-Dichlorobenzene	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
1,2-Dichloroethane	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
1,2-Dichloropropane	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
1,3-Dichlorobenzene	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
1,4-Dichlorobenzene	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
2-Butanone	BRL	48		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
2-Hexanone	BRL	9.6		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
4-Methyl-2-pentanone	BRL	9.6		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
Acetone	BRL	96		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
Benzene	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
Bromodichloromethane	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
Bromoform	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
Bromomethane	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
Carbon disulfide	BRL	9.6		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
Carbon tetrachloride	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
Chlorobenzene	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
Chloroethane	BRL	9.6		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
Chloroform	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
Chloromethane	BRL	9.6		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
cis-1,2-Dichloroethene	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
cis-1,3-Dichloropropene	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
Cyclohexane	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
Dibromochloromethane	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
Dichlorodifluoromethane	BRL	9.6		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
Ethylbenzene	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
Freon-113	BRL	9.6		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
Isopropylbenzene	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
m,p-Xylene	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
Methyl acetate	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
Methyl tert-butyl ether	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
Methylcyclohexane	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
Methylene chloride	BRL	19		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
o-Xylene	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-23-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 10:00:00 AM
<b>Lab ID:</b> 1407783-065	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
Tetrachloroethene	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
Toluene	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
trans-1,2-Dichloroethene	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
trans-1,3-Dichloropropene	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
Trichloroethene	8.6	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
Trichlorofluoromethane	BRL	4.8		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
Vinyl chloride	BRL	9.6		ug/Kg-dry	193687	1	07/16/2014 13:43	MD
Surr: 4-Bromofluorobenzene	98.3	70-128		%REC	193687	1	07/16/2014 13:43	MD
Surr: Dibromofluoromethane	104	78.2-128		%REC	193687	1	07/16/2014 13:43	MD
Surr: Toluene-d8	98.4	76.5-116		%REC	193687	1	07/16/2014 13:43	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	17.0	0		wt%	R271665	1	07/14/2014 11:30	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-21-GW
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 10:05:00 AM
<b>Lab ID:</b> 1407783-066	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
1,1-Dichloroethane	15	5.0		ug/L	193520	1	07/16/2014 08:48	NP
1,1-Dichloroethene	7.6	5.0		ug/L	193520	1	07/16/2014 08:48	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
1,2-Dibromoethane	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
1,2-Dichloroethane	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
1,2-Dichloropropane	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
2-Butanone	BRL	50		ug/L	193520	1	07/16/2014 08:48	NP
2-Hexanone	BRL	10		ug/L	193520	1	07/16/2014 08:48	NP
4-Methyl-2-pentanone	BRL	10		ug/L	193520	1	07/16/2014 08:48	NP
Acetone	BRL	50		ug/L	193520	1	07/16/2014 08:48	NP
Benzene	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
Bromodichloromethane	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
Bromoform	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
Bromomethane	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
Carbon disulfide	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
Carbon tetrachloride	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
Chlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
Chloroethane	BRL	10		ug/L	193520	1	07/16/2014 08:48	NP
Chloroform	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
Chloromethane	BRL	10		ug/L	193520	1	07/16/2014 08:48	NP
cis-1,2-Dichloroethene	24	5.0		ug/L	193520	1	07/16/2014 08:48	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
Cyclohexane	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
Dibromochloromethane	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
Dichlorodifluoromethane	BRL	10		ug/L	193520	1	07/16/2014 08:48	NP
Ethylbenzene	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
Freon-113	BRL	10		ug/L	193520	1	07/16/2014 08:48	NP
Isopropylbenzene	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
m,p-Xylene	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
Methyl acetate	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
Methylcyclohexane	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
Methylene chloride	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
o-Xylene	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-21-GW
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 10:05:00 AM
<b>Lab ID:</b> 1407783-066	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
Tetrachloroethene	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
Toluene	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
Trichloroethene	5100	250		ug/L	193520	50	07/16/2014 00:56	NP
Trichlorofluoromethane	BRL	5.0		ug/L	193520	1	07/16/2014 08:48	NP
Vinyl chloride	BRL	2.0		ug/L	193520	1	07/16/2014 08:48	NP
Surr: 4-Bromofluorobenzene	95.7	66.2-120		%REC	193520	50	07/16/2014 00:56	NP
Surr: 4-Bromofluorobenzene	96.5	66.2-120		%REC	193520	1	07/16/2014 08:48	NP
Surr: Dibromofluoromethane	91	79.5-121		%REC	193520	50	07/16/2014 00:56	NP
Surr: Dibromofluoromethane	91.7	79.5-121		%REC	193520	1	07/16/2014 08:48	NP
Surr: Toluene-d8	95.7	77-117		%REC	193520	50	07/16/2014 00:56	NP
Surr: Toluene-d8	93.3	77-117		%REC	193520	1	07/16/2014 08:48	NP

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-24-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 10:15:00 AM
<b>Lab ID:</b> 1407783-067	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
1,1,2,2-Tetrachloroethane	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
1,1,2-Trichloroethane	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
1,1-Dichloroethane	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
1,1-Dichloroethene	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
1,2,4-Trichlorobenzene	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
1,2-Dibromo-3-chloropropane	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
1,2-Dibromoethane	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
1,2-Dichlorobenzene	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
1,2-Dichloroethane	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
1,2-Dichloropropane	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
1,3-Dichlorobenzene	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
1,4-Dichlorobenzene	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
2-Butanone	BRL	34		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
2-Hexanone	BRL	6.8		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
4-Methyl-2-pentanone	BRL	6.8		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
Acetone	BRL	68		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
Benzene	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
Bromodichloromethane	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
Bromoform	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
Bromomethane	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
Carbon disulfide	BRL	6.8		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
Carbon tetrachloride	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
Chlorobenzene	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
Chloroethane	BRL	6.8		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
Chloroform	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
Chloromethane	BRL	6.8		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
cis-1,2-Dichloroethene	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
cis-1,3-Dichloropropene	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
Cyclohexane	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
Dibromochloromethane	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
Dichlorodifluoromethane	BRL	6.8		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
Ethylbenzene	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
Freon-113	BRL	6.8		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
Isopropylbenzene	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
m,p-Xylene	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
Methyl acetate	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
Methyl tert-butyl ether	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
Methylcyclohexane	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
Methylene chloride	BRL	14		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
o-Xylene	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-24-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 10:15:00 AM
<b>Lab ID:</b> 1407783-067	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
Tetrachloroethene	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
Toluene	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
trans-1,2-Dichloroethene	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
trans-1,3-Dichloropropene	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
Trichloroethene	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
Trichlorofluoromethane	BRL	3.4		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
Vinyl chloride	BRL	6.8		ug/Kg-dry	193687	1	07/16/2014 14:13	MD
Surr: 4-Bromofluorobenzene	95.7	70-128		%REC	193687	1	07/16/2014 14:13	MD
Surr: Dibromofluoromethane	106	78.2-128		%REC	193687	1	07/16/2014 14:13	MD
Surr: Toluene-d8	99.4	76.5-116		%REC	193687	1	07/16/2014 14:13	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	11.5	0		wt%	R271665	1	07/14/2014 11:30	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-24-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 10:25:00 AM
<b>Lab ID:</b> 1407783-068	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
1,1,2,2-Tetrachloroethane	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
1,1,2-Trichloroethane	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
1,1-Dichloroethane	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
1,1-Dichloroethene	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
1,2,4-Trichlorobenzene	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
1,2-Dibromo-3-chloropropane	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
1,2-Dibromoethane	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
1,2-Dichlorobenzene	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
1,2-Dichloroethane	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
1,2-Dichloropropane	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
1,3-Dichlorobenzene	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
1,4-Dichlorobenzene	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
2-Butanone	BRL	30		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
2-Hexanone	BRL	6.1		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
4-Methyl-2-pentanone	BRL	6.1		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
Acetone	63	61		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
Benzene	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
Bromodichloromethane	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
Bromoform	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
Bromomethane	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
Carbon disulfide	BRL	6.1		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
Carbon tetrachloride	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
Chlorobenzene	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
Chloroethane	BRL	6.1		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
Chloroform	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
Chloromethane	BRL	6.1		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
cis-1,2-Dichloroethene	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
cis-1,3-Dichloropropene	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
Cyclohexane	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
Dibromochloromethane	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
Dichlorodifluoromethane	BRL	6.1		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
Ethylbenzene	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
Freon-113	BRL	6.1		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
Isopropylbenzene	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
m,p-Xylene	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
Methyl acetate	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
Methyl tert-butyl ether	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
Methylcyclohexane	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
Methylene chloride	BRL	12		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
o-Xylene	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-24-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 10:25:00 AM
<b>Lab ID:</b> 1407783-068	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5035)</b>				
Styrene	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
Tetrachloroethene	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
Toluene	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
trans-1,2-Dichloroethene	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
trans-1,3-Dichloropropene	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
Trichloroethene	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
Trichlorofluoromethane	BRL	3.0		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
Vinyl chloride	BRL	6.1		ug/Kg-dry	193687	1	07/16/2014 14:42	MD
Surr: 4-Bromofluorobenzene	91.9	70-128		%REC	193687	1	07/16/2014 14:42	MD
Surr: Dibromofluoromethane	105	78.2-128		%REC	193687	1	07/16/2014 14:42	MD
Surr: Toluene-d8	96.3	76.5-116		%REC	193687	1	07/16/2014 14:42	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	7.31	0		wt%	R271665	1	07/14/2014 11:30	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-24-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 10:30:00 AM
<b>Lab ID:</b> 1407783-069	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
1,1,2,2-Tetrachloroethane	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
1,1,2-Trichloroethane	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
1,1-Dichloroethane	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
1,1-Dichloroethene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
1,2,4-Trichlorobenzene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
1,2-Dibromo-3-chloropropane	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
1,2-Dibromoethane	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
1,2-Dichlorobenzene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
1,2-Dichloroethane	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
1,2-Dichloropropane	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
1,3-Dichlorobenzene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
1,4-Dichlorobenzene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
2-Butanone	BRL	28		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
2-Hexanone	BRL	5.7		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
4-Methyl-2-pentanone	BRL	5.7		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
Acetone	BRL	57		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
Benzene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
Bromodichloromethane	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
Bromoform	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
Bromomethane	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
Carbon disulfide	BRL	5.7		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
Carbon tetrachloride	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
Chlorobenzene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
Chloroethane	BRL	5.7		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
Chloroform	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
Chloromethane	BRL	5.7		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
cis-1,2-Dichloroethene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
cis-1,3-Dichloropropene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
Cyclohexane	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
Dibromochloromethane	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
Dichlorodifluoromethane	BRL	5.7		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
Ethylbenzene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
Freon-113	BRL	5.7		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
Isopropylbenzene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
m,p-Xylene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
Methyl acetate	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
Methyl tert-butyl ether	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
Methylcyclohexane	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
Methylene chloride	BRL	11		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
o-Xylene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-24-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 10:30:00 AM
<b>Lab ID:</b> 1407783-069	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
Tetrachloroethene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
Toluene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
trans-1,2-Dichloroethene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
trans-1,3-Dichloropropene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
Trichloroethene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
Trichlorofluoromethane	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
Vinyl chloride	BRL	5.7		ug/Kg-dry	193687	1	07/16/2014 15:12	MD
Surr: 4-Bromofluorobenzene	98.4	70-128		%REC	193687	1	07/16/2014 15:12	MD
Surr: Dibromofluoromethane	102	78.2-128		%REC	193687	1	07/16/2014 15:12	MD
Surr: Toluene-d8	99	76.5-116		%REC	193687	1	07/16/2014 15:12	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	13.7	0		wt%	R271665	1	07/14/2014 11:30	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-23-GW
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 10:35:00 AM
<b>Lab ID:</b> 1407783-070	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
1,1-Dichloroethane	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
1,1-Dichloroethene	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
1,2-Dibromoethane	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
1,2-Dichloroethane	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
1,2-Dichloropropane	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
2-Butanone	BRL	50		ug/L	193520	1	07/16/2014 09:16	NP
2-Hexanone	BRL	10		ug/L	193520	1	07/16/2014 09:16	NP
4-Methyl-2-pentanone	BRL	10		ug/L	193520	1	07/16/2014 09:16	NP
Acetone	BRL	50		ug/L	193520	1	07/16/2014 09:16	NP
Benzene	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
Bromodichloromethane	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
Bromoform	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
Bromomethane	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
Carbon disulfide	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
Carbon tetrachloride	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
Chlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
Chloroethane	BRL	10		ug/L	193520	1	07/16/2014 09:16	NP
Chloroform	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
Chloromethane	BRL	10		ug/L	193520	1	07/16/2014 09:16	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
Cyclohexane	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
Dibromochloromethane	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
Dichlorodifluoromethane	BRL	10		ug/L	193520	1	07/16/2014 09:16	NP
Ethylbenzene	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
Freon-113	BRL	10		ug/L	193520	1	07/16/2014 09:16	NP
Isopropylbenzene	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
m,p-Xylene	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
Methyl acetate	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
Methylcyclohexane	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
Methylene chloride	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
o-Xylene	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-23-GW
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 10:35:00 AM
<b>Lab ID:</b> 1407783-070	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
Tetrachloroethene	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
Toluene	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
Trichloroethene	53	5.0		ug/L	193520	1	07/16/2014 09:16	NP
Trichlorofluoromethane	BRL	5.0		ug/L	193520	1	07/16/2014 09:16	NP
Vinyl chloride	BRL	2.0		ug/L	193520	1	07/16/2014 09:16	NP
Surr: 4-Bromofluorobenzene	95.1	66.2-120		%REC	193520	1	07/16/2014 09:16	NP
Surr: Dibromofluoromethane	90.8	79.5-121		%REC	193520	1	07/16/2014 09:16	NP
Surr: Toluene-d8	93.1	77-117		%REC	193520	1	07/16/2014 09:16	NP

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-24-GW
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 10:50:00 AM
<b>Lab ID:</b> 1407783-071	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
1,1-Dichloroethane	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
1,1-Dichloroethene	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
1,2-Dibromoethane	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
1,2-Dichloroethane	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
1,2-Dichloropropane	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
2-Butanone	BRL	50		ug/L	193520	1	07/16/2014 09:43	NP
2-Hexanone	BRL	10		ug/L	193520	1	07/16/2014 09:43	NP
4-Methyl-2-pentanone	BRL	10		ug/L	193520	1	07/16/2014 09:43	NP
Acetone	BRL	50		ug/L	193520	1	07/16/2014 09:43	NP
Benzene	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
Bromodichloromethane	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
Bromoform	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
Bromomethane	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
Carbon disulfide	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
Carbon tetrachloride	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
Chlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
Chloroethane	BRL	10		ug/L	193520	1	07/16/2014 09:43	NP
Chloroform	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
Chloromethane	BRL	10		ug/L	193520	1	07/16/2014 09:43	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
Cyclohexane	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
Dibromochloromethane	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
Dichlorodifluoromethane	BRL	10		ug/L	193520	1	07/16/2014 09:43	NP
Ethylbenzene	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
Freon-113	BRL	10		ug/L	193520	1	07/16/2014 09:43	NP
Isopropylbenzene	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
m,p-Xylene	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
Methyl acetate	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
Methylcyclohexane	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
Methylene chloride	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
o-Xylene	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-24-GW
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 10:50:00 AM
<b>Lab ID:</b> 1407783-071	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
Tetrachloroethene	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
Toluene	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
Trichloroethene	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
Trichlorofluoromethane	BRL	5.0		ug/L	193520	1	07/16/2014 09:43	NP
Vinyl chloride	BRL	2.0		ug/L	193520	1	07/16/2014 09:43	NP
Surr: 4-Bromofluorobenzene	95.3	66.2-120		%REC	193520	1	07/16/2014 09:43	NP
Surr: Dibromofluoromethane	89.5	79.5-121		%REC	193520	1	07/16/2014 09:43	NP
Surr: Toluene-d8	94.4	77-117		%REC	193520	1	07/16/2014 09:43	NP

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-22-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 9:40:00 AM
<b>Lab ID:</b> 1407783-072	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
1,1,2,2-Tetrachloroethane	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
1,1,2-Trichloroethane	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
1,1-Dichloroethane	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
1,1-Dichloroethene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
1,2,4-Trichlorobenzene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
1,2-Dibromo-3-chloropropane	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
1,2-Dibromoethane	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
1,2-Dichlorobenzene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
1,2-Dichloroethane	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
1,2-Dichloropropane	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
1,3-Dichlorobenzene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
1,4-Dichlorobenzene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
2-Butanone	BRL	28		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
2-Hexanone	BRL	5.6		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
4-Methyl-2-pentanone	BRL	5.6		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
Acetone	BRL	56		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
Benzene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
Bromodichloromethane	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
Bromoform	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
Bromomethane	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
Carbon disulfide	BRL	5.6		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
Carbon tetrachloride	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
Chlorobenzene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
Chloroethane	BRL	5.6		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
Chloroform	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
Chloromethane	BRL	5.6		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
cis-1,2-Dichloroethene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
cis-1,3-Dichloropropene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
Cyclohexane	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
Dibromochloromethane	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
Dichlorodifluoromethane	BRL	5.6		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
Ethylbenzene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
Freon-113	BRL	5.6		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
Isopropylbenzene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
m,p-Xylene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
Methyl acetate	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
Methyl tert-butyl ether	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
Methylcyclohexane	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
Methylene chloride	BRL	11		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
o-Xylene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-22-5
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 9:40:00 AM
<b>Lab ID:</b> 1407783-072	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
Tetrachloroethene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
Toluene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
trans-1,2-Dichloroethene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
trans-1,3-Dichloropropene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
Trichloroethene	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
Trichlorofluoromethane	BRL	2.8		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
Vinyl chloride	BRL	5.6		ug/Kg-dry	193687	1	07/16/2014 15:41	MD
Surr: 4-Bromofluorobenzene	97.2	70-128		%REC	193687	1	07/16/2014 15:41	MD
Surr: Dibromofluoromethane	106	78.2-128		%REC	193687	1	07/16/2014 15:41	MD
Surr: Toluene-d8	98.7	76.5-116		%REC	193687	1	07/16/2014 15:41	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	12.6	0		wt%	R271665	1	07/14/2014 11:30	SG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-22-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 9:50:00 AM
<b>Lab ID:</b> 1407783-073	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
1,1,2,2-Tetrachloroethane	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
1,1,2-Trichloroethane	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
1,1-Dichloroethane	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
1,1-Dichloroethene	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
1,2,4-Trichlorobenzene	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
1,2-Dibromo-3-chloropropane	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
1,2-Dibromoethane	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
1,2-Dichlorobenzene	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
1,2-Dichloroethane	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
1,2-Dichloropropane	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
1,3-Dichlorobenzene	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
1,4-Dichlorobenzene	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
2-Butanone	BRL	33		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
2-Hexanone	BRL	6.6		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
4-Methyl-2-pentanone	BRL	6.6		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
Acetone	BRL	66		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
Benzene	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
Bromodichloromethane	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
Bromoform	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
Bromomethane	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
Carbon disulfide	BRL	6.6		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
Carbon tetrachloride	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
Chlorobenzene	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
Chloroethane	BRL	6.6		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
Chloroform	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
Chloromethane	BRL	6.6		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
cis-1,2-Dichloroethene	19	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
cis-1,3-Dichloropropene	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
Cyclohexane	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
Dibromochloromethane	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
Dichlorodifluoromethane	BRL	6.6		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
Ethylbenzene	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
Freon-113	BRL	6.6		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
Isopropylbenzene	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
m,p-Xylene	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
Methyl acetate	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
Methyl tert-butyl ether	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
Methylcyclohexane	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
Methylene chloride	BRL	13		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
o-Xylene	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-22-10
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 9:50:00 AM
<b>Lab ID:</b> 1407783-073	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Styrene	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
Tetrachloroethene	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
Toluene	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
trans-1,2-Dichloroethene	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
trans-1,3-Dichloropropene	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
Trichloroethene	71	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
Trichlorofluoromethane	BRL	3.3		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
Vinyl chloride	BRL	6.6		ug/Kg-dry	193687	1	07/16/2014 16:10	MD
Surr: 4-Bromofluorobenzene	98.6	70-128		%REC	193687	1	07/16/2014 16:10	MD
Surr: Dibromofluoromethane	108	78.2-128		%REC	193687	1	07/16/2014 16:10	MD
Surr: Toluene-d8	100	76.5-116		%REC	193687	1	07/16/2014 16:10	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	7.73	0		wt%	R271665	1	07/14/2014 11:30	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-22-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 10:00:00 AM
<b>Lab ID:</b> 1407783-074	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
1,1,2,2-Tetrachloroethane	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
1,1,2-Trichloroethane	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
1,1-Dichloroethane	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
1,1-Dichloroethene	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
1,2,4-Trichlorobenzene	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
1,2-Dibromo-3-chloropropane	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
1,2-Dibromoethane	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
1,2-Dichlorobenzene	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
1,2-Dichloroethane	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
1,2-Dichloropropane	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
1,3-Dichlorobenzene	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
1,4-Dichlorobenzene	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
2-Butanone	BRL	37		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
2-Hexanone	BRL	7.3		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
4-Methyl-2-pentanone	BRL	7.3		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
Acetone	BRL	73		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
Benzene	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
Bromodichloromethane	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
Bromoform	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
Bromomethane	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
Carbon disulfide	BRL	7.3		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
Carbon tetrachloride	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
Chlorobenzene	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
Chloroethane	BRL	7.3		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
Chloroform	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
Chloromethane	BRL	7.3		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
cis-1,2-Dichloroethene	18	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
cis-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
Cyclohexane	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
Dibromochloromethane	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
Dichlorodifluoromethane	BRL	7.3		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
Ethylbenzene	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
Freon-113	BRL	7.3		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
Isopropylbenzene	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
m,p-Xylene	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
Methyl acetate	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
Methyl tert-butyl ether	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
Methylcyclohexane	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
Methylene chloride	BRL	15		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
o-Xylene	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-22-15
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 10:00:00 AM
<b>Lab ID:</b> 1407783-074	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5035)</b>				
Styrene	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
Tetrachloroethene	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
Toluene	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
trans-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
trans-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
Trichloroethene	51	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
Trichlorofluoromethane	BRL	3.7		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
Vinyl chloride	BRL	7.3		ug/Kg-dry	193687	1	07/16/2014 16:40	MD
Surr: 4-Bromofluorobenzene	96.4	70-128		%REC	193687	1	07/16/2014 16:40	MD
Surr: Dibromofluoromethane	102	78.2-128		%REC	193687	1	07/16/2014 16:40	MD
Surr: Toluene-d8	96.2	76.5-116		%REC	193687	1	07/16/2014 16:40	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	15.5	0		wt%	R271665	1	07/14/2014 11:30	SG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-22-GW
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 12:15:00 PM
<b>Lab ID:</b> 1407783-076	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
1,1-Dichloroethane	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
1,1-Dichloroethene	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
1,2-Dibromoethane	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
1,2-Dichloroethane	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
1,2-Dichloropropane	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
2-Butanone	BRL	50		ug/L	193520	1	07/16/2014 10:11	NP
2-Hexanone	BRL	10		ug/L	193520	1	07/16/2014 10:11	NP
4-Methyl-2-pentanone	BRL	10		ug/L	193520	1	07/16/2014 10:11	NP
Acetone	BRL	50		ug/L	193520	1	07/16/2014 10:11	NP
Benzene	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
Bromodichloromethane	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
Bromoform	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
Bromomethane	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
Carbon disulfide	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
Carbon tetrachloride	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
Chlorobenzene	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
Chloroethane	BRL	10		ug/L	193520	1	07/16/2014 10:11	NP
Chloroform	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
Chloromethane	BRL	10		ug/L	193520	1	07/16/2014 10:11	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
Cyclohexane	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
Dibromochloromethane	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
Dichlorodifluoromethane	BRL	10		ug/L	193520	1	07/16/2014 10:11	NP
Ethylbenzene	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
Freon-113	BRL	10		ug/L	193520	1	07/16/2014 10:11	NP
Isopropylbenzene	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
m,p-Xylene	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
Methyl acetate	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
Methylcyclohexane	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
Methylene chloride	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
o-Xylene	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Jul-14

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> SB-22-GW
<b>Project Name:</b> CESSNA	<b>Collection Date:</b> 7/9/2014 12:15:00 PM
<b>Lab ID:</b> 1407783-076	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
Tetrachloroethene	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
Toluene	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
Trichloroethene	82	5.0		ug/L	193520	1	07/16/2014 10:11	NP
Trichlorofluoromethane	BRL	5.0		ug/L	193520	1	07/16/2014 10:11	NP
Vinyl chloride	BRL	2.0		ug/L	193520	1	07/16/2014 10:11	NP
Surr: 4-Bromofluorobenzene	95.2	66.2-120		%REC	193520	1	07/16/2014 10:11	NP
Surr: Dibromofluoromethane	91.8	79.5-121		%REC	193520	1	07/16/2014 10:11	NP
Surr: Toluene-d8	95.5	77-117		%REC	193520	1	07/16/2014 10:11	NP

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client CDM

Work Order Number 1407783

Checklist completed by [Signature] Date 7/10/14

Carrier name: FedEx  UPS  Courier  Client  US Mail  Other

Shipping container/cooler in good condition? Yes  No  Not Present

Custody seals intact on shipping container/cooler? Yes  No  Not Present

Custody seals intact on sample bottles? Yes  No  Not Present

Container/Temp Blank temperature in compliance? (4°C±2)\* Yes  No

Cooler #1 3.1 Cooler #2 3.2 Cooler #3 \_\_\_\_\_ Cooler #4 \_\_\_\_\_ Cooler#5 \_\_\_\_\_ Cooler #6 \_\_\_\_\_

Chain of custody present? Yes  No

Chain of custody signed when relinquished and received? Yes  No

Chain of custody agrees with sample labels? Yes  No

Samples in proper container/bottle? Yes  No

Sample containers intact? Yes  No

Sufficient sample volume for indicated test? Yes  No

All samples received within holding time? Yes  No

Was TAT marked on the COC? Yes  No

Proceed with Standard TAT as per project history? Yes  No  Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No

Water - pH acceptable upon receipt? Yes  No  Not Applicable

Adjusted? \_\_\_\_\_ Checked by \_\_\_\_\_

Sample Condition: Good  Other(Explain) \_\_\_\_\_

(For diffusive samples or AIHA lead) Is a known blank included? Yes  No

See Case Narrative for resolution of the Non-Conformance.

\* Samples do not have to comply with the given range for certain parameters.

Client: CDM Smith Inc.  
 Project Name: CESSNA  
 Workorder: 1407783

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 193520

Sample ID: <b>MB-193520</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>07/11/2014</b>	Run No: <b>271564</b>							
Sample Type: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193520</b>	Analysis Date: <b>07/12/2014</b>	Seq No: <b>5730635</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** CDM Smith Inc.  
**Project Name:** CESSNA  
**Workorder:** 1407783

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 193520**

Sample ID: <b>MB-193520</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>07/11/2014</b>	Run No: <b>271564</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193520</b>	Analysis Date: <b>07/12/2014</b>	Seq No: <b>5730635</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	46.23	0	50.00		92.5	66.2	120				
Surr: Dibromofluoromethane	47.29	0	50.00		94.6	79.5	121				
Surr: Toluene-d8	48.89	0	50.00		97.8	77	117				

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: CDM Smith Inc.  
 Project Name: CESSNA  
 Workorder: 1407783

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 193520

Sample ID: <b>LCS-193520</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>07/11/2014</b>	Run No: <b>271564</b>							
SampleType: <b>LCS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193520</b>	Analysis Date: <b>07/12/2014</b>	Seq No: <b>5730634</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	41.02	5.0	50.00		82.0	63.1	140				
Benzene	44.04	5.0	50.00		88.1	74.2	129				
Chlorobenzene	43.72	5.0	50.00		87.4	70	129				
Toluene	45.44	5.0	50.00		90.9	74.2	129				
Trichloroethene	47.11	5.0	50.00		94.2	71.2	135				
Surr: 4-Bromofluorobenzene	48.44	0	50.00		96.9	66.2	120				
Surr: Dibromofluoromethane	48.86	0	50.00		97.7	79.5	121				
Surr: Toluene-d8	48.59	0	50.00		97.2	77	117				

Sample ID: <b>1407783-015AMS</b>	Client ID: <b>SB-8-GW</b>	Units: <b>ug/L</b>	Prep Date: <b>07/11/2014</b>	Run No: <b>271564</b>							
SampleType: <b>MS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193520</b>	Analysis Date: <b>07/12/2014</b>	Seq No: <b>5730637</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	40.63	5.0	50.00		81.3	60.2	159				
Benzene	44.10	5.0	50.00		88.2	70.2	138				
Chlorobenzene	44.84	5.0	50.00		89.7	70.1	133				
Toluene	47.38	5.0	50.00		94.8	70	139				
Trichloroethene	49.39	5.0	50.00	2.330	94.1	70.1	144				
Surr: 4-Bromofluorobenzene	46.32	0	50.00		92.6	66.2	120				
Surr: Dibromofluoromethane	47.71	0	50.00		95.4	79.5	121				
Surr: Toluene-d8	49.45	0	50.00		98.9	77	117				

Sample ID: <b>1407783-015AMSD</b>	Client ID: <b>SB-8-GW</b>	Units: <b>ug/L</b>	Prep Date: <b>07/11/2014</b>	Run No: <b>271564</b>							
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193520</b>	Analysis Date: <b>07/12/2014</b>	Seq No: <b>5730638</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	40.83	5.0	50.00		81.7	60.2	159	40.63	0.491	19.2	
Benzene	44.24	5.0	50.00		88.5	70.2	138	44.10	0.317	20	

**Qualifiers:**

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: CDM Smith Inc.  
 Project Name: CESSNA  
 Workorder: 1407783

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 193520

Sample ID: 1407783-015AMSD	Client ID: SB-8-GW	Units: ug/L	Prep Date: 07/11/2014	Run No: 271564
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 193520	Analysis Date: 07/12/2014	Seq No: 5730638

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	44.72	5.0	50.00		89.4	70.1	133	44.84	0.268	20	
Toluene	46.89	5.0	50.00		93.8	70	139	47.38	1.04	20	
Trichloroethene	49.17	5.0	50.00	2.330	93.7	70.1	144	49.39	0.446	20	
Surr: 4-Bromofluorobenzene	46.38	0	50.00		92.8	66.2	120	46.32	0	0	
Surr: Dibromofluoromethane	48.47	0	50.00		96.9	79.5	121	47.71	0	0	
Surr: Toluene-d8	49.28	0	50.00		98.6	77	117	49.45	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



**Client:** CDM Smith Inc.  
**Project Name:** CESSNA  
**Workorder:** 1407783

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 193557**

Sample ID: <b>MB-193557</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>07/12/2014</b>	Run No: <b>271601</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193557</b>	Analysis Date: <b>07/12/2014</b>	Seq No: <b>5730927</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** CDM Smith Inc.  
**Project Name:** CESSNA  
**Workorder:** 1407783

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 193557**

Sample ID: <b>MB-193557</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>07/12/2014</b>	Run No: <b>271601</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193557</b>	Analysis Date: <b>07/12/2014</b>	Seq No: <b>5730927</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	45.19	0	50.00		90.4	70	128				
Surr: Dibromofluoromethane	48.13	0	50.00		96.3	78.2	128				
Surr: Toluene-d8	45.45	0	50.00		90.9	76.5	116				

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: CDM Smith Inc.  
 Project Name: CESSNA  
 Workorder: 1407783

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 193557

Sample ID: <b>LCS-193557</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>07/12/2014</b>	Run No: <b>271601</b>							
SampleType: <b>LCS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193557</b>	Analysis Date: <b>07/12/2014</b>	Seq No: <b>5730924</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	48.47	5.0	50.00		96.9	69.9	145				
Benzene	47.84	5.0	50.00		95.7	72.3	130				
Chlorobenzene	50.36	5.0	50.00		101	69	130				
Toluene	47.72	5.0	50.00		95.4	71.1	130				
Trichloroethene	51.18	5.0	50.00		102	71.7	136				
Surr: 4-Bromofluorobenzene	45.53	0	50.00		91.1	70	128				
Surr: Dibromofluoromethane	45.53	0	50.00		91.1	78.2	128				
Surr: Toluene-d8	44.31	0	50.00		88.6	76.5	116				

Sample ID: <b>1407A60-001AMS</b>	Client ID:	Units: <b>ug/Kg-dry</b>	Prep Date: <b>07/12/2014</b>	Run No: <b>271618</b>							
SampleType: <b>MS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193557</b>	Analysis Date: <b>07/14/2014</b>	Seq No: <b>5733475</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	54.68	6.1	60.97		89.7	56.6	151				
Benzene	52.40	6.1	60.97		85.9	70.4	130				
Chlorobenzene	54.36	6.1	60.97		89.2	67.5	132				
Toluene	52.96	6.1	60.97		86.9	70.4	130				
Trichloroethene	53.68	6.1	60.97		88.0	70.1	137				
Surr: 4-Bromofluorobenzene	52.81	0	60.97		86.6	70	128				
Surr: Dibromofluoromethane	60.11	0	60.97		98.6	78.2	128				
Surr: Toluene-d8	55.79	0	60.97		91.5	76.5	116				

Sample ID: <b>1407A60-001AMSD</b>	Client ID:	Units: <b>ug/Kg-dry</b>	Prep Date: <b>07/12/2014</b>	Run No: <b>271618</b>							
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193557</b>	Analysis Date: <b>07/14/2014</b>	Seq No: <b>5733476</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	57.84	6.1	60.97		94.9	56.6	151	54.68	5.61	20.4	
Benzene	51.52	6.1	60.97		84.5	70.4	130	52.40	1.69	16.9	

**Qualifiers:**

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: CDM Smith Inc.  
 Project Name: CESSNA  
 Workorder: 1407783

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 193557

Sample ID: <b>1407A60-001AMSD</b>	Client ID:	Units: <b>ug/Kg-dry</b>	Prep Date: <b>07/12/2014</b>	Run No: <b>271618</b>							
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193557</b>	Analysis Date: <b>07/14/2014</b>	Seq No: <b>5733476</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	54.70	6.1	60.97		89.7	67.5	132	54.36	0.626	14.6	
Toluene	55.00	6.1	60.97		90.2	70.4	130	52.96	3.77	16.6	
Trichloroethene	52.94	6.1	60.97		86.8	70.1	137	53.68	1.40	17	
Surr: 4-Bromofluorobenzene	51.38	0	60.97		84.3	70	128	52.81	0	0	
Surr: Dibromofluoromethane	55.57	0	60.97		91.1	78.2	128	60.11	0	0	
Surr: Toluene-d8	57.73	0	60.97		94.7	76.5	116	55.79	0	0	

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** CDM Smith Inc.  
**Project Name:** CESSNA  
**Workorder:** 1407783

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 193565**

Sample ID: <b>MB-193565</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>07/14/2014</b>	Run No: <b>271618</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193565</b>	Analysis Date: <b>07/14/2014</b>	Seq No: <b>5731211</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** CDM Smith Inc.  
**Project Name:** CESSNA  
**Workorder:** 1407783

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 193565**

Sample ID: <b>MB-193565</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>07/14/2014</b>	Run No: <b>271618</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193565</b>	Analysis Date: <b>07/14/2014</b>	Seq No: <b>5731211</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	41.63	0	50.00		83.3	70	128				
Surr: Dibromofluoromethane	53.50	0	50.00		107	78.2	128				
Surr: Toluene-d8	46.11	0	50.00		92.2	76.5	116				

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: CDM Smith Inc.  
 Project Name: CESSNA  
 Workorder: 1407783

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 193565

Sample ID: <b>LCS-193565</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>07/14/2014</b>	Run No: <b>271618</b>							
SampleType: <b>LCS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193565</b>	Analysis Date: <b>07/14/2014</b>	Seq No: <b>5731157</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	46.30	5.0	50.00		92.6	69.9	145				
Benzene	43.32	5.0	50.00		86.6	72.3	130				
Chlorobenzene	43.07	5.0	50.00		86.1	69	130				
Toluene	41.87	5.0	50.00		83.7	71.1	130				
Trichloroethene	46.38	5.0	50.00		92.8	71.7	136				
Surr: 4-Bromofluorobenzene	47.97	0	50.00		95.9	70	128				
Surr: Dibromofluoromethane	54.56	0	50.00		109	78.2	128				
Surr: Toluene-d8	44.39	0	50.00		88.8	76.5	116				

Sample ID: <b>1407783-006AMS</b>	Client ID: <b>MW-4-10</b>	Units: <b>ug/Kg-dry</b>	Prep Date: <b>07/14/2014</b>	Run No: <b>271694</b>							
SampleType: <b>MS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193565</b>	Analysis Date: <b>07/14/2014</b>	Seq No: <b>5733388</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	66.92	6.8	67.75		98.8	56.6	151				
Benzene	64.41	6.8	67.75		95.1	70.4	130				
Chlorobenzene	65.59	6.8	67.75		96.8	67.5	132				
Toluene	65.89	6.8	67.75		97.3	70.4	130				
Trichloroethene	66.22	6.8	67.75		97.7	70.1	137				
Surr: 4-Bromofluorobenzene	57.68	0	67.75		85.1	70	128				
Surr: Dibromofluoromethane	67.15	0	67.75		99.1	78.2	128				
Surr: Toluene-d8	61.46	0	67.75		90.7	76.5	116				

Sample ID: <b>1407783-006AMSD</b>	Client ID: <b>MW-4-10</b>	Units: <b>ug/Kg-dry</b>	Prep Date: <b>07/14/2014</b>	Run No: <b>271694</b>							
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193565</b>	Analysis Date: <b>07/14/2014</b>	Seq No: <b>5733390</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	63.36	6.8	67.75		93.5	56.6	151	66.92	5.47	20.4	
Benzene	64.40	6.8	67.75		95.1	70.4	130	64.41	0.021	16.9	

**Qualifiers:**

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** CDM Smith Inc.  
**Project Name:** CESSNA  
**Workorder:** 1407783

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 193565**

Sample ID: <b>1407783-006AMSD</b>	Client ID: <b>MW-4-10</b>	Units: <b>ug/Kg-dry</b>	Prep Date: <b>07/14/2014</b>	Run No: <b>271694</b>
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193565</b>	Analysis Date: <b>07/14/2014</b>	Seq No: <b>5733390</b>

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	66.76	6.8	67.75		98.5	67.5	132	65.59	1.76	14.6	
Toluene	64.56	6.8	67.75		95.3	70.4	130	65.89	2.04	16.6	
Trichloroethene	67.04	6.8	67.75		99.0	70.1	137	66.22	1.24	17	
Surr: 4-Bromofluorobenzene	58.15	0	67.75		85.8	70	128	57.68	0	0	
Surr: Dibromofluoromethane	68.23	0	67.75		101	78.2	128	67.15	0	0	
Surr: Toluene-d8	61.77	0	67.75		91.2	76.5	116	61.46	0	0	

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



**Client:** CDM Smith Inc.  
**Project Name:** CESSNA  
**Workorder:** 1407783

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 193623**

Sample ID: <b>MB-193623</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>07/14/2014</b>	Run No: <b>271585</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193623</b>	Analysis Date: <b>07/14/2014</b>	Seq No: <b>5732527</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	250									
1,1,2,2-Tetrachloroethane	BRL	250									
1,1,2-Trichloroethane	BRL	250									
1,1-Dichloroethane	BRL	250									
1,1-Dichloroethene	BRL	250									
1,2,4-Trichlorobenzene	BRL	250									
1,2-Dibromo-3-chloropropane	BRL	250									
1,2-Dibromoethane	BRL	250									
1,2-Dichlorobenzene	BRL	250									
1,2-Dichloroethane	BRL	250									
1,2-Dichloropropane	BRL	250									
1,3-Dichlorobenzene	BRL	250									
1,4-Dichlorobenzene	BRL	250									
2-Butanone	BRL	2500									
2-Hexanone	BRL	500									
4-Methyl-2-pentanone	BRL	500									
Acetone	BRL	5000									
Benzene	BRL	250									
Bromodichloromethane	BRL	250									
Bromoform	BRL	250									
Bromomethane	BRL	250									
Carbon disulfide	BRL	500									
Carbon tetrachloride	BRL	250									
Chlorobenzene	BRL	250									
Chloroethane	BRL	500									
Chloroform	BRL	250									
Chloromethane	BRL	500									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** CDM Smith Inc.  
**Project Name:** CESSNA  
**Workorder:** 1407783

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 193623**

Sample ID: <b>MB-193623</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>07/14/2014</b>	Run No: <b>271585</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193623</b>	Analysis Date: <b>07/14/2014</b>	Seq No: <b>5732527</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	250									
cis-1,3-Dichloropropene	BRL	250									
Cyclohexane	BRL	250									
Dibromochloromethane	BRL	250									
Dichlorodifluoromethane	BRL	500									
Ethylbenzene	BRL	250									
Freon-113	BRL	500									
Isopropylbenzene	BRL	250									
m,p-Xylene	BRL	250									
Methyl acetate	BRL	250									
Methyl tert-butyl ether	BRL	250									
Methylcyclohexane	BRL	250									
Methylene chloride	BRL	1000									
o-Xylene	BRL	250									
Styrene	BRL	250									
Tetrachloroethene	BRL	250									
Toluene	BRL	250									
trans-1,2-Dichloroethene	BRL	250									
trans-1,3-Dichloropropene	BRL	250									
Trichloroethene	BRL	250									
Trichlorofluoromethane	BRL	250									
Vinyl chloride	BRL	500									
Surr: 4-Bromofluorobenzene	2354	0	2500		94.2	70	128				
Surr: Dibromofluoromethane	2941	0	2500		118	78.2	128				
Surr: Toluene-d8	2406	0	2500		96.2	76.5	116				

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** CDM Smith Inc.  
**Project Name:** CESSNA  
**Workorder:** 1407783

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 193623**

Sample ID: <b>LCS-193623</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>07/14/2014</b>	Run No: <b>271585</b>							
SampleType: <b>LCS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193623</b>	Analysis Date: <b>07/14/2014</b>	Seq No: <b>5732525</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	2442	250	2500		97.7	69.9	145				
Benzene	2357	250	2500		94.3	72.3	130				
Chlorobenzene	2583	250	2500		103	69	130				
Toluene	2538	250	2500		102	71.1	130				
Trichloroethene	2706	250	2500		108	71.7	136				
Surr: 4-Bromofluorobenzene	2406	0	2500		96.2	70	128				
Surr: Dibromofluoromethane	2808	0	2500		112	78.2	128				
Surr: Toluene-d8	2390	0	2500		95.6	76.5	116				

Sample ID: <b>1407724-003AMS</b>	Client ID:	Units: <b>ug/Kg-dry</b>	Prep Date: <b>07/14/2014</b>	Run No: <b>271585</b>							
SampleType: <b>MS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193623</b>	Analysis Date: <b>07/14/2014</b>	Seq No: <b>5732529</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	3160	320	3242		97.5	56.6	151				
Benzene	2987	320	3242		92.1	70.4	130				
Chlorobenzene	3298	320	3242		102	67.5	132				
Toluene	3227	320	3242		99.5	70.4	130				
Trichloroethene	3386	320	3242		104	70.1	137				
Surr: 4-Bromofluorobenzene	3070	0	3242		94.7	70	128				
Surr: Dibromofluoromethane	3701	0	3242		114	78.2	128				
Surr: Toluene-d8	3070	0	3242		94.7	76.5	116				

Sample ID: <b>1407724-003AMSD</b>	Client ID:	Units: <b>ug/Kg-dry</b>	Prep Date: <b>07/14/2014</b>	Run No: <b>271585</b>							
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193623</b>	Analysis Date: <b>07/14/2014</b>	Seq No: <b>5732532</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	2887	320	3242		89.1	56.6	151	3160	9.03	20.4	
Benzene	2879	320	3242		88.8	70.4	130	2987	3.69	16.9	

**Qualifiers:**

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: CDM Smith Inc.  
 Project Name: CESSNA  
 Workorder: 1407783

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 193623

Sample ID: <b>1407724-003AMSD</b>	Client ID:	Units: <b>ug/Kg-dry</b>	Prep Date: <b>07/14/2014</b>	Run No: <b>271585</b>							
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193623</b>	Analysis Date: <b>07/14/2014</b>	Seq No: <b>5732532</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	3189	320	3242		98.4	67.5	132	3298	3.38	14.6	
Toluene	3121	320	3242		96.3	70.4	130	3227	3.35	16.6	
Trichloroethene	3303	320	3242		102	70.1	137	3386	2.48	17	
Surr: 4-Bromofluorobenzene	3105	0	3242		95.8	70	128	3070	0	0	
Surr: Dibromofluoromethane	3665	0	3242		113	78.2	128	3701	0	0	
Surr: Toluene-d8	3009	0	3242		92.8	76.5	116	3070	0	0	

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** CDM Smith Inc.  
**Project Name:** CESSNA  
**Workorder:** 1407783

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 193646**

Sample ID: <b>MB-193646</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>07/15/2014</b>	Run No: <b>271695</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193646</b>	Analysis Date: <b>07/15/2014</b>	Seq No: <b>5733682</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** CDM Smith Inc.  
**Project Name:** CESSNA  
**Workorder:** 1407783

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 193646**

Sample ID: <b>MB-193646</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>07/15/2014</b>	Run No: <b>271695</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193646</b>	Analysis Date: <b>07/15/2014</b>	Seq No: <b>5733682</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	43.40	0	50.00		86.8	70	128				
Surr: Dibromofluoromethane	55.51	0	50.00		111	78.2	128				
Surr: Toluene-d8	45.11	0	50.00		90.2	76.5	116				

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** CDM Smith Inc.  
**Project Name:** CESSNA  
**Workorder:** 1407783

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 193646**

Sample ID: <b>LCS-193646</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>07/15/2014</b>	Run No: <b>271695</b>							
SampleType: <b>LCS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193646</b>	Analysis Date: <b>07/15/2014</b>	Seq No: <b>5733679</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	48.05	5.0	50.00		96.1	69.9	145				
Benzene	47.17	5.0	50.00		94.3	72.3	130				
Chlorobenzene	51.14	5.0	50.00		102	69	130				
Toluene	48.31	5.0	50.00		96.6	71.1	130				
Trichloroethene	50.18	5.0	50.00		100	71.7	136				
Surr: 4-Bromofluorobenzene	44.59	0	50.00		89.2	70	128				
Surr: Dibromofluoromethane	51.36	0	50.00		103	78.2	128				
Surr: Toluene-d8	44.55	0	50.00		89.1	76.5	116				

Sample ID: <b>1407783-028AMS</b>	Client ID: <b>SB-11-10</b>	Units: <b>ug/Kg-dry</b>	Prep Date: <b>07/15/2014</b>	Run No: <b>271695</b>							
SampleType: <b>MS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193646</b>	Analysis Date: <b>07/15/2014</b>	Seq No: <b>5733685</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	56.33	6.1	60.55	1.973	89.8	56.6	151				
Benzene	57.25	6.1	60.55		94.5	70.4	130				
Chlorobenzene	58.47	6.1	60.55		96.6	67.5	132				
Toluene	56.99	6.1	60.55		94.1	70.4	130				
Trichloroethene	58.67	6.1	60.55	12.20	76.8	70.1	137				
Surr: 4-Bromofluorobenzene	50.36	0	60.55		83.2	70	128				
Surr: Dibromofluoromethane	64.55	0	60.55		107	78.2	128				
Surr: Toluene-d8	54.71	0	60.55		90.4	76.5	116				

Sample ID: <b>1407783-028AMSD</b>	Client ID: <b>SB-11-10</b>	Units: <b>ug/Kg-dry</b>	Prep Date: <b>07/15/2014</b>	Run No: <b>271695</b>							
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193646</b>	Analysis Date: <b>07/15/2014</b>	Seq No: <b>5733687</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	52.83	6.1	60.55	1.973	84.0	56.6	151	56.33	6.41	20.4	
Benzene	56.02	6.1	60.55		92.5	70.4	130	57.25	2.16	16.9	

**Qualifiers:**

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: CDM Smith Inc.  
 Project Name: CESSNA  
 Workorder: 1407783

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 193646

Sample ID: <b>1407783-028AMSD</b>	Client ID: <b>SB-11-10</b>	Units: <b>ug/Kg-dry</b>	Prep Date: <b>07/15/2014</b>	Run No: <b>271695</b>
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193646</b>	Analysis Date: <b>07/15/2014</b>	Seq No: <b>5733687</b>

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	59.12	6.1	60.55		97.6	67.5	132	58.47	1.11	14.6	
Toluene	57.00	6.1	60.55		94.1	70.4	130	56.99	0.021	16.6	
Trichloroethene	56.40	6.1	60.55	12.20	73.0	70.1	137	58.67	3.96	17	
Surr: 4-Bromofluorobenzene	49.92	0	60.55		82.4	70	128	50.36	0	0	
Surr: Dibromofluoromethane	63.69	0	60.55		105	78.2	128	64.55	0	0	
Surr: Toluene-d8	54.69	0	60.55		90.3	76.5	116	54.71	0	0	

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



**Client:** CDM Smith Inc.  
**Project Name:** CESSNA  
**Workorder:** 1407783

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 193649**

Sample ID: <b>MB-193649</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>07/15/2014</b>	Run No: <b>271693</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193649</b>	Analysis Date: <b>07/15/2014</b>	Seq No: <b>5733910</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** CDM Smith Inc.  
**Project Name:** CESSNA  
**Workorder:** 1407783

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 193649**

Sample ID: <b>MB-193649</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>07/15/2014</b>	Run No: <b>271693</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193649</b>	Analysis Date: <b>07/15/2014</b>	Seq No: <b>5733910</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	47.93	0	50.00		95.9	70	128				
Surr: Dibromofluoromethane	41.81	0	50.00		83.6	78.2	128				
Surr: Toluene-d8	46.02	0	50.00		92.0	76.5	116				

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** CDM Smith Inc.  
**Project Name:** CESSNA  
**Workorder:** 1407783

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 193649**

Sample ID: <b>LCS-193649</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>07/15/2014</b>	Run No: <b>271693</b>							
SampleType: <b>LCS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193649</b>	Analysis Date: <b>07/15/2014</b>	Seq No: <b>5733960</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	40.04	5.0	50.00		80.1	69.9	145				
Benzene	46.61	5.0	50.00		93.2	72.3	130				
Chlorobenzene	46.56	5.0	50.00		93.1	69	130				
Toluene	48.57	5.0	50.00		97.1	71.1	130				
Trichloroethene	48.42	5.0	50.00		96.8	71.7	136				
Surr: 4-Bromofluorobenzene	48.78	0	50.00		97.6	70	128				
Surr: Dibromofluoromethane	48.66	0	50.00		97.3	78.2	128				
Surr: Toluene-d8	47.21	0	50.00		94.4	76.5	116				

Sample ID: <b>1407783-053AMS</b>	Client ID: <b>SB-19-10</b>	Units: <b>ug/Kg-dry</b>	Prep Date: <b>07/15/2014</b>	Run No: <b>271693</b>							
SampleType: <b>MS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193649</b>	Analysis Date: <b>07/15/2014</b>	Seq No: <b>5733913</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	34.45	5.4	53.60		64.3	56.6	151				
Benzene	43.50	5.4	53.60		81.2	70.4	130				
Chlorobenzene	44.87	5.4	53.60		83.7	67.5	132				
Toluene	45.38	5.4	53.60		84.7	70.4	130				
Trichloroethene	44.98	5.4	53.60		83.9	70.1	137				
Surr: 4-Bromofluorobenzene	50.68	0	53.60		94.6	70	128				
Surr: Dibromofluoromethane	51.79	0	53.60		96.6	78.2	128				
Surr: Toluene-d8	51.48	0	53.60		96.0	76.5	116				

Sample ID: <b>1407783-053AMSD</b>	Client ID: <b>SB-19-10</b>	Units: <b>ug/Kg-dry</b>	Prep Date: <b>07/15/2014</b>	Run No: <b>271693</b>							
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193649</b>	Analysis Date: <b>07/15/2014</b>	Seq No: <b>5733915</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	39.74	5.4	53.60		74.1	56.6	151	34.45	14.2	20.4	
Benzene	47.40	5.4	53.60		88.4	70.4	130	43.50	8.58	16.9	

**Qualifiers:**

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: CDM Smith Inc.  
 Project Name: CESSNA  
 Workorder: 1407783

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 193649

Sample ID: 1407783-053AMSD Client ID: SB-19-10 Units: ug/Kg-dry Prep Date: 07/15/2014 Run No: 271693  
 SampleType: MSD TestCode: TCL VOLATILE ORGANICS SW8260B BatchID: 193649 Analysis Date: 07/15/2014 Seq No: 5733915

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	46.17	5.4	53.60		86.1	67.5	132	44.87	2.85	14.6	
Toluene	48.66	5.4	53.60		90.8	70.4	130	45.38	6.98	16.6	
Trichloroethene	47.85	5.4	53.60		89.3	70.1	137	44.98	6.19	17	
Surr: 4-Bromofluorobenzene	51.11	0	53.60		95.4	70	128	50.68	0	0	
Surr: Dibromofluoromethane	53.16	0	53.60		99.2	78.2	128	51.79	0	0	
Surr: Toluene-d8	52.01	0	53.60		97.0	76.5	116	51.48	0	0	

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

**Client:** CDM Smith Inc.  
**Project Name:** CESSNA  
**Workorder:** 1407783

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 193687**

Sample ID: <b>MB-193687</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>07/16/2014</b>	Run No: <b>271807</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193687</b>	Analysis Date: <b>07/16/2014</b>	Seq No: <b>5735321</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** CDM Smith Inc.  
**Project Name:** CESSNA  
**Workorder:** 1407783

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 193687**

Sample ID: <b>MB-193687</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>07/16/2014</b>	Run No: <b>271807</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193687</b>	Analysis Date: <b>07/16/2014</b>	Seq No: <b>5735321</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	48.68	0	50.00		97.4	70	128				
Surr: Dibromofluoromethane	48.77	0	50.00		97.5	78.2	128				
Surr: Toluene-d8	48.85	0	50.00		97.7	76.5	116				

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: CDM Smith Inc.  
 Project Name: CESSNA  
 Workorder: 1407783

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 193687

Sample ID: <b>LCS-193687</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>07/16/2014</b>	Run No: <b>271807</b>							
SampleType: <b>LCS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193687</b>	Analysis Date: <b>07/16/2014</b>	Seq No: <b>5735322</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	37.95	5.0	50.00		75.9	69.9	145				
Benzene	40.61	5.0	50.00		81.2	72.3	130				
Chlorobenzene	38.65	5.0	50.00		77.3	69	130				
Toluene	42.34	5.0	50.00		84.7	71.1	130				
Trichloroethene	43.37	5.0	50.00		86.7	71.7	136				
Surr: 4-Bromofluorobenzene	48.97	0	50.00		97.9	70	128				
Surr: Dibromofluoromethane	48.84	0	50.00		97.7	78.2	128				
Surr: Toluene-d8	47.85	0	50.00		95.7	76.5	116				

Sample ID: <b>1407783-065AMS</b>	Client ID: <b>SB-23-15</b>	Units: <b>ug/Kg-dry</b>	Prep Date: <b>07/16/2014</b>	Run No: <b>271807</b>							
SampleType: <b>MS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193687</b>	Analysis Date: <b>07/16/2014</b>	Seq No: <b>5735324</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	43.10	6.0	60.24		71.5	56.6	151				
Benzene	50.56	6.0	60.24		83.9	70.4	130				
Chlorobenzene	47.56	6.0	60.24		78.9	67.5	132				
Toluene	51.03	6.0	60.24		84.7	70.4	130				
Trichloroethene	55.72	6.0	60.24	8.646	78.1	70.1	137				
Surr: 4-Bromofluorobenzene	57.71	0	60.24		95.8	70	128				
Surr: Dibromofluoromethane	57.48	0	60.24		95.4	78.2	128				
Surr: Toluene-d8	58.36	0	60.24		96.9	76.5	116				

Sample ID: <b>1407783-065AMSD</b>	Client ID: <b>SB-23-15</b>	Units: <b>ug/Kg-dry</b>	Prep Date: <b>07/16/2014</b>	Run No: <b>271807</b>							
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>193687</b>	Analysis Date: <b>07/16/2014</b>	Seq No: <b>5735325</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	51.41	6.0	60.24		85.3	56.6	151	43.10	17.6	20.4	
Benzene	54.23	6.0	60.24		90.0	70.4	130	50.56	7.01	16.9	

**Qualifiers:**

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: CDM Smith Inc.  
 Project Name: CESSNA  
 Workorder: 1407783

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 193687

Sample ID: 1407783-065AMSD Client ID: SB-23-15 Units: ug/Kg-dry Prep Date: 07/16/2014 Run No: 271807  
 SampleType: MSD TestCode: TCL VOLATILE ORGANICS SW8260B BatchID: 193687 Analysis Date: 07/16/2014 Seq No: 5735325

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	55.04	6.0	60.24		91.4	67.5	132	47.56	14.6	14.6	
Toluene	56.99	6.0	60.24		94.6	70.4	130	51.03	11.0	16.6	
Trichloroethene	60.48	6.0	60.24	8.646	86.0	70.1	137	55.72	8.19	17	
Surr: 4-Bromofluorobenzene	60.17	0	60.24		99.9	70	128	57.71	0	0	
Surr: Dibromofluoromethane	58.86	0	60.24		97.7	78.2	128	57.48	0	0	
Surr: Toluene-d8	58.84	0	60.24		97.7	76.5	116	58.36	0	0	

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix





January 28, 2016

Andrew Romanek  
CDM Smith Inc.  
3715 Northside Parkway  
Atlanta GA 30327

TEL: (404) 720-1400  
FAX: (404) 467-4130

RE: Cessna

Dear Andrew Romanek:

Order No: 1601F43

Analytical Environmental Services, Inc. received 17 samples on 1/21/2016 10:30:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/15-06/30/16.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Ioana Pacurar  
Project Manager



COMPANY: <b>CDM Smith</b>		ADDRESS: <b>3715 Northside Pkwy NW B. 300 S. 400 Atlanta, GA 30327</b>			ANALYSIS REQUESTED						Visit our website <a href="http://www.aesatlanta.com">www.aesatlanta.com</a> to check on the status of your results, place bottle orders, etc.		No # of Containers	
PHONE: <b>404-720-1400</b>		FAX: <b>404-720-1400</b>			VOC by 8260 BOD by 8260 TOC Alkalinity Oxidant/Reductant Total metals by 7 Ferrous Iron pH/DD Ion Scan TLP VOC						REMARKS			
SAMPLED BY: <b>Ciara Choi</b>		SIGNATURE: <i>[Signature]</i>			PRESERVATION (See codes)									
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)							REMARKS	
		DATE	TIME											
1	MW-6A	1/19/16	1143	X		GW	X							2
2	MW-2A	1/19/16	1154	X		GW	X							2
3	MW-5A	1/19/16	1256	X		GW	X							3
4	MW-1A	1/19/16	1457	X		GW	X							2
5	<del>CLAW</del> GW-8	1/19/16	1628	X		GW	X							2
6	MW-2A	1/19/16	1704	X		GW	X							2
7	MW-4B	1/20/16	1431	X		GW	X							2
8	MW-3C	1/20/16	1248	X		GW	X							2
9	MW-4A	1/20/16	1427	X		GW	X							2
10	MW-3B	1/20/16	1552	X		GW	X							2
11	MW-3A	1/20/16	1524	X		GW	X	X	X	X	X	X		9
12	IDW - purge water	1/20/16	1740	X		GW						X		2
13	IDW - soil - 7A	1/20/16	1730	X		SO						X		1
14	IDW - soil - 5A6A	1/20/16	1725	X		SO						X		1
RELINQUISHED BY: <i>[Signature]</i>		DATE/TIME: 1/21/16 1030		RECEIVED BY: <i>[Signature]</i>		DATE/TIME: 1-21-16 10:30am		PROJECT INFORMATION				RECEIPT		
1: <i>[Signature]</i>		2: <i>[Signature]</i>		3: <i>[Signature]</i>		PROJECT NAME: <b>Cessna</b>				Total # of Containers: <b>33</b>				
2: <i>[Signature]</i>		3: <i>[Signature]</i>		PROJECT #: _____				<input checked="" type="radio"/> Turnaround Time Request <input type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other _____						
3: <i>[Signature]</i>		SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD		INVOICE TO: <b>romanekap@cdmsmith.com</b>				STATE PROGRAM (if any): _____		
		OUT VIA: _____		IN VIA: _____		CLIENT: <b>FedEx</b>		QUOTE #: _____ PO#: _____				E-mail: <input checked="" type="radio"/> /N; Fax? Y/N		
		GREYHOUND		OTHER _____								DATA PACKAGE: I II III IV		



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1601F45

Date: 1/20/16 Page 2 of 2

COMPANY: CDM Smith		ADDRESS: 3715 Northside Pkwy B300 S400 Atlanta, GA 30327					ANALYSIS REQUESTED										Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers
PHONE: 404-720-1400		FAX: 404-720-1400					TCLP VOCs VOC by 8260												
SAMPLED BY: Clara Choi		SIGNATURE: [Signature]					PRESERVATION (See codes)										REMARKS		
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)											REMARKS		
		DATE	TIME																
1	IDW-soil-3C	1/20/16	1735	X		SO	X											1	
2	TRIP BLANK						X											2	
3	DUP-1	1/19/16	0800	X		GW	X												
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
RELINQUISHED BY: [Signature]		DATE/TIME: 1/21/16 1030		RECEIVED BY: [Signature]		DATE/TIME: 1-21-16 10:30		PROJECT INFORMATION										RECEIPT	
								PROJECT NAME: CESSINA										Total # of Containers: 3	
								PROJECT #: _____										Turnaround Time Request	
								SITE ADDRESS: 4800 Cargo Dr Columbus GA										<input checked="" type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other _____	
								SEND REPORT TO: Andrew Romanek											
								INVOICE TO: [Signature]										STATE PROGRAM (if any): _____	
								(IF DIFFERENT FROM ABOVE)										E-mail? Y/N; Fax? Y/N	
								QUOTE #: _____ PO#: _____										DATA PACKAGE: I II III IV	
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD		OUT / / VIA:													
				IN (CLIENT) / / VIA:		FedEx UPS MAIL COURIER													
				GREYHOUND OTHER															

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water  
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

**Client:** CDM Smith Inc.  
**Project:** Cessna  
**Lab ID:** 1601F43

**Case Narrative**

pH Analysis by Method E150.1/SM4500 H+ B:

Sample MW-3A for pH analysis by Method E150.1/SM4500 H+ B was received and analyzed outside holding time requirement of "immediate or 15 minutes".

Dissolved Oxygen by SM4500-O-G:

Sample MW-3A for Dissolved Oxygen by SM4500-O-G was received and analyzed outside holding time requirement of "immediate or 15 minutes".

Oxidation/Reduction Potential by SM2580B:

Sample MW-3A for Oxidation/Reduction Potential by SM2580B was received and analyzed outside holding time requirement of "immediate or 15 minutes".

Sample Receiving Nonconformance:

Sample IDW Purge Water was not analyzed for TCLP Volatiles due to the HCL preservative in the container. Per Clara Choi, the laboratory proceeded with running Total Volatiles on the sample by Method SW 8260B.

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-6A
<b>Project Name:</b> Cessna	<b>Collection Date:</b> 1/19/2016 11:43:00 AM
<b>Lab ID:</b> 1601F43-001	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
1,1-Dichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
1,1-Dichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
1,2-Dibromoethane	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
1,2-Dichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
1,2-Dichloropropane	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
2-Butanone	BRL	50		ug/L	218960	1	01/26/2016 01:38	CH
2-Hexanone	BRL	10		ug/L	218960	1	01/26/2016 01:38	CH
4-Methyl-2-pentanone	BRL	10		ug/L	218960	1	01/26/2016 01:38	CH
Acetone	BRL	50		ug/L	218960	1	01/26/2016 01:38	CH
Benzene	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
Bromodichloromethane	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
Bromoform	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
Bromomethane	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
Carbon disulfide	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
Carbon tetrachloride	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
Chlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
Chloroethane	BRL	10		ug/L	218960	1	01/26/2016 01:38	CH
Chloroform	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
Chloromethane	BRL	10		ug/L	218960	1	01/26/2016 01:38	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
Cyclohexane	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
Dibromochloromethane	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
Dichlorodifluoromethane	BRL	10		ug/L	218960	1	01/26/2016 01:38	CH
Ethylbenzene	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
Freon-113	BRL	10		ug/L	218960	1	01/26/2016 01:38	CH
Isopropylbenzene	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
m,p-Xylene	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
Methyl acetate	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
Methylcyclohexane	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
Methylene chloride	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
o-Xylene	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-6A
<b>Project Name:</b> Cessna	<b>Collection Date:</b> 1/19/2016 11:43:00 AM
<b>Lab ID:</b> 1601F43-001	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5030B)</b>				
Styrene	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
Tetrachloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
Toluene	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
Trichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
Trichlorofluoromethane	BRL	5.0		ug/L	218960	1	01/26/2016 01:38	CH
Vinyl chloride	BRL	2.0		ug/L	218960	1	01/26/2016 01:38	CH
Surr: 4-Bromofluorobenzene	83.5	70.7-125		%REC	218960	1	01/26/2016 01:38	CH
Surr: Dibromofluoromethane	105	82.2-120		%REC	218960	1	01/26/2016 01:38	CH
Surr: Toluene-d8	106	81.8-120		%REC	218960	1	01/26/2016 01:38	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-7A
<b>Project Name:</b> Cessna	<b>Collection Date:</b> 1/19/2016 11:54:00 AM
<b>Lab ID:</b> 1601F43-002	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
1,1-Dichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
1,1-Dichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
1,2-Dibromoethane	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
1,2-Dichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
1,2-Dichloropropane	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
2-Butanone	190	50		ug/L	218960	1	01/26/2016 02:04	CH
2-Hexanone	BRL	10		ug/L	218960	1	01/26/2016 02:04	CH
4-Methyl-2-pentanone	BRL	10		ug/L	218960	1	01/26/2016 02:04	CH
Acetone	BRL	50		ug/L	218960	1	01/26/2016 02:04	CH
Benzene	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
Bromodichloromethane	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
Bromoform	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
Bromomethane	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
Carbon disulfide	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
Carbon tetrachloride	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
Chlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
Chloroethane	BRL	10		ug/L	218960	1	01/26/2016 02:04	CH
Chloroform	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
Chloromethane	BRL	10		ug/L	218960	1	01/26/2016 02:04	CH
cis-1,2-Dichloroethene	49	5.0		ug/L	218960	1	01/26/2016 02:04	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
Cyclohexane	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
Dibromochloromethane	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
Dichlorodifluoromethane	BRL	10		ug/L	218960	1	01/26/2016 02:04	CH
Ethylbenzene	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
Freon-113	BRL	10		ug/L	218960	1	01/26/2016 02:04	CH
Isopropylbenzene	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
m,p-Xylene	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
Methyl acetate	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
Methylcyclohexane	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
Methylene chloride	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
o-Xylene	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-7A
<b>Project Name:</b> Cessna	<b>Collection Date:</b> 1/19/2016 11:54:00 AM
<b>Lab ID:</b> 1601F43-002	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
Tetrachloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
Toluene	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
Trichloroethene	100	5.0		ug/L	218960	1	01/26/2016 02:04	CH
Trichlorofluoromethane	BRL	5.0		ug/L	218960	1	01/26/2016 02:04	CH
Vinyl chloride	BRL	2.0		ug/L	218960	1	01/26/2016 02:04	CH
Surr: 4-Bromofluorobenzene	80.8	70.7-125		%REC	218960	1	01/26/2016 02:04	CH
Surr: Dibromofluoromethane	109	82.2-120		%REC	218960	1	01/26/2016 02:04	CH
Surr: Toluene-d8	102	81.8-120		%REC	218960	1	01/26/2016 02:04	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-5A
<b>Project Name:</b> Cessna	<b>Collection Date:</b> 1/19/2016 12:56:00 PM
<b>Lab ID:</b> 1601F43-003	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
1,1-Dichloroethane	10	5.0		ug/L	218960	1	01/26/2016 02:29	CH
1,1-Dichloroethene	6.9	5.0		ug/L	218960	1	01/26/2016 02:29	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
1,2-Dibromoethane	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
1,2-Dichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
1,2-Dichloropropane	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
2-Butanone	BRL	50		ug/L	218960	1	01/26/2016 02:29	CH
2-Hexanone	BRL	10		ug/L	218960	1	01/26/2016 02:29	CH
4-Methyl-2-pentanone	BRL	10		ug/L	218960	1	01/26/2016 02:29	CH
Acetone	BRL	50		ug/L	218960	1	01/26/2016 02:29	CH
Benzene	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
Bromodichloromethane	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
Bromoform	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
Bromomethane	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
Carbon disulfide	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
Carbon tetrachloride	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
Chlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
Chloroethane	BRL	10		ug/L	218960	1	01/26/2016 02:29	CH
Chloroform	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
Chloromethane	BRL	10		ug/L	218960	1	01/26/2016 02:29	CH
cis-1,2-Dichloroethene	30	5.0		ug/L	218960	1	01/26/2016 02:29	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
Cyclohexane	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
Dibromochloromethane	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
Dichlorodifluoromethane	BRL	10		ug/L	218960	1	01/26/2016 02:29	CH
Ethylbenzene	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
Freon-113	BRL	10		ug/L	218960	1	01/26/2016 02:29	CH
Isopropylbenzene	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
m,p-Xylene	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
Methyl acetate	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
Methylcyclohexane	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
Methylene chloride	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
o-Xylene	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-5A
<b>Project Name:</b> Cessna	<b>Collection Date:</b> 1/19/2016 12:56:00 PM
<b>Lab ID:</b> 1601F43-003	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
Tetrachloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
Toluene	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
Trichloroethene	1900	250		ug/L	218960	50	01/26/2016 18:17	NP
Trichlorofluoromethane	BRL	5.0		ug/L	218960	1	01/26/2016 02:29	CH
Vinyl chloride	BRL	2.0		ug/L	218960	1	01/26/2016 02:29	CH
Surr: 4-Bromofluorobenzene	83.8	70.7-125		%REC	218960	50	01/26/2016 18:17	NP
Surr: 4-Bromofluorobenzene	79	70.7-125		%REC	218960	1	01/26/2016 02:29	CH
Surr: Dibromofluoromethane	109	82.2-120		%REC	218960	50	01/26/2016 18:17	NP
Surr: Dibromofluoromethane	105	82.2-120		%REC	218960	1	01/26/2016 02:29	CH
Surr: Toluene-d8	99.6	81.8-120		%REC	218960	50	01/26/2016 18:17	NP
Surr: Toluene-d8	99.8	81.8-120		%REC	218960	1	01/26/2016 02:29	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-1A
<b>Project Name:</b> Cessna	<b>Collection Date:</b> 1/19/2016 2:57:00 PM
<b>Lab ID:</b> 1601F43-004	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
1,1-Dichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
1,1-Dichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
1,2-Dibromoethane	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
1,2-Dichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
1,2-Dichloropropane	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
2-Butanone	BRL	50		ug/L	218960	1	01/26/2016 00:21	CH
2-Hexanone	BRL	10		ug/L	218960	1	01/26/2016 00:21	CH
4-Methyl-2-pentanone	BRL	10		ug/L	218960	1	01/26/2016 00:21	CH
Acetone	BRL	50		ug/L	218960	1	01/26/2016 00:21	CH
Benzene	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
Bromodichloromethane	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
Bromoform	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
Bromomethane	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
Carbon disulfide	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
Carbon tetrachloride	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
Chlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
Chloroethane	BRL	10		ug/L	218960	1	01/26/2016 00:21	CH
Chloroform	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
Chloromethane	BRL	10		ug/L	218960	1	01/26/2016 00:21	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
Cyclohexane	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
Dibromochloromethane	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
Dichlorodifluoromethane	BRL	10		ug/L	218960	1	01/26/2016 00:21	CH
Ethylbenzene	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
Freon-113	BRL	10		ug/L	218960	1	01/26/2016 00:21	CH
Isopropylbenzene	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
m,p-Xylene	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
Methyl acetate	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
Methylcyclohexane	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
Methylene chloride	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
o-Xylene	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-1A
<b>Project Name:</b> Cessna	<b>Collection Date:</b> 1/19/2016 2:57:00 PM
<b>Lab ID:</b> 1601F43-004	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
Tetrachloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
Toluene	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
Trichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
Trichlorofluoromethane	BRL	5.0		ug/L	218960	1	01/26/2016 00:21	CH
Vinyl chloride	BRL	2.0		ug/L	218960	1	01/26/2016 00:21	CH
Surr: 4-Bromofluorobenzene	83.3	70.7-125		%REC	218960	1	01/26/2016 00:21	CH
Surr: Dibromofluoromethane	116	82.2-120		%REC	218960	1	01/26/2016 00:21	CH
Surr: Toluene-d8	102	81.8-120		%REC	218960	1	01/26/2016 00:21	CH

**Qualifiers:**

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- BRL Below reporting limit
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- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> GW-8
<b>Project Name:</b> Cessna	<b>Collection Date:</b> 1/19/2016 4:28:00 PM
<b>Lab ID:</b> 1601F43-005	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
1,1,2-Trichloroethane	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
1,1-Dichloroethane	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
1,1-Dichloroethene	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
1,2-Dibromoethane	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
1,2-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
1,2-Dichloroethane	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
1,2-Dichloropropane	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
1,3-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
1,4-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
2-Butanone	BRL	50		ug/L	218960	1	01/28/2016 01:09	AR
2-Hexanone	BRL	10		ug/L	218960	1	01/28/2016 01:09	AR
4-Methyl-2-pentanone	BRL	10		ug/L	218960	1	01/28/2016 01:09	AR
Acetone	BRL	50		ug/L	218960	1	01/28/2016 01:09	AR
Benzene	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
Bromodichloromethane	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
Bromoform	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
Bromomethane	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
Carbon disulfide	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
Carbon tetrachloride	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
Chlorobenzene	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
Chloroethane	BRL	10		ug/L	218960	1	01/28/2016 01:09	AR
Chloroform	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
Chloromethane	BRL	10		ug/L	218960	1	01/28/2016 01:09	AR
cis-1,2-Dichloroethene	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
Cyclohexane	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
Dibromochloromethane	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
Dichlorodifluoromethane	BRL	10		ug/L	218960	1	01/28/2016 01:09	AR
Ethylbenzene	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
Freon-113	BRL	10		ug/L	218960	1	01/28/2016 01:09	AR
Isopropylbenzene	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
m,p-Xylene	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
Methyl acetate	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
Methyl tert-butyl ether	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
Methylcyclohexane	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
Methylene chloride	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
o-Xylene	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> GW-8
<b>Project Name:</b> Cessna	<b>Collection Date:</b> 1/19/2016 4:28:00 PM
<b>Lab ID:</b> 1601F43-005	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
Tetrachloroethene	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
Toluene	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
Trichloroethene	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
Trichlorofluoromethane	BRL	5.0		ug/L	218960	1	01/28/2016 01:09	AR
Vinyl chloride	BRL	2.0		ug/L	218960	1	01/28/2016 01:09	AR
Surr: 4-Bromofluorobenzene	87.2	70.7-125		%REC	218960	1	01/28/2016 01:09	AR
Surr: Dibromofluoromethane	101	82.2-120		%REC	218960	1	01/28/2016 01:09	AR
Surr: Toluene-d8	99.9	81.8-120		%REC	218960	1	01/28/2016 01:09	AR

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-2A
<b>Project Name:</b> Cessna	<b>Collection Date:</b> 1/19/2016 5:04:00 PM
<b>Lab ID:</b> 1601F43-006	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
1,1-Dichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
1,1-Dichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
1,2-Dibromoethane	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
1,2-Dichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
1,2-Dichloropropane	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
2-Butanone	BRL	50		ug/L	218960	1	01/26/2016 03:20	CH
2-Hexanone	BRL	10		ug/L	218960	1	01/26/2016 03:20	CH
4-Methyl-2-pentanone	BRL	10		ug/L	218960	1	01/26/2016 03:20	CH
Acetone	BRL	50		ug/L	218960	1	01/26/2016 03:20	CH
Benzene	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
Bromodichloromethane	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
Bromoform	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
Bromomethane	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
Carbon disulfide	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
Carbon tetrachloride	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
Chlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
Chloroethane	BRL	10		ug/L	218960	1	01/26/2016 03:20	CH
Chloroform	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
Chloromethane	BRL	10		ug/L	218960	1	01/26/2016 03:20	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
Cyclohexane	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
Dibromochloromethane	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
Dichlorodifluoromethane	BRL	10		ug/L	218960	1	01/26/2016 03:20	CH
Ethylbenzene	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
Freon-113	BRL	10		ug/L	218960	1	01/26/2016 03:20	CH
Isopropylbenzene	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
m,p-Xylene	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
Methyl acetate	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
Methylcyclohexane	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
Methylene chloride	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
o-Xylene	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 28-Jan-16

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-2A
<b>Project Name:</b> Cessna	<b>Collection Date:</b> 1/19/2016 5:04:00 PM
<b>Lab ID:</b> 1601F43-006	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
Tetrachloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
Toluene	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
Trichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
Trichlorofluoromethane	BRL	5.0		ug/L	218960	1	01/26/2016 03:20	CH
Vinyl chloride	BRL	2.0		ug/L	218960	1	01/26/2016 03:20	CH
Surr: 4-Bromofluorobenzene	84.1	70.7-125		%REC	218960	1	01/26/2016 03:20	CH
Surr: Dibromofluoromethane	118	82.2-120		%REC	218960	1	01/26/2016 03:20	CH
Surr: Toluene-d8	107	81.8-120		%REC	218960	1	01/26/2016 03:20	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-4B
<b>Project Name:</b> Cessna	<b>Collection Date:</b> 1/20/2016 2:31:00 PM
<b>Lab ID:</b> 1601F43-007	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
1,1-Dichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
1,1-Dichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
1,2-Dibromoethane	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
1,2-Dichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
1,2-Dichloropropane	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
2-Butanone	BRL	50		ug/L	218960	1	01/26/2016 03:46	CH
2-Hexanone	BRL	10		ug/L	218960	1	01/26/2016 03:46	CH
4-Methyl-2-pentanone	BRL	10		ug/L	218960	1	01/26/2016 03:46	CH
Acetone	BRL	50		ug/L	218960	1	01/26/2016 03:46	CH
Benzene	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
Bromodichloromethane	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
Bromoform	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
Bromomethane	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
Carbon disulfide	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
Carbon tetrachloride	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
Chlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
Chloroethane	BRL	10		ug/L	218960	1	01/26/2016 03:46	CH
Chloroform	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
Chloromethane	BRL	10		ug/L	218960	1	01/26/2016 03:46	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
Cyclohexane	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
Dibromochloromethane	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
Dichlorodifluoromethane	BRL	10		ug/L	218960	1	01/26/2016 03:46	CH
Ethylbenzene	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
Freon-113	BRL	10		ug/L	218960	1	01/26/2016 03:46	CH
Isopropylbenzene	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
m,p-Xylene	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
Methyl acetate	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
Methylcyclohexane	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
Methylene chloride	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
o-Xylene	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-4B
<b>Project Name:</b> Cessna	<b>Collection Date:</b> 1/20/2016 2:31:00 PM
<b>Lab ID:</b> 1601F43-007	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5030B)</b>				
Styrene	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
Tetrachloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
Toluene	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
Trichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
Trichlorofluoromethane	BRL	5.0		ug/L	218960	1	01/26/2016 03:46	CH
Vinyl chloride	BRL	2.0		ug/L	218960	1	01/26/2016 03:46	CH
Surr: 4-Bromofluorobenzene	83.7	70.7-125		%REC	218960	1	01/26/2016 03:46	CH
Surr: Dibromofluoromethane	110	82.2-120		%REC	218960	1	01/26/2016 03:46	CH
Surr: Toluene-d8	101	81.8-120		%REC	218960	1	01/26/2016 03:46	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-3C
<b>Project Name:</b> Cessna	<b>Collection Date:</b> 1/20/2016 12:48:00 PM
<b>Lab ID:</b> 1601F43-008	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
1,1-Dichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
1,1-Dichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
1,2-Dibromoethane	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
1,2-Dichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
1,2-Dichloropropane	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
2-Butanone	BRL	50		ug/L	218960	1	01/26/2016 04:11	CH
2-Hexanone	BRL	10		ug/L	218960	1	01/26/2016 04:11	CH
4-Methyl-2-pentanone	BRL	10		ug/L	218960	1	01/26/2016 04:11	CH
Acetone	BRL	50		ug/L	218960	1	01/26/2016 04:11	CH
Benzene	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
Bromodichloromethane	7.0	5.0		ug/L	218960	1	01/26/2016 04:11	CH
Bromoform	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
Bromomethane	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
Carbon disulfide	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
Carbon tetrachloride	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
Chlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
Chloroethane	BRL	10		ug/L	218960	1	01/26/2016 04:11	CH
Chloroform	57	5.0		ug/L	218960	1	01/26/2016 04:11	CH
Chloromethane	BRL	10		ug/L	218960	1	01/26/2016 04:11	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
Cyclohexane	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
Dibromochloromethane	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
Dichlorodifluoromethane	BRL	10		ug/L	218960	1	01/26/2016 04:11	CH
Ethylbenzene	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
Freon-113	BRL	10		ug/L	218960	1	01/26/2016 04:11	CH
Isopropylbenzene	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
m,p-Xylene	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
Methyl acetate	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
Methylcyclohexane	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
Methylene chloride	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
o-Xylene	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-3C
<b>Project Name:</b> Cessna	<b>Collection Date:</b> 1/20/2016 12:48:00 PM
<b>Lab ID:</b> 1601F43-008	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
Tetrachloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
Toluene	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
Trichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
Trichlorofluoromethane	BRL	5.0		ug/L	218960	1	01/26/2016 04:11	CH
Vinyl chloride	BRL	2.0		ug/L	218960	1	01/26/2016 04:11	CH
Surr: 4-Bromofluorobenzene	87.3	70.7-125		%REC	218960	1	01/26/2016 04:11	CH
Surr: Dibromofluoromethane	113	82.2-120		%REC	218960	1	01/26/2016 04:11	CH
Surr: Toluene-d8	102	81.8-120		%REC	218960	1	01/26/2016 04:11	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-4A
<b>Project Name:</b> Cessna	<b>Collection Date:</b> 1/20/2016 3:07:00 PM
<b>Lab ID:</b> 1601F43-009	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
1,1-Dichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
1,1-Dichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
1,2-Dibromoethane	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
1,2-Dichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
1,2-Dichloropropane	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
2-Butanone	BRL	50		ug/L	218960	1	01/26/2016 04:36	CH
2-Hexanone	BRL	10		ug/L	218960	1	01/26/2016 04:36	CH
4-Methyl-2-pentanone	BRL	10		ug/L	218960	1	01/26/2016 04:36	CH
Acetone	BRL	50		ug/L	218960	1	01/26/2016 04:36	CH
Benzene	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
Bromodichloromethane	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
Bromoform	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
Bromomethane	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
Carbon disulfide	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
Carbon tetrachloride	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
Chlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
Chloroethane	BRL	10		ug/L	218960	1	01/26/2016 04:36	CH
Chloroform	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
Chloromethane	BRL	10		ug/L	218960	1	01/26/2016 04:36	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
Cyclohexane	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
Dibromochloromethane	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
Dichlorodifluoromethane	BRL	10		ug/L	218960	1	01/26/2016 04:36	CH
Ethylbenzene	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
Freon-113	BRL	10		ug/L	218960	1	01/26/2016 04:36	CH
Isopropylbenzene	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
m,p-Xylene	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
Methyl acetate	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
Methylcyclohexane	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
Methylene chloride	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
o-Xylene	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-4A
<b>Project Name:</b> Cessna	<b>Collection Date:</b> 1/20/2016 3:07:00 PM
<b>Lab ID:</b> 1601F43-009	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
Tetrachloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
Toluene	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
Trichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
Trichlorofluoromethane	BRL	5.0		ug/L	218960	1	01/26/2016 04:36	CH
Vinyl chloride	BRL	2.0		ug/L	218960	1	01/26/2016 04:36	CH
Surr: 4-Bromofluorobenzene	81.9	70.7-125		%REC	218960	1	01/26/2016 04:36	CH
Surr: Dibromofluoromethane	109	82.2-120		%REC	218960	1	01/26/2016 04:36	CH
Surr: Toluene-d8	101	81.8-120		%REC	218960	1	01/26/2016 04:36	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-3B
<b>Project Name:</b> Cessna	<b>Collection Date:</b> 1/20/2016 3:52:00 PM
<b>Lab ID:</b> 1601F43-010	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
1,1-Dichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
1,1-Dichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
1,2-Dibromoethane	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
1,2-Dichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
1,2-Dichloropropane	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
2-Butanone	BRL	50		ug/L	218960	1	01/26/2016 05:02	CH
2-Hexanone	BRL	10		ug/L	218960	1	01/26/2016 05:02	CH
4-Methyl-2-pentanone	BRL	10		ug/L	218960	1	01/26/2016 05:02	CH
Acetone	BRL	50		ug/L	218960	1	01/26/2016 05:02	CH
Benzene	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
Bromodichloromethane	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
Bromoform	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
Bromomethane	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
Carbon disulfide	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
Carbon tetrachloride	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
Chlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
Chloroethane	BRL	10		ug/L	218960	1	01/26/2016 05:02	CH
Chloroform	9.0	5.0		ug/L	218960	1	01/26/2016 05:02	CH
Chloromethane	BRL	10		ug/L	218960	1	01/26/2016 05:02	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
Cyclohexane	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
Dibromochloromethane	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
Dichlorodifluoromethane	BRL	10		ug/L	218960	1	01/26/2016 05:02	CH
Ethylbenzene	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
Freon-113	BRL	10		ug/L	218960	1	01/26/2016 05:02	CH
Isopropylbenzene	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
m,p-Xylene	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
Methyl acetate	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
Methylcyclohexane	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
Methylene chloride	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
o-Xylene	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-3B
<b>Project Name:</b> Cessna	<b>Collection Date:</b> 1/20/2016 3:52:00 PM
<b>Lab ID:</b> 1601F43-010	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5030B)</b>				
Styrene	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
Tetrachloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
Toluene	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
Trichloroethene	11	5.0		ug/L	218960	1	01/26/2016 05:02	CH
Trichlorofluoromethane	BRL	5.0		ug/L	218960	1	01/26/2016 05:02	CH
Vinyl chloride	BRL	2.0		ug/L	218960	1	01/26/2016 05:02	CH
Surr: 4-Bromofluorobenzene	81.1	70.7-125		%REC	218960	1	01/26/2016 05:02	CH
Surr: Dibromofluoromethane	111	82.2-120		%REC	218960	1	01/26/2016 05:02	CH
Surr: Toluene-d8	106	81.8-120		%REC	218960	1	01/26/2016 05:02	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



**Analytical Environmental Services, Inc**

**Date:** 28-Jan-16

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-3A
<b>Project Name:</b> Cessna	<b>Collection Date:</b> 1/20/2016 6:24:00 PM
<b>Lab ID:</b> 1601F43-011	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Total Organic Carbon (TOC) SW9060A</b>								
Organic Carbon, Total	BRL	1.00		mg/L	R309185	1	01/27/2016 12:56	YS
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
1,1-Dichloroethane	8.6	5.0		ug/L	218960	1	01/26/2016 05:28	CH
1,1-Dichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
1,2-Dibromoethane	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
1,2-Dichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
1,2-Dichloropropane	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
2-Butanone	BRL	50		ug/L	218960	1	01/26/2016 05:28	CH
2-Hexanone	BRL	10		ug/L	218960	1	01/26/2016 05:28	CH
4-Methyl-2-pentanone	BRL	10		ug/L	218960	1	01/26/2016 05:28	CH
Acetone	BRL	50		ug/L	218960	1	01/26/2016 05:28	CH
Benzene	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
Bromodichloromethane	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
Bromoform	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
Bromomethane	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
Carbon disulfide	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
Carbon tetrachloride	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
Chlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
Chloroethane	BRL	10		ug/L	218960	1	01/26/2016 05:28	CH
Chloroform	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
Chloromethane	BRL	10		ug/L	218960	1	01/26/2016 05:28	CH
cis-1,2-Dichloroethene	12	5.0		ug/L	218960	1	01/26/2016 05:28	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
Cyclohexane	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
Dibromochloromethane	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
Dichlorodifluoromethane	BRL	10		ug/L	218960	1	01/26/2016 05:28	CH
Ethylbenzene	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
Freon-113	BRL	10		ug/L	218960	1	01/26/2016 05:28	CH
Isopropylbenzene	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
m,p-Xylene	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
Methyl acetate	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
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- N Analyte not NELAC certified
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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-3A
<b>Project Name:</b> Cessna	<b>Collection Date:</b> 1/20/2016 6:24:00 PM
<b>Lab ID:</b> 1601F43-011	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
Methylcyclohexane	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
Methylene chloride	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
o-Xylene	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
Styrene	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
Tetrachloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
Toluene	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
Trichloroethene	1000	50		ug/L	218960	10	01/27/2016 16:26	CH
Trichlorofluoromethane	BRL	5.0		ug/L	218960	1	01/26/2016 05:28	CH
Vinyl chloride	BRL	2.0		ug/L	218960	1	01/26/2016 05:28	CH
Surr: 4-Bromofluorobenzene	76.4	70.7-125		%REC	218960	1	01/26/2016 05:28	CH
Surr: 4-Bromofluorobenzene	84	70.7-125		%REC	218960	10	01/27/2016 16:26	CH
Surr: Dibromofluoromethane	108	82.2-120		%REC	218960	10	01/27/2016 16:26	CH
Surr: Dibromofluoromethane	118	82.2-120		%REC	218960	1	01/26/2016 05:28	CH
Surr: Toluene-d8	102	81.8-120		%REC	218960	10	01/27/2016 16:26	CH
Surr: Toluene-d8	111	81.8-120		%REC	218960	1	01/26/2016 05:28	CH
<b>Oxidation/Reduction Potential in Water by SM2580</b>								
Oxidation-Reduction Potential	190	1.0	H	mV	R308935	1	11/25/2016 12:30	JC
Oxidation-Reduction Potential	180	1.0	H	mV	R308935	1	11/25/2016 12:30	JC
Oxidation-Reduction Potential	180	1.0	H	mV	R308935	1	11/25/2016 12:30	JC
<b>ION SCAN SW9056A</b>								
Nitrate	0.58	0.25		mg/L	R309127	1	01/21/2016 12:21	JW
Nitrite	BRL	0.25		mg/L	R309127	1	01/21/2016 12:21	JW
Sulfate	3.9	1.0		mg/L	R309127	1	01/21/2016 12:21	JW
<b>Hydrogen Ion (pH) by SM4500 H+ B</b>								
pH	5.51	0.0100	H	pH Units	R309023	1	01/26/2016 10:25	JS
<b>HARDNESS SM2340 B (SM2340B)</b>								
Hardness, Calcium (As CaCO3)	5.35	1.00		mg/L CaCO3	218869	1	01/26/2016 19:06	IO
Hardness, Calcium/Magnesium (As CaCO3)	8.21	1.00		mg/L CaCO3	218869	1	01/26/2016 19:06	IO
Hardness, Magnesium	2.86	1.00		mg/L CaCO3	218869	1	01/26/2016 19:06	IO
<b>Ferrous Iron SM3500-Fe-B</b>								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R308930	1	01/21/2016 15:00	JC
<b>Dissolved Oxygen by SM4500-O-G</b>								
Oxygen, Dissolved	7.62	1.00	H	mg/L	R309011	1	01/26/2016 10:00	AW

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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 28-Jan-16

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-3A
<b>Project Name:</b> Cessna	<b>Collection Date:</b> 1/20/2016 6:24:00 PM
<b>Lab ID:</b> 1601F43-011	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Alkalinity by SM2320B</b>								
Alkalinity, Total (As CaCO3)	11.0	3.00		mg/L	R309159	1	01/27/2016 13:00	PF
<b>METALS, TOTAL SW6010D (SW3010A)</b>								
Calcium	2.14	0.100		mg/L	218869	1	01/26/2016 19:06	IO
Iron	BRL	0.100		mg/L	218869	1	01/26/2016 19:06	IO
Manganese	0.0467	0.0150		mg/L	218869	1	01/26/2016 19:06	IO

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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
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- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> IDW-PURGE WATER
<b>Project Name:</b> Cessna	<b>Collection Date:</b> 1/20/2016 5:40:00 PM
<b>Lab ID:</b> 1601F43-012	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
1,1-Dichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
1,1-Dichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
1,2-Dibromoethane	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
1,2-Dichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
1,2-Dichloropropane	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
2-Butanone	BRL	50		ug/L	218960	1	01/26/2016 17:51	NP
2-Hexanone	BRL	10		ug/L	218960	1	01/26/2016 17:51	NP
4-Methyl-2-pentanone	BRL	10		ug/L	218960	1	01/26/2016 17:51	NP
Acetone	BRL	50		ug/L	218960	1	01/26/2016 17:51	NP
Benzene	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
Bromodichloromethane	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
Bromoform	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
Bromomethane	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
Carbon disulfide	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
Carbon tetrachloride	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
Chlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
Chloroethane	BRL	10		ug/L	218960	1	01/26/2016 17:51	NP
Chloroform	29	5.0		ug/L	218960	1	01/26/2016 17:51	NP
Chloromethane	BRL	10		ug/L	218960	1	01/26/2016 17:51	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
Cyclohexane	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
Dibromochloromethane	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
Dichlorodifluoromethane	BRL	10		ug/L	218960	1	01/26/2016 17:51	NP
Ethylbenzene	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
Freon-113	BRL	10		ug/L	218960	1	01/26/2016 17:51	NP
Isopropylbenzene	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
m,p-Xylene	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
Methyl acetate	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
Methylcyclohexane	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
Methylene chloride	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
o-Xylene	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> IDW-PURGE WATER
<b>Project Name:</b> Cessna	<b>Collection Date:</b> 1/20/2016 5:40:00 PM
<b>Lab ID:</b> 1601F43-012	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
Tetrachloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
Toluene	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
Trichloroethene	17	5.0		ug/L	218960	1	01/26/2016 17:51	NP
Trichlorofluoromethane	BRL	5.0		ug/L	218960	1	01/26/2016 17:51	NP
Vinyl chloride	BRL	2.0		ug/L	218960	1	01/26/2016 17:51	NP
Surr: 4-Bromofluorobenzene	82.8	70.7-125		%REC	218960	1	01/26/2016 17:51	NP
Surr: Dibromofluoromethane	114	82.2-120		%REC	218960	1	01/26/2016 17:51	NP
Surr: Toluene-d8	104	81.8-120		%REC	218960	1	01/26/2016 17:51	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> IDW-SOIL-7A
<b>Project Name:</b> Cessna	<b>Collection Date:</b> 1/20/2016 5:30:00 PM
<b>Lab ID:</b> 1601F43-013	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>VOLATILES, TCLP SW1311/8260B</b>					<b>(SW5030B)</b>			
1,1-Dichloroethene	BRL	0.10		mg/L	218912	20	01/25/2016 18:02	NH
1,2-Dichloroethane	BRL	0.10		mg/L	218912	20	01/25/2016 18:02	NH
2-Butanone	BRL	0.20		mg/L	218912	20	01/25/2016 18:02	NH
Benzene	BRL	0.10		mg/L	218912	20	01/25/2016 18:02	NH
Carbon tetrachloride	BRL	0.10		mg/L	218912	20	01/25/2016 18:02	NH
Chlorobenzene	BRL	0.10		mg/L	218912	20	01/25/2016 18:02	NH
Chloroform	BRL	0.10		mg/L	218912	20	01/25/2016 18:02	NH
Tetrachloroethene	BRL	0.10		mg/L	218912	20	01/25/2016 18:02	NH
Trichloroethene	BRL	0.10		mg/L	218912	20	01/25/2016 18:02	NH
Vinyl chloride	BRL	0.040		mg/L	218912	20	01/25/2016 18:02	NH
Surr: 4-Bromofluorobenzene	107	64-125		%REC	218912	20	01/25/2016 18:02	NH
Surr: Dibromofluoromethane	110	73.7-128		%REC	218912	20	01/25/2016 18:02	NH
Surr: Toluene-d8	101	78.9-120		%REC	218912	20	01/25/2016 18:02	NH

**Qualifiers:**

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- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> IDW-SOIL5A6A
<b>Project Name:</b> Cessna	<b>Collection Date:</b> 1/20/2016 5:25:00 PM
<b>Lab ID:</b> 1601F43-014	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>VOLATILES, TCLP SW1311/8260B</b>					<b>(SW5030B)</b>			
1,1-Dichloroethene	BRL	0.10		mg/L	218912	20	01/25/2016 21:23	NH
1,2-Dichloroethane	BRL	0.10		mg/L	218912	20	01/25/2016 21:23	NH
2-Butanone	BRL	0.20		mg/L	218912	20	01/25/2016 21:23	NH
Benzene	BRL	0.10		mg/L	218912	20	01/25/2016 21:23	NH
Carbon tetrachloride	BRL	0.10		mg/L	218912	20	01/25/2016 21:23	NH
Chlorobenzene	BRL	0.10		mg/L	218912	20	01/25/2016 21:23	NH
Chloroform	BRL	0.10		mg/L	218912	20	01/25/2016 21:23	NH
Tetrachloroethene	BRL	0.10		mg/L	218912	20	01/25/2016 21:23	NH
Trichloroethene	BRL	0.10		mg/L	218912	20	01/25/2016 21:23	NH
Vinyl chloride	BRL	0.040		mg/L	218912	20	01/25/2016 21:23	NH
Surr: 4-Bromofluorobenzene	107	64-125		%REC	218912	20	01/25/2016 21:23	NH
Surr: Dibromofluoromethane	97.6	73.7-128		%REC	218912	20	01/25/2016 21:23	NH
Surr: Toluene-d8	98.2	78.9-120		%REC	218912	20	01/25/2016 21:23	NH

**Qualifiers:**

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- S Spike Recovery outside limits due to matrix
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- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> IDW-SOIL-3C
<b>Project Name:</b> Cessna	<b>Collection Date:</b> 1/20/2016 5:35:00 PM
<b>Lab ID:</b> 1601F43-015	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>VOLATILES, TCLP SW1311/8260B</b>					<b>(SW5030B)</b>			
1,1-Dichloroethene	BRL	0.10		mg/L	219023	20	01/27/2016 15:19	CG
1,2-Dichloroethane	BRL	0.10		mg/L	219023	20	01/27/2016 15:19	CG
2-Butanone	BRL	0.20		mg/L	219023	20	01/27/2016 15:19	CG
Benzene	BRL	0.10		mg/L	219023	20	01/27/2016 15:19	CG
Carbon tetrachloride	BRL	0.10		mg/L	219023	20	01/27/2016 15:19	CG
Chlorobenzene	BRL	0.10		mg/L	219023	20	01/27/2016 15:19	CG
Chloroform	BRL	0.10		mg/L	219023	20	01/27/2016 15:19	CG
Tetrachloroethene	BRL	0.10		mg/L	219023	20	01/27/2016 15:19	CG
Trichloroethene	BRL	0.10		mg/L	219023	20	01/27/2016 15:19	CG
Vinyl chloride	BRL	0.040		mg/L	219023	20	01/27/2016 15:19	CG
Surr: 4-Bromofluorobenzene	92.4	64-125		%REC	219023	20	01/27/2016 15:19	CG
Surr: Dibromofluoromethane	105	73.7-128		%REC	219023	20	01/27/2016 15:19	CG
Surr: Toluene-d8	87.3	78.9-120		%REC	219023	20	01/27/2016 15:19	CG

**Qualifiers:**

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- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> TRIP BLANK
<b>Project Name:</b> Cessna	<b>Collection Date:</b> 1/21/2016
<b>Lab ID:</b> 1601F43-016	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
1,1-Dichloroethane	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
1,1-Dichloroethene	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
1,2-Dibromoethane	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
1,2-Dichloroethane	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
1,2-Dichloropropane	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
2-Butanone	BRL	50		ug/L	218960	1	01/25/2016 23:05	CH
2-Hexanone	BRL	10		ug/L	218960	1	01/25/2016 23:05	CH
4-Methyl-2-pentanone	BRL	10		ug/L	218960	1	01/25/2016 23:05	CH
Acetone	BRL	50		ug/L	218960	1	01/25/2016 23:05	CH
Benzene	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
Bromodichloromethane	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
Bromoform	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
Bromomethane	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
Carbon disulfide	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
Carbon tetrachloride	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
Chlorobenzene	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
Chloroethane	BRL	10		ug/L	218960	1	01/25/2016 23:05	CH
Chloroform	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
Chloromethane	BRL	10		ug/L	218960	1	01/25/2016 23:05	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
Cyclohexane	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
Dibromochloromethane	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
Dichlorodifluoromethane	BRL	10		ug/L	218960	1	01/25/2016 23:05	CH
Ethylbenzene	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
Freon-113	BRL	10		ug/L	218960	1	01/25/2016 23:05	CH
Isopropylbenzene	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
m,p-Xylene	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
Methyl acetate	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
Methylcyclohexane	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
Methylene chloride	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
o-Xylene	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH

**Qualifiers:**

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- S Spike Recovery outside limits due to matrix
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- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> TRIP BLANK
<b>Project Name:</b> Cessna	<b>Collection Date:</b> 1/21/2016
<b>Lab ID:</b> 1601F43-016	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5030B)</b>				
Styrene	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
Tetrachloroethene	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
Toluene	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
Trichloroethene	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
Trichlorofluoromethane	BRL	5.0		ug/L	218960	1	01/25/2016 23:05	CH
Vinyl chloride	BRL	2.0		ug/L	218960	1	01/25/2016 23:05	CH
Surr: 4-Bromofluorobenzene	82.1	70.7-125		%REC	218960	1	01/25/2016 23:05	CH
Surr: Dibromofluoromethane	110	82.2-120		%REC	218960	1	01/25/2016 23:05	CH
Surr: Toluene-d8	103	81.8-120		%REC	218960	1	01/25/2016 23:05	CH

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- NC Not confirmed
- < Less than Result value
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<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> DUP-1
<b>Project Name:</b> Cessna	<b>Collection Date:</b> 1/19/2016 8:00:00 AM
<b>Lab ID:</b> 1601F43-017	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
1,1-Dichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
1,1-Dichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
1,2-Dibromoethane	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
1,2-Dichloroethane	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
1,2-Dichloropropane	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
2-Butanone	110	50		ug/L	218960	1	01/26/2016 06:18	CH
2-Hexanone	BRL	10		ug/L	218960	1	01/26/2016 06:18	CH
4-Methyl-2-pentanone	BRL	10		ug/L	218960	1	01/26/2016 06:18	CH
Acetone	BRL	50		ug/L	218960	1	01/26/2016 06:18	CH
Benzene	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
Bromodichloromethane	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
Bromoform	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
Bromomethane	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
Carbon disulfide	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
Carbon tetrachloride	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
Chlorobenzene	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
Chloroethane	BRL	10		ug/L	218960	1	01/26/2016 06:18	CH
Chloroform	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
Chloromethane	BRL	10		ug/L	218960	1	01/26/2016 06:18	CH
cis-1,2-Dichloroethene	34	5.0		ug/L	218960	1	01/26/2016 06:18	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
Cyclohexane	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
Dibromochloromethane	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
Dichlorodifluoromethane	BRL	10		ug/L	218960	1	01/26/2016 06:18	CH
Ethylbenzene	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
Freon-113	BRL	10		ug/L	218960	1	01/26/2016 06:18	CH
Isopropylbenzene	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
m,p-Xylene	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
Methyl acetate	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
Methylcyclohexane	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
Methylene chloride	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
o-Xylene	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH

**Qualifiers:**

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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> DUP-1
<b>Project Name:</b> Cessna	<b>Collection Date:</b> 1/19/2016 8:00:00 AM
<b>Lab ID:</b> 1601F43-017	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Styrene	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
Tetrachloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
Toluene	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
Trichloroethene	120	5.0		ug/L	218960	1	01/26/2016 06:18	CH
Trichlorofluoromethane	BRL	5.0		ug/L	218960	1	01/26/2016 06:18	CH
Vinyl chloride	BRL	2.0		ug/L	218960	1	01/26/2016 06:18	CH
Surr: 4-Bromofluorobenzene	81.8	70.7-125		%REC	218960	1	01/26/2016 06:18	CH
Surr: Dibromofluoromethane	118	82.2-120		%REC	218960	1	01/26/2016 06:18	CH
Surr: Toluene-d8	103	81.8-120		%REC	218960	1	01/26/2016 06:18	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client CDM Smith

Work Order Number 1601P43

Checklist completed by [Signature] Date 1/21/14

Carrier name: FedEx  UPS  Courier  Client  US Mail  Other

Shipping container/cooler in good condition? Yes  No  Not Present

Custody seals intact on shipping container/cooler? Yes  No  Not Present

Custody seals intact on sample bottles? Yes  No  Not Present

Container/Temp Blank temperature in compliance? (0°≤6°C)\* Yes  No

Cooler #1 0-1°C Cooler #2 \_\_\_\_\_ Cooler #3 \_\_\_\_\_ Cooler #4 \_\_\_\_\_ Cooler#5 \_\_\_\_\_ Cooler #6 \_\_\_\_\_

Chain of custody present? Yes  No

Chain of custody signed when relinquished and received? Yes  No

Chain of custody agrees with sample labels? Yes  No

Samples in proper container/bottle? Yes  No

Sample containers intact? Yes  No

Sufficient sample volume for indicated test? Yes  No

All samples received within holding time? Yes  No

Was TAT marked on the COC? Yes  No

Proceed with Standard TAT as per project history? Yes  No  Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No

Water - pH acceptable upon receipt? Yes  No  Not Applicable

Adjusted? \_\_\_\_\_ Checked by [Signature]

Sample Condition: Good  Other(Explain) \_\_\_\_\_

(For diffusive samples or AIHA lead) Is a known blank included? Yes  No

See Case Narrative for resolution of the Non-Conformance.

\* Samples do not have to comply with the given range for certain parameters.

Client: CDM Smith Inc.  
 Project Name: Cessna  
 Lab Order: 1601F43

## Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1601F43-001A	MW-6A	1/19/2016 11:43:00AM	Groundwater	TCL VOLATILE ORGANICS		1/25/2016 9:46:00 PM	01/26/2016
1601F43-002A	MW-7A	1/19/2016 11:54:00AM	Groundwater	TCL VOLATILE ORGANICS		1/25/2016 9:46:00 PM	01/26/2016
1601F43-003A	MW-5A	1/19/2016 12:56:00PM	Groundwater	TCL VOLATILE ORGANICS		1/25/2016 9:46:00 PM	01/26/2016
1601F43-004A	MW-1A	1/19/2016 2:57:00PM	Groundwater	TCL VOLATILE ORGANICS		1/25/2016 9:46:00 PM	01/26/2016
1601F43-005A	GW-8	1/19/2016 4:28:00PM	Groundwater	TCL VOLATILE ORGANICS		1/25/2016 9:46:00 PM	01/28/2016
1601F43-006A	MW-2A	1/19/2016 5:04:00PM	Groundwater	TCL VOLATILE ORGANICS		1/25/2016 9:46:00 PM	01/26/2016
1601F43-007A	MW-4B	1/20/2016 2:31:00PM	Groundwater	TCL VOLATILE ORGANICS		1/25/2016 9:46:00 PM	01/26/2016
1601F43-008A	MW-3C	1/20/2016 12:48:00PM	Groundwater	TCL VOLATILE ORGANICS		1/25/2016 9:46:00 PM	01/26/2016
1601F43-009A	MW-4A	1/20/2016 3:07:00PM	Groundwater	TCL VOLATILE ORGANICS		1/25/2016 9:46:00 PM	01/26/2016
1601F43-010A	MW-3B	1/20/2016 3:52:00PM	Groundwater	TCL VOLATILE ORGANICS		1/25/2016 9:46:00 PM	01/26/2016
1601F43-011A	MW-3A	1/20/2016 6:24:00PM	Groundwater	TCL VOLATILE ORGANICS		1/25/2016 9:46:00 PM	01/26/2016
1601F43-011A	MW-3A	1/20/2016 6:24:00PM	Groundwater	TCL VOLATILE ORGANICS		1/25/2016 9:46:00 PM	01/27/2016
1601F43-011B	MW-3A	1/20/2016 6:24:00PM	Groundwater	Total Organic Carbon (TOC)			01/27/2016
1601F43-011C	MW-3A	1/20/2016 6:24:00PM	Groundwater	Alkalinity by SM2320B			01/27/2016
1601F43-011D	MW-3A	1/20/2016 6:24:00PM	Groundwater	ION SCAN			01/21/2016
1601F43-011E	MW-3A	1/20/2016 6:24:00PM	Groundwater	TOTAL METALS BY ICP		1/25/2016 11:59:00 AM	01/26/2016
1601F43-011E	MW-3A	1/20/2016 6:24:00PM	Groundwater	Hardness		1/25/2016 11:59:00 AM	01/26/2016
1601F43-011F	MW-3A	1/20/2016 6:24:00PM	Groundwater	Ferrous Iron			01/21/2016
1601F43-011G	MW-3A	1/20/2016 6:24:00PM	Groundwater	Dissolved Oxygen by SM4500-O-G			01/26/2016
1601F43-011G	MW-3A	1/20/2016 6:24:00PM	Groundwater	Hydrogen Ion (pH) by SM4500 H+ B			01/26/2016
1601F43-011H	MW-3A	1/20/2016 6:24:00PM	Groundwater	Oxidation/Reduction Potential			11/25/2016
1601F43-011I	MW-3A	1/20/2016 6:24:00PM	Groundwater	Oxidation/Reduction Potential			11/25/2016
1601F43-011J	MW-3A	1/20/2016 6:24:00PM	Groundwater	Oxidation/Reduction Potential			11/25/2016
1601F43-012A	IDW-PURGE WATER	1/20/2016 5:40:00PM	Groundwater	TCL VOLATILE ORGANICS		1/25/2016 9:46:00 PM	01/26/2016
1601F43-013A	IDW-SOIL-7A	1/20/2016 5:30:00PM	Soil	VOLATILES, TCLP Leached	01/22/2016	1/25/2016 10:25:00 AM	01/25/2016
1601F43-014A	IDW-SOIL5A6A	1/20/2016 5:25:00PM	Soil	VOLATILES, TCLP Leached	01/22/2016	1/25/2016 10:25:00 AM	01/25/2016
1601F43-015A	IDW-SOIL-3C	1/20/2016 5:35:00PM	Soil	VOLATILES, TCLP Leached	01/22/2016	1/25/2016 10:25:00 AM	01/27/2016
1601F43-016A	TRIP BLANK	1/21/2016 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		1/25/2016 9:46:00 PM	01/25/2016
1601F43-017A	DUP-1	1/19/2016 8:00:00AM	Groundwater	TCL VOLATILE ORGANICS		1/25/2016 9:46:00 PM	01/26/2016

**Client:** CDM Smith Inc.  
**Project Name:** Cessna  
**Lab Order:** 1601F43

**Dates Report**

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Collection Date</b>	<b>Matrix</b>	<b>Test Name</b>	<b>TCLP Date</b>	<b>Prep Date</b>	<b>Analysis Date</b>
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**Client:** CDM Smith Inc.  
**Project Name:** Cessna  
**Workorder:** 1601F43

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 218869**

Sample ID: <b>MB-218869</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>01/25/2016</b>	Run No: <b>309106</b>							
SampleType: <b>MBLK</b>	TestCode: <b>METALS, TOTAL SW6010C</b>	BatchID: <b>218869</b>	Analysis Date: <b>01/26/2016</b>	Seq No: <b>6635636</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Calcium	BRL	0.100									
Iron	BRL	0.100									
Manganese	BRL	0.0150									

Sample ID: <b>LCS-218869</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>01/25/2016</b>	Run No: <b>309106</b>							
SampleType: <b>LCS</b>	TestCode: <b>METALS, TOTAL SW6010C</b>	BatchID: <b>218869</b>	Analysis Date: <b>01/26/2016</b>	Seq No: <b>6635637</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Calcium	10.24	0.100	10.00		102	80	120				
Iron	10.14	0.100	10.00		101	80	120				
Manganese	1.067	0.0150	1.000		107	80	120				

Sample ID: <b>1601F02-001CMS</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>01/25/2016</b>	Run No: <b>309106</b>							
SampleType: <b>MS</b>	TestCode: <b>METALS, TOTAL SW6010C</b>	BatchID: <b>218869</b>	Analysis Date: <b>01/26/2016</b>	Seq No: <b>6635639</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Calcium	11.15	0.100	10.00	1.599	95.5	75	125				
Iron	9.846	0.100	10.00		98.5	75	125				
Manganese	2.287	0.0150	1.000	1.419	86.8	75	125				

Sample ID: <b>1601F02-001CMSD</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>01/25/2016</b>	Run No: <b>309106</b>							
SampleType: <b>MSD</b>	TestCode: <b>METALS, TOTAL SW6010C</b>	BatchID: <b>218869</b>	Analysis Date: <b>01/26/2016</b>	Seq No: <b>6635640</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Calcium	11.50	0.100	10.00	1.599	99.0	75	125	11.15	3.10	20	
Iron	10.13	0.100	10.00		101	75	125	9.846	2.89	20	
Manganese	2.325	0.0150	1.000	1.419	90.5	75	125	2.287	1.62	20	

**Qualifiers:**

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



Client: CDM Smith Inc.  
 Project Name: Cessna  
 Workorder: 1601F43

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 218912

Sample ID: <b>MB-218912</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>01/25/2016</b>	Run No: <b>308973</b>							
SampleType: <b>MBLK</b>	TestCode: <b>VOLATILES, TCLP SW1311/8260B</b>	BatchID: <b>218912</b>	Analysis Date: <b>01/25/2016</b>	Seq No: <b>6632299</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	0.10									
1,2-Dichloroethane	BRL	0.10									
2-Butanone	BRL	0.20									
Benzene	BRL	0.10									
Carbon tetrachloride	BRL	0.10									
Chlorobenzene	BRL	0.10									
Chloroform	BRL	0.10									
Tetrachloroethene	BRL	0.10									
Trichloroethene	BRL	0.10									
Vinyl chloride	BRL	0.040									
Surr: 4-Bromofluorobenzene	1.080	0	1.000		108	64	125				
Surr: Dibromofluoromethane	0.9826	0	1.000		98.3	73.7	128				
Surr: Toluene-d8	0.9008	0	1.000		90.1	78.9	120				

Sample ID: <b>LCS-218912</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>01/25/2016</b>	Run No: <b>308973</b>							
SampleType: <b>LCS</b>	TestCode: <b>VOLATILES, TCLP SW1311/8260B</b>	BatchID: <b>218912</b>	Analysis Date: <b>01/25/2016</b>	Seq No: <b>6632298</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	1.038	0.10	1.000		104	58	134				
1,2-Dichloroethane	1.045	0.10	1.000		104	65	133				
2-Butanone	2.515	0.20	2.000		126	47.2	141				
Benzene	0.8438	0.10	1.000		84.4	74.1	126				
Carbon tetrachloride	1.106	0.10	1.000		111	68.7	145				
Chlorobenzene	0.9058	0.10	1.000		90.6	77.6	124				
Chloroform	1.087	0.10	1.000	0.04380	104	66.9	123				
Tetrachloroethene	0.9968	0.10	1.000		99.7	72.7	134				
Trichloroethene	0.9056	0.10	1.000		90.6	77.1	129				
Vinyl chloride	0.8544	0.040	1.000		85.4	54.3	136				

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: CDM Smith Inc.  
 Project Name: Cessna  
 Workorder: 1601F43

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 218912

Sample ID: <b>LCS-218912</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>01/25/2016</b>	Run No: <b>308973</b>							
SampleType: <b>LCS</b>	TestCode: <b>VOLATILES, TCLP SW1311/8260B</b>	BatchID: <b>218912</b>	Analysis Date: <b>01/25/2016</b>	Seq No: <b>6632298</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: 4-Bromofluorobenzene	1.068	0	1.000		107	64	125				
Surr: Dibromofluoromethane	1.007	0	1.000		101	73.7	128				
Surr: Toluene-d8	0.9854	0	1.000		98.5	78.9	120				

Sample ID: <b>1601F43-013AMS</b>	Client ID: <b>IDW-SOIL-7A</b>	Units: <b>mg/L</b>	Prep Date: <b>01/25/2016</b>	Run No: <b>308973</b>							
SampleType: <b>MS</b>	TestCode: <b>VOLATILES, TCLP SW1311/8260B</b>	BatchID: <b>218912</b>	Analysis Date: <b>01/25/2016</b>	Seq No: <b>6633374</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	1.333	0.10	1.000		133	62.5	139				
1,2-Dichloroethane	1.293	0.10	1.000		129	65.4	135				
2-Butanone	1.550	0.20	2.000		77.5	50.4	144				
Benzene	1.107	0.10	1.000		111	71.3	134				
Carbon tetrachloride	1.723	0.10	1.000		172	70.7	143				S
Chlorobenzene	0.9840	0.10	1.000		98.4	74.5	129				
Chloroform	1.271	0.10	1.000	0.07040	120	64.4	131				
Tetrachloroethene	1.181	0.10	1.000		118	75.1	136				
Trichloroethene	1.132	0.10	1.000		113	75.3	137				
Vinyl chloride	1.366	0.040	1.000		137	50.1	143				
Surr: 4-Bromofluorobenzene	1.165	0	1.000		117	64	125				
Surr: Dibromofluoromethane	1.107	0	1.000		111	73.7	128				
Surr: Toluene-d8	1.015	0	1.000		102	78.9	120				

Sample ID: <b>1601F43-013ADUP</b>	Client ID: <b>IDW-SOIL-7A</b>	Units: <b>mg/L</b>	Prep Date: <b>01/25/2016</b>	Run No: <b>308973</b>							
SampleType: <b>DUP</b>	TestCode: <b>VOLATILES, TCLP SW1311/8260B</b>	BatchID: <b>218912</b>	Analysis Date: <b>01/25/2016</b>	Seq No: <b>6633375</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	0.10						0	0	30	
1,2-Dichloroethane	BRL	0.10						0	0	30	

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: CDM Smith Inc.  
 Project Name: Cessna  
 Workorder: 1601F43

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 218912

Sample ID: 1601F43-013ADUP Client ID: IDW-SOIL-7A Units: mg/L Prep Date: 01/25/2016 Run No: 308973  
 SampleType: DUP TestCode: VOLATILES, TCLP SW1311/8260B BatchID: 218912 Analysis Date: 01/25/2016 Seq No: 6633375

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2-Butanone	BRL	0.20						0	0	30	
Benzene	BRL	0.10						0	0	30	
Carbon tetrachloride	BRL	0.10						0	0	30	
Chlorobenzene	BRL	0.10						0	0	30	
Chloroform	BRL	0.10						0.07040	0	30	
Tetrachloroethene	BRL	0.10						0	0	30	
Trichloroethene	BRL	0.10						0	0	30	
Vinyl chloride	BRL	0.040						0	0	30	
Surr: 4-Bromofluorobenzene	1.097	0	1.000		110	64	125	1.075	0	0	
Surr: Dibromofluoromethane	1.132	0	1.000		113	73.7	128	1.096	0	0	
Surr: Toluene-d8	1.001	0	1.000		100	78.9	120	1.008	0	0	

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

**Client:** CDM Smith Inc.  
**Project Name:** Cessna  
**Workorder:** 1601F43

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 218960**

Sample ID: <b>MB-218960</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>01/25/2016</b>	Run No: <b>308999</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>218960</b>	Analysis Date: <b>01/25/2016</b>	Seq No: <b>6634324</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** CDM Smith Inc.  
**Project Name:** Cessna  
**Workorder:** 1601F43

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 218960**

Sample ID: <b>MB-218960</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>01/25/2016</b>	Run No: <b>308999</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>218960</b>	Analysis Date: <b>01/25/2016</b>	Seq No: <b>6634324</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	39.94	0	50.00		79.9	70.7	125				
Surr: Dibromofluoromethane	54.20	0	50.00		108	82.2	120				
Surr: Toluene-d8	51.58	0	50.00		103	81.8	120				

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: CDM Smith Inc.  
 Project Name: Cessna  
 Workorder: 1601F43

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 218960

Sample ID: <b>LCS-218960</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>01/25/2016</b>	Run No: <b>308999</b>							
SampleType: <b>LCS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>218960</b>	Analysis Date: <b>01/25/2016</b>	Seq No: <b>6634323</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	63.45	5.0	50.00		127	65.3	137				
Benzene	60.54	5.0	50.00		121	74.9	123				
Chlorobenzene	55.85	5.0	50.00		112	73.9	124				
Toluene	53.57	5.0	50.00		107	75	124				
Trichloroethene	56.13	5.0	50.00		112	73.1	128				
Surr: 4-Bromofluorobenzene	41.12	0	50.00		82.2	70.7	125				
Surr: Dibromofluoromethane	55.46	0	50.00		111	82.2	120				
Surr: Toluene-d8	48.29	0	50.00		96.6	81.8	120				

Sample ID: <b>1601F43-004AMS</b>	Client ID: <b>MW-1A</b>	Units: <b>ug/L</b>	Prep Date: <b>01/25/2016</b>	Run No: <b>308999</b>							
SampleType: <b>MS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>218960</b>	Analysis Date: <b>01/26/2016</b>	Seq No: <b>6634330</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	63.40	5.0	50.00		127	60	150				
Benzene	57.90	5.0	50.00		116	70.1	132				
Chlorobenzene	53.18	5.0	50.00		106	70.9	131				
Toluene	52.99	5.0	50.00		106	70.1	133				
Trichloroethene	57.64	5.0	50.00		115	70	136				
Surr: 4-Bromofluorobenzene	39.24	0	50.00		78.5	70.7	125				
Surr: Dibromofluoromethane	51.98	0	50.00		104	82.2	120				
Surr: Toluene-d8	50.29	0	50.00		101	81.8	120				

Sample ID: <b>1601F43-004AMSD</b>	Client ID: <b>MW-1A</b>	Units: <b>ug/L</b>	Prep Date: <b>01/25/2016</b>	Run No: <b>308999</b>							
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>218960</b>	Analysis Date: <b>01/26/2016</b>	Seq No: <b>6634331</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	55.50	5.0	50.00		111	60	150	63.40	13.3	17.7	
Benzene	58.74	5.0	50.00		117	70.1	132	57.90	1.44	20	

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: CDM Smith Inc.  
 Project Name: Cessna  
 Workorder: 1601F43

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 218960

Sample ID: 1601F43-004AMSD	Client ID: MW-1A	Units: ug/L	Prep Date: 01/25/2016	Run No: 308999
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 218960	Analysis Date: 01/26/2016	Seq No: 6634331

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	52.93	5.0	50.00		106	70.9	131	53.18	0.471	20	
Toluene	53.85	5.0	50.00		108	70.1	133	52.99	1.61	20	
Trichloroethene	52.99	5.0	50.00		106	70	136	57.64	8.41	20	
Surr: 4-Bromofluorobenzene	41.65	0	50.00		83.3	70.7	125	39.24	0	0	
Surr: Dibromofluoromethane	51.84	0	50.00		104	82.2	120	51.98	0	0	
Surr: Toluene-d8	51.42	0	50.00		103	81.8	120	50.29	0	0	

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: CDM Smith Inc.  
 Project Name: Cessna  
 Workorder: 1601F43

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 219023

Sample ID: <b>MB-219023</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>01/27/2016</b>	Run No: <b>309116</b>							
SampleType: <b>MBLK</b>	TestCode: <b>VOLATILES, TCLP SW1311/8260B</b>	BatchID: <b>219023</b>	Analysis Date: <b>01/27/2016</b>	Seq No: <b>6636516</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	0.10									
1,2-Dichloroethane	BRL	0.10									
2-Butanone	BRL	0.20									
Benzene	BRL	0.10									
Carbon tetrachloride	BRL	0.10									
Chlorobenzene	BRL	0.10									
Chloroform	BRL	0.10									
Tetrachloroethene	BRL	0.10									
Trichloroethene	BRL	0.10									
Vinyl chloride	BRL	0.040									
Surr: 4-Bromofluorobenzene	0.9424	0	1.000		94.2	64	125				
Surr: Dibromofluoromethane	1.011	0	1.000		101	73.7	128				
Surr: Toluene-d8	0.9834	0	1.000		98.3	78.9	120				

Sample ID: <b>LCS-219023</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>01/27/2016</b>	Run No: <b>309116</b>							
SampleType: <b>LCS</b>	TestCode: <b>VOLATILES, TCLP SW1311/8260B</b>	BatchID: <b>219023</b>	Analysis Date: <b>01/27/2016</b>	Seq No: <b>6636515</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	0.8510	0.10	1.000		85.1	58	134				
1,2-Dichloroethane	0.9334	0.10	1.000		93.3	65	133				
2-Butanone	2.193	0.20	2.000		110	47.2	141				
Benzene	0.8580	0.10	1.000		85.8	74.1	126				
Carbon tetrachloride	0.9516	0.10	1.000		95.2	68.7	145				
Chlorobenzene	0.9730	0.10	1.000		97.3	77.6	124				
Chloroform	0.8528	0.10	1.000		85.3	66.9	123				
Tetrachloroethene	0.9462	0.10	1.000		94.6	72.7	134				
Trichloroethene	0.8790	0.10	1.000		87.9	77.1	129				
Vinyl chloride	1.188	0.040	1.000		119	54.3	136				

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



Client: CDM Smith Inc.  
 Project Name: Cessna  
 Workorder: 1601F43

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 219023

Sample ID: <b>LCS-219023</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>01/27/2016</b>	Run No: <b>309116</b>							
SampleType: <b>LCS</b>	TestCode: <b>VOLATILES, TCLP SW1311/8260B</b>	BatchID: <b>219023</b>	Analysis Date: <b>01/27/2016</b>	Seq No: <b>6636515</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: 4-Bromofluorobenzene	1.012	0	1.000		101	64	125				
Surr: Dibromofluoromethane	1.009	0	1.000		101	73.7	128				
Surr: Toluene-d8	0.9292	0	1.000		92.9	78.9	120				

Sample ID: <b>1601H85-001AMS</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>01/27/2016</b>	Run No: <b>309116</b>							
SampleType: <b>MS</b>	TestCode: <b>VOLATILES, TCLP SW1311/8260B</b>	BatchID: <b>219023</b>	Analysis Date: <b>01/27/2016</b>	Seq No: <b>6636995</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	0.9498	0.10	1.000		95.0	62.5	139				
1,2-Dichloroethane	1.029	0.10	1.000		103	65.4	135				
2-Butanone	2.104	0.20	2.000		105	50.4	144				
Benzene	0.9454	0.10	1.000		94.5	71.3	134				
Carbon tetrachloride	1.142	0.10	1.000		114	70.7	143				
Chlorobenzene	1.042	0.10	1.000		104	74.5	129				
Chloroform	1.147	0.10	1.000	0.3458	80.1	64.4	131				
Tetrachloroethene	1.229	0.10	1.000		123	75.1	136				
Trichloroethene	2.009	0.10	1.000		201	75.3	137				S
Vinyl chloride	0.8372	0.040	1.000		83.7	50.1	143				
Surr: 4-Bromofluorobenzene	1.030	0	1.000		103	64	125				
Surr: Dibromofluoromethane	0.9496	0	1.000		95.0	73.7	128				
Surr: Toluene-d8	0.9232	0	1.000		92.3	78.9	120				

Sample ID: <b>1601H85-001ADUP</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>01/27/2016</b>	Run No: <b>309116</b>							
SampleType: <b>DUP</b>	TestCode: <b>VOLATILES, TCLP SW1311/8260B</b>	BatchID: <b>219023</b>	Analysis Date: <b>01/27/2016</b>	Seq No: <b>6636994</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	0.10						0	0	30	
1,2-Dichloroethane	BRL	0.10						0	0	30	

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: CDM Smith Inc.  
 Project Name: Cessna  
 Workorder: 1601F43

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 219023

Sample ID: <b>1601H85-001ADUP</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>01/27/2016</b>	Run No: <b>309116</b>							
SampleType: <b>DUP</b>	TestCode: <b>VOLATILES, TCLP SW1311/8260B</b>	BatchID: <b>219023</b>	Analysis Date: <b>01/27/2016</b>	Seq No: <b>6636994</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	BRL	0.20						0	0	30	
Benzene	BRL	0.10						0	0	30	
Carbon tetrachloride	BRL	0.10						0	0	30	
Chlorobenzene	BRL	0.10						0	0	30	
Chloroform	0.2716	0.10						0.3458	24.0	30	
Tetrachloroethene	BRL	0.10						0	0	30	
Trichloroethene	BRL	0.10						0	0	30	
Vinyl chloride	BRL	0.040						0	0	30	
Surr: 4-Bromofluorobenzene	1.057	0	1.000		106	64	125	1.095	0	0	
Surr: Dibromofluoromethane	0.9180	0	1.000		91.8	73.7	128	1.038	0	0	
Surr: Toluene-d8	0.9080	0	1.000		90.8	78.9	120	1.033	0	0	

**Qualifiers:**

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** CDM Smith Inc.  
**Project Name:** Cessna  
**Workorder:** 1601F43

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: R308930**

Sample ID: <b>MB-R308930</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>308930</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Ferrous Iron SM3500-Fe-B</b>	BatchID: <b>R308930</b>	Analysis Date: <b>01/21/2016</b>	Seq No: <b>6631294</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Iron, as Ferrous (Fe+2)

BRL 0.100

Sample ID: <b>LCS-R308930</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>308930</b>							
SampleType: <b>LCS</b>	TestCode: <b>Ferrous Iron SM3500-Fe-B</b>	BatchID: <b>R308930</b>	Analysis Date: <b>01/21/2016</b>	Seq No: <b>6631295</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Iron, as Ferrous (Fe+2)

0.4644 0.100 0.5000 92.9 85 115

Sample ID: <b>1601F43-011FMS</b>	Client ID: <b>MW-3A</b>	Units: <b>mg/L</b>	Prep Date:	Run No: <b>308930</b>							
SampleType: <b>MS</b>	TestCode: <b>Ferrous Iron SM3500-Fe-B</b>	BatchID: <b>R308930</b>	Analysis Date: <b>01/21/2016</b>	Seq No: <b>6631297</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Iron, as Ferrous (Fe+2)

0.4784 0.100 0.5000 95.7 80 120

Sample ID: <b>1601F43-011FMSD</b>	Client ID: <b>MW-3A</b>	Units: <b>mg/L</b>	Prep Date:	Run No: <b>308930</b>							
SampleType: <b>MSD</b>	TestCode: <b>Ferrous Iron SM3500-Fe-B</b>	BatchID: <b>R308930</b>	Analysis Date: <b>01/21/2016</b>	Seq No: <b>6631298</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Iron, as Ferrous (Fe+2)

0.4970 0.100 0.5000 99.4 80 120 0.4784 3.81 30

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: CDM Smith Inc.  
 Project Name: Cessna  
 Workorder: 1601F43

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: R308935**

Sample ID: <b>LCS-R308935</b>	Client ID:	Units: <b>mV</b>	Prep Date:	Run No: <b>308935</b>							
SampleType: <b>LCS</b>	TestCode: <b>Oxidation/Reduction Potential in Water by SM2580</b>	BatchID: <b>R308935</b>	Analysis Date: <b>11/25/2016</b>	Seq No: <b>6631490</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Oxidation-Reduction Potential	262.8	1.0	240.0		110	80	120				
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**Qualifiers:**

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

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Client: CDM Smith Inc.  
 Project Name: Cessna  
 Workorder: 1601F43

**ANALYTICAL QC SUMMARY REPORT**

BatchID: R309011

Sample ID: <b>MB-R309011</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>309011</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Dissolved Oxygen by SM4500-O-G</b>	BatchID: <b>R309011</b>	Analysis Date: <b>01/26/2016</b>	Seq No: <b>6633545</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Oxygen, Dissolved

BRL 1.00

Sample ID: <b>1601F43-011GDUP</b>	Client ID: <b>MW-3A</b>	Units: <b>mg/L</b>	Prep Date:	Run No: <b>309011</b>							
SampleType: <b>DUP</b>	TestCode: <b>Dissolved Oxygen by SM4500-O-G</b>	BatchID: <b>R309011</b>	Analysis Date: <b>01/26/2016</b>	Seq No: <b>6633556</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Oxygen, Dissolved

7.600 1.00 7.620 0.263 20 H

<b>Qualifiers:</b>	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: CDM Smith Inc.  
 Project Name: Cessna  
 Workorder: 1601F43

**ANALYTICAL QC SUMMARY REPORT**

BatchID: R309023

Sample ID: <b>LCS-R309023</b>	Client ID:	Units: <b>pH Units</b>	Prep Date:	Run No: <b>309023</b>							
SampleType: <b>LCS</b>	TestCode: <b>Hydrogen Ion (pH) by SM4500 H+ B</b>	BatchID: <b>R309023</b>	Analysis Date: <b>01/26/2016</b>	Seq No: <b>6633748</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH 6.950 0.0100 7.000 99.3 90 110

Sample ID: <b>1601F43-011GDUP</b>	Client ID: <b>MW-3A</b>	Units: <b>pH Units</b>	Prep Date:	Run No: <b>309023</b>							
SampleType: <b>DUP</b>	TestCode: <b>Hydrogen Ion (pH) by SM4500 H+ B</b>	BatchID: <b>R309023</b>	Analysis Date: <b>01/26/2016</b>	Seq No: <b>6633769</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH 5.480 0.0100 5.510 0.546 20 H

Sample ID: <b>1601168-002ADUP</b>	Client ID:	Units: <b>pH Units</b>	Prep Date:	Run No: <b>309023</b>							
SampleType: <b>DUP</b>	TestCode: <b>Hydrogen Ion (pH) by SM4500 H+ B</b>	BatchID: <b>R309023</b>	Analysis Date: <b>01/26/2016</b>	Seq No: <b>6634115</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH 6.860 0.0100 6.840 0.292 20 H

<b>Qualifiers:</b>	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

**Client:** CDM Smith Inc.  
**Project Name:** Cessna  
**Workorder:** 1601F43

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: R309127**

Sample ID: <b>MB-R309127</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>309127</b>							
SampleType: <b>MBLK</b>	TestCode: <b>ION SCAN SW9056A</b>	BatchID: <b>R309127</b>	Analysis Date: <b>01/21/2016</b>	Seq No: <b>6636221</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate	BRL	0.25									
Nitrite	BRL	0.25									
Sulfate	BRL	1.0									

Sample ID: <b>LCS-R309127</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>309127</b>							
SampleType: <b>LCS</b>	TestCode: <b>ION SCAN SW9056A</b>	BatchID: <b>R309127</b>	Analysis Date: <b>01/21/2016</b>	Seq No: <b>6636220</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate	4.914	0.25	5.000		98.3	90	110				
Nitrite	5.181	0.25	5.000		104	90	110				
Sulfate	24.72	1.0	25.00		98.9	90	110				

Sample ID: <b>1601F81-002BMS</b>	Client ID: <b>LINE CREEK EFFLUENT</b>	Units: <b>mg/L</b>	Prep Date:	Run No: <b>309127</b>							
SampleType: <b>MS</b>	TestCode: <b>ION SCAN SW9056A</b>	BatchID: <b>R309127</b>	Analysis Date: <b>01/21/2016</b>	Seq No: <b>6636226</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate	69.30	2.5	50.00	13.36	112	90	110				S
Nitrite	54.09	2.5	50.00		108	90	110				
Sulfate	273.9	10	250.0	25.89	99.2	90	110				

Sample ID: <b>1601F81-002BMSD</b>	Client ID: <b>LINE CREEK EFFLUENT</b>	Units: <b>mg/L</b>	Prep Date:	Run No: <b>309127</b>							
SampleType: <b>MSD</b>	TestCode: <b>ION SCAN SW9056A</b>	BatchID: <b>R309127</b>	Analysis Date: <b>01/21/2016</b>	Seq No: <b>6636227</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate	69.15	2.5	50.00	13.36	112	90	110	69.30	0.217	20	S
Nitrite	54.05	2.5	50.00		108	90	110	54.09	0.076	20	
Sulfate	273.9	10	250.0	25.89	99.2	90	110	273.9	0.005	20	

**Qualifiers:** > Greater than Result value      < Less than Result value      B Analyte detected in the associated method blank  
 BRL Below reporting limit      E Estimated (value above quantitation range)      H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit      N Analyte not NELAC certified      R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit      S Spike Recovery outside limits due to matrix

Client: CDM Smith Inc.  
 Project Name: Cessna  
 Workorder: 1601F43

**ANALYTICAL QC SUMMARY REPORT**

BatchID: R309159

Sample ID: <b>MB-R309159</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>309159</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Alkalinity by SM2320B</b>	BatchID: <b>R309159</b>	Analysis Date: <b>01/27/2016</b>	Seq No: <b>6636530</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

BRL 3.00

Sample ID: <b>LCS-R309159</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>309159</b>							
SampleType: <b>LCS</b>	TestCode: <b>Alkalinity by SM2320B</b>	BatchID: <b>R309159</b>	Analysis Date: <b>01/27/2016</b>	Seq No: <b>6636531</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

122.0 3.00 125.0 97.6 75 125

Sample ID: <b>1601F31-005ADUP</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>309159</b>							
SampleType: <b>DUP</b>	TestCode: <b>Alkalinity by SM2320B</b>	BatchID: <b>R309159</b>	Analysis Date: <b>01/27/2016</b>	Seq No: <b>6636541</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Alkalinity, Total (As CaCO3)

9.000 3.00 9.000 0 30

<b>Qualifiers:</b>	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



**Client:** CDM Smith Inc.  
**Project Name:** Cessna  
**Workorder:** 1601F43

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: R309185**

Sample ID: <b>MB-R309185</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>309185</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Total Organic Carbon (TOC) SW9060A</b>	BatchID: <b>R309185</b>	Analysis Date: <b>01/27/2016</b>	Seq No: <b>6637247</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

BRL 1.00

Sample ID: <b>LCS-R309185</b>	Client ID:	Units: <b>mg/L</b>	Prep Date:	Run No: <b>309185</b>							
SampleType: <b>LCS</b>	TestCode: <b>Total Organic Carbon (TOC) SW9060A</b>	BatchID: <b>R309185</b>	Analysis Date: <b>01/27/2016</b>	Seq No: <b>6637245</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

25.32 1.00 25.00 101 90 110

Sample ID: <b>1601F43-011BMS</b>	Client ID: <b>MW-3A</b>	Units: <b>mg/L</b>	Prep Date:	Run No: <b>309185</b>							
SampleType: <b>MS</b>	TestCode: <b>Total Organic Carbon (TOC) SW9060A</b>	BatchID: <b>R309185</b>	Analysis Date: <b>01/27/2016</b>	Seq No: <b>6637253</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

24.54 1.00 25.00 98.2 80 120

Sample ID: <b>1601F43-011BMSD</b>	Client ID: <b>MW-3A</b>	Units: <b>mg/L</b>	Prep Date:	Run No: <b>309185</b>							
SampleType: <b>MSD</b>	TestCode: <b>Total Organic Carbon (TOC) SW9060A</b>	BatchID: <b>R309185</b>	Analysis Date: <b>01/27/2016</b>	Seq No: <b>6637255</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total

24.27 1.00 25.00 97.1 80 120 24.54 1.11 20

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



January 28, 2016

Andrew Romanek  
CDM Smith Inc.  
3715 Northside Parkway  
Atlanta GA 30327

TEL: (404) 720-1400  
FAX: (404) 467-4130

RE: Cessna

Dear Andrew Romanek:

Order No: 1601G20

Analytical Environmental Services, Inc. received 2 samples on 1/21/2016 10:30:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/15-06/30/16.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Ioana Pacurar  
Project Manager



**Client:** CDM Smith Inc.

**Project:** Cessna

**Lab ID:** 1601G20

**Case Narrative**

pH Analysis by Method 9045D:

Samples for pH analysis by Method 9045D were received and analyzed outside holding time requirement of "immediate or 15 minutes."

**Analytical Environmental Services, Inc**

**Date:** 28-Jan-16

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-3C (10-15)
<b>Project Name:</b> Cessna	<b>Collection Date:</b> 1/19/2016 3:00:00 PM
<b>Lab ID:</b> 1601G20-001	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>				
Total Organic Carbon (TOC)	614	500		mg/Kg-dry	219041	1	01/26/2016 11:57	JW
<b>Laboratory Hydrogen Ion (pH) SW9045D</b>				<b>(SW9045D)</b>				
pH	6.11	0.01	H	pH Units	218835	1	01/22/2016 09:00	JS

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 28-Jan-16

<b>Client:</b> CDM Smith Inc.	<b>Client Sample ID:</b> MW-3C (25-30)
<b>Project Name:</b> Cessna	<b>Collection Date:</b> 1/19/2016 3:05:00 PM
<b>Lab ID:</b> 1601G20-002	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>				
Total Organic Carbon (TOC)	BRL	500		mg/Kg-dry	219041	1	01/26/2016 12:25	JW
<b>Laboratory Hydrogen Ion (pH) SW9045D</b>				<b>(SW9045D)</b>				
pH	6.13	0.01	H	pH Units	218835	1	01/22/2016 09:00	JS

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client CDM

Work Order Number 1001620

Checklist completed by [Signature] 1/21/2016  
Signature Date

Carrier name: FedEx  UPS  Courier  Client  US Mail  Other

Shipping container/cooler in good condition? Yes  No  Not Present

Custody seals intact on shipping container/cooler? Yes  No  Not Present

Custody seals intact on sample bottles? Yes  No  Not Present

Container/Temp Blank temperature in compliance? (0°≤6°C)\* Yes  No

Cooler #1 4.2°C Cooler #2 \_\_\_\_\_ Cooler #3 \_\_\_\_\_ Cooler #4 \_\_\_\_\_ Cooler #5 \_\_\_\_\_ Cooler #6 \_\_\_\_\_

Chain of custody present? Yes  No

Chain of custody signed when relinquished and received? Yes  No

Chain of custody agrees with sample labels? Yes  No

Samples in proper container/bottle? Yes  No

Sample containers intact? Yes  No

Sufficient sample volume for indicated test? Yes  No

All samples received within holding time? Yes  No

Was TAT marked on the COC? Yes  No

Proceed with Standard TAT as per project history? Yes  No  Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No

Water - pH acceptable upon receipt? Yes  No  Not Applicable

Adjusted? \_\_\_\_\_ Checked by \_\_\_\_\_

Sample Condition: Good  Other(Explain) \_\_\_\_\_

(For diffusive samples or AIHA lead) Is a known blank included? Yes  No

See Case Narrative for resolution of the Non-Conformance.

\* Samples do not have to comply with the given range for certain parameters.

Client: CDM Smith Inc.  
 Project Name: Cessna  
 Lab Order: 1601G20

**Dates Report**

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1601G20-001A	MW-3C (10-15)	1/19/2016 3:00:00PM	Soil	Total Organic Carbon		1/22/2016 11:05:00 AM	01/26/2016
1601G20-001B	MW-3C (10-15)	1/19/2016 3:00:00PM	Soil	Laboratory Hydrogen Ion (pH)		1/22/2016 9:00:00 AM	01/22/2016
1601G20-002A	MW-3C (25-30)	1/19/2016 3:05:00PM	Soil	Total Organic Carbon		1/22/2016 11:05:00 AM	01/26/2016
1601G20-002B	MW-3C (25-30)	1/19/2016 3:05:00PM	Soil	Laboratory Hydrogen Ion (pH)		1/22/2016 9:00:00 AM	01/22/2016



Client: CDM Smith Inc.  
 Project Name: Cessna  
 Workorder: 1601G20

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 218835

Sample ID: <b>LCS-218835</b>	Client ID:	Units: <b>pH Units</b>	Prep Date: <b>01/22/2016</b>	Run No: <b>308876</b>							
SampleType: <b>LCS</b>	TestCode: <b>Laboratory Hydrogen Ion (pH) SW9045D</b>	BatchID: <b>218835</b>	Analysis Date: <b>01/22/2016</b>	Seq No: <b>6629652</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH 7.020 0.01 7.000 100 90 110

Sample ID: <b>1601D62-001ADUP</b>	Client ID:	Units: <b>pH Units</b>	Prep Date: <b>01/22/2016</b>	Run No: <b>308876</b>							
SampleType: <b>DUP</b>	TestCode: <b>Laboratory Hydrogen Ion (pH) SW9045D</b>	BatchID: <b>218835</b>	Analysis Date: <b>01/22/2016</b>	Seq No: <b>6629658</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

pH 8.910 0.01 8.950 0.448 10 H

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

**Client:** CDM Smith Inc.  
**Project Name:** Cessna  
**Workorder:** 1601G20

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 219041**

Sample ID: <b>MB-219041</b>	Client ID:	Units: <b>mg/Kg-dry</b>	Prep Date: <b>01/22/2016</b>	Run No: <b>309188</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Total Organic Carbon SW9060A Modified</b>	BatchID: <b>219041</b>	Analysis Date: <b>01/26/2016</b>	Seq No: <b>6637328</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Total Organic Carbon (TOC)

BRL 500

Sample ID: <b>LCS-219041</b>	Client ID:	Units: <b>mg/Kg-dry</b>	Prep Date: <b>01/22/2016</b>	Run No: <b>309188</b>							
SampleType: <b>LCS</b>	TestCode: <b>Total Organic Carbon SW9060A Modified</b>	BatchID: <b>219041</b>	Analysis Date: <b>01/26/2016</b>	Seq No: <b>6637329</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Total Organic Carbon (TOC)

2630 500 2610 101 70 130

Sample ID: <b>1601G20-002ADUP</b>	Client ID: <b>MW-3C (25-30)</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>01/22/2016</b>	Run No: <b>309188</b>							
SampleType: <b>DUP</b>	TestCode: <b>Total Organic Carbon SW9060A Modified</b>	BatchID: <b>219041</b>	Analysis Date: <b>01/26/2016</b>	Seq No: <b>6637360</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Total Organic Carbon (TOC)

BRL 500 220.0 0 50

**Qualifiers:**  
 > Greater than Result value  
 BRL Below reporting limit  
 J Estimated value detected below Reporting Limit  
 Rpt Lim Reporting Limit

< Less than Result value  
 E Estimated (value above quantitation range)  
 N Analyte not NELAC certified  
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank  
 H Holding times for preparation or analysis exceeded  
 R RPD outside limits due to matrix

Appendix E  
Well Purge Logs

# Groundwater Sampling Log

Well #: *MW-1A*

Site Name: *Cessna*

Site Location: *Colombus, GA*

Sample ID: *MW-1A*

Date: *8/4/14*

## Purge Data

Well Diameter (in): *2"* TD (ft): *28.27* DTW (ft): *15.15* \*Well Capacity (gal/ft): \_\_\_\_\_ Field equipment/instruments

(Total Well Depth - Depth to Water) x Well Capacity = Gallons Per Volume x 3 = Calculated Purge Volume

Start Time: *1325* ( ) x (gal/ft) = gallons x 3 volumes = \_\_\_\_\_ gallons

*Horiba U-52  
Geo Pump  
HAH DR2800*

Time	Depth to Water	Volume (gal)	Temp. (°C)	pH	O.R.P.	Cond. (ms/cm °C)	Turb. (NTU)	D.O. (mg/L)	T.D.S. (g/L)
<i>1330</i>	<i>15.23</i>	<i>0.25</i>	<i>25.39</i>	<i>5.44</i>	<i>87</i>	<i>0.153</i>	<i>108</i>	<i>5.13</i>	<i>0.099</i>
<i>1335</i>	<i>15.22</i>	<i>0.50</i>	<i>25.55</i>	<i>5.31</i>	<i>89</i>	<i>0.147</i>	<i>68</i>	<i>5.01</i>	<i>0.095</i>
<i>1340</i>	<i>15.24</i>	<i>0.75</i>	<i>26.03</i>	<i>5.28</i>	<i>93</i>	<i>0.142</i>	<i>24</i>	<i>5.25</i>	<i>0.092</i>
<i>1345</i>	<i>15.24</i>	<i>1.00</i>	<i>25.63</i>	<i>5.83</i>	<i>110</i>	<i>0.146</i>	<i>10</i>	<i>5.12</i>	<i>0.095</i>
<i>1350</i>	<i>15.23</i>	<i>1.25</i>	<i>25.94</i>	<i>5.00</i>	<i>113</i>	<i>0.141</i>	<i>7.6</i>	<i>4.68</i>	<i>0.092</i>
<i>1355</i>	<i>15.24</i>	<i>1.50</i>	<i>26.02</i>	<i>5.03</i>	<i>112</i>	<i>0.144</i>	<i>5.9</i>	<i>4.41</i>	<i>0.094</i>

Notes: Odor, color, etc.

Sample Collection Time: *1355* Filtered: Y/ Duplicate: Y/ Duplicate Time: \_\_\_\_\_ Duplicate ID: \_\_\_\_\_

Sampled by (print): *Nicholas Fuller* Sampled by (sign): *[Signature]*

Remarks	Hach Results (mg/L)						
	Total Iron	Ferrous Iron	Sulfate	Nitrate	Alkalinity	CO <sub>2</sub>	MNO <sub>4</sub>
		<i>0.08</i>			<i>60</i>		

\* Well Capacity (gal/ft): 1" = 0.041 2" = 0.163 3" = 0.367 4" = 0.653 5" = 1.020 6" = 1.469

For odd well sizes use the equation [well diameter(in)<sup>2</sup> x water column(ft)] / 24.5



# Groundwater Sampling Log

Well #: *MW-3A*

Site Name: *Cessna*

Site Location: *Columbus, GA*

Sample ID: *MW-3A*

Date: *8/4/14*

## Purge Data

Well Diameter (in): *2"*

TD (ft): *19.41*<sup>*32.00*</sup>

DTW (ft): *30.00*<sup>*19.41*</sup>

\*Well Capacity (gal/ft):

Field equipment/instruments

(Total Well Depth - Depth to Water) x Well Capacity = Gallons Per Volume x 3 = Calculated Purge Volume

Start Time: *1115*

( ) x (gal/ft) = gallons x 3 volumes = gallons

*Horiba U-52  
CO2 pump*

*HACH DR 2800*

Notes: Odor, color, etc.

Time	Depth to Water	Volume (gal)	Temp. (°C)	pH	O.R.P.	Cond. (ms/cm °C)	Turb. (NTU)	D.O. (mg/L)	T.D.S. (g/L)
<i>1126</i>	<i>19.43</i>	<i>0.25</i>	<i>22.67</i>	<i>4.44</i>	<i>152</i>	<i>0.401</i>	<i>110</i>	<i>2.35</i>	<i>0.260</i>
<i>1125</i>	<i>19.42</i>	<i>0.50</i>	<i>22.51</i>	<i>4.60</i>	<i>147</i>	<i>0.363</i>	<i>43</i>	<i>2.34</i>	<i>0.236</i>
<i>1130</i>	<i>19.43</i>	<i>0.75</i>	<i>22.09</i>	<i>4.61</i>	<i>145</i>	<i>0.314</i>	<i>17</i>	<i>2.46</i>	<i>0.201</i>
<i>1135</i>	<i>19.43</i>	<i>1.00</i>	<i>22.06</i>	<i>4.59</i>	<i>144</i>	<i>0.290</i>	<i>8.6</i>	<i>2.71</i>	<i>0.191</i>
<i>1140</i>	<i>19.44</i>	<i>1.25</i>	<i>22.03</i>	<i>4.53</i>	<i>146</i>	<i>0.276</i>	<i>5.1</i>	<i>2.73</i>	<i>0.183</i>
<i>1145</i>	<i>19.44</i>	<i>1.50</i>	<i>22.00</i>	<i>4.47</i>	<i>148</i>	<i>0.270</i>	<i>4.8</i>	<i>2.66</i>	<i>0.186</i>

Sample Collection Time: *1145*

Filtered: Y /  N

Duplicate: Y /  N

Duplicate Time:

Duplicate ID:

Sampled by (print): *Nicholas Fuller*

Sampled by (sign): *[Signature]*

Remarks

Hach Results (mg/L)

Total Iron	Ferrous Iron	Sulfate	Nitrate	Alkalinity	CO <sub>2</sub>	MNO <sub>4</sub>
	<i>0.00</i>			<i>60</i>		

\* Well Capacity (gal/ft): 1" = 0.041 2" = 0.163 3" = 0.367 4" = 0.653 5" = 1.020 6" = 1.469

For odd well sizes use the equation [well diameter(in)<sup>2</sup> x water column(ft)] / 24.5

# Groundwater Sampling Log

Well #: MW-3D

Site Name: *COSIA*

Site Location: *Columbus, GA*

Sample ID: MW-3D

Date: *8/4/14*

## Purge Data

Well Diameter (in): *2"* TD (ft): *39.58* DTW (ft): *19.43* \*Well Capacity (gal/ft): \_\_\_\_\_ Field equipment/instruments

(Total Well Depth - Depth to Water) x Well Capacity = Gallons Per Volume x 3 = Calculated Purge Volume

Start Time: *1045* ( - ) x (gal/ft) = \_\_\_\_\_ gallons x 3 volumes = \_\_\_\_\_ gallons

*Horiba U-52  
Geo pump  
HACH DR 2900*

Time	Depth to Water	Volume (gal)	Temp. (°C)	pH	O.R.P.	Cond. (ms/cm °C)	Turb. (NTU)	D.O. (mg/L)	T.D.S. (‰)
<i>1050</i>	<i>19.51</i>	<i>0.25</i>	<i>22.96</i>	<i>3.99</i>	<i>153</i>	<i>0.346</i>	<i>6.8</i>	<i>1.25</i>	<i>0.225</i>
<i>1055</i>	<i>19.52</i>	<i>0.50</i>	<i>22.93</i>	<i>4.02</i>	<i>152</i>	<i>0.348</i>	<i>4.1</i>	<i>1.18</i>	<i>0.226</i>
<i>1100</i>	<i>19.52</i>	<i>0.75</i>	<i>22.61</i>	<i>4.16</i>	<i>150</i>	<i>0.361</i>	<i>1.8</i>	<i>0.95</i>	<i>0.235</i>
<i>1105</i>	<i>19.53</i>	<i>1.00</i>	<i>22.51</i>	<i>4.14</i>	<i>149</i>	<i>0.365</i>	<i>1.6</i>	<i>0.92</i>	<i>0.238</i>
<i>1110</i>	<i>19.52</i>	<i>1.25</i>	<i>22.48</i>	<i>4.16</i>	<i>148</i>	<i>0.369</i>	<i>1.5</i>	<i>0.88</i>	<i>0.240</i>

Notes: Odor, color, etc.

Sample Collection Time: *1110* Filtered: Y/ Duplicate: Y/ Duplicate Time: \_\_\_\_\_ Duplicate ID: \_\_\_\_\_

Sampled by (print): *Nicholas Fuller* Sampled by (sign): *[Signature]*

Remarks

Hach Results (mg/L)

Total Iron	Ferrous Iron	Sulfate	Nitrate	Alkalinity	CO <sub>2</sub>	MNO <sub>4</sub>
	<i>0.07</i>			<i>60</i>		

\* Well Capacity (gal/ft): 1" = 0.041 2" = 0.163 3" = 0.367 4" = 0.653 5" = 1.020 6" = 1.469

For odd well sizes use the equation [well diameter(in)<sup>2</sup> x water column(ft)] / 24.5

# Groundwater Sampling Log

Well #: *MW-4A*

Site Name: *CESNA*

Site Location: *Columbus GA*

Sample ID: *MW-4A*

Date: *8/14/14*

## Purge Data

Well Diameter (in): *2"*

TD (ft): *29.94*

DTW (ft): *20.51*

\*Well Capacity (gal/ft):

Field equipment/instruments

(Total Well Depth - Depth to Water) x Well Capacity = Gallons Per Volume x 3 = Calculated Purge Volume

Start Time: *1240*

( - ) x (gal/ft) = gallons x 3 volumes = gallons

*Horiba U-52*

*Geo Pump*

*HACH DR 2800*

Notes: Odor, color, etc.

Time	Depth to Water	Volume (gal)	Temp. (°C)	pH	O.R.P.	Cond. (ms/cm °C)	Turb. (NTU)	D.O. (mg/L)	T.D.S. (g/L)
<i>1248</i>	<i>20.57</i>	<i>0.25</i>	<i>22.37</i>	<i>5.58</i>	<i>92</i>	<i>0.205</i>	<i>76</i>	<i>1.52</i>	<i>0.132</i>
<i>1250</i>	<i>20.58</i>	<i>0.50</i>	<i>21.92</i>	<i>5.03</i>	<i>108</i>	<i>0.164</i>	<i>41</i>	<i>0.85</i>	<i>0.106</i>
<i>1255</i>	<i>20.58</i>	<i>0.75</i>	<i>21.70</i>	<i>4.96</i>	<i>110</i>	<i>0.160</i>	<i>18</i>	<i>0.76</i>	<i>0.104</i>
<i>1300</i>	<i>20.58</i>	<i>1.00</i>	<i>21.66</i>	<i>4.90</i>	<i>115</i>	<i>0.160</i>	<i>8.7</i>	<i>0.75</i>	<i>0.104</i>
<i>1305</i>	<i>20.59</i>	<i>1.25</i>	<i>21.71</i>	<i>4.83</i>	<i>118</i>	<i>0.160</i>	<i>7.6</i>	<i>0.71</i>	<i>0.104</i>
<i>1310</i>	<i>20.59</i>	<i>1.50</i>	<i>21.55</i>	<i>4.82</i>	<i>119</i>	<i>0.159</i>	<i>7.1</i>	<i>0.72</i>	<i>0.103</i>

Sample Collection Time: *1310*

Filtered: Y /

Duplicate: Y /

Duplicate Time:

Duplicate ID:

Sampled by (print): *Nicholas Fuller*

Sampled by (sign): *[Signature]*

Remarks

Hach Results (mg/L)

Total Iron	Ferrous Iron	Sulfate	Nitrate	Alkalinity	CO <sub>2</sub>	MNO <sub>4</sub>
	<i>0.04</i>			<i>80</i>		

\* Well Capacity (gal/ft): 1" = 0.041 2" = 0.163 3" = 0.367 4" = 0.653 5" = 1.020 6" = 1.469

For odd well sizes use the equation [well diameter(in)<sup>2</sup> x water column(ft)] / 24.5



# Groundwater Sampling Log

Well #: *MW-4B*

Site Name: *CASSIA*

Site Location: *Columbus, GA*

Sample ID: *MW-4B*

Date: *8/4/14*

## Purge Data

Well Diameter (in): *2"*    TD (ft): *45.81*    DTW (ft): *21.14*    \*Well Capacity (gal/ft):    Field equipment/instruments

(Total Well Depth - Depth to Water) x Well Capacity = Gallons Per Volume x 3 = Calculated Purge Volume

Start Time: *1205*    (    -    ) x    (gal/ft) =    gallons x 3 volumes =    gallons

*Horiba U-52  
Geo Pump  
ITACT DR 2800*

Time	Depth to Water	Volume (gal)	Temp. (°C)	pH	O.R.P.	Cond. (ms/cm °C)	Turb. (NTU)	D.O. (mg/L)	T.D.S. (g/L)
<i>1210</i>	<i>21.18</i>	<i>0.25</i>	<i>23.64</i>	<i>5.70</i>	<i>94</i>	<i>0.572</i>	<i>0.75</i>	<i>0.95</i>	<i>0.365</i>
<i>1215</i>	<i>21.17</i>	<i>0.50</i>	<i>23.28</i>	<i>5.57</i>	<i>104</i>	<i>0.601</i>	<i>7.6</i>	<i>0.83</i>	<i>0.384</i>
<i>1220</i>	<i>21.19</i>	<i>0.75</i>	<i>23.24</i>	<i>5.54</i>	<i>105</i>	<i>0.640</i>	<i>5.3</i>	<i>0.80</i>	<i>0.412</i>
<i>1225</i>	<i>21.26</i>	<i>1.00</i>	<i>23.29</i>	<i>5.55</i>	<i>103</i>	<i>0.701</i>	<i>3.9</i>	<i>0.74</i>	<i>0.449</i>
<i>1230</i>	<i>21.26</i>	<i>1.25</i>	<i>23.45</i>	<i>5.58</i>	<i>99</i>	<i>0.759</i>	<i>3.6</i>	<i>0.70</i>	<i>0.487</i>
<i>1235</i>	<i>21.20</i>	<i>1.50</i>	<i>23.47</i>	<i>5.60</i>	<i>96</i>	<i>0.773</i>	<i>3.5</i>	<i>0.71</i>	<i>0.495</i>

Notes: Odor, color, etc.

Sample Collection Time: *1235*

Filtered: Y/

Duplicate: Y/

Duplicate Time:

Duplicate ID:

Sampled by (print): *Nicholas Fuller*

Sampled by (sign): *[Signature]*

Remarks

Hach Results (mg/L)

Total Iron	Ferrous Iron	Sulfate	Nitrate	Alkalinity	CO <sub>2</sub>	MNO <sub>4</sub>
	<i>0.08</i>			<i>160</i>		

\* Well Capacity (gal/ft): 1" = 0.041    2" = 0.163    3" = 0.367    4" = 0.653    5" = 1.020    6" = 1.469

For odd well sizes use the equation [well diameter(in)<sup>2</sup> x water column(ft)] / 24.5

# Groundwater Sampling Log

**Well #:** *GW-8*

Site Name: *Cessna*

Site Location: *Columbus, GA*

Sample ID: *GW-8*

Date: *8/4/14*

## Purge Data

Well Diameter (in): *2"*    TD (ft): *32.57*    DTW (ft): *20.26*    \*Well Capacity (gal/ft):    Field equipment/instruments

(Total Well Depth - Depth to Water) x Well Capacity = Gallons Per Volume x 3 = Calculated Purge Volume

Start Time: *0920*    (    -    ) x    (gal/ft) =    gallons x 3 volumes =    gallons

*Horiba U-52  
Geo pump  
HACH DR 2800*

Notes: Odor, color, etc.

Time	Depth to Water	Volume (gal)	Temp. (°C)	pH	O.R.P.	Cond. (ms/cm °C)	Turb. (NTU)	D.O. (mg/L)	T.D.S. (‰)
<i>0925</i>	<i>20.28</i>	<i>0.25</i>	<i>21.55</i>	<i>3.41</i>	<i>272</i>	<i>0.121</i>	<i>106</i>	<i>1.75</i>	<i>0.077</i>
<i>0936</i>	<i>20.30</i>	<i>0.56</i>	<i>22.04</i>	<i>3.29</i>	<i>281</i>	<i>0.113</i>	<i>62</i>	<i>1.87</i>	<i>0.073</i>
<i>0935</i>	<i>20.31</i>	<i>0.75</i>	<i>22.14</i>	<i>3.22</i>	<i>288</i>	<i>0.104</i>	<i>21</i>	<i>1.73</i>	<i>0.068</i>
<i>0940</i>	<i>20.31</i>	<i>1.00</i>	<i>22.23</i>	<i>3.17</i>	<i>296</i>	<i>0.100</i>	<i>9.6</i>	<i>1.66</i>	<i>0.065</i>
<i>0945</i>	<i>20.30</i>	<i>1.25</i>	<i>22.33</i>	<i>3.10</i>	<i>302</i>	<i>0.097</i>	<i>7.3</i>	<i>1.49</i>	<i>0.063</i>
<i>0950</i>	<i>20.31</i>	<i>1.50</i>	<i>22.41</i>	<i>3.10</i>	<i>304</i>	<i>0.097</i>	<i>6.9</i>	<i>1.48</i>	<i>0.063</i>

Sample Collection Time: *0950*

Filtered: Y /  N

Duplicate: Y /  N

Duplicate Time:

Duplicate ID:

Sampled by (print): *Nicholas Fuller*

Sampled by (sign): *[Signature]*

Remarks

Hach Results (mg/L)

Total Iron	Ferrous Iron	Sulfate	Nitrate	Alkalinity	CO <sub>2</sub>	MNO <sub>4</sub>
	<i>0.29</i>			<i>20</i>		

\* Well Capacity (gal/ft): 1" = 0.041    2" = 0.163    3" = 0.367    4" = 0.653    5" = 1.020    6" = 1.469

For odd well sizes use the equation [well diameter(in)<sup>2</sup> x water column(ft)] / 24.5

GROUNDWATER SAMPLING LOG

SITE NAME: Cessna SITE LOCATION: Columbus, GA  
 WELL NO: MW-1A SAMPLE ID: MW-1A DATE: 1/19/16

PURGING DATA

WELL DIAMETER (inches): 2 TUBING DIAMETER (inches): 3/8 WELL SCREEN INTERVAL DEPTH: 18.27 to 28.27 feet bgl STATIC DEPTH TO WATER (feet TOC): 14.73 PURGE PUMP TYPE: PP

TRADITIONAL PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
 (only fill out if applicable)  
 = ( 10 feet TOC - 14.73 feet TOC ) X 0.16 gallons/foot = 0.67 gallons

LOW FLOW PURGE: 1 SCREEN VOL. = WELL CAPACITY X SATURATED SCREEN LENGTH  
 (only fill out if applicable)  
 = 0.16 gallons/foot X 10 feet = 1.6 gallons X 3 = 4.8 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet bgl): 23.27 FINAL PUMP OR TUBING DEPTH IN WELL (feet bgl): 23.27 PURGING INITIATED AT: 1436 PURGING ENDED AT: 1457 TOTAL VOLUME PURGED (gallons): 5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet TOC)	TEMP. (°C)	SP. CONO. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	pH (standard units)	ORP (mV)	Turbidity (NTU)	TOTAL DISSOLVED SOLIDS (g/L)	COLOR/ODOR (describe)
1440	1	1		14.85	20.68	0.140	7.18	5.77	188.4	38.4	0.091	cloudy yellow
1441	1	2		14.87	20.75	0.133	6.66	5.70	203.0	23.9	0.086	clear
1449	1	3		14.88	20.74	0.123	7.68	5.68	213.3	9.5	0.082	"
1453	1	4		14.88	20.83	0.128	6.75	5.70	213.2	31.7	0.083	"
1457	1	5		14.88	20.83	0.127	6.51	5.70	216.5	42.7	0.082	"

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Caratha / CDM Smith SAMPLER(S) SIGNATURE(S): Clacw SAMPLING INITIATED AT: 1457  
 PUMP OR TUBING DEPTH IN WELL (feet bgl): 23.27 TUBING MATERIAL CODE: LDPE FIELD-FILTERED: Y  N  FILTER SIZE:      μm  
 Filtration Equipment Type:       
 FIELD DECONTAMINATION: PUMP Y  N  TUBING  N (replaced)  DUPLICATE: Y  N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-1A	2	CG	40mL	HCl	80mL		VOC by 8260	APP	0.1
	4	PE	1L	none	4L		TDS testing	"	"

**GROUNDWATER SAMPLING LOG**

SITE NAME: <u>Cessna</u>	SITE LOCATION: <u>Columbus GA</u>
WELL NO: <u>MW-2A</u>	SAMPLE ID: <u>MW-2A</u>
DATE: <u>1/19/16</u>	

**PURGING DATA**

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>3/8</u>	WELL SCREEN INTERVAL DEPTH: <u>22.02</u> to <u>32.07</u> feet bgl	STATIC DEPTH TO WATER (feet TOC): <u>16.71</u>
PURGE PUMP TYPE: <u>PP</u>			
TRADITIONAL PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)			
= ( _____ feet TOC - _____ feet TOC ) X _____ gallons/foot = _____ gallons			
LOW FLOW 1 PURGE: 1 SCREEN VOL. = WELL CAPACITY X SATURATED SCREEN LENGTH (only fill out if applicable)			
= <u>0.16</u> gallons/foot X <u>10</u> feet = <u>1.6</u> gallons X <u>3</u> = <u>4.8</u> gallons			

INITIAL PUMP OR TUBING DEPTH IN WELL (feet bgl): <u>27.02</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet bgl): <u>27.02</u>	PURGING INITIATED AT: <u>1607</u>	PURGING ENDED AT: <u>1704</u>
			TOTAL VOLUME PURGED (gallons): <u>5</u>

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet TOC)	TEMP. (°C)	SP. COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	pH (standard units)	ORP (mV)	Turbidity (NTU)	TOTAL DISSOLVED SOLIDS (g/L)	COLOR/ODOR (describe)
<del>1607</del>	<del>1</del>	<del>1</del>	<del>1</del>	<del>16.80</del>	<del>17.25</del>	<del>0.090</del>	<del>5.59</del>	<del>5.00</del>	<del>206.3</del>	<del>52.1</del>	<del>0.058</del>	<del>cloudy</del>
<del>1646</del>	<del>1</del>	<del>2</del>	<del>1</del>	<del>16.80</del>	<del>18.23</del>	<del>0.209</del>	<del>5.02</del>	<del>5.47</del>	<del>219.0</del>	<del>21.3</del>	<del>0.133</del>	<del>clear</del>
<del>1650</del>	<del>1</del>	<del>3</del>	<del>2</del>	<del>16.81</del>	<del>18.31</del>	<del>0.166</del>	<del>4.61</del>	<del>5.40</del>	<del>198.5</del>	<del>3.5</del>	<del>0.108</del>	<del>"</del>
<del>1655</del>	<del>1</del>	<del>4</del>	<del>3</del>	<del>16.81</del>	<del>18.34</del>	<del>0.143</del>	<del>4.47</del>	<del>5.37</del>	<del>192.3</del>	<del>0.0</del>	<del>0.093</del>	<del>"</del>
<del>1659</del>	<del>1</del>	<del>5</del>	<del>4</del>	<del>16.82</del>	<del>18.36</del>	<del>0.139</del>	<del>4.43</del>	<del>5.38</del>	<del>189.1</del>	<del>0.20</del>	<del>0.090</del>	<del>"</del>
<del>1704</del>	<del>1</del>	<del>5</del>	<del>5</del>	<del>16.82</del>	<del>18.34</del>	<del>0.133</del>	<del>4.39</del>	<del>5.39</del>	<del>186.8</del>	<del>4.9</del>	<del>0.087</del>	<del>"</del>

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: <u>Chara Choi</u> / CDM Smith				SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>			SAMPLING INITIATED AT: <u>1704</u>			
PUMP OR TUBING DEPTH IN WELL (feet bgl): <u>27.02</u>				TUBING MATERIAL CODE: <u>PE</u>		FIELD-FILTERED: Y <input checked="" type="radio"/> N <input type="radio"/>		FILTER SIZE: _____ μm		
FIELD DECONTAMINATION: PUMP Y <input checked="" type="radio"/> TUBING Y <input checked="" type="radio"/> N (replaced)				DUPLICATE: <u>CC</u> <u>CC</u> <u>CC</u>						
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
<u>MW-2A</u>	<u>2</u>	<u>CG</u>	<u>40mL</u>	<u>HCl</u>	<u>80 mL</u>		<u>VOL 8200</u>	<u>APP</u>	<u>0.1</u>	

**GROUNDWATER SAMPLING LOG**

SITE NAME: <u>Cessna</u>	SITE LOCATION: <u>Columbus GA</u>
WELL NO: <u>MW-3A</u>	SAMPLE ID: <u>MW-3A</u> DATE: <u>1/20/16</u>

**PURGING DATA**

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>3/8</u>	WELL SCREEN INTERVAL DEPTH: <u>220 to 320</u> feet bgl	STATIC DEPTH TO WATER (feet TOC): <u>18.5 to 18.97</u>	PURGE PUMP TYPE: <u>PP</u>
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TRADITIONAL PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
(only fill out if applicable)

LOW FLOW PURGE: 1 SCREEN VOL. = WELL CAPACITY X SATURATED SCREEN LENGTH  
(only fill out if applicable)

= ( 220 feet TOC - 18.5 feet TOC ) X 10 gallons/foot = 1.6 X 43 gallons = 4.8 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet bgl): <u>27</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet bgl): <u>27</u>	PURGING INITIATED AT: <u>1800</u>	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons): <u>5</u>
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TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet TOC)	TEMP. (°C)	SP. COND. (microhos/cm or µS/cm)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	pH (standard units)	ORP (mV)	Turbidity (NTU)	TOTAL DISSOLVED SOLIDS (g/L)	COLOR/ODOR (describe)
<u>1805</u>	<u>1</u>	<u>1</u>		<u>18.60</u>	<u>18.99</u>	<u>0.078</u>	<u>6.15</u>	<u>5.13</u>	<u>240.3</u>	<u>107.9</u>	<u>0.051</u>	<u>cloudy</u>
<u>1809</u>	<u>1</u>	<u>2</u>		<u>18.60</u>	<u>19.10</u>	<u>0.078</u>	<u>6.05</u>	<u>5.11</u>	<u>252.5</u>	<u>33.6</u>	<u>0.050</u>	<u>clear</u>
<u>1819</u>	<u>1</u>	<u>3</u>		<u>18.60</u>	<u>19.15</u>	<u>0.078</u>	<u>6.07</u>	<u>5.07</u>	<u>260.2</u>	<u>16.1</u>	<u>0.051</u>	<u>"</u>
<u>1819</u>	<u>1</u>	<u>4</u>		<u>18.60</u>	<u>19.18</u>	<u>0.078</u>	<u>6.12</u>	<u>5.05</u>	<u>263.4</u>	<u>16.5</u>	<u>0.051</u>	<u>"</u>
<u>1824</u>	<u>1</u>	<u>5</u>		<u>18.60</u>	<u>19.18</u>	<u>0.078</u>	<u>6.13</u>	<u>5.05</u>	<u>264.5</u>	<u>21.1</u>	<u>0.051</u>	<u>"</u>

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./Ft): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailor, BP = Bladder Pump, ESP = Electric Submersible Pump, PP = Peristaltic Pump, O = Other (Specify)

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: <u>Alva Choi</u> / CDM Smith	SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>	SAMPLING INITIATED AT: <u>1824</u>
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PUMP OR TUBING DEPTH IN WELL (feet bgl): <u>27</u>	TUBING MATERIAL CODE: <u>PE</u>	FIELD-FILTERED: Y <input checked="" type="radio"/> N <input type="radio"/> FILTER SIZE: <u>    </u> µm
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FIELD DECONTAMINATION: PUMP <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> TUBING <input checked="" type="radio"/> Y <input type="radio"/> N (replaced)	DUPLICATE: Y <input checked="" type="radio"/> N <input type="radio"/>
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SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			

<u>MW-3A</u>	<u>1</u>	<u>PE</u>	<u>250mL</u>	<u>H2SO4</u>	<u>250mL</u>		<u>TOC</u>	<u>APP</u>	<u>0.1</u>
		<u>"</u>	<u>"</u>	<u>none</u>	<u>"</u>		<u>alkalinity</u>	<u>"</u>	<u>"</u>
		<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>		<u>Redox</u>	<u>"</u>	<u>21</u>
		<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>		<u>total metals</u>	<u>"</u>	<u>"</u>

**GROUNDWATER SAMPLING LOG**

SITE NAME: <u>Cessna</u>	SITE LOCATION: <u>Columbus, GA</u>
WELL NO: <u>MW-3B</u>	SAMPLE ID: <u>MW-3B</u>
DATE: <u>1/20/16</u>	

**PURGING DATA**

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>3/8</u>	WELL SCREEN INTERVAL DEPTH: <u>59.00</u> to <u>39.00</u> feet bgl	STATIC DEPTH TO WATER (feet TOC): <u>18.04</u>	PURGE PUMP TYPE: <u>PP</u>
TRADITIONAL PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
= ( _____ feet TOC - _____ feet TOC) X _____ gallons/foot = _____ gallons				
LOW FLOW PURGE: 1 SCREEN VOL. = WELL CAPACITY X SATURATED SCREEN LENGTH (only fill out if applicable)				
= _____ gallons/foot X _____ feet = _____ gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet bgl): <u>34.88</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet bgl): <u>34.88</u>	PURGING INITIATED AT: <u>1524</u>	PURGING ENDED AT: <u>1552</u>	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet TOC)	TEMP. (°C)	SP. COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	pH (standard units)	ORP (mV)	Turbidity (NTU)	TOTAL DISSOLVED SOLIDS (g/L)	COLOR/ODOR (describe)
1528	1	1		23.50	18.94	0.170	5.44	5.77	18.2	388.2	0.110	cloudy yellow
1533	1	2		24.99	18.99	0.162	5.67	5.73	17.87	509.1	0.105	yellow
1540	1	3		25.82	18.98	0.159	5.84	5.72	16.60	233.3	0.103	Slightly cloudy
1546	1	4		25.82	18.98	0.155	6.06	5.72	15.64	282.6	0.101	"
1552	1	5		25.78	18.97	0.154	6.28	5.72	143.8	266.0	0.100	"

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: <u>Gara Choi</u> / CDM Smith				SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>			SAMPLING INITIATED AT: <u>1552</u>						
PUMP OR TUBING DEPTH IN WELL (feet bgl): <u>34.88</u>				TUBING MATERIAL CODE: <u>WPE</u>			FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		FILTER SIZE: _____ μm				
FIELD DECONTAMINATION: PUMP Y <input type="checkbox"/> N <input checked="" type="checkbox"/>				TUBING Y <input checked="" type="checkbox"/> N (replaced) <input type="checkbox"/>			DUPLICATE: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>						
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH							
<u>MW-3B</u>	<u>2</u>	<u>CG</u>	<u>40 mL</u>	<u>HCl</u>	<u>80 mL</u>		<u>VOL 820</u>		<u>APP</u>		<u>0.1</u>		

**GROUNDWATER SAMPLING LOG**

SITE NAME: <u>Cessna</u>	SITE LOCATION: <u>Columbus, GA</u>
WELL NO: <u>MW-3C</u>	SAMPLE ID: <u>MW-3C</u> DATE: <u>1/20/16</u>

**PURGING DATA**

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>3/8</u>	WELL SCREEN INTERVAL DEPTH: <u>82.5</u> to <u>87.5</u> feet bgl	STATIC DEPTH TO WATER (feet TOC): <u>82.5</u>	PURGE PUMP TYPE: <u>PP</u>
TRADITIONAL PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
= (                      feet TOC -                      feet TOC) X                      gallons/foot =                      gallons				
LOW FLOW PURGE: 1 SCREEN VOL. = WELL CAPACITY X SATURATED SCREEN LENGTH (only fill out if applicable)				
=                      gallons/foot X                      feet =                      gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet bgl): <u>85</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet bgl): <u>85</u>	PURGING INITIATED AT: <u>1230</u>	PURGING ENDED AT: <u>1248</u>	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet TOC)	TEMP. (°C)	SP. COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	pH (standard units)	ORP (mV)	Turbidity (NTU)	TOTAL DISSOLVED SOLIDS (g/L)	COLOR/ODOR (describe)
<u>1236</u>				<u>82.61</u>	<u>20.61</u>	<u>0.09</u>	<u>9.36</u>	<u>8.61</u>	<u>9.2</u>	<u>917.1</u>	<u>0.130</u>	<u>cloudy</u>
<u>1239</u>				<u>82.63</u>	<u>20.77</u>	<u>0.203</u>	<u>9.26</u>	<u>8.61</u>	<u>13.5</u>	<u>1049.0</u>	<u>0.137</u>	<u>"</u>
<u>1242</u>				<u>82.64</u>	<u>20.17</u>	<u>0.202</u>	<u>9.29</u>	<u>8.57</u>	<u>9.2</u>	<u>985.1</u>	<u>0.131</u>	<u>"</u>
<u>1245</u>				<u>82.64</u>	<u>19.46</u>	<u>0.202</u>	<u>9.38</u>	<u>8.56</u>	<u>5.9</u>	<u>922.8</u>	<u>0.131</u>	<u>"</u>
<u>1248</u>				<u>82.64</u>	<u>19.5</u>	<u>0.202</u>	<u>9.28</u>	<u>8.55</u>	<u>2.9</u>	<u>905.2</u>	<u>0.124</u>	<u>"</u>

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
TUBING INSIDE DIA. CAPACITY (Gal/Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016  
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: <u>Olara Choi</u> / CDM Smith				SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>				SAMPLING INITIATED AT: <u>1248</u>					
PUMP OR TUBING DEPTH IN WELL (feet bgl): <u>85</u>				TUBING MATERIAL CODE: <u>PE</u>				FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/> FILTER SIZE: _____ μm					
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> N <input type="checkbox"/> TUBING Y <input checked="" type="checkbox"/> N (replaced) <input type="checkbox"/>				DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>									
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH							
<u>MW3C</u>	<u>2</u>	<u>CG</u>	<u>40</u>	<u>HCl</u>	<u>80</u>		<u>VOL 8260</u>		<u>APP</u>		<u>0-1</u>		

**GROUNDWATER SAMPLING LOG**

SITE NAME: <u>Cessna</u>		SITE LOCATION: <u>Columbus, GA</u>	
WELL NO: <u>MW-4A</u>	SAMPLE ID: <u>MW-4A</u>	DATE: <u>1/20/16</u>	

**PURGING DATA**

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>2 3/8</u>	WELL SCREEN INTERVAL DEPTH: <u>19.4</u> to <u>29.4</u> feet bgl.	STATIC DEPTH TO WATER (feet TOC): <u>19.07</u> to <u>19.28</u>	PURGE PUMP TYPE: <u>PP</u>
TRADITIONAL PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
LOW FLOW PURGE: 1 SCREEN VOL. = WELL CAPACITY X SATURATED SCREEN LENGTH (only fill out if applicable)				
= ( <u>0.16</u> gallons/foot X <u>10</u> feet = <u>1.6</u> gallons = <u>4.8</u> gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet bgl): <u>24.94</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet bgl): <u>14.94</u>	PURGING INITIATED AT: <u>14.44</u>	PURGING ENDED AT: <u>15.07</u>	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet TOC)	TEMP. (°C)	SP. COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	pH (standard units)	ORP (mV)	Turbidity (NTU)	TOTAL DISSOLVED SOLIDS (g/L)	COLOR/ODOR (describe)
1448	1	1		19.29	19.16	0.192	4.56	5.87	138.6	1.1	0.124	clear
1452	1	2		19.30	19.28	0.191	4.36	5.81	157.3	0	0.124	"
1457	1	3		19.30	19.26	0.192	4.30	5.78	170.6	0	0.125	"
1502	1	4		19.30	19.28	0.191	4.27	5.78	175.7	0	0.124	"
1507	1	5		19.31	19.32	0.190	4.23	5.79	178.3	0	0.123	"

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./FT): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016  
 PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: <u>Qara Choi</u> / CDM Smith				SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>				SAMPLING INITIATED AT: <u>1507</u>					
PUMP OR TUBING DEPTH IN WELL (feet bgl): <u>24.94</u>				TUBING MATERIAL CODE: <u>PE</u>				FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/> FILTER SIZE: _____ μm					
FIELD DECONTAMINATION: PUMP Y <input type="checkbox"/> N <input checked="" type="checkbox"/>				TUBING Y <input checked="" type="checkbox"/> N (replaced) <input type="checkbox"/>				DUPLICATE: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	<u>ARROW</u>		<u>APP</u>		<u>0.1</u>		
<u>MW-4A</u>	<u>2</u>	<u>CG</u>	<u>40mL</u>	<u>HCl</u>	<u>80</u>								



**GROUNDWATER SAMPLING LOG**

SITE NAME: <u>AAW-4B Cessna</u>	SITE LOCATION: <u>Columbus, GA</u>
WELL NO: <u>MW-4B</u>	SAMPLE ID: <u>MW-4B</u>
DATE: <u>1/20/16</u>	

**PURGING DATA**

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>3/8</u>	WELL SCREEN INTERVAL DEPTH: <u>35.81</u> to <u>45.81</u> feet bgl	STATIC DEPTH TO WATER (feet TOC): <u>18.95</u>	PURGE PUMP TYPE: <u>PP</u>
TRADITIONAL PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
= (                      feet TOC -                      feet TOC) X                      gallons/foot =                      gallons				

LOW FLOW PURGE: 1 SCREEN VOL. = WELL CAPACITY X SATURATED SCREEN LENGTH (only fill out if applicable)				
= <u>0.16</u> gallons/foot X <u>10</u> feet <u>1.6</u> x <u>3</u> gallons <u>4.8</u>				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet bgl): <u>40.81</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet bgl): <u>40.81</u>	PURGING INITIATED AT: <u>1323</u>	PURGING ENDED AT: <u>1431</u>	TOTAL VOLUME PURGED (gallons): <u>53</u>
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TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet TOC)	TEMP. (°C)	SP. COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	pH (standard units)	ORP (mV)	Turbidity (NTU)	TOTAL DISSOLVED SOLIDS (g/L)	COLOR/ODOR (describe)
<u>1328</u>	<u>1</u>	<u>1</u>		<u>29.03</u>	<u>18.81</u>	<u>0.582</u>	<u>4.72</u>	<u>6.94</u>	<u>-92.9</u>	<u>105.0</u>	<u>0.378</u>	<u>slightly cloudy</u>
<u>1339</u>	<u>1</u>	<u>2</u>		<u>29.05</u>	<u>18.85</u>	<u>0.586</u>	<u>4.72</u>	<u>6.94</u>	<u>-75.8</u>	<u>107.7</u>	<u>0.368</u>	<u>"</u>
<u>1431</u>	<u>1</u>	<u>3</u>		<u>29.71</u>	<u>17.21</u>	<u>0.561</u>	<u>0.5.84</u>	<u>7.06</u>	<u>-86.1</u>	<u>28.9</u>	<u>0.365</u>	<u>clear</u>

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
 TUBING INSIDE OIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: <u>Clara Choi</u> / CDM Smith				SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>				SAMPLING INITIATED AT: <u>1431</u>					
PUMP OR TUBING DEPTH IN WELL (feet bgl): <u>40.81</u>				TUBING MATERIAL CODE: <u>PC</u>				FIELD-FILTERED: Y <input checked="" type="radio"/> N <input type="radio"/> FILTER SIZE: <u>    </u> μm					
FIELD DECONTAMINATION: PUMP Y <input checked="" type="radio"/> N <input type="radio"/>				TUBING Y <input checked="" type="radio"/> N <input type="radio"/> (replaced)				DUPLICATE: Y <input checked="" type="radio"/> N <input type="radio"/>					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH							
<u>MW-4B</u>	<u>2</u>	<u>CG</u>	<u>40mL</u>	<u>HCl</u>	<u>80</u>		<u>WCBY 8200</u>		<u>APP</u>		<u>0.1</u>		





**GROUNDWATER SAMPLING LOG**

SITE NAME: <u>Cessna</u>	SITE LOCATION: <u>Columbus, GA</u>
WELL NO: <u>MW-7A</u>	SAMPLE ID: <u>MW-7A</u> DATE: <u>1/19/16</u>

**PURGING DATA**

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>3/8</u>	WELL SCREEN INTERVAL DEPTH: <u>20.06</u> to <u>30.06</u> feet bgl.	STATIC DEPTH TO WATER (feet TOC): <u>15.40</u>	PURGE PUMP TYPE: <u>PP</u>
TRADITIONAL PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
= (                      feet TOC -                      feet TOC) X                      gallons/foot =                      gallons				
LOW FLOW PURGE: 1 SCREEN VOL. = WELL CAPACITY X SATURATED SCREEN LENGTH (only fill out if applicable)				
= <u>0.16</u> gallons/foot X <u>10</u> feet = <u>1.6</u> X <u>3</u> = <u>4.8</u> gallons				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet bgl): <u>25.06</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet bgl): <u>25.06</u>	PURGING INITIATED AT: <u>1054</u>	PURGING ENDED AT: <u>1118</u>	TOTAL VOLUME PURGED (gallons): <u>31.5</u>
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TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet TOC)	TEMP. (°C)	SP. COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	pH (standard units)	ORP (mV)	Turbidity (NTU)	TOTAL DISSOLVED SOLIDS (g/L)	COLOR/ODOR (describe)
11:21	1	1		15.49	17.13	0.177	6.29	6.58	-528	13.6	0.115	clear
	1	2		<del>15.49</del>								at a dry
	1	3		<del>15.49</del>								
	1	4		<del>15.49</del>								
	1	5		<del>15.49</del>								
<i>dry!</i>												

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: <u>Clara Choi</u> / CDM Smith	SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>	SAMPLING INITIATED AT: <u>1154</u>
PUMP OR TUBING DEPTH IN WELL (feet bgl): <u>25.06</u>	TUBING MATERIAL CODE: <u>PE</u>	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/> FILTER SIZE: _____ μm
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> TUBING Y <input checked="" type="checkbox"/> N (replaced)		DUPLICATE: <u>Y</u> <del>N</del> <u>PP-1000</u>

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<u>MW-7A</u>	<u>2</u>	<u>C6</u>	<u>40mL</u>	<u>HCl</u>	<u>80</u>	<u>6.58</u>	<u>VOCB260</u>	<u>APP</u>	<u>0.1</u>

**GROUNDWATER SAMPLING LOG**

SITE NAME: <u>Cessna</u>	SITE LOCATION: <u>Columbus, GA</u>
WELL NO: <u>GW-8</u>	SAMPLE ID: <u>GW-8</u> DATE: <u>1/19/16</u>

**PURGING DATA**

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>3/8</u> to <u>3/4</u> feet bgl	WELL SCREEN INTERVAL DEPTH: <u>17.92</u> feet TOC	PURGE PUMP TYPE: <u>PP</u>
----------------------------------	---	---	----------------------------

TRADITIONAL PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY  
(only fill out if applicable)

LOW FLOW<sup>1</sup> PURGE: 1 SCREEN VOL. = WELL CAPACITY X SATURATED SCREEN LENGTH  
(only fill out if applicable)

INITIAL PUMP OR TUBING DEPTH IN WELL (feet bgl): <u>27.57</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet bgl): <u>27.57</u>	PURGING INITIATED AT: <u>1603</u>	PURGING ENDED AT: <u>1628</u>	TOTAL VOLUME PURGED (gallons): <u>5</u>
---	---	-----------------------------------	-------------------------------	---

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet TOC)	TEMP. (°C)	SP. COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	pH (standard units)	ORP (mV)	Turbidity (NTU)	TOTAL DISSOLVED SOLIDS (g/L)	COLOR/ODOR (describe)
<u>1607</u>	<u>1</u>	<u>1</u>		<u>18.02</u>	<u>17.85</u>	<u>0.090</u>	<u>5.59</u>	<u>5.00</u>	<u>261.3</u>	<u>52.1</u>	<u>0.058</u>	<u>slightly cloudy</u>
<u>1613</u>	<u>1</u>	<u>2</u>		<u>18.04</u>	<u>17.96</u>	<u>0.083</u>	<u>5.30</u>	<u>4.98</u>	<u>275.9</u>	<u>11.9</u>	<u>0.054</u>	<u>clear</u>
<u>1618</u>	<u>1</u>	<u>3</u>		<u>18.04</u>	<u>17.95</u>	<u>0.079</u>	<u>5.19</u>	<u>5.00</u>	<u>282.3</u>	<u>10.5</u>	<u>0.052</u>	<u>clear</u>
<u>1623</u>	<u>1</u>	<u>4</u>		<u>18.05</u>	<u>17.91</u>	<u>0.075</u>	<u>5.18</u>	<u>4.96</u>	<u>288.4</u>	<u>7.2</u>	<u>0.049</u>	<u>"</u>
<u>1628</u>	<u>1</u>	<u>5</u>		<u>18.05</u>	<u>17.97</u>	<u>0.074</u>	<u>5.13</u>	<u>4.96</u>	<u>293.0</u>	<u>1.9</u>	<u>0.048</u>	<u>"</u>

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

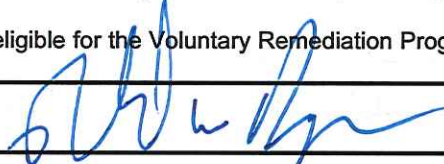
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: <u>Oliver Choi</u> / CDM Smith				SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>				SAMPLING INITIATED AT: <u>1628</u>					
PUMP OR TUBING DEPTH IN WELL (feet bgl): <u>27.57</u>				TUBING MATERIAL CODE: <u>PE</u>				FIELD-FILTERED: Y <input checked="" type="radio"/> N <input type="radio"/> FILTER SIZE: _____ µm					
FIELD DECONTAMINATION: PUMP Y <input type="radio"/> N <input checked="" type="radio"/>				TUBING Y <input checked="" type="radio"/> N (replaced) <input type="radio"/>				DUPLICATE: <u>NO</u> <input checked="" type="radio"/> Y <input type="radio"/>					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH							
<u>GW-8</u>	<u>2</u>	<u>CG</u>	<u>40ml</u>	<u>HCl</u>	<u>80</u>		<u>VOL 260</u>		<u>APP</u>		<u>0.1</u>		



# Voluntary Investigation and Remediation Plan Application Form and Checklist

VRP APPLICANT INFORMATION					
COMPANY NAME	Cessna Aircraft Company				
CONTACT PERSON/TITLE	Gregory Simpson/Director, Site Remediation				
ADDRESS	40 Westminster Street, Providence, RI 02903				
PHONE	401-457-2635	FAX	401-457-6028	E-MAIL	gsimpson@textron.com
GEORGIA CERTIFIED PROFESSIONAL GEOLOGIST OR PROFESSIONAL ENGINEER OVERSEEING CLEANUP					
NAME	James Thomas Duffey	GA PE/PG NUMBER	PG000899		
COMPANY	CDM Smith				
ADDRESS	3715 Northside Parkway NW #300/400, Atlanta, GA 30327				
PHONE	770-329-7143	FAX	404-720-1379	E-MAIL	duffeyjt@cdmsmith.com
APPLICANT'S CERTIFICATION					
<p>In order to be considered a qualifying property for the VRP:</p> <p>(1) The property must have a release of regulated substances into the environment;</p> <p>(2) The property shall not be:</p> <p style="margin-left: 20px;">(A) Listed on the federal National Priorities List pursuant to the federal Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. Section 9601.</p> <p style="margin-left: 20px;">(B) Currently undergoing response activities required by an order of the regional administrator of the federal Environmental Protection Agency; or</p> <p style="margin-left: 20px;">(C) A facility required to have a permit under Code Section 12-8-66.</p> <p>(3) Qualifying the property under this part would not violate the terms and conditions under which the division operates and administers remedial programs by delegation or similar authorization from the United States Environmental Protection Agency.</p> <p>(4) Any lien filed under subsection (e) of Code Section 12-8-96 or subsection (b) of Code Section 12-13-12 against the property shall be satisfied or settled and released by the director pursuant to Code Section 12-8-94 or Code Section 12-13-6.</p> <p>In order to be considered a participant under the VRP:</p> <p>(1) The participant must be the property owner of the voluntary remediation property or have express permission to enter another's property to perform corrective action.</p> <p>(2) The participant must not be in violation of any order, judgment, statute, rule, or regulation subject to the enforcement authority of the director.</p> <p>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my 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 my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</p> <p>I also certify that this property is eligible for the Voluntary Remediation Program (VRP) as defined in Code Section 12-8-105 and I am eligible as a participant as defined in Code Section 12-8-106.</p>					
APPLICANT'S SIGNATURE					
APPLICANT'S NAME/TITLE (PRINT)	Ronald Draper/Sr. Vice President			DATE	Mar 24, 2016

QUALIFYING PROPERTY INFORMATION (For additional qualifying properties, please refer to the last page of application form)			
HAZARDOUS SITE INVENTORY INFORMATION (if applicable)			
HSI Number		Date HSI Site listed	
HSI Facility Name		NAICS CODE	
PROPERTY INFORMATION			
TAX PARCEL ID	112 003 002	PROPERTY SIZE (ACRES)	14.47
PROPERTY ADDRESS	4800 Cargo Drive		
CITY	Columbus	COUNTY	Muscogee
STATE	Georgia	ZIPCODE	31907
LATITUDE (decimal format)	32.513258	LONGITUDE (decimal format)	-84.878214
PROPERTY OWNER INFORMATION			
PROPERTY OWNER(S)	Cessna Aircraft Company	PHONE #	
MAILING ADDRESS			
CITY		STATE/ZIPCODE	
ITEM #	DESCRIPTION OF REQUIREMENT	Location in VRP (i.e. pg., Table #, Figure #, etc.)	For EPD Comment Only (Leave Blank)
1.	<b>\$5,000 APPLICATION FEE IN THE FORM OF A CHECK PAYABLE TO THE GEORGIA DEPARTMENT OF NATURAL RESOURCES.</b> (PLEASE LIST CHECK DATE AND CHECK NUMBER IN COLUMN TITLED "LOCATION IN VRP." PLEASE DO NOT INCLUDE A SCANNED COPY OF CHECK IN ELECTRONIC COPY OF APPLICATION.)	<b>Enclosed</b>	
2.	<b>WARRANTY DEED(S) FOR QUALIFYING PROPERTY.</b>	<b>Enclosed</b>	
3.	<b>TAX PLAT OR OTHER FIGURE INCLUDING QUALIFYING PROPERTY BOUNDARIES, ABUTTING PROPERTIES, AND TAX PARCEL IDENTIFICATION NUMBER(S).</b>	<b>Enclosed</b>	
4.	<b>ONE (1) PAPER COPY AND TWO (2) COMPACT DISC (CD) COPIES OF THE VOLUNTARY REMEDIATION PLAN IN A SEARCHABLE PORTABLE DOCUMENT FORMAT (PDF).</b>	<b>Enclosed</b>	
5.	The VRP participant's initial plan and application must include, using all reasonably available current information to the extent known at the time of application, a graphic three-dimensional preliminary conceptual site model (CSM) including a preliminary remediation plan with a table of delineation standards, brief supporting text, charts, and figures (no more than 10 pages, total) that illustrates the site's surface and subsurface setting, the known or suspected source(s) of contamination, how contamination might move within the environment, the potential human health and ecological receptors, and the complete or incomplete exposure pathways that may exist at the site; the preliminary CSM must be updated as the investigation and remediation progresses and an up-to-date CSM must be included in each semi-annual status report submitted to the director by the participant; a <b>PROJECTED MILESTONE SCHEDULE</b> for investigation and remediation of the site, and after enrollment as a participant, must update the schedule in each semi-annual status report to the director describing implementation of the plan	<b>Provided in the Voluntary Investigation and Remediation Plan (VIRP)</b>	



	<p>during the preceding period. A Gantt chart format is preferred for the milestone schedule.</p> <p>The following four (4) generic milestones are required in all initial plans with the results reported in the participant's next applicable semi-annual reports to the director. The director may extend the time for or waive these or other milestones in the participant's plan where the director determines, based on a showing by the participant, that a longer time period is reasonably necessary:</p>		
<b>5.a.</b>	<p>Within the first 12 months after enrollment, the participant must complete horizontal delineation of the release and associated constituents of concern on property where access is available at the time of enrollment;</p>	<b>Complete as documented in the VIRP</b>	
<b>5.b.</b>	<p>Within the first 24 months after enrollment, the participant must complete horizontal delineation of the release and associated constituents of concern extending onto property for which access was not available at the time of enrollment;</p>	<b>Partially complete. One neighboring property has refused to grant access as documented in the VIRP.</b>	
<b>5.c.</b>	<p>Within 30 months after enrollment, the participant must update the site CSM to include vertical delineation, finalize the remediation plan and provide a preliminary cost estimate for implementation of remediation and associated continuing actions; and</p>	<b>Preliminary concepts are discussed in the VIRP. A Feasibility Study will be submitted for EPD review after approval of enrollment of this property in the VRP.</b>	
<b>5.d.</b>	<p>Within 60 months after enrollment, the participant must submit the compliance status report required under the VRP, including the requisite certifications.</p>	<b>Future task following remedy implementation</b>	

**SIGNED AND SEALED PE/PG CERTIFICATION AND SUPPORTING DOCUMENTATION:**

6.

"I certify under penalty of law that this report and all attachments were prepared by me or under my direct supervision in accordance with the Voluntary Remediation Program Act (O.C.G.A. Section 12-8-101, et seq.). I am a professional engineer/professional geologist who is registered with the Georgia State Board of Registration for Professional Engineers and Land Surveyors/Georgia State Board of Registration for Professional Geologists and I have the necessary experience and am in charge of the investigation and remediation of this release of regulated substances.

Furthermore, to document my direct oversight of the Voluntary Remediation Plan development, implementation of corrective action, and long term monitoring, I have attached a monthly summary of hours invoiced and description of services provided by me to the Voluntary Remediation Program participant since the previous submittal to the Georgia Environmental Protection Division.

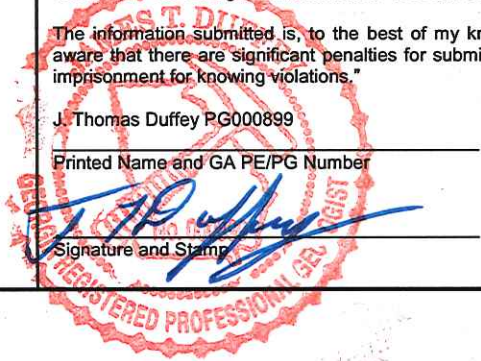
The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

J. Thomas Duffey PG000899

Printed Name and GA PE/PG Number

4/11/2016  
Date

Signature and Stamp



**ADDITIONAL QUALIFYING PROPERTIES (COPY THIS PAGE AS NEEDED)**

PROPERTY INFORMATION			
TAX PARCEL ID		PROPERTY SIZE (ACRES)	
PROPERTY ADDRESS			
CITY		COUNTY	
STATE		ZIPCODE	
LATITUDE (decimal format)		LONGITUDE (decimal format)	
PROPERTY OWNER INFORMATION			
PROPERTY OWNER(S)		PHONE #	
MAILING ADDRESS			
CITY		STATE/ZIPCODE	

PROPERTY INFORMATION			
TAX PARCEL ID		PROPERTY SIZE (ACRES)	
PROPERTY ADDRESS			
CITY		COUNTY	
STATE		ZIPCODE	
LATITUDE (decimal format)		LONGITUDE (decimal format)	
PROPERTY OWNER INFORMATION			
PROPERTY OWNER(S)		PHONE #	
MAILING ADDRESS			
CITY		STATE/ZIPCODE	

PROPERTY INFORMATION			
TAX PARCEL ID		PROPERTY SIZE (ACRES)	
PROPERTY ADDRESS			
CITY		COUNTY	
STATE		ZIPCODE	
LATITUDE (decimal format)		LONGITUDE (decimal format)	
PROPERTY OWNER INFORMATION			
PROPERTY OWNER(S)		PHONE #	
MAILING ADDRESS			
CITY		STATE/ZIPCODE	

STATE OF MARYLAND

COUNTY OF MONTGOMERY

WARRANTY DEED

THIS WARRANTY DEED, made and entered into as of the 1st day of December 1982, between FAIRCHILD INDUSTRIES, INC., a Maryland corporation, hereinafter in this Warranty Deed known and designated as "Grantor," and DEVELOPMENT AUTHORITY OF COLUMBUS, GEORGIA, a public body corporate and politic created and existing under the laws of the State of Georgia, hereinafter known and designated as "Grantee";

W I T N E S S E T H:

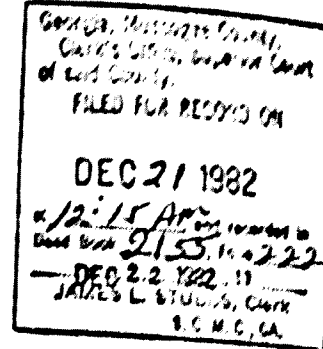
That Grantor, for and in consideration of the sum of Ten (\$10.00) Dollars and other good and valuable consideration to Grantor in hand paid, at and before the sealing and delivery of these presents, the receipt whereof is hereby acknowledged, has granted, bargained, sold and conveyed and does by these presents grant, bargain, sell, and convey unto Grantee, and Grantee's successors and assigns, the following described real estate (the "Property"), to-wit:

All that tract or parcel of land situate, lying and being in Columbus, Muscogee County, Georgia, and being more particularly described as follows:

BEGINNING at an iron stake located at the intersection of the easterly margin of Cargo Drive with the northerly margin of the Southern Railway right-of-way, and from said POINT OF BEGINNING running thence North 13 degrees 20 minutes 12 seconds West along the easterly margin of Cargo Drive 889.73 feet to an iron stake; running thence northeasterly along the easterly and southerly margin of Cargo Drive along the arc of a curve to the right (said curve having a radius of 884.27 feet) 300.0 feet to an iron stake; thence running North 89 degrees 27 minutes 28 seconds East, a distance of 493.58 feet to an iron stake; thence running South 25 degrees 06 minutes East a distance of 921.35 feet to an iron stake located on the northerly margin of the Southern Railway right-of-way; thence running South 63 degrees 10 minutes West along the northerly margin of the Southern Railway right-of-way a distance of 740.0 feet to an iron stake, which iron stake marks the POINT OF BEGINNING.

The above-described property is designated "Parcel X, 15.00 Ac." on that certain plat of survey entitled "Parcel X & Y, Columbus East Industrial Park, lying in Land Lots 38, 39, 58 & 59, 9th District, Columbus, Muscogee County, Georgia", dated September 27, 1982, prepared by Moon, Meeks & Patrick,

BOOK 2155 PAGE 222



**LEASE AGREEMENT**

between

**DEVELOPMENT AUTHORITY OF COLUMBUS, GEORGIA**

and

**VSI CORPORATION**

Dated as of December 1, 1982

This Lease Agreement and all right, title and interest of the Development Authority of Columbus, Georgia in any rents, revenues and receipts derived under this Lease Agreement have been assigned to The First National Bank of Columbus, as Trustee under the Indenture of Trust, dated as of December 1, 1982, from the Development Authority of Columbus, Georgia which secures \$7,500,000 in aggregate principal amount of Development Authority of Columbus, Georgia Revenue Bonds (Fairchild Industries, Inc. Project), Series 1982, Issue A and Issue B and any Additional Bonds issued thereunder.

This instrument was prepared by:

King & Spalding  
2500 Trust Company Tower  
Atlanta, Georgia 30303

**EXHIBIT "A"**

to

**LEASE AGREEMENT**

Between

**DEVELOPMENT AUTHORITY OF COLUMBUS, GEORGIA**

and

**VSI CORPORATION**

dated as of December 1, 1982

**DESCRIPTION OF LEASED LAND**

All that tract or parcel of land situate, lying and being in Columbus, Muscogee County, Georgia, and being more particularly described as follows:

BEGINNING at an iron stake located at the intersection of the easterly margin of Cargo Drive with the northerly margin of the Southern Railway right-of-way, and from said POINT OF BEGINNING running thence North 13 degrees 20 minutes 12 seconds West along the easterly margin of Cargo Drive, 889.73 feet to an iron stake; running thence northeasterly along the easterly and southerly margin of Cargo Drive along the arc of a curve to the right (said curve having a radius of 884.27 feet) 300.0 feet to an iron stake; thence running North 89 degrees 27 minutes 28 seconds East, a distance of 493.58 feet to an iron stake; thence running South 25 degrees 06 minutes East, a distance of 921.35 feet to an iron stake located on the northerly margin of the Southern Railway right-of-way; thence running South 63 degrees 10 minutes West along the northerly margin of the Southern Railway right-of-way, a distance of 740.0 feet to an iron stake, which iron stake marks the POINT OF BEGINNING.

The above-described property is designated "Parcel X, 15.00 Ac." on that certain plat of survey entitled "Parcel X & Y, Columbus East Industrial Park, Lying in Land Lots 38, 39, 58 & 59, 9th District, Columbus, Muscogee County, Georgia", dated September 27, 1982, prepared by Moon, Meeks & Patrick, Inc., and recorded in the Office of the Clerk of the Superior Court of Muscogee County, Georgia, in Plat Book 81, Folio 55.

Being the identical property conveyed to Fairchild Industries, Inc. from the Development Authority of Columbus, Georgia by Warranty Deed dated the 14th day of October, 1982 and recorded on the 15th day of October, 1982 in Deed Book 2138, Page 145 of the records in the aforesaid Clerk's Office.

**(Subject to Permitted Encumbrances as set forth in  
Article I of the Lease Agreement)**



larly described on Exhibit "A" attached hereto and made a part hereof (the "Property").

The Property comprises a portion of the "Project" which was leased by Grantor to Grantee, pursuant to the "Lease Agreement" (herein so called), dated as of December 1, 1982, recorded in Deed Book 2155, Page 222, public records of Muscogee County, Georgia. Grantee has heretofore paid to FIRST UNION NATIONAL BANK, as successor-in-interest to The First National Bank of Columbus, as Trustee, an amount of money sufficient to pay, retire, and redeem the outstanding "Bonds" (as defined in the Lease Agreement) in accordance with the provisions of the "Trust Indenture" (as defined in the Lease Agreement). Grantor is hereby conveying the Project to Grantee pursuant to Section 11.1 of the Lease Agreement, as a result of the payment, retirement and redemption of the outstanding Bonds.

IN TESTIMONY WHEREOF, Grantor has caused this Quitclaim Deed to be executed by its duly authorized officers and its corporate seal affixed, the day and year first above written.

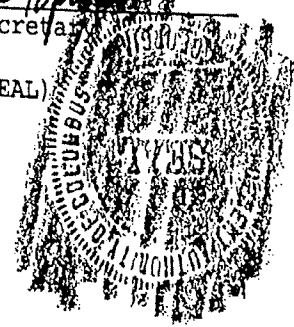
GRANTOR:

DEVELOPMENT AUTHORITY OF COLUMBUS,  
GEORGIA

By Frank A. Scheidt  
VICE Chairman

Attest [Signature]  
Secretary

(SEAL)



Signed, sealed and delivered in the presence of:

Peggy M. Jones  
Unofficial Witness

[Signature]  
Notary Public

My Commission Expires:  
My Commission Expires December 11, 2001

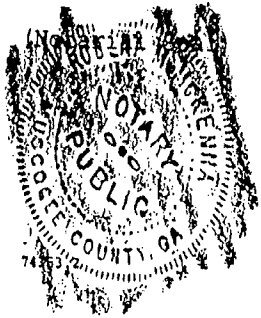




EXHIBIT "A"

All that tract or parcel of land situate, lying and being in Columbus, Muscogee County, Georgia, and being more particularly described as follows:

BEGINNING at an iron stake located at the intersection of the easterly margin of Cargo Drive with the northerly margin of the Southern Railway right-of-way, and from said POINT OF BEGINNING running thence North 13 degrees 20 minutes 12 seconds West along the easterly margin of Cargo Drive 889.73 feet to an iron stake; running thence northeasterly along the easterly and southerly margin of Cargo Drive along the arc of a curve to the right (said curve having a radius of 884.27 feet) 300.0 feet to an iron stake; thence running North 89 degrees 27 minutes 28 seconds East, a distance of 493.58 feet to an iron stake; thence running South 25 degrees 06 minutes East a distance of 921.35 feet to an iron stake located on the northerly margin of the Southern Railway right-of-way; thence running South 63 degrees 10 minutes West along the northerly margin of the Southern Railway right-of-way a distance of 740.0 feet to an iron stake, which iron stake marks the POINT OF BEGINNING.

The above-described property is designated "Parcel X, 15.00 Ac." on that certain plat of survey entitled "Parcel X & Y. Columbus East Industrial Park, Lying in Land Lots 38, 39, 58 & 59, 9<sup>th</sup> District, Columbus, Muscogee County, Georgia", dated September 27, 1982, prepared by Moon, Meeks & Patrick, Inc., and recorded in the Office of the Clerk of the Superior Court of Muscogee County, Georgia, in Plat Book 81, Folio 55. Being the identical property conveyed to Fairchild Industries, Inc. from the Development Authority of Columbus, Georgia by Warranty Deed dated the 14<sup>th</sup> day of October, 1982, and recorded on the 15<sup>th</sup> day of October, 1982, in Deed Book 2138, Page 145 of the records in the aforesaid Clerk's Office.

The Property is conveyed subject to the drainage, utility and sanitary sewer easements and building, setback line set forth on the above described plat of survey, and all restrictions, covenants and easements of record applicable to the Property.

Deed Book 5259 Pg 170  
Filed and Recorded Apr-27-1999 05:11pm  
1999-0014929  
Real Estate Transfer Tax \$76.00  
M. Linda Pierce  
Clerk of Superior Court  
Muscogee County, Georgia

AFTER RECORDATION PLEASE RETURN TO:

Robert M. McKenna  
Page, Scrantom, Sprouse,  
Tucker & Ford, P.C.  
P.O. Box 1199  
Columbus, GA 31902-1199

LIMITED WARRANTY DEED

STATE OF GEORGIA  
COUNTY OF MUSCOGEE

THIS INDENTURE, made the thirteenth day of April, 1999, between  
TEXTRON INC., a corporation organized and existing under the laws of the State  
of Delaware (hereinafter referred to as "Grantor") and THE CESSNA AIRCRAFT  
COMPANY, a corporation organized and existing under the laws of the State of  
Kansas (hereinafter referred to as "Grantee") (the words "Grantor" and "Grantee"  
to include their respective heirs, executors, administrators, successors and  
assigns, where the context requires or permits):

WITNESSETH:

That Grantor, for and in consideration of the sum of Ten Dollars (\$10.00)  
and other good and valuable consideration to Grantor in hand paid, at and before  
the sealing and delivery of these presents, the receipt whereof is hereby  
acknowledged, has granted, bargained, sold and conveyed and does by these  
presents grant, bargain, sell and convey unto Grantee, the following described  
real property to wit:

All that tract or parcel of land situate, lying and being in Columbus,  
Muscogee County, Georgia, and being more particularly described  
as follows:

Beginning at an iron stake located at the intersection of the easterly  
margin of Cargo Drive (a 100 foot right of way) with the northerly  
margin of the Southern Railway right of way (a 100 foot right of  
way), run thence North 13 degrees 20 minutes and 12 seconds  
West and along the eastern margin of the right of way of Cargo  
Drive, a distance of 889.73 feet to an iron stake; continue thence

northeasterly along the arc of a curve to the right formed by the easterly margin of Cargo Drive (said curve having a radius of 884.27 feet) for a distance of 300.0 feet to an iron stake, which iron stake marks the POINT OF BEGINNING; and from said POINT OF BEGINNING, run thence North 89 degrees 27 minutes 28 seconds East, a distance of 493.58 feet to an iron stake; thence running South 25 degrees 06 minutes East, a distance of 921.35 feet to an iron stake located on the northerly margin of the Southern Railway right of way; thence running North 63 degrees 10 minutes East along the northerly margin of the Southern Railway right of way, a distance of 676.25 feet to an iron stake; thence running North 52 degrees 31 minutes 43 seconds West, a distance of 706.57 feet to an iron stake; thence running North 27 degrees 20 minutes West, a distance of 350.0 feet to an iron stake; thence running South 42 degrees 58 minutes 22 seconds West, a distance of 150.0 feet to an iron stake; thence running North 47 degrees 01 minute 38 seconds West, a distance of 590.0 feet to an iron stake located on the southeasterly margin of Cargo Drive; thence running along the southeasterly margin of Cargo Drive along the arc of a curve to the left (said arc having a radius of 884.27 feet) a distance of 569.05 feet to an iron stake, which iron stake is the POINT OF BEGINNING.

The above-described property is designated "Parcel Y, 14.47 Ac." on that certain plat of survey entitled "Parcels X & Y, Columbus East Industrial Park, Lying in Land Lots 38, 39, 58 & 59, 9<sup>th</sup> District, Columbus, Muscogee County, Georgia, dated September 27, 1982, prepared by Moon, Meeks & Patrick, Inc., and recorded in the Office of the Clerk of Superior Court of Muscogee County, Georgia in Plat Book 81, Folio 55.

The above property is conveyed subject to the drainage, utility and storm and sanitary sewer easements and building setback line set forth on the plat of survey referred to above and all restrictions, covenants and easements of record applicable to the Property.

TO HAVE AND TO HOLD the said described property, with all and singular the rights, members and appurtenances thereunto appertaining, to the only proper use, benefit and behoof of Grantee, in FEE SIMPLE,

And Grantor will warrant and forever defend the right and title to the above-described property unto Grantee against the lawful claims of all persons owning, holding or claiming by, through or under Grantor.

M. Linda Pierce  
Clerk of Superior Court  
Muscookee County, Georgia

IN WITNESS WHEREOF, Grantor has duly executed this Limited  
Warranty Deed, under seal, the date first above written.

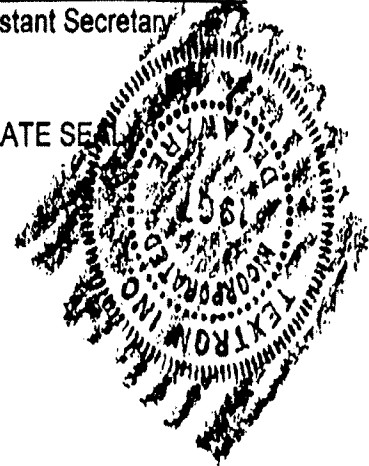
GRANTOR:

TEXTRON INC.

By: *DM Fin*  
Title: Vice President

Attest: *Ann J. Williams*  
Title: Assistant Secretary

(CORPORATE SEAL)



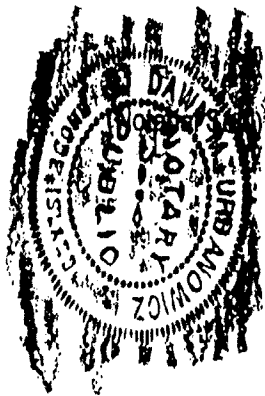
Signed, sealed and delivered  
in the presence of:

*Duncan I. Suther*  
Unofficial Witness

*Ann M. Williams*  
Notary Public

My Commission Expires:

APRIL 27, 2002



State of Georgia, County of Muscogee:

THIS INDENTURE, made and entered into this the 11<sup>th</sup> day of OCTOBER in the year of our Lord One Thousand Nine Hundred and Eighty-Three

between DEVELOPMENT AUTHORITY OF COLUMBUS, GEORGIA public authority a corporation organized and existing under and by virtue of the laws of the State of Georgia, and having its principal office and place of business in the City of Columbus, County and State aforesaid, hereafter in this Indenture known and designated as "Grantor," and VSI CORPORATION, a corporation organized and existing under the laws

of the State of Delaware County of \_\_\_\_\_, hereafter in this Indenture known and designated as Grantee:

WITNESSETH: That the said Grantor, for and in consideration of the sum of ONE HUNDRED FOURTEEN THOUSAND FIFTY & No/100ths (\$114,050.00) Dollars to it in hand paid, at and before the sealing and delivery of these presents, the receipt whereof is hereby acknowledged, has granted, bargained, sold and conveyed and does by these presents grant, bargain, sell and convey to Grantee, and said Grantee's successors and assigns, the following described real estate, to wit:

All that tract or parcel of land situate, lying and being in Columbus, Muscogee County, Georgia, and being more particularly described as follows:

Beginning at an iron stake located at the intersection of the easterly margin of Cargo Drive (a 100 foot right of way) with the northerly margin of the Southern Railway right of way (a 100 foot right of way), run thence North 13 degrees 20 minutes 12 seconds west and along the eastern margin of the right of way of Cargo Drive, a distance of 889.73 feet to an iron stake; continue thence northeasterly along the arc of a curve to the right formed by the easterly margin of Cargo Drive (said curve having a radius of 884.27 feet) for a distance of 300.0 feet to an iron stake, which iron stake marks the POINT OF BEGINNING; and from said POINT OF BEGINNING, run thence North 89 degrees 27 minutes 28 seconds East, a distance of 493.58 feet to an iron stake; thence running South 25 degrees 06 minutes East, a distance of 921.35 feet to an iron stake located on the northerly margin of the Southern Railway right of way; thence running North 63 degrees 10 minutes East along the northerly margin of the Southern Railway right of way, a distance of 676.25 feet to an iron stake; thence running North 52 degrees 31 minutes 43 seconds West, a distance of 706.57 feet to an iron stake; thence running North 27 degrees 20 minutes West, a distance of 350.0 feet to an iron stake; thence running South 42 degrees 58 minutes 22 seconds West, a distance of 150.0 feet to an iron stake; thence running North 47 degrees 01 minute 38 seconds West, a distance of 590.0 feet to an iron stake located on the southeasterly margin of Cargo Drive; thence running along the southeasterly margin of Cargo Drive along the arc of a curve to the left (said arc having a radius of 884.27 feet) a distance of 569.05 feet to an iron stake, which iron stake is the POINT OF BEGINNING.

The above-described property is designated "Parcel Y, 14.47 Ac." on that certain plat of survey entitled "Parcels X & Y, Columbus East Industrial Park, Lying in Land Lots 38, 39, 58 & 59, 9th District, Columbus, Muscogee County, Georgia", dated September 27, 1982, prepared by Moon, Meeks & Patrick, Inc., and recorded in the Office of the Clerk of the Superior Court of Muscogee County, Georgia in Plat Book 81, Folio 55.

The above property is conveyed subject to the drainage, utility and storm and sanitary sewer easements and building setback line set forth on the plat of survey referred to above and all restrictions, covenants and easements of record applicable to the Property.

**Go Have and to Hold**, the said bargained premises unto said Grantee, and said Grantee's \_\_\_\_\_  
\_\_\_\_\_**SUCCESSORS** and assigns, together with all and singular the rights, members and appurtenances thereof to the  
same in any manner belonging, to the own proper use, benefit and behoof, of said Grantee, and said Grantee's \_\_\_\_\_  
\_\_\_\_\_**SUCCESSORS** and assigns, forever, **IN FEE SIMPLE**.

And the said Grantor, for itself and its successors, the said bargained premises unto the said Grantee, and said  
Grantee's \_\_\_\_\_**SUCCESSORS** and assigns, will warrant and forever defend the right and title thereof against itself  
and against the claims of its successors and assigns, and against the claims of all other persons whomsoever.

**IN TESTIMONY WHEREOF**, the said Grantor has caused this Deed to be executed for it, and on its behalf, and  
has caused to be hereunto affixed its corporate seal, by its proper corporate officers, they being thereunto duly author-  
ized, the day and year first above written.

Muscogee County, Georgia  
Real Estate Transfer Tax  
Paid \$ \_\_\_\_\_  
Date 10.11.83  
Kathy Thomas  
Deputy Clerk of Superior Court

DEVELOPMENT AUTHORITY OF COLUMBUS, GEORGIA  
By [Signature]  
Vice Chairman  
Attest [Signature]  
Secretary/Treasurer

Signed, sealed and delivered in the presence of

[Signature]  
[Signature]  
Notary Public

County of Muscogee, State of Georgia.  
My Commission Expires December 7, 1985

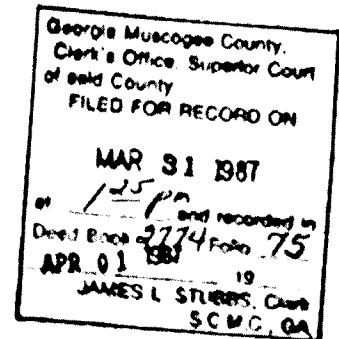
**FILED**      **RECORDED**

OCT 11 '83

OCT 12 '83

JAMES L. STUBBS, CLERK, S. C. M. C. GA

BR 2774 pg 075



STATE OF GEORGIA

COUNTY OF FULTON

LIMITED WARRANTY DEED

THIS DEED, made this 31<sup>st</sup> day of MARCH One Thousand Nine Hundred and Eighty-Seven, between VSI CORPORATION, a corporation organized and existing under the laws of the State of Delaware ("Grantor") and TEXTRON INC., a corporation organized and existing under the laws of the State of Delaware ("Grantee"), (the terms Grantor and Grantee to include their respective heirs, successors and assigns where the context hereof requires or permits),

WITNESSETH THAT: Grantor, for and in consideration of the sum of TEN AND NO/100 (\$10.00) DOLLARS, and other good and valuable consideration, in hand paid at and before the sealing and delivery of these presents, the receipt, adequacy and sufficiency of which being hereby acknowledged by Grantor, has granted, bargained, sold and conveyed, and by these presents does hereby grant, bargain, sell and convey unto Grantee, the following described real property, to wit:

All that tract or parcel of land situate, lying and being in Columbus, Muscogee County, Georgia, and being more particularly described as follows:

Beginning at an iron stake located at the intersection of the easterly margin of Cargo Drive (a 100 foot right of way) with the northerly margin of the Southern Railway right of way (a 100 foot right of way), run thence North 13 degrees 20 minutes 12 seconds west and along the eastern margin of the right of way of Cargo Drive, a distance of 889.73 feet to an iron stake; continue thence northeasterly along the arc of a curve to the right formed by the easterly margin of Cargo Drive (said curve having a radius of 884.27 feet) for a distance of 300.0 feet to an iron stake, which iron stake marks the POINT OF BEGINNING; and from said POINT OF BEGINNING, run thence North 89 degrees 27 minutes 28 seconds East, a distance of 493.58 feet

to an iron stake; thence running South 25 degrees 06 minutes East, a distance of 921.35 feet to an iron stake located on the northerly margin of the Southern Railway right of way; thence running North 63 degrees 10 minutes East along the northerly margin of the Southern Railway right of way, a distance of 676.25 feet to an iron stake; thence running North 52 degrees 31 minutes 43 seconds West, a distance of 706.57 feet to an iron stake; thence running North 27 degrees 20 minutes West, a distance of 350.0 feet to an iron stake; thence running South 42 degrees 58 minutes 22 seconds West, a distance of 150.0 feet to an iron stake; thence running North 47 degrees 01 minute 38 seconds West, a distance of 590.0 feet to an iron stake located on the southeasterly margin of Cargo Drive; thence running along the southeasterly margin of Cargo Drive along the arc of a curve to the left (said arc having a radius of 884.27 feet) a distance of 569.05 feet to an iron stake, which iron stake is the POINT OF BEGINNING.

The above-described property is designated "Parcel Y, 14.47 Ac." on the certain plat of survey entitled "Parcels X & Y, Columbus East Industrial Park, Lying in Land Lots 38, 39, 58 & 59, 9th District, Columbus, Muscogee County, Georgia, dated September 27, 1982, prepared by Moon, Meeks & Patrick, Inc., and recorded in the Office of the Clerk of the Superior Court of Muscogee County, Georgia in Plat Book 81, Folio 55.

The above property is conveyed subject to the drainage, utility and storm and sanitary sewer easements and building setback line set forth on the plat of survey referred to above and all restrictions, covenants and easements of record applicable to the Property.



TO HAVE AND TO HOLD the above-described tract or parcel of land, together with all and singular the rights, members and appurtenances thereof, to the same being, belonging, or in anywise appertaining, to the only proper use, benefit and behoof of Grantee, forever in FEE SIMPLE.

AND, SUBJECT TO the title matters expressly set forth hereinabove, if any, Grantor will warrant and forever defend the right and title to the above-described tract or parcel of land unto the Grantee against the claims of all persons claiming, owning or holding by, through or under Grantor.

IN WITNESS WHEREOF, Grantor has caused this Deed to be executed and attested by and through its duly authorized officers, and its Corporate Seal to be affixed, as of the day and year first above written.

VSI CORPORATION

Signed, sealed and delivered in the presence of:

Robert W. Wise  
Unofficial Witness  
Nancy M. Kynard  
Notary Public

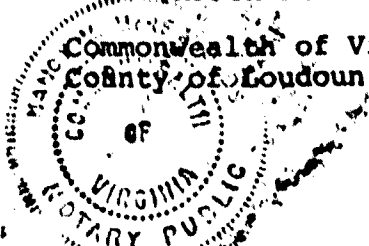
Notary Execution Date:

March 26, 1987

Commission Expiration Date:

July 16, 1990

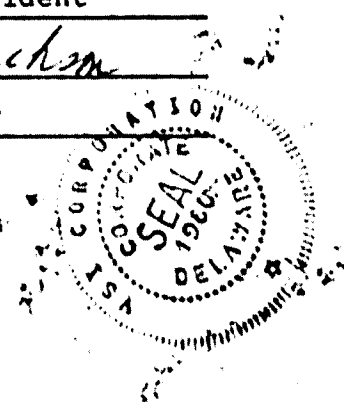
[AFFIX NOTARIAL SEAL]



By: [Signature]  
Title: Vice President

Attest: [Signature]  
Title: Secretary

[CORPORATE SEAL]



Muscogee County, Georgia  
Real Estate Transfer Tax

and \$ 76.00  
Date 3-21-87  
[Signature]  
Deputy Clerk of Superior Court

FILED

RECORDED

-3-

MAR 31 '87

APR 01 '87

JAMES L. STUBBS, CLERK, S.C.M.C. GA.

CORRECTIVE QUITCLAIM DEED

COMMONWEALTH OF VIRGINIA

COUNTY OF LOUDOUN

THIS INDENTURE, made the 31st day of MARCH, 1987, between VSI CORPORATION, a corporation organized and existing under the laws of the State of Delaware (hereinafter called the "Grantor"), and TEXTRON INC., a corporation organized and existing under the laws of the State of Delaware (hereinafter called the "Grantee"), the words "Grantor" and "Grantee" to include their respective heirs, successors and assigns where the context requires or permits;

WITNESSETH, that; the Grantor, for and in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, by these presents does hereby remise, convey and forever QUITCLAIM unto the Grantee all of the Grantor's right, title and interest in and to the following described real property (the "Premises"), to wit:

All that tract or parcel of land situate, lying and being in Columbus, Muscogee County, Georgia, and being more particularly described as follows:

Beginning at an iron stake located at the intersection of the easterly margin of Cargo Drive (a 100 foot right of way) with the northerly margin of the Southern Railway right of way (a 100 foot right of way), run thence North 13 degrees 20 minutes 12 seconds west and along the eastern margin of the right of way of Cargo Drive, a distance of 889.73 feet to an iron stake; continue thence northeasterly along the arc of a curve to the right formed by the easterly margin of Cargo Drive (said curve having a radius of 884.27 feet) for a distance of 300.0 feet to an iron stake, which iron stake marks the POINT OF BEGINNING; and from said POINT OF BEGINNING, run thence North 89 degrees 27 minutes 28 seconds East, a distance of 493.58 feet to an iron stake; thence running South

25 degrees 06 minutes East, a distance of 921.35 feet to an iron stake located on the northerly margin of the Southern Railway right of way; thence running North 63 degrees 10 minutes East along the northerly margin of the Southern Railway right of way, a distance of 676.25 feet to an iron stake; thence running North 52 degrees 31 minutes 43 seconds West, a distance of 706.57 feet to an iron stake; thence running North 27 degrees 20 minutes West, a distance of 350.0 feet to an iron stake; thence running South 42 degrees 58 minutes 22 seconds West, a distance of 150.0 feet to an iron stake; thence running North 47 degrees 01 minute 38 seconds West, a distance of 590.0 feet to an iron stake located on the southeasterly margin of Cargo Drive; thence running in a southwesterly direction along the southeasterly margin of Cargo Drive along the arc of a curve to the left (said arc having a radius of 884.27 feet) a distance of 569.05 feet to an iron stake, which iron stake is the POINT OF BEGINNING.

The above-described property is designated "Parcel Y, 14.47 Ac." on that certain plat of survey entitled "Parcels X & Y, Columbus East Industrial Park, Lying in Land Lots 38, 39, 58 & 59, 9th District, Columbus, Muscogee County, Georgia, dated September 27, 1982, prepared by Moon, Meeks & Patrick, Inc., and recorded in the Office of the Clerk of the Superior Court of Muscogee County, Georgia in Plat Book 81, Folio 55.

TO HAVE AND TO HOLD the Premises unto the Grantee, so that neither the Grantor nor any person or persons claiming under the Grantor shall at any time, by any means or ways, have, claim or demand any right or title to the Premises or said appurtenances, or any rights thereof.

This deed is given for the purpose of correcting the final call in the legal description set forth in that certain Limited

8K 2775 PG 052

Warranty Deed dated as of March 31, 1987 from the Grantor herein to the Grantee herein relating to the Premises.

IN WITNESS WHEREOF, the Grantor has caused this deed to be executed in its name and its corporate seal to be affixed hereunto by its duly authorized officers, all as of the day and year first above written.

Signed and sealed in the presence of:

Deborah K. Wise  
Unofficial Witness

Nancy M. Reynolds  
Notary Public

My commission expires:  
July 16, 1990

[NOTARIAL SEAL]

NANCY M. McREYNOLDS  
Notary Public  
Commonwealth of Virginia  
My Comm. Exps. July 16, 1990  
County of Loudoun  
On March 31, 1987

VSI CORPORATION

By: [Signature]  
Title: Vice President

Attest: [Signature]  
Title: Secretary

[CORPORATE SEAL]



Muscogee County, Georgia  
Real Estate Transfer Tax

Paid \$ -0-  
Date April 1, 1987  
Bunch Robinson  
Deputy Clerk of Superior Court

FILED

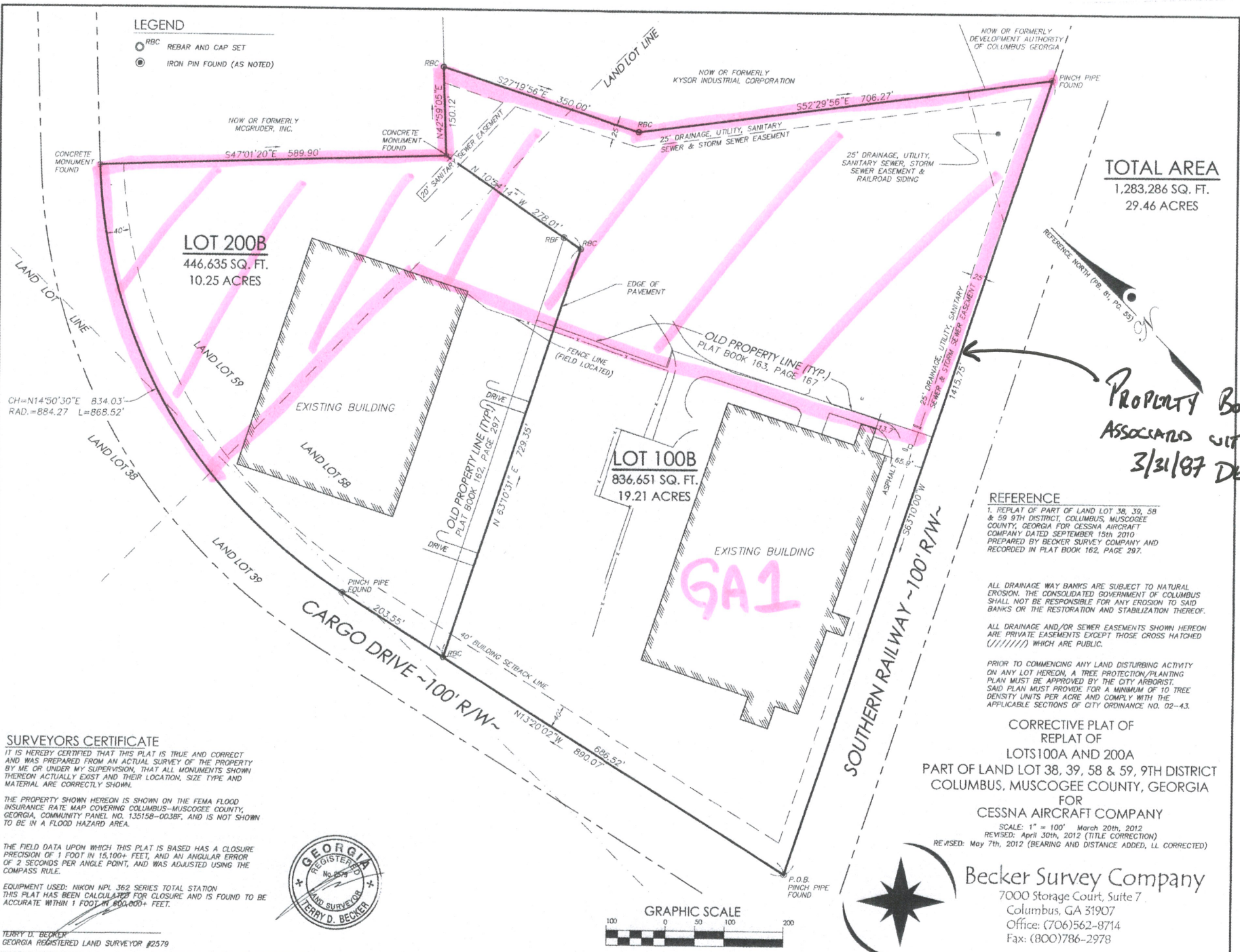
RECORDED

1987

1987

JAMES L. STUBBS CLERK S.C.M.C. GA

**LEGEND**  
 ○ RBC REBAR AND CAP SET  
 ● IRON PIN FOUND (AS NOTED)



**TOTAL AREA**  
 1,283,286 SQ. FT.  
 29.46 ACRES

*Property Boundary  
 Associated with  
 3/31/87 Deed*

**REFERENCE**  
 1. REPLAT OF PART OF LAND LOT 38, 39, 58 & 59 9TH DISTRICT, COLUMBUS, MUSCOGEE COUNTY, GEORGIA FOR CESSNA AIRCRAFT COMPANY DATED SEPTEMBER 15TH 2010 PREPARED BY BECKER SURVEY COMPANY AND RECORDED IN PLAT BOOK 162, PAGE 297.

ALL DRAINAGE WAY BANKS ARE SUBJECT TO NATURAL EROSION; THE CONSOLIDATED GOVERNMENT OF COLUMBUS SHALL NOT BE RESPONSIBLE FOR ANY EROSION TO SAID BANKS OR THE RESTORATION AND STABILIZATION THEREOF.

ALL DRAINAGE AND/OR SEWER EASEMENTS SHOWN HEREON ARE PRIVATE EASEMENTS EXCEPT THOSE CROSS HATCHED (//////) WHICH ARE PUBLIC.

PRIOR TO COMMENCING ANY LAND DISTURBING ACTIVITY ON ANY LOT HEREON, A TREE PROTECTION/PLANTING PLAN MUST BE APPROVED BY THE CITY ARBORIST. SAID PLAN MUST PROVIDE FOR A MINIMUM OF 10 TREE DENSITY UNITS PER ACRE AND COMPLY WITH THE APPLICABLE SECTIONS OF CITY ORDINANCE NO. D2-43.

**CORRECTIVE PLAT OF  
 REPLAT OF  
 LOTS 100A AND 200A  
 PART OF LAND LOT 38, 39, 58 & 59, 9TH DISTRICT  
 COLUMBUS, MUSCOGEE COUNTY, GEORGIA  
 FOR  
 CESSNA AIRCRAFT COMPANY**

SCALE: 1" = 100' March 20th, 2012  
 REVISED: April 30th, 2012 (TITLE CORRECTION)  
 REVISED: May 7th, 2012 (BEARING AND DISTANCE ADDED, LL CORRECTED)

**Becker Survey Company**  
 7000 Storage Court, Suite 7  
 Columbus, GA 31907  
 Office: (706)562-8714  
 Fax: (800)786-2978

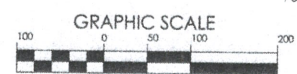
**SURVEYORS CERTIFICATE**  
 IT IS HEREBY CERTIFIED THAT THIS PLAT IS TRUE AND CORRECT AND WAS PREPARED FROM AN ACTUAL SURVEY OF THE PROPERTY BY ME OR UNDER MY SUPERVISION, THAT ALL MONUMENTS SHOWN THEREON ACTUALLY EXIST AND THEIR LOCATION, SIZE TYPE AND MATERIAL ARE CORRECTLY SHOWN.

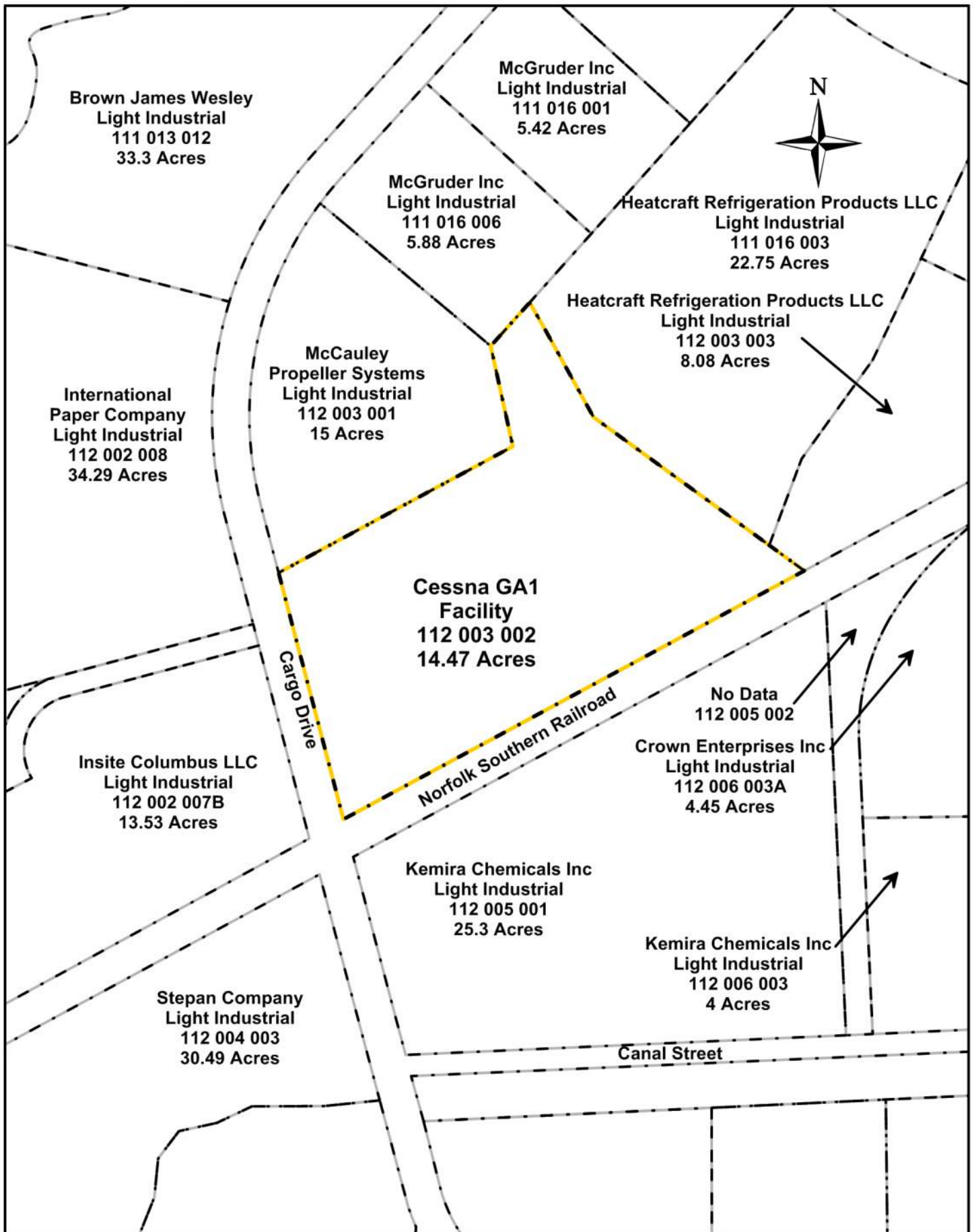
THE PROPERTY SHOWN HEREON IS SHOWN ON THE FEMA FLOOD INSURANCE RATE MAP COVERING COLUMBUS-MUSCOGEE COUNTY, GEORGIA, COMMUNITY PANEL NO. 135158-0033F, AND IS NOT SHOWN TO BE IN A FLOOD HAZARD AREA.

THE FIELD DATA UPON WHICH THIS PLAT IS BASED HAS A CLOSURE PRECISION OF 1 FOOT IN 15,100+ FEET, AND AN ANGULAR ERROR OF 2 SECONDS PER ANGLE POINT, AND WAS ADJUSTED USING THE COMPASS RULE.

EQUIPMENT USED: NIKON NPL 362 SERIES TOTAL STATION  
 THIS PLAT HAS BEEN CALCULATED FOR CLOSURE AND IS FOUND TO BE ACCURATE WITHIN 1 FOOT IN 15,100+ FEET.

TERRY D. BECKER  
 GEORGIA REGISTERED LAND SURVEYOR #2579

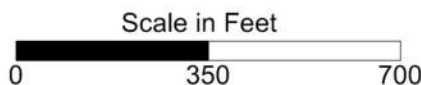




Muscogee County Board of Assessors Q-Public Parcel Map, 3/19/16 update.



Site Boundary  
 Offsite Properties



**Tax Plat Map**  
 Cessna GA1 Facility  
 Columbus, Muscogee County, Georgia