

INFORMATION HANDOUT

MATERIALS INFORMATION

SITE ACCESS CONTACT INFORMATION

SITE INVESTIGATION REPORT
GEOCON CONSULTANTS INC., JULY 2012

ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT
GEOCON CONSULTANTS INC., AUGUST 2012

MATERIALS INFORMATION

SITE ACCESS CONTACT INFORMATION

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SITE INVESTIGATION REPORT
GEOCON CONSULTANTS INC., JULY 2012

SITE INVESTIGATION REPORT



**Crestview Maintenance Station
Highway 395, Post Mile 34.1
Mono County, California**

PREPARED FOR:

**CALIFORNIA DEPARTMENT OF TRANSPORTATION
DISTRICT 6
855 M STREET, SUITE 200
FRESNO, CALIFORNIA 93721**



PREPARED BY:

**GEOCON CONSULTANTS, INC.
3160 GOLD VALLEY DRIVE, SUITE 800
RANCHO CORDOVA, CALIFORNIA 95742**



**GEOCON PROJECT NO. S9525-06-51
TASK ORDER NO. 51
E-FIS 09 1200 0009 (EA 09-353300)
CONTRACT NO 06A1580**

JULY 2012



Project No. S9525-06-51
July 24, 2012

Mr. Clem Goewert
California Department of Transportation
855 M Street, Suite 200
Fresno, California 93721

Subject: SITE INVESTIGATION REPORT
CRESTVIEW MAINTENANCE STATION
HIGHWAY 395, POST MILE 34.1
MONO COUNTY, CALIFORNIA
CONTRACT NO. 06A1580, TASK ORDER NO. 51, EA NO. 09-353300
E-FIS PROJECT NO. 09-1200-0009

Dear Mr. Goewert:

In accordance with California Department of Transportation (Caltrans) Contract No. 06A1580, Task Order (TO) No. 51, Expense Authorization (EA) No. 09-353300, and E-FIS Project No. 09-1200-0009, Geocon Consultants, Inc. has performed environmental engineering services for the subject project. The Site consists of Caltrans District 9 Crestview Maintenance Station (the Site) located in Mono County, California. The accompanying report summarizes the services performed including the advancement of 16 direct-push borings for shallow soil sampling for Title 22 metals and petroleum hydrocarbon testing, and the preparation of this report.

The contents of this report reflect the views of the author, who is responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the State of California or the Federal Highway Administration. This report does not constitute a standard, specification, or regulation.

Please contact us if there are any questions concerning the contents of this report or if we may be of further service.

Sincerely,

GEOCON CONSULTANTS, INC.

Gemma G. Reblando
Project Geologist

John E. Juhrend, PE, CEG
Principal



(2 + 2 CDs) Addressee
(2 + 2 CDs) Caltrans, Mark Heckman

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SITE INVESTIGATION REPORT

1.0 INTRODUCTION

This Site Investigation Report for the Crestview Maintenance Station project was prepared by Geocon Consultants, Inc. under California Department of Transportation (Caltrans) Contract No. 06A1580, Task Order (TO) Number 51, and Expense Authorization (EA) 09-353300, and E-FIS Project No. 09-1200-0009.

1.1 Project Description and Proposed Improvements

The project area consists of the Caltrans Crestview Maintenance Station (the Site) located on Highway 395, Post Mile 34.1, in Mono County, California. Caltrans is planning to demolish six existing structures and construct new buildings at the Site. The approximate project location and existing improvements are depicted on the Vicinity Map, Figure 1, and Site Plan, Figure 2.

1.2 General Objectives

The purpose of the scope of services outlined in TO No. 51 was to evaluate concentrations of heavy metals (including lead) and the extent of petroleum hydrocarbons contamination, if any, in the surface and near surface soils within the proposed construction areas. The soil investigative results will be used by Caltrans to determine how the soil will be managed during construction and to inform the construction contractor of the extent of metals and/or petroleum hydrocarbons present in the subsurface soil that could impact the health and safety of construction worker and the public.

Additionally, we performed asbestos and lead-containing paint (LCP) surveys of the existing structures at the Site to evaluate the presence of asbestos-containing materials (ACM) and LCP prior to demolition activities. The results of the ACM and LCP bridge surveys will be submitted under separate cover.

1.3 Site History

According to Caltrans, the Site is currently operated as a vehicle and equipment maintenance and storage facility related to highway construction and maintenance. The original structures were constructed in 1932 and the facility has been in operation since with various modifications. Initially, the truck shed had 8 bays, and the truck shed was expanded to 16 bays in 1966. In 1994, a fuel underground storage tank (UST) was removed and four new aboveground storage tanks (ASTs) were installed. In 2002, an additional fuel AST was installed near the superintendent house.

The approach grade to the truck shed is more than 10 percent at some locations, which can be hazardous during icy conditions. The equipment bays are inadequate to accommodate larger pieces of equipment. According to Caltrans, the building does not meet current Occupational Safety and Health Administration standards.

Construction of the proposed building improvements requires removal of six buildings and other structures on the Site and regarding of the Site.

1.4 Previous Site Investigations

In 1994, On-Site Technologies, Inc. conducted an initial site assessment (ISA) of the Site. The results of the ISA are summarized below.

Previous methods of storage and/or disposal of hazardous materials (gasoline and diesel fuels, motor oil, hydraulic fluid, antifreeze fluid, transmission fluid, brake fluid, etc.) appeared to have caused the soil and groundwater at the Site to be impacted by these hazardous materials. Fluids generated from the truck/equipment shed were disposed via a sump and into a culvert, which drained into a ditch along Highway 395. One culvert was observed to have been partially filled with tar.

In 1993, Alisto Engineering Group performed a preliminary site investigation which included the collection of soil and groundwater samples for analytical testing. Based on the laboratory analysis results, total petroleum hydrocarbons as diesel (TPHd) was detected at a concentration of 7 milligrams per kilogram (mg/kg) in a soil sample collected at a depth of 18 feet. Total recoverable petroleum hydrocarbon (TRPH) was also detected at 149 mg/kg. Grab groundwater samples were also collected and analyzed for petroleum hydrocarbons. Total petroleum hydrocarbons as gasoline (TPHg) and TPHd were detected up to 800 and 7,000 micrograms per liter ($\mu\text{g/l}$), respectively. TRPH was detected at concentrations up to 34,500 $\mu\text{g/l}$.

2.0 BACKGROUND

2.1 Hazardous Waste Determination Criteria – Title 22 Metals

Regulatory criteria to classify a waste as “California hazardous” for handling and disposal purposes are contained in the California Code of Regulations (CCR), Title 22, Division 4.5, Chapter 11, Article 3, § 66261.24. Criteria to classify a waste as “Resource, Conservation, and Recovery Act (RCRA) hazardous” are contained in Chapter 40 of the Code of Federal Regulations (40 CFR), Section 261.

For waste containing metals, the waste is classified as California hazardous when: 1) the total metal content equals or exceeds the respective Total Threshold Limit Concentration (TTLC); or 2) the soluble metal content equals or exceeds the respective Soluble Threshold Limit Concentration (STLC)

based on the standard Waste Extraction Test (WET). A waste may have the potential of exceeding the STLC when the waste's total metal content is greater than or equal to ten times the respective STLC value, since the WET uses a 1:10 dilution ratio. Hence, when a total metal is detected at a concentration greater than or equal to ten times the respective STLC, and assuming that 100 percent of the total metals are soluble, soluble metal analysis is required. A material is classified as RCRA hazardous, or Federal hazardous, when the soluble metal content equals or exceeds the Federal regulatory level based on the Toxicity Characteristic Leaching Procedure (TCLP). The TTLC and ten times the STLC values are listed on Table 2.

The above regulatory criteria are based on chemical concentrations. Wastes may also be classified as hazardous based on other criteria such as ignitability and corrosivity; however, for the purposes of this investigation, toxicity (i.e., lead concentrations) is the primary factor considered for waste classification since waste generated during the construction activities would not likely warrant testing for ignitability or corrosivity. Waste that is classified as either California-hazardous or RCRA-hazardous requires management as a hazardous waste.

The Department of Toxic Substances Control (DTSC) regulates and interprets hazardous waste laws in California. DTSC generally considers excavated or transported materials that exhibit "hazardous waste" characteristics to be a "waste" requiring proper management, treatment and disposal. Soil that contains metals above hazardous waste thresholds and is left in-place would not be necessarily classified by DTSC as a "waste." The DTSC has provided site-specific determinations that "movement of wastes within an area of contamination does not constitute "land disposal" and, thus, does not trigger hazardous waste disposal requirements." Therefore, metal-impacted soil that is scarified in-place, moisture-conditioned, and recompacted during roadway improvement activities might not be considered a "waste." DTSC should be consulted to confirm waste classification. It is noted that in addition to DTSC regulations, health and safety requirements and other local agency requirements may also apply to the handling and disposal of metal-impacted soil.

2.2 Risk-based Screening Criteria – Title 22 Metals

The California Environmental Protection Agency (Cal/EPA) has prepared technical reports entitled *Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties* (Cal/EPA, January 2005) and *Revised California Human Health Screening Levels for Beryllium* (Cal/EPA, March 2009) and *Lead* (Cal/EPA, September 2009), which present CHHSLs for soil, shallow soil gas, and indoor air to assist in evaluating sites impacted by releases of hazardous chemicals.

The CHHSLs are concentrations of 54 hazardous chemicals including Title 22 metals that Cal/EPA considers to be below thresholds of concern for risks to human health. The CHHSLs were developed by the Office of Environmental Health Hazard Assessment (OEHHA) on behalf of Cal/EPA. The thresholds of concern used to develop the CHHSLs are an excess lifetime cancer risk of one in a million and a hazard quotient or 1.0 for noncancer effects. Under most circumstances, the presence of a chemical at concentrations below its respective CHHSL can be assumed to not pose a significant risk. The presence of a chemical at concentrations above a CHHSL does not indicate that adverse impacts to human health are occurring or will occur but suggests that further evaluation is warranted (Cal/EPA, January 2005).

The commercial/industrial CHHSL values for Title 22 metals are listed on Table 2 for comparative purposes.

2.3 Hazardous Waste Determination Criteria – Petroleum Hydrocarbons

Currently, regulatory criteria for the classification of wastes based solely on the concentrations of gasoline-range organics (GRO), diesel-range organics (DRO), and motor oil-range organics (ORO) and volatile organic compounds (VOCs), have not yet been promulgated. Disposal of petroleum hydrocarbon and VOC-impacted soil is generally regulated by disposal facility permit and acceptance criteria.

2.4 Environmental Screening Levels – Petroleum Hydrocarbons

The San Francisco Bay Regional Water Quality Control Board (SFRWQCB) has prepared a technical report entitled *Screening For Environmental Concerns At Sites With Contaminated Soil and Groundwater, Interim Final* (May 2008), which presents Environmental Screening Levels (ESLs) for soil, groundwater, soil gas, and surface water, to assist in evaluating sites impacted by releases of hazardous chemicals. The ESLs are conservative values for more than 100 commonly detected contaminants, which may be used to compare with environmental data collected at a site. ESLs are strictly risk assessment tools and “not regulatory clean up standards.” The presence of a chemical at concentrations in excess of an ESL does not necessarily indicate that adverse impacts to human health or the environment are occurring; this simply indicates that a potential for adverse risk may exist and that additional evaluation is or “may be” warranted (SFRWQCB, 2008).

The following ESL tables were used for comparison: Table A – Shallow Soil (≤ 3 meters below ground surface) – Groundwater is a Current or Potential Source of Drinking Water, and Table K-3 – Direct Exposure Soil Screening Levels – Construction/Trench Worker Exposure Scenario. The respective ESLs are listed in Table 3 for comparative purposes.

3.0 SCOPE OF SERVICES

We performed the following scope of services as requested by Caltrans in TO No. 51:

3.1 Pre-field Activities

- Prepared a *Workplan* dated June 4, 2012, which described the requested scope of services and quality assurance/quality control (QA/QC) sampling and laboratory procedures.
- On May 30, 2012, we marked out the proposed boring locations in white paint for subsequent utility clearance when Geocon personnel were onsite to conduct asbestos and lead-paint survey.
- Prepared a *Health and Safety Plan* dated May 31, 2012, to provide guidelines on the use of personal protective equipment and the health and safety procedures implemented during the field activities.
- Provided 48-hour notification to Underground Service Alert (USA) prior to job site mobilization.
- Retained the services of Advanced Technology Laboratories (ATL) to perform the chemical analysis of soil samples.

3.2 Field Activities

The field activities consisted of collecting soil samples within the Caltrans Crestview Maintenance Station. On June 11 and 12, 2012, 48 soil samples were collected from 16 direct-push borings at the Caltrans designated soil sampling locations. The soil borings were excavated to an approximate maximum sampling depth of 5.0 feet. Soil samples were collected at general depth intervals of 0.0 to 0.5 foot, 2.0 to 2.5 feet, and 4.5 to 5.0 feet. Soil samples were also collected from borings B11 and B15 at an approximate depth interval of 3.5 to 4.0 feet.

4.0 INVESTIGATIVE METHODS

4.1 Boring Location Rationale

The following soil boring locations were designated by Caltrans in the vicinity of the proposed improvements. Boring B14 was advanced; however, three soil samples collected from boring B14 were not submitted to the laboratory for analysis per Caltrans. The approximate soil boring locations are depicted on the Site Plan as described below.

- Boring B1 was advanced adjacent to and northwest of the sand storage shed (Photo No. 1);
- Borings B2 through B9 were advanced west of the truck shed building (Photo No. 2); and
- Borings B10 through B16 were advanced east of the truck shed building.

The coordinates of the boring locations were determined using a differential global positioning system (GPS). The GPS was utilized during the field activities to locate the horizontal position of each location with an error of no more than 3.3 feet. The latitude and longitude of each boring except B10 and B13 through B16 are summarized on Table 1.

4.2 Soil Sampling Procedures

Soil samples obtained from the borings were collected in cellulose thermoplastic (acetate) liners driven by the direct-push rig. The acetate liners were cut to obtain a sample from a particular interval. The plastic tube that contained the sample was capped with Teflon sheets and plastic ends caps, and subsequently labeled, placed in an ice chest, and delivered to ATL for analytical testing under chain-of-custody (COC) documentation.

The laboratory was instructed to hold soil samples collected from a depth interval of 2.0 to 2.5 feet depending on the initial laboratory results.

Soil samples were field screened with a photo-ionization detector (PID) to qualitatively assess the presence of volatile organic compounds. Soil samples had PID readings greater than 0.1 parts per million (ppm) but less than 15 ppm. Petroleum hydrocarbon-like odor was noted in the sample collected from a depth of 5 feet in boring B5.

Quality assurance/quality control (QA/QC) procedures were performed during the field exploration activities. These procedures included decontamination of sampling equipment before each boring was advanced and providing COC documentation for each sample submitted to the laboratory. The soil sampling equipment was cleansed between each boring by washing the equipment with an Alconox™ solution followed by a double rinse with deionized water. The field sampling activities were performed under the supervision of Geocon's field manager.

The borings were backfilled with excess soil cuttings and cold patch asphalt concrete in paved areas. The decontamination water was discharged to the ground surface away from surface water bodies or storm drain inlets.

4.3 Laboratory Analyses

A total of 45 soil samples were submitted to ATL for the following analyses.

- Four soil samples were analyzed for total lead following United States Environmental Protection Agency (EPA) Test Method 6010B;
- Twenty-six soil samples were analyzed for Title 22 metals following EPA Test Method 6010B and 7471A (mercury).

- Twenty soil samples were analyzed for GRO following EPA Test Method 8015B(M);
- Twenty soil samples were analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX) and methyl tert-butyl ether (MTBE) following EPA Test Method 8021B;
- Twenty soil samples were analyzed for diesel-range organics (DRO) and motor oil-range organics (ORO) following EPA Test Method 8015B(M);
- Two soil samples were analyzed for WET soluble lead following EPA Test Method 7420; and
- One soil sample was analyzed for WET soluble chromium following EPA Test Method 7420.

4.4 Quality Assurance/Quality Control

QA/QC procedures were performed for each method of analysis with specificity for each analyte listed in the test method's QA/QC. The laboratory QA/QC procedures included the following:

- One method blank for every ten samples, batch of samples or type of matrix, whichever was more frequent.
- One sample analyzed in duplicate for every ten samples, batch of samples or type of matrix, whichever was more frequent.
- One spiked sample for every ten samples, batch of samples or type of matrix, whichever was more frequent, with the spike made at ten times the reporting limit or at the analyte level.

Prior to submitting the soil samples to the laboratory, the COC documentation was reviewed for accuracy and completeness. Reproductions of the laboratory reports and COC documentation are presented in Appendix A.

5.0 FIELD OBSERVATIONS AND INVESTIGATIVE RESULTS

5.1 Soil Conditions

Soil encountered beneath the 1- to 6-inch thick asphalt pavement during the excavation of borings was generally comprised of sand and gravel to the maximum sampling depth of approximately 5.0 feet. Groundwater was not encountered in the soil borings.

Heavy oil or tar was encountered in the soil sample from boring B11 at a depth of approximately 3.5 feet. Odor and elevated PID readings were noted in the sample from boring B5 at a depth of 5 feet.

5.2 Soil Analytical Results

5.2.1 Title 22 Metals

Twenty-six soil samples were analyzed for Title 22 metals. The metals concentrations are summarized below:

- Antimony at <2.0 mg/kg;
- Arsenic ranging from <1.0 to 2.1 mg/kg;
- Barium ranging from 12 to 220 mg/kg;
- Beryllium ranging from <1.0 to 1.4 mg/kg;
- Cadmium at <1.0 mg/kg;
- Chromium ranging from <1.0 to 52 mg/kg; WET soluble chromium at <1.0 mg/l;
- Cobalt ranging from <1.0 to 15 mg/kg;
- Copper ranging from <2.0 to 13 mg/kg;
- Lead ranging from <1.0 to 320 mg/kg; WET soluble lead at <1.0 and 2.2 mg/l;
- Molybdenum at <1.0 mg/kg;
- Nickel ranging from 1.3 to 25 mg/kg;
- Selenium at <1.0 mg/kg;
- Silver at <1.0 and 1.7 mg/kg;
- Thallium at <1.0 mg/kg;
- Vanadium ranging from 3.1 to 74 mg/kg;
- Zinc ranging from 2.6 to 130 mg/kg; and
- Mercury at <0.10 mg/kg.

Only chromium and lead have reported metals concentrations which exceeded ten times their respective STLC values. The reported metals concentrations appear to be within the range for naturally occurring background concentrations.

WET soluble chromium for the only sample analyzed was less than the laboratory reporting limit. WET soluble lead concentrations for the two samples analyzed were <1.0 and 2.2 mg/l, less than the STLC for lead of 5.0 mg/l. Title 22 metals concentrations are presented on Table 2.

The laboratory reports and COC documentation are presented in Appendix A.

5.2.2 Petroleum Hydrocarbons

GRO was detected in two of the 20 of the samples analyzed at concentrations of 2.5 and 2.7 mg/kg. DRO was detected in each of the samples analyzed at concentrations ranging from 3.8 to 36,000 mg/kg (B11-3.5). ORO was detected in each of the samples analyzed at concentrations ranging from 6.2 to 58,000 mg/kg (B11-3.5). Petroleum hydrocarbon concentrations are presented on Table 3.

BTEX and MTBE were not detected above the laboratory reporting limit in the soil samples submitted for analysis.

5.3 Laboratory QA/QC

We reviewed the laboratory QA/QC provided with the laboratory reports. Relative percent difference for duplicates were outside criteria for several samples. However, the analytical batch was validated by the laboratory control sample. Based on the laboratory QA/QC data, no additional qualification of the data presented herein is necessary, and the data are of sufficient quality for the purposes of this report.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Title 22 Metals

The Title 22 metals concentrations for the soil samples collected from the project locations were compared with the CHHSLs and published background levels typically present in California soils as presented in *Background Concentrations of Trace and Major Elements in California Soils* (Kearney Foundation of Soil Science, Division of Agriculture and Natural Resources, University of California, March 1996).

Lead was detected in the soil samples collected from the project locations at concentrations ranging from 1.1 to 320 mg/kg. One soil sample (B13-0.0) had a total lead concentration equal to the CHHSL for commercial/industrial land use of 320 mg/kg. However, the reported levels of lead for the remaining samples fall within the published background range of lead in California (12.4 to 97.1 mg/kg).

Arsenic was detected in the soil samples collected from the project locations at concentrations ranging from 1.0 to 2.1 mg/kg, greater than the CHHSL for commercial/industrial land use of 0.24 mg/kg. However, the reported levels of arsenic fall within the published background range of arsenic in California (0.6 to 11.0 mg/kg).

With the exception of lead, the remaining Title 22 metals concentrations detected in the soil samples collected from the project locations generally fall within the range of naturally occurring background levels.

Based on the laboratory results, soil excavated from the top 5 feet at locations represented by borings B1 through B13, B15 and B16 would not be classified as a California hazardous waste based on metals content since the total metals concentrations are less than their respective TTLC values or the WET soluble metals concentrations are less than their respective STLC values.

6.2 Petroleum Hydrocarbons

Petroleum hydrocarbon concentrations detected in soil samples obtained from the borings were compared to ESLs.

BTEX and MTBE were not detected at or above the laboratory reporting limits in the soil samples collected at the Site. GRO was detected in two soil samples at concentrations of 2.5 and 2.7 mg/kg, which is less than the commercial/industrial land use ESL of 83 mg/kg.

DRO was reported at concentrations ranging from 3.8 to 36,000 mg/kg (B11-3.5). Fifteen of the 20 soil samples had DRO concentrations greater than the commercial/industrial land use ESL of 83 mg/kg. Six of the 20 soil samples had DRO levels greater than the construction/trench worker exposure ESL of 4,200 mg/kg. ORO was reported at concentrations ranging from 6.2 to 58,000 mg/kg (B11-3.5). Nine of the 20 soil samples had ORO concentrations greater than the commercial/industrial land use ESL of 2,500 mg/kg. Six of the 20 soil samples had ORO concentrations equal to or greater than the construction/trench worker exposure ESL of 12,000 mg/kg. The highest petroleum hydrocarbon concentrations were generally reported for samples collected from areas with localized soil staining (B11). Elevated petroleum hydrocarbon concentrations were also reported for samples collected from borings located adjacent to and east and west of the truck shed building (borings B5, B6, B12, B13 and B16) and from boring B7 located approximately 50 feet west of the truck shed building.

Where stained or odorous soil is encountered during onsite construction excavations, the soil should be isolated, stockpiled and characterized to confirm waste classification in accordance with specific disposal facility acceptance criteria, if applicable.

6.3 Worker Protection

Per Caltrans' requirements, the contractor(s) should prepare a project-specific health and safety plan (HSP) to minimize worker exposure to potentially impacted soil. The HSP should include protocols for environmental and personnel monitoring, requirements for personal protective equipment, and other health and safety protocols and procedures for the handling of impacted soil.

6.4 Soil Management

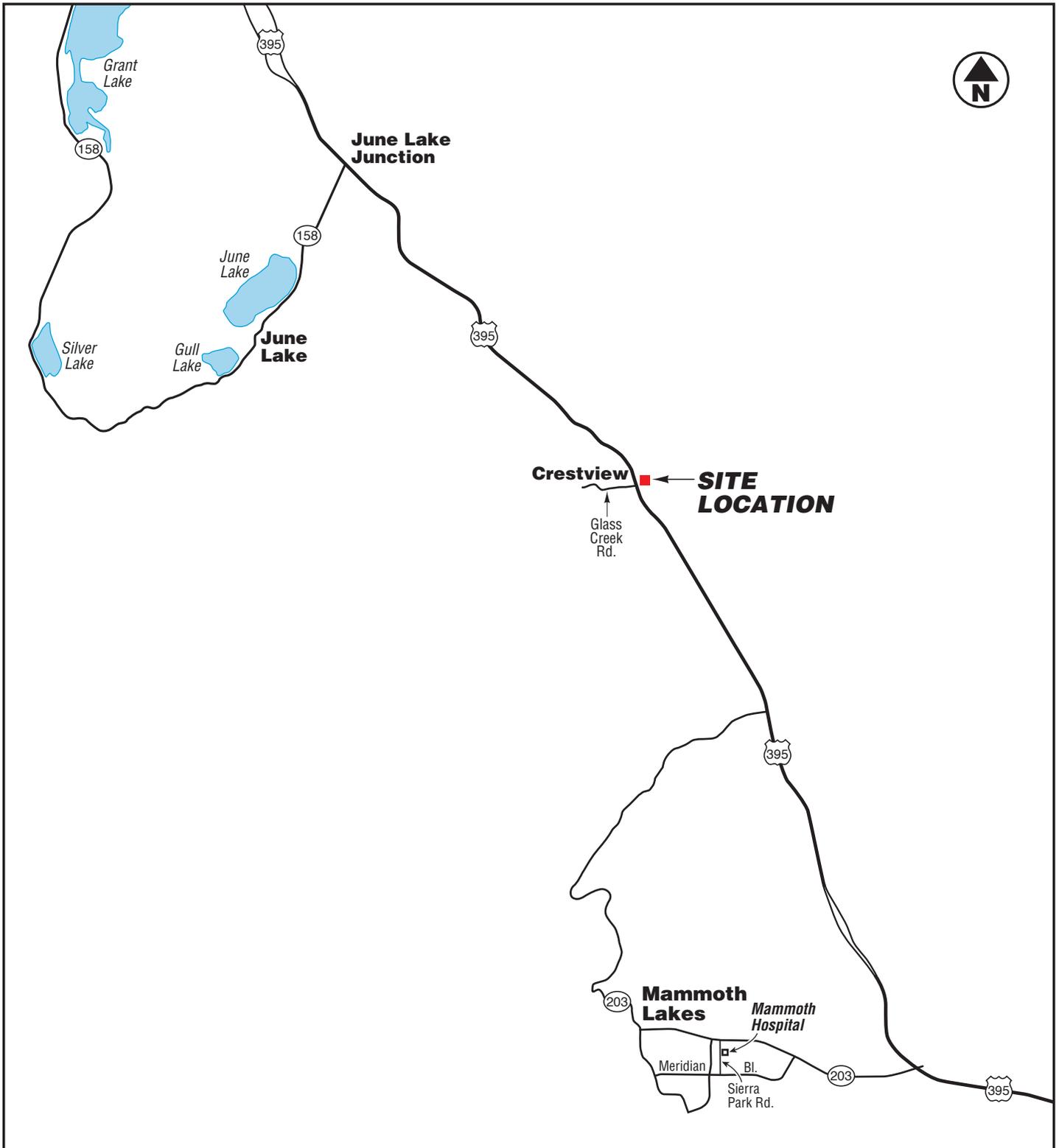
The proposed construction will require excavation of soil to an approximate depth of 5 feet. A Soil Management Plan should be prepared for the planned construction activities for the handling, stockpiling and disposal of or reuse of excess soil in accordance with Federal, State, and local regulations.

Caltrans plans to reuse non-contaminated excavated soil during grading. Excess soil or contaminated soil generated at the Site should be stockpiled on and covered with plastic and composite samples collected from the stockpile for analytical testing to confirm waste classification in accordance with specific disposal facility acceptance criteria, if applicable. Excavated soil characterized as Class III Non-RCRA can be transported and disposed of at the Bishop-Sunland Landfill in Bishop, California. Excavated soil characterized as Class I/II Non-RCRA can be transported and disposed of at the U.S. Ecology facility in Beatty, Nevada.

7.0 REPORT LIMITATIONS

This report has been prepared exclusively for Caltrans. The information contained herein is only valid as of the date of the report and will require an update to reflect additional information obtained.

This report is not a comprehensive site characterization and should not be construed as such. The findings as presented in this report are predicated on the results of the limited sampling and laboratory testing performed. In addition, the information obtained is not intended to address potential impacts related to sources other than those specified herein. Therefore, the report should be deemed conclusive with respect to only the information obtained. We make no warranty, express or implied, with respect to the content of this report or any subsequent reports, correspondence or consultation. We strived to perform the services summarized herein in accordance with the local standard of care in the geographic region at the time the services were rendered.



 GEOCON CONSULTANTS, INC. 3160 GOLD VALLEY DR - SUITE 800 - RANCHO CORDOVA, CA 95742 PHONE 916.852.9118 - FAX 916.852.9132	
Crestview Maintenance Station	
Highway 395, Post Mile 34.1 Mono County, California	VICINITY MAP
GEOCON Proj. No. S9525-06-51	
Task Order No. 51	July 2012
	Figure 1



LEGEND:

B16 ⊗ Approximate Boring Location



GEOCON
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Crestview Maintenance Station

Highway 395, Post Mile 34.1
Mono County, California

SITE PLAN

GEOCON Proj. No. S9525-06-51

Task Order No. 51

July 2012

Figure 2



Photo No. 1 Sand Storage Shed



Photo No. 2 Truck Shed

PHOTOS NO. 1 & 2



GEOCON
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Crestview Maintenance Station

GEOCON Proj. No. S9525-06-51

Highway 395, Post Mile 34.1
Mono County, California

Task Order No. 51

July 2012

TABLE 1
SUMMARY OF SOIL BORING COORDINATES
CRESTVIEW MAINTENANCE STATION
MONO COUNTY, CALIFORNIA

BORING ID	SAMPLE DATE	LATITUDE	LONGITUDE
B1	6/11/2012	37.751528661	-118.982968205
B2	6/11/2012	37.751887774	-118.983129472
B3	6/11/2012	37.751865821	-118.982988938
B4	6/11/2012	37.751926032	-118.983016584
B5	6/11/2012	37.751989140	-118.983033726
B6	6/11/2012	37.751886493	-118.982946984
B7	6/11/2012	37.751995403	-118.983162638
B8	6/11/2012	37.752296346	-118.983121519
B9	6/11/2012	37.752492702	-118.983204472
B10	6/12/2012	NA	NA
B11	6/12/2012	37.751927138	-118.982583151
B12	6/12/2012	37.751858869	-118.982698933
B13	6/12/2012	NA	NA
B14*	6/12/2012	NA	NA
B15	6/12/2012	NA	NA
B16	6/12/2012	NA	NA

Note: NA = GPS data not available

* = No sample from this boring was submitted for laboratory analysis

TABLE 2
 SUMMARY OF SOIL ANALYTICAL RESULTS - TITLE 22 METALS
 CRESTVIEW MAINTENANCE STATION
 MONO COUNTY, CALIFORNIA

Sample ID	<i>Antimony</i>	<i>Arsenic</i>	<i>Barium</i>	<i>Beryllium</i>	<i>Cadmium</i>	<i>Chromium</i>	<i>Cobalt</i>	<i>Copper</i>	<i>Lead</i>	<i>Molybdenum</i>	<i>Nickel</i>	<i>Selenium</i>	<i>Silver</i>	<i>Thallium</i>	<i>Vanadium</i>	<i>Zinc</i>	<i>Mercury</i>
	Results Reported as mg/kg																
B1-0.0	---	---	---	---	---	---	---	---	2.7	---	---	---	---	---	---	---	---
B1-4.5	<2.0	<1.0	27	<1.0	<1.0	2.0	1.3	2.5	2.5	<1.0	3.8	<1.0	1.7	<1.0	6.2	10	<0.10
B2-0.0	<2.0	<1.0	52	<1.0	<1.0	3.1	2.9	4.0	4.3	<1.0	9.2	<1.0	<1.0	<1.0	12	15	<0.10
B2-4.5	<2.0	1.5	120	<1.0	<1.0	5.0	4.6	12	88 (2.2)	<1.0	11	<1.0	<1.0	<1.0	23	33	<0.10
B3-0.0	<2.0	<1.0	17	<1.0	<1.0	1.3	<1.0	<2.0	1.8	<1.0	2.1	<1.0	<1.0	<1.0	4.4	9.3	<0.10
B3-4.5	<2.0	<1.0	17	<1.0	<1.0	1.0	<1.0	<2.0	1.1	<1.0	1.3	<1.0	<1.0	<1.0	3.2	8.1	<0.10
B4-0.0	---	---	---	---	---	---	---	---	1.5	---	---	---	---	---	---	---	---
B4-4.5	<2.0	<1.0	23	<1.0	<1.0	1.6	<1.0	<2.0	1.3	<1.0	2.4	<1.0	<1.0	<1.0	4.1	7.1	<0.10
B5-0.0	<2.0	1.0	36	<1.0	<1.0	2.3	1.5	3.6	5.0	<1.0	5.6	<1.0	<1.0	<1.0	9.3	16	<0.10
B5-4.5	<2.0	1.2	83	<1.0	<1.0	3.8	2.8	5.9	31	<1.0	7.7	<1.0	<1.0	<1.0	10	38	<0.10
B6-0.0	<2.0	<1.0	28	<1.0	<1.0	2.7	1.8	3.4	3.1	<1.0	7.5	<1.0	<1.0	<1.0	10	12	<0.10
B6-4.5	<2.0	<1.0	26	<1.0	<1.0	2.2	1.2	2.2	<1.0	<1.0	6.3	<1.0	<1.0	<1.0	3.8	7.7	<0.10
B7-0.0	---	---	---	---	---	---	---	---	3.5	---	---	---	---	---	---	---	---
B7-4.5	<2.0	<1.0	52	<1.0	<1.0	<1.0	1.2	2.0	1.2	<1.0	1.8	<1.0	<1.0	<1.0	3.7	9.0	<0.10
B8-0.0	<2.0	1.1	28	<1.0	<1.0	2.5	1.7	4.3	33	<1.0	6.4	<1.0	<1.0	<1.0	6.0	18	<0.10
B8-4.5	<2.0	<1.0	12	<1.0	<1.0	1.2	<1.0	<2.0	1.9	<1.0	1.5	<1.0	<1.0	<1.0	3.5	2.6	<0.10
B9-0.0	<2.0	<1.0	32	<1.0	<1.0	2.1	<1.0	4.5	12	<1.0	5.5	<1.0	<1.0	<1.0	7.8	7.3	<0.10
B9-4.5	<2.0	<1.0	24	<1.0	<1.0	1.3	<1.0	<2.0	1.5	<1.0	1.8	<1.0	<1.0	<1.0	3.1	9.6	<0.10
B10-0.0	<2.0	1.3	55	<1.0	<1.0	3.1	2.6	3.6	5.6	<1.0	5.4	<1.0	<1.0	<1.0	13	25	<0.10
B10-4.5	<2.0	<1.0	66	<1.0	<1.0	2.0	2.5	2.8	1.4	<1.0	9.7	<1.0	<1.0	<1.0	8.8	11	<0.10
B11-0.0	<2.0	2.1	180	1.2	<1.0	11	14	13	9.1	<1.0	24	<1.0	<1.0	<1.0	58	57	<0.10
B11-4.5	<2.0	<1.0	23	<1.0	<1.0	2.2	<1.0	2.0	1.8	<1.0	2.1	<1.0	<1.0	<1.0	5.9	8.9	<0.10
B12-0.0	<2.0	1.3	100	<1.0	<1.0	3.7	4.2	3.7	4.1	<1.0	22	<1.0	<1.0	<1.0	15	22	<0.10

TABLE 2
 SUMMARY OF SOIL ANALYTICAL RESULTS - TITLE 22 METALS
 CRESTVIEW MAINTENANCE STATION
 MONO COUNTY, CALIFORNIA

Sample ID	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
Results Reported as mg/kg																	
B12-4.5	<2.0	1.9	220	1.4	<1.0	9.7	15	10	1.3	<1.0	25	<1.0	<1.0	<1.0	74	34	<0.10
B13-0.0	<2.0	1.0	90	<1.0	<1.0	52 (<1.0)	5.2	8.0	320 (<1.0)	<1.0	12	<1.0	<1.0	<1.0	22	130	<0.10
B13-4.5	<2.0	<1.0	47	<1.0	<1.0	2.8	1.6	3.5	16	<1.0	4.2	<1.0	<1.0	<1.0	7.7	35	<0.10
B15-0.0	<2.0	<1.0	160	<1.0	<1.0	7.6	11	8.7	6.8	<1.0	19	<1.0	<1.0	<1.0	51	34	<0.10
B15-3.5	<2.0	<1.0	37	<1.0	<1.0	2.3	2.3	2.4	1.3	<1.0	8.5	<1.0	<1.0	<1.0	11	10	<0.10
B16-0.0	---	---	---	---	---	---	---	---	1.4	---	---	---	---	---	---	---	---
B16-4.5	<2.0	<1.0	23	<1.0	<1.0	1.7	<1.0	2.1	1.9	<1.0	2.1	<1.0	<1.0	<1.0	5.3	10	<0.10
CHHSL (commercial/industrial)	380	0.24	63,000	190	7.5	100,000	3,200	38,000	320	4,800	16,000	4,800	4,800	63	6,700	100,000	180
TTLIC	500	500	10,000	75	100	2,500	8,000	2,500	1,000	3,500	2,000	100	500	700	2,400	5,000	20
10 x STLC	150	50	1,000	7.5	10	50	800	250	50	3,500	200	10	50	70	240	2,500	20
Published Background ¹	0.6	3.5	509	1.28	0.36	122	14.9	28.7	23.9	1.3	57	0.058	0.8	0.56	112	149	0.26

Notes:

B1-0.0

└── Sample depth in feet below ground surface (number pertains to top of sampling depth interval)

└── Boring identification

mg/kg = Milligrams per kilogram

< = Less than the laboratory reporting limits

CHHSLs = California Human Health Screening Levels

TTLIC = Total Threshold Limit Concentrations

STLC = Soluble Threshold Limit Concentrations

¹Background: Mean Concentration - Background Concentrations of Trace and Major Elements in California Soils, U.C. Calif., March 1996

--- = Not analyzed

Concentration in parenthesis is WET soluble result in milligrams per liter

TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS - PETROLEUM HYDROCARBONS
CRESTVIEW MAINTENANCE STATION
MONO COUNTY, CALIFORNIA

SAMPLE I.D.	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	BTEX (µg/kg)	MTBE (µg/kg)
B1-0.0	---	100	260	---	---
B1-4.5	<1.0	---	---	ND	<5.0
B2-0.0	---	64	180	---	---
B2-4.5	<1.0	---	---	ND	<5.0
B3-0.0	---	49	90	---	---
B3-4.5	<1.0	---	---	ND	<5.0
B4-0.0	---	520	1,600	---	---
B4-4.5	<1.0	---	---	ND	<5.0
B5-0.0	<1.0	3,400	8,100	ND	<5.0
B5-2.0	<1.0	5.6	7.9	ND	<5.0
B5-4.5	2.7	6,600	14,000	ND	<5.0
B6-0.0	---	3,700	11,000	---	---
B6-4.5	<1.0	---	---	ND	<5.0
B7-0.0	---	5,600	16,000	---	---
B7-4.5	<1.0	---	---	ND	<5.0
B8-0.0	---	110	340	---	---
B8-4.5	<1.0	---	---	ND	<5.0
B9-0.0	---	100	300	---	---
B9-4.5	<1.0	---	---	ND	<5.0
B10-0.0	---	51	110	---	---
B10-4.5	<1.0	---	---	ND	<5.0
B11-0.0	<1.0	1,900	5,800	ND	<5.0
B11-2.0	<1.0	3.8	6.2	ND	<5.0
B11-3.5	2.5	36,000	58,000	ND	<5.0
B11-4.5	<1.0	86	130	ND	<5.0

TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS - PETROLEUM HYDROCARBONS
CRESTVIEW MAINTENANCE STATION
MONO COUNTY, CALIFORNIA

SAMPLE I.D.	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	BTEX (µg/kg)	MTBE (µg/kg)
B12-0.0	---	5,300	20,000	---	---
B12-4.5	<1.0	---	---	ND	<5.0
B13-0.0	---	5,700	12,000	---	---
B13-4.5	<1.0	---	---	ND	<5.0
B15-0.0	---	4,800	12,000	---	---
B15-3.5	<1.0	---	---	ND	<5.0
B16-0.0	---	86	230	---	---
B16-4.5	<1.0	---	---	ND	<5.0
ESLs					
Commercial/Industrial Land Use	83	83	2,500	---	23
Construction Exposure Use	4,200	4,200	12,000	---	2,800,000

Notes:

GRO = Gasoline-range organics

DRO = Diesel-range organics

ORO = Motor oil-range organics

BTEX = Benzene, toluene, ethylbenzene, and total xylenes

MTBE = Methyl tert-butyl ether

< = Less than the laboratory reporting limit

ND = Not detected above the respective laboratory reporting limit

--- = Not analyzed

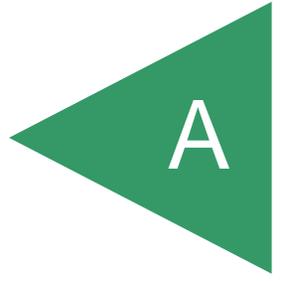
mg/kg = milligrams per kilogram

µg/kg = micrograms per kilogram

ESLs = Environmental Screening Levels, Tables A and K-3, SFRWQCB, revised May 2008

APPENDIX

A



June 22, 2012

Rebecca Silva
Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova, CA 95742
Tel: (916) 852-9118
Fax:(916) 852-9132



Re: ATL Work Order Number : 1202186
Client Reference : Crestview MS, S9525-06-51

Enclosed are the results for sample(s) received on June 14, 2012 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova , CA 95742

Project Number : Crestview MS, S9525-06-51
Report To : Rebecca Silva
Reported : 06/22/2012

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B1-0.0	1202186-01	Soil	6/11/12 12:20	6/14/12 8:13
B1-4.5	1202186-03	Soil	6/11/12 12:23	6/14/12 8:13
B2-0.0	1202186-04	Soil	6/11/12 12:40	6/14/12 8:13
B2-4.5	1202186-06	Soil	6/11/12 12:43	6/14/12 8:13
B3-0.0	1202186-07	Soil	6/11/12 13:00	6/14/12 8:13
B3-4.5	1202186-09	Soil	6/11/12 13:03	6/14/12 8:13
B4-0.0	1202186-10	Soil	6/11/12 13:15	6/14/12 8:13
B4-4.5	1202186-12	Soil	6/11/12 13:18	6/14/12 8:13
B5-0.0	1202186-13	Soil	6/11/12 13:30	6/14/12 8:13
B5-2.0	1202186-14	Soil	6/11/12 13:31	6/14/12 8:13
B5-4.5	1202186-15	Soil	6/11/12 13:33	6/14/12 8:13
B6-0.0	1202186-16	Soil	6/11/12 13:45	6/14/12 8:13
B6-4.5	1202186-18	Soil	6/11/12 13:48	6/14/12 8:13
B7-0.0	1202186-19	Soil	6/11/12 14:00	6/14/12 8:13
B7-4.5	1202186-21	Soil	6/11/12 14:03	6/14/12 8:13
B8-0.0	1202186-22	Soil	6/11/12 14:20	6/14/12 8:13
B8-4.5	1202186-24	Soil	6/11/12 14:23	6/14/12 8:13
B9-0.0	1202186-25	Soil	6/11/12 14:30	6/14/12 8:13
B9-4.5	1202186-27	Soil	6/11/12 14:33	6/14/12 8:13
B10-0.0	1202186-28	Soil	6/12/12 7:10	6/14/12 8:13
B10-4.5	1202186-30	Soil	6/12/12 7:13	6/14/12 8:13
B11-0.0	1202186-31	Soil	6/12/12 7:30	6/14/12 8:13
B11-2.0	1202186-32	Soil	6/12/12 7:31	6/14/12 8:13
B11-4.5	1202186-33	Soil	6/12/12 7:33	6/14/12 8:13
B12-0.0	1202186-34	Soil	6/12/12 7:55	6/14/12 8:13
B12-4.5	1202186-36	Soil	6/12/12 7:58	6/14/12 8:13
B13-0.0	1202186-37	Soil	6/12/12 8:20	6/14/12 8:13
B13-4.5	1202186-39	Soil	6/12/12 8:23	6/14/12 8:13
B15-0.0	1202186-40	Soil	6/12/12 9:05	6/14/12 8:13
B15-3.5	1202186-42	Soil	6/12/12 9:08	6/14/12 8:13
B16-0.0	1202186-43	Soil	6/12/12 9:20	6/14/12 8:13
B16-4.5	1202186-45	Soil	6/12/12 9:23	6/14/12 8:13
B11-3.5	1202186-46	Soil	6/12/12 7:32	6/14/12 8:13



Geocon Consultants, Inc.
 3160 Gold Valley Drive, Suite 800
 Rancho Cordova , CA 95742

Project Number : Crestview MS, S9525-06-51

Report To : Rebecca Silva

Reported : 06/22/2012

Client Sample ID B1-0.0

Lab ID: 1202186-01

Lead by ICP-AES EPA 6010B

Analyst: KK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	2.7	1.0	NA	1	B2F0473	06/15/2012	06/18/12 12:22	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	100	4.0	NA	2	B2F0508	06/18/2012	06/18/12 15:15	
ORO	260	4.0	NA	2	B2F0508	06/18/2012	06/18/12 15:15	
<i>Surrogate: p-Terphenyl</i>	85.2 %		39 - 123		B2F0508	06/18/2012	06/18/12 15:15	



Geocon Consultants, Inc.
 3160 Gold Valley Drive, Suite 800
 Rancho Cordova, CA 95742

Project Number : Crestview MS, S9525-06-51

Report To : Rebecca Silva

Reported : 06/22/2012

Client Sample ID B1-4.5

Lab ID: 1202186-03

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B2F0474	06/15/2012	06/18/12 12:48	
Arsenic	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:48	
Barium	27	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:48	
Beryllium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:48	
Cadmium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:48	
Chromium	2.0	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:48	
Cobalt	1.3	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:48	
Copper	2.5	2.0	NA	1	B2F0474	06/15/2012	06/18/12 12:48	
Lead	2.5	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:48	
Molybdenum	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:48	
Nickel	3.8	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:48	
Selenium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:48	
Silver	1.7	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:48	
Thallium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:48	
Vanadium	6.2	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:48	
Zinc	10	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:48	

Mercury by AA (Cold Vapor) EPA 7471

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B2F0551	06/19/2012	06/20/12 11:41	

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B2F0444	06/15/2012	06/15/12 17:39	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>131 %</i>		<i>69 - 158</i>		B2F0444	06/15/2012	<i>06/15/12 17:39</i>	

BTEX/MTBE by EPA 8021

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 17:39	
Benzene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 17:39	
Toluene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 17:39	



Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
Rancho Cordova , CA 95742

Project Number : Crestview MS, S9525-06-51
Report To : Rebecca Silva
Reported : 06/22/2012

Client Sample ID B1-4.5
Lab ID: 1202186-03

BTEX/MTBE by EPA 8021

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Ethylbenzene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 17:39	
m,p-Xylene	ND	10	NA	1	B2F0444	06/15/2012	06/15/12 17:39	
o-Xylene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 17:39	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>126 %</i>		<i>65 - 140</i>		B2F0444	06/15/2012	<i>06/15/12 17:39</i>	



Geocon Consultants, Inc.
 3160 Gold Valley Drive, Suite 800
 Rancho Cordova , CA 95742

Project Number : Crestview MS, S9525-06-51

Report To : Rebecca Silva

Reported : 06/22/2012

Client Sample ID B2-0.0

Lab ID: 1202186-04

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B2F0474	06/15/2012	06/18/12 12:49	
Arsenic	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:49	
Barium	52	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:49	
Beryllium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:49	
Cadmium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:49	
Chromium	3.1	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:49	
Cobalt	2.9	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:49	
Copper	4.0	2.0	NA	1	B2F0474	06/15/2012	06/18/12 12:49	
Lead	4.3	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:49	
Molybdenum	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:49	
Nickel	9.2	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:49	
Selenium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:49	
Silver	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:49	
Thallium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:49	
Vanadium	12	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:49	
Zinc	15	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:49	

Mercury by AA (Cold Vapor) EPA 7471

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B2F0551	06/19/2012	06/20/12 11:45	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	64	4.0	NA	2	B2F0508	06/18/2012	06/18/12 14:58	
ORO	180	4.0	NA	2	B2F0508	06/18/2012	06/18/12 14:58	
<i>Surrogate: p-Terphenyl</i>	<i>82.9 %</i>		<i>39 - 123</i>		B2F0508	06/18/2012	<i>06/18/12 14:58</i>	



Geocon Consultants, Inc.
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Project Number : Crestview MS, S9525-06-51

Report To : Rebecca Silva

Reported : 06/22/2012

Client Sample ID B2-4.5

Lab ID: 1202186-06

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B2F0474	06/15/2012	06/18/12 12:51	
Arsenic	1.5	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:51	
Barium	120	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:51	
Beryllium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:51	
Cadmium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:51	
Chromium	5.0	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:51	
Cobalt	4.6	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:51	
Copper	12	2.0	NA	1	B2F0474	06/15/2012	06/18/12 12:51	
Lead	88	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:51	
Molybdenum	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:51	
Nickel	11	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:51	
Selenium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:51	
Silver	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:51	
Thallium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:51	
Vanadium	23	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:51	
Zinc	33	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:51	

Mercury by AA (Cold Vapor) EPA 7471

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B2F0551	06/19/2012	06/20/12 11:47	

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B2F0444	06/15/2012	06/15/12 17:55	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>121 %</i>		<i>69 - 158</i>		B2F0444	06/15/2012	<i>06/15/12 17:55</i>	

BTEX/MTBE by EPA 8021

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 17:55	
Benzene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 17:55	
Toluene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 17:55	



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Project Number : Crestview MS, S9525-06-51
Report To : Rebecca Silva
Reported : 06/22/2012

Client Sample ID B2-4.5
Lab ID: 1202186-06

BTEX/MTBE by EPA 8021

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Ethylbenzene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 17:55	
m,p-Xylene	ND	10	NA	1	B2F0444	06/15/2012	06/15/12 17:55	
o-Xylene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 17:55	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>117 %</i>		<i>65 - 140</i>		B2F0444	06/15/2012	<i>06/15/12 17:55</i>	



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Project Number : Crestview MS, S9525-06-51

Report To : Rebecca Silva

Reported : 06/22/2012

Client Sample ID B3-0.0

Lab ID: 1202186-07

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B2F0474	06/15/2012	06/18/12 12:53	
Arsenic	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:53	
Barium	17	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:53	
Beryllium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:53	
Cadmium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:53	
Chromium	1.3	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:53	
Cobalt	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:53	
Copper	ND	2.0	NA	1	B2F0474	06/15/2012	06/18/12 12:53	
Lead	1.8	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:53	
Molybdenum	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:53	
Nickel	2.1	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:53	
Selenium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:53	
Silver	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:53	
Thallium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:53	
Vanadium	4.4	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:53	
Zinc	9.3	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:53	

Mercury by AA (Cold Vapor) EPA 7471

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B2F0551	06/19/2012	06/20/12 11:49	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	49	2.0	NA	1	B2F0508	06/18/2012	06/18/12 13:34	
ORO	90	2.0	NA	1	B2F0508	06/18/2012	06/18/12 13:34	
<i>Surrogate: p-Terphenyl</i>	<i>80.6 %</i>		<i>39 - 123</i>		B2F0508	06/18/2012	<i>06/18/12 13:34</i>	



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Project Number : Crestview MS, S9525-06-51

Report To : Rebecca Silva

Reported : 06/22/2012

Client Sample ID B3-4.5

Lab ID: 1202186-09

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B2F0474	06/15/2012	06/18/12 12:54	
Arsenic	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:54	
Barium	17	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:54	
Beryllium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:54	
Cadmium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:54	
Chromium	1.0	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:54	
Cobalt	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:54	
Copper	ND	2.0	NA	1	B2F0474	06/15/2012	06/18/12 12:54	
Lead	1.1	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:54	
Molybdenum	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:54	
Nickel	1.3	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:54	
Selenium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:54	
Silver	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:54	
Thallium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:54	
Vanadium	3.2	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:54	
Zinc	8.1	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:54	

Mercury by AA (Cold Vapor) EPA 7471

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B2F0551	06/19/2012	06/20/12 11:51	

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B2F0444	06/15/2012	06/15/12 19:18	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>95.6 %</i>		<i>69 - 158</i>		B2F0444	06/15/2012	<i>06/15/12 19:18</i>	

BTEX/MTBE by EPA 8021

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 19:18	
Benzene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 19:18	
Toluene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 19:18	



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Project Number : Crestview MS, S9525-06-51
Report To : Rebecca Silva
Reported : 06/22/2012

Client Sample ID B3-4.5
Lab ID: 1202186-09

BTEX/MTBE by EPA 8021

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Ethylbenzene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 19:18	
m,p-Xylene	ND	10	NA	1	B2F0444	06/15/2012	06/15/12 19:18	
o-Xylene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 19:18	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>92.6 %</i>		<i>65 - 140</i>		B2F0444	06/15/2012	<i>06/15/12 19:18</i>	



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Project Number : Crestview MS, S9525-06-51
 Report To : Rebecca Silva
 Reported : 06/22/2012

Client Sample ID B4-0.0
Lab ID: 1202186-10

Lead by ICP-AES EPA 6010B

Analyst: KK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	1.5	1.0	NA	1	B2F0473	06/15/2012	06/18/12 12:24	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	520	20	NA	10	B2F0508	06/18/2012	06/18/12 17:13	
ORO	1600	20	NA	10	B2F0508	06/18/2012	06/18/12 17:13	
<i>Surrogate: p-Terphenyl</i>	<i>40.0 %</i>		<i>39 - 123</i>		B2F0508	06/18/2012	<i>06/18/12 17:13</i>	



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Project Number : Crestview MS, S9525-06-51

Report To : Rebecca Silva

Reported : 06/22/2012

Client Sample ID B4-4.5

Lab ID: 1202186-12

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B2F0474	06/15/2012	06/18/12 12:56	
Arsenic	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:56	
Barium	23	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:56	
Beryllium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:56	
Cadmium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:56	
Chromium	1.6	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:56	
Cobalt	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:56	
Copper	ND	2.0	NA	1	B2F0474	06/15/2012	06/18/12 12:56	
Lead	1.3	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:56	
Molybdenum	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:56	
Nickel	2.4	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:56	
Selenium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:56	
Silver	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:56	
Thallium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:56	
Vanadium	4.1	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:56	
Zinc	7.1	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:56	

Mercury by AA (Cold Vapor) EPA 7471

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B2F0551	06/19/2012	06/20/12 11:57	

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B2F0444	06/15/2012	06/15/12 19:33	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>90.3 %</i>		<i>69 - 158</i>		B2F0444	06/15/2012	<i>06/15/12 19:33</i>	

BTEX/MTBE by EPA 8021

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 19:33	
Benzene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 19:33	
Toluene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 19:33	



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Project Number : Crestview MS, S9525-06-51
Report To : Rebecca Silva
Reported : 06/22/2012

Client Sample ID B4-4.5
Lab ID: 1202186-12

BTEX/MTBE by EPA 8021

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Ethylbenzene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 19:33	
m,p-Xylene	ND	10	NA	1	B2F0444	06/15/2012	06/15/12 19:33	
o-Xylene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 19:33	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>87.6 %</i>		<i>65 - 140</i>		B2F0444	06/15/2012	<i>06/15/12 19:33</i>	



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Project Number : Crestview MS, S9525-06-51

Report To : Rebecca Silva

Reported : 06/22/2012

Client Sample ID B5-0.0

Lab ID: 1202186-13

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B2F0474	06/15/2012	06/18/12 12:58	
Arsenic	1.0	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:58	
Barium	36	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:58	
Beryllium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:58	
Cadmium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:58	
Chromium	2.3	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:58	
Cobalt	1.5	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:58	
Copper	3.6	2.0	NA	1	B2F0474	06/15/2012	06/18/12 12:58	
Lead	5.0	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:58	
Molybdenum	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:58	
Nickel	5.6	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:58	
Selenium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:58	
Silver	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:58	
Thallium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:58	
Vanadium	9.3	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:58	
Zinc	16	1.0	NA	1	B2F0474	06/15/2012	06/18/12 12:58	

Mercury by AA (Cold Vapor) EPA 7471

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B2F0551	06/19/2012	06/20/12 11:59	

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B2F0444	06/15/2012	06/15/12 19:49	
<i>Surrogate: 4-Bromofluorobenzene</i>	88.7 %		69 - 158		B2F0444	06/15/2012	06/15/12 19:49	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	3400	100	NA	25	B2F0569	06/19/2012	06/20/12 10:41	
ORO	8100	100	NA	25	B2F0569	06/19/2012	06/20/12 10:41	
<i>Surrogate: p-Terphenyl</i>	0%		39 - 123		B2F0569	06/19/2012	06/20/12 10:41	S4



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Project Number : Crestview MS, S9525-06-51
Report To : Rebecca Silva
Reported : 06/22/2012

Client Sample ID B5-0.0
Lab ID: 1202186-13

BTEX/MTBE by EPA 8021

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 19:49	
Benzene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 19:49	
Toluene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 19:49	
Ethylbenzene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 19:49	
m,p-Xylene	ND	10	NA	1	B2F0444	06/15/2012	06/15/12 19:49	
o-Xylene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 19:49	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>86.1 %</i>		<i>65 - 140</i>		B2F0444	06/15/2012	<i>06/15/12 19:49</i>	



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Project Number : Crestview MS, S9525-06-51

Report To : Rebecca Silva

Reported : 06/22/2012

Client Sample ID B5-2.0

Lab ID: 1202186-14

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B2F0444	06/15/2012	06/15/12 20:04	
<i>Surrogate: 4-Bromofluorobenzene</i>	89.6 %		69 - 158		B2F0444	06/15/2012	06/15/12 20:04	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	5.6	1.0	NA	1	B2F0569	06/19/2012	06/20/12 07:46	
ORO	7.9	1.0	NA	1	B2F0569	06/19/2012	06/20/12 07:46	
<i>Surrogate: p-Terphenyl</i>	67.0 %		39 - 123		B2F0569	06/19/2012	06/20/12 07:46	

BTEX/MTBE by EPA 8021

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 20:04	
Benzene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 20:04	
Toluene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 20:04	
Ethylbenzene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 20:04	
m,p-Xylene	ND	10	NA	1	B2F0444	06/15/2012	06/15/12 20:04	
o-Xylene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 20:04	
<i>Surrogate: 4-Bromofluorobenzene</i>	86.2 %		65 - 140		B2F0444	06/15/2012	06/15/12 20:04	



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Project Number : Crestview MS, S9525-06-51
 Report To : Rebecca Silva
 Reported : 06/22/2012

Client Sample ID B5-4.5
Lab ID: 1202186-15

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B2F0474	06/15/2012	06/18/12 13:03	
Arsenic	1.2	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:03	
Barium	83	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:03	
Beryllium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:03	
Cadmium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:03	
Chromium	3.8	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:03	
Cobalt	2.8	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:03	
Copper	5.9	2.0	NA	1	B2F0474	06/15/2012	06/18/12 13:03	
Lead	31	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:03	
Molybdenum	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:03	
Nickel	7.7	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:03	
Selenium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:03	
Silver	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:03	
Thallium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:03	
Vanadium	10	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:03	
Zinc	38	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:03	

Mercury by AA (Cold Vapor) EPA 7471

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B2F0551	06/19/2012	06/20/12 12:01	

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	2.7	1.0	NA	1	B2F0444	06/15/2012	06/15/12 20:20	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>81.8 %</i>		<i>69 - 158</i>		B2F0444	06/15/2012	<i>06/15/12 20:20</i>	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	6600	200	NA	50	B2F0569	06/19/2012	06/20/12 10:24	
ORO	14000	200	NA	50	B2F0569	06/19/2012	06/20/12 10:24	
<i>Surrogate: p-Terphenyl</i>	<i>0%</i>		<i>39 - 123</i>		B2F0569	06/19/2012	<i>06/20/12 10:24</i>	S4



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Project Number : Crestview MS, S9525-06-51
Report To : Rebecca Silva
Reported : 06/22/2012

Client Sample ID B5-4.5
Lab ID: 1202186-15

BTEX/MTBE by EPA 8021

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 20:20	
Benzene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 20:20	
Toluene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 20:20	
Ethylbenzene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 20:20	
m,p-Xylene	ND	10	NA	1	B2F0444	06/15/2012	06/15/12 20:20	
o-Xylene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 20:20	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>77.3 %</i>		<i>65 - 140</i>		B2F0444	06/15/2012	<i>06/15/12 20:20</i>	



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Project Number : Crestview MS, S9525-06-51

Report To : Rebecca Silva

Reported : 06/22/2012

Client Sample ID B6-0.0

Lab ID: 1202186-16

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B2F0474	06/15/2012	06/18/12 13:05	
Arsenic	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:05	
Barium	28	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:05	
Beryllium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:05	
Cadmium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:05	
Chromium	2.7	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:05	
Cobalt	1.8	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:05	
Copper	3.4	2.0	NA	1	B2F0474	06/15/2012	06/18/12 13:05	
Lead	3.1	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:05	
Molybdenum	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:05	
Nickel	7.5	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:05	
Selenium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:05	
Silver	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:05	
Thallium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:05	
Vanadium	10	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:05	
Zinc	12	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:05	

Mercury by AA (Cold Vapor) EPA 7471

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B2F0551	06/19/2012	06/20/12 12:03	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	3700	200	NA	20	B2F0508	06/18/2012	06/18/12 17:46	
ORO	11000	200	NA	20	B2F0508	06/18/2012	06/18/12 17:46	
<i>Surrogate: p-Terphenyl</i>	<i>0%</i>		<i>39 - 123</i>		B2F0508	06/18/2012	<i>06/18/12 17:46</i>	S4



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Project Number : Crestview MS, S9525-06-51

Report To : Rebecca Silva

Reported : 06/22/2012

Client Sample ID B6-4.5

Lab ID: 1202186-18

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B2F0474	06/15/2012	06/18/12 13:06	
Arsenic	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:06	
Barium	26	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:06	
Beryllium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:06	
Cadmium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:06	
Chromium	2.2	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:06	
Cobalt	1.2	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:06	
Copper	2.2	2.0	NA	1	B2F0474	06/15/2012	06/18/12 13:06	
Lead	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:06	
Molybdenum	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:06	
Nickel	6.3	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:06	
Selenium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:06	
Silver	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:06	
Thallium	ND	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:06	
Vanadium	3.8	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:06	
Zinc	7.7	1.0	NA	1	B2F0474	06/15/2012	06/18/12 13:06	

Mercury by AA (Cold Vapor) EPA 7471

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B2F0551	06/19/2012	06/20/12 12:05	

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B2F0444	06/15/2012	06/15/12 20:35	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>108 %</i>		<i>69 - 158</i>		B2F0444	06/15/2012	<i>06/15/12 20:35</i>	

BTEX/MTBE by EPA 8021

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 20:35	
Benzene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 20:35	
Toluene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 20:35	



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Project Number : Crestview MS, S9525-06-51
Report To : Rebecca Silva
Reported : 06/22/2012

Client Sample ID B6-4.5
Lab ID: 1202186-18

BTEX/MTBE by EPA 8021

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Ethylbenzene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 20:35	
m,p-Xylene	ND	10	NA	1	B2F0444	06/15/2012	06/15/12 20:35	
o-Xylene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 20:35	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>104 %</i>		<i>65 - 140</i>		B2F0444	06/15/2012	<i>06/15/12 20:35</i>	



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Project Number : Crestview MS, S9525-06-51
 Report To : Rebecca Silva
 Reported : 06/22/2012

Client Sample ID B7-0.0
Lab ID: 1202186-19

Lead by ICP-AES EPA 6010B

Analyst: KK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	3.5	1.0	NA	1	B2F0473	06/15/2012	06/18/12 12:26	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	5600	250	NA	25	B2F0508	06/18/2012	06/18/12 18:03	
ORO	16000	250	NA	25	B2F0508	06/18/2012	06/18/12 18:03	
<i>Surrogate: p-Terphenyl</i>	<i>0%</i>	<i>39 - 123</i>			B2F0508	06/18/2012	<i>06/18/12 18:03</i>	S4



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Project Number : Crestview MS, S9525-06-51

Report To : Rebecca Silva

Reported : 06/22/2012

Client Sample ID B7-4.5

Lab ID: 1202186-21

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B2F0475	06/15/2012	06/18/12 13:17	
Arsenic	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 13:17	
Barium	52	1.0	NA	1	B2F0475	06/15/2012	06/18/12 13:17	
Beryllium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 13:17	
Cadmium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 13:17	
Chromium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 13:17	
Cobalt	1.2	1.0	NA	1	B2F0475	06/15/2012	06/18/12 13:17	
Copper	2.0	2.0	NA	1	B2F0475	06/15/2012	06/18/12 13:17	
Lead	1.2	1.0	NA	1	B2F0475	06/15/2012	06/18/12 13:17	
Molybdenum	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 13:17	
Nickel	1.8	1.0	NA	1	B2F0475	06/15/2012	06/18/12 13:17	
Selenium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 13:17	
Silver	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 13:17	
Thallium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 13:17	
Vanadium	3.7	1.0	NA	1	B2F0475	06/15/2012	06/18/12 13:17	
Zinc	9.0	1.0	NA	1	B2F0475	06/15/2012	06/18/12 13:17	

Mercury by AA (Cold Vapor) EPA 7471

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B2F0552	06/19/2012	06/20/12 12:22	

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B2F0444	06/15/2012	06/15/12 20:51	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>86.8 %</i>		<i>69 - 158</i>		B2F0444	06/15/2012	<i>06/15/12 20:51</i>	

BTEX/MTBE by EPA 8021

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 20:51	
Benzene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 20:51	
Toluene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 20:51	



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Project Number : Crestview MS, S9525-06-51
Report To : Rebecca Silva
Reported : 06/22/2012

Client Sample ID B7-4.5
Lab ID: 1202186-21

BTEX/MTBE by EPA 8021

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Ethylbenzene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 20:51	
m,p-Xylene	ND	10	NA	1	B2F0444	06/15/2012	06/15/12 20:51	
o-Xylene	ND	5.0	NA	1	B2F0444	06/15/2012	06/15/12 20:51	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>84.8 %</i>		<i>65 - 140</i>		B2F0444	06/15/2012	<i>06/15/12 20:51</i>	



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Project Number : Crestview MS, S9525-06-51

Report To : Rebecca Silva

Reported : 06/22/2012

Client Sample ID B8-0.0

Lab ID: 1202186-22

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B2F0475	06/15/2012	06/18/12 13:18	
Arsenic	1.1	1.0	NA	1	B2F0475	06/15/2012	06/18/12 13:18	
Barium	28	1.0	NA	1	B2F0475	06/15/2012	06/18/12 13:18	
Beryllium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 13:18	
Cadmium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 13:18	
Chromium	2.5	1.0	NA	1	B2F0475	06/15/2012	06/18/12 13:18	
Cobalt	1.7	1.0	NA	1	B2F0475	06/15/2012	06/18/12 13:18	
Copper	4.3	2.0	NA	1	B2F0475	06/15/2012	06/18/12 13:18	
Lead	33	1.0	NA	1	B2F0475	06/15/2012	06/18/12 13:18	
Molybdenum	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 13:18	
Nickel	6.4	1.0	NA	1	B2F0475	06/15/2012	06/18/12 13:18	
Selenium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 13:18	
Silver	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 13:18	
Thallium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 13:18	
Vanadium	6.0	1.0	NA	1	B2F0475	06/15/2012	06/18/12 13:18	
Zinc	18	1.0	NA	1	B2F0475	06/15/2012	06/18/12 13:18	

Mercury by AA (Cold Vapor) EPA 7471

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B2F0552	06/19/2012	06/20/12 12:26	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	110	4.0	NA	2	B2F0508	06/18/2012	06/18/12 15:32	
ORO	340	4.0	NA	2	B2F0508	06/18/2012	06/18/12 15:32	
<i>Surrogate: p-Terphenyl</i>	<i>88.6 %</i>		<i>39 - 123</i>		B2F0508	06/18/2012	<i>06/18/12 15:32</i>	



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Project Number : Crestview MS, S9525-06-51

Report To : Rebecca Silva

Reported : 06/22/2012

Client Sample ID B8-4.5

Lab ID: 1202186-24

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B2F0475	06/15/2012	06/18/12 14:01	
Arsenic	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:01	
Barium	12	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:01	
Beryllium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:01	
Cadmium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:01	
Chromium	1.2	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:01	
Cobalt	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:01	
Copper	ND	2.0	NA	1	B2F0475	06/15/2012	06/18/12 14:01	
Lead	1.9	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:01	
Molybdenum	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:01	
Nickel	1.5	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:01	
Selenium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:01	
Silver	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:01	
Thallium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:01	
Vanadium	3.5	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:01	
Zinc	2.6	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:01	

Mercury by AA (Cold Vapor) EPA 7471

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B2F0552	06/19/2012	06/20/12 12:28	

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B2F0488	06/15/2012	06/15/12 23:41	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>95.1 %</i>		<i>69 - 158</i>		B2F0488	06/15/2012	<i>06/15/12 23:41</i>	

BTEX/MTBE by EPA 8021

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE	ND	5.0	NA	1	B2F0488	06/15/2012	06/15/12 23:41	
Benzene	ND	5.0	NA	1	B2F0488	06/15/2012	06/15/12 23:41	
Toluene	ND	5.0	NA	1	B2F0488	06/15/2012	06/15/12 23:41	



Geocon Consultants, Inc.
3160 Gold Valley Drive, Suite 800
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Project Number : Crestview MS, S9525-06-51
Report To : Rebecca Silva
Reported : 06/22/2012

Client Sample ID B8-4.5
Lab ID: 1202186-24

BTEX/MTBE by EPA 8021

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Ethylbenzene	ND	5.0	NA	1	B2F0488	06/15/2012	06/15/12 23:41	
m,p-Xylene	ND	10	NA	1	B2F0488	06/15/2012	06/15/12 23:41	
o-Xylene	ND	5.0	NA	1	B2F0488	06/15/2012	06/15/12 23:41	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>92.5 %</i>		<i>65 - 140</i>		B2F0488	06/15/2012	<i>06/15/12 23:41</i>	



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Project Number : Crestview MS, S9525-06-51

Report To : Rebecca Silva

Reported : 06/22/2012

Client Sample ID B9-0.0

Lab ID: 1202186-25

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B2F0475	06/15/2012	06/18/12 14:03	
Arsenic	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:03	
Barium	32	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:03	
Beryllium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:03	
Cadmium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:03	
Chromium	2.1	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:03	
Cobalt	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:03	
Copper	4.5	2.0	NA	1	B2F0475	06/15/2012	06/18/12 14:03	
Lead	12	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:03	
Molybdenum	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:03	
Nickel	5.5	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:03	
Selenium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:03	
Silver	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:03	
Thallium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:03	
Vanadium	7.8	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:03	
Zinc	7.3	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:03	

Mercury by AA (Cold Vapor) EPA 7471

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B2F0552	06/19/2012	06/20/12 12:30	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	100	4.0	NA	2	B2F0508	06/18/2012	06/18/12 15:49	
ORO	300	4.0	NA	2	B2F0508	06/18/2012	06/18/12 15:49	
<i>Surrogate: p-Terphenyl</i>	<i>89.9 %</i>		<i>39 - 123</i>		B2F0508	06/18/2012	<i>06/18/12 15:49</i>	



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Project Number : Crestview MS, S9525-06-51

Report To : Rebecca Silva

Reported : 06/22/2012

Client Sample ID B9-4.5

Lab ID: 1202186-27

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B2F0475	06/15/2012	06/18/12 14:11	
Arsenic	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:11	
Barium	24	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:11	
Beryllium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:11	
Cadmium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:11	
Chromium	1.3	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:11	
Cobalt	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:11	
Copper	ND	2.0	NA	1	B2F0475	06/15/2012	06/18/12 14:11	
Lead	1.5	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:11	
Molybdenum	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:11	
Nickel	1.8	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:11	
Selenium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:11	
Silver	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:11	
Thallium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:11	
Vanadium	3.1	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:11	
Zinc	9.6	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:11	

Mercury by AA (Cold Vapor) EPA 7471

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B2F0552	06/19/2012	06/20/12 12:32	

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B2F0488	06/15/2012	06/15/12 23:57	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>95.4 %</i>		<i>69 - 158</i>		B2F0488	06/15/2012	<i>06/15/12 23:57</i>	

BTEX/MTBE by EPA 8021

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE	ND	5.0	NA	1	B2F0488	06/15/2012	06/15/12 23:57	
Benzene	ND	5.0	NA	1	B2F0488	06/15/2012	06/15/12 23:57	
Toluene	ND	5.0	NA	1	B2F0488	06/15/2012	06/15/12 23:57	



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Project Number : Crestview MS, S9525-06-51
Report To : Rebecca Silva
Reported : 06/22/2012

Client Sample ID B9-4.5
Lab ID: 1202186-27

BTEX/MTBE by EPA 8021

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Ethylbenzene	ND	5.0	NA	1	B2F0488	06/15/2012	06/15/12 23:57	
m,p-Xylene	ND	10	NA	1	B2F0488	06/15/2012	06/15/12 23:57	
o-Xylene	ND	5.0	NA	1	B2F0488	06/15/2012	06/15/12 23:57	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>92.9 %</i>		<i>65 - 140</i>		B2F0488	06/15/2012	<i>06/15/12 23:57</i>	



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Project Number : Crestview MS, S9525-06-51
 Report To : Rebecca Silva
 Reported : 06/22/2012

Client Sample ID B10-0.0
Lab ID: 1202186-28

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B2F0475	06/15/2012	06/18/12 14:13	
Arsenic	1.3	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:13	
Barium	55	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:13	
Beryllium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:13	
Cadmium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:13	
Chromium	3.1	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:13	
Cobalt	2.6	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:13	
Copper	3.6	2.0	NA	1	B2F0475	06/15/2012	06/18/12 14:13	
Lead	5.6	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:13	
Molybdenum	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:13	
Nickel	5.4	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:13	
Selenium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:13	
Silver	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:13	
Thallium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:13	
Vanadium	13	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:13	
Zinc	25	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:13	

Mercury by AA (Cold Vapor) EPA 7471

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B2F0552	06/19/2012	06/20/12 12:34	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	51	2.0	NA	1	B2F0508	06/18/2012	06/18/12 13:51	
ORO	110	2.0	NA	1	B2F0508	06/18/2012	06/18/12 13:51	
<i>Surrogate: p-Terphenyl</i>	<i>76.0 %</i>		<i>39 - 123</i>		B2F0508	06/18/2012	<i>06/18/12 13:51</i>	



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Project Number : Crestview MS, S9525-06-51
 Report To : Rebecca Silva
 Reported : 06/22/2012

Client Sample ID B10-4.5
Lab ID: 1202186-30

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B2F0475	06/15/2012	06/18/12 14:15	
Arsenic	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:15	
Barium	66	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:15	
Beryllium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:15	
Cadmium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:15	
Chromium	2.0	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:15	
Cobalt	2.5	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:15	
Copper	2.8	2.0	NA	1	B2F0475	06/15/2012	06/18/12 14:15	
Lead	1.4	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:15	
Molybdenum	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:15	
Nickel	9.7	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:15	
Selenium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:15	
Silver	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:15	
Thallium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:15	
Vanadium	8.8	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:15	
Zinc	11	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:15	

Mercury by AA (Cold Vapor) EPA 7471

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B2F0552	06/19/2012	06/20/12 12:36	

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B2F0488	06/16/2012	06/16/12 00:28	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>96.6 %</i>		<i>69 - 158</i>		B2F0488	06/16/2012	<i>06/16/12 00:28</i>	

BTEX/MTBE by EPA 8021

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 00:28	
Benzene	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 00:28	
Toluene	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 00:28	



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Project Number : Crestview MS, S9525-06-51
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Client Sample ID B10-4.5
Lab ID: 1202186-30

BTEX/MTBE by EPA 8021

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Ethylbenzene	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 00:28	
m,p-Xylene	ND	10	NA	1	B2F0488	06/16/2012	06/16/12 00:28	
o-Xylene	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 00:28	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>93.8 %</i>		<i>65 - 140</i>		B2F0488	06/16/2012	<i>06/16/12 00:28</i>	



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Project Number : Crestview MS, S9525-06-51

Report To : Rebecca Silva

Reported : 06/22/2012

Client Sample ID B11-0.0

Lab ID: 1202186-31

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B2F0475	06/15/2012	06/18/12 14:16	
Arsenic	2.1	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:16	
Barium	180	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:16	
Beryllium	1.2	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:16	
Cadmium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:16	
Chromium	11	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:16	
Cobalt	14	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:16	
Copper	13	2.0	NA	1	B2F0475	06/15/2012	06/18/12 14:16	
Lead	9.1	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:16	
Molybdenum	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:16	
Nickel	24	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:16	
Selenium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:16	
Silver	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:16	
Thallium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:16	
Vanadium	58	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:16	
Zinc	57	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:16	

Mercury by AA (Cold Vapor) EPA 7471

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B2F0552	06/19/2012	06/20/12 12:38	

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B2F0488	06/16/2012	06/16/12 00:43	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>95.7 %</i>		<i>69 - 158</i>		B2F0488	06/16/2012	<i>06/16/12 00:43</i>	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	1900	100	NA	25	B2F0569	06/19/2012	06/20/12 09:18	
ORO	5800	100	NA	25	B2F0569	06/19/2012	06/20/12 09:18	
<i>Surrogate: p-Terphenyl</i>	<i>0%</i>		<i>39 - 123</i>		B2F0569	06/19/2012	<i>06/20/12 09:18</i>	S4



Geocon Consultants, Inc.
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Project Number : Crestview MS, S9525-06-51
Report To : Rebecca Silva
Reported : 06/22/2012

Client Sample ID B11-0.0
Lab ID: 1202186-31

BTEX/MTBE by EPA 8021

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 00:43	
Benzene	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 00:43	
Toluene	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 00:43	
Ethylbenzene	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 00:43	
m,p-Xylene	ND	10	NA	1	B2F0488	06/16/2012	06/16/12 00:43	
o-Xylene	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 00:43	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>93.5 %</i>		<i>65 - 140</i>		B2F0488	06/16/2012	<i>06/16/12 00:43</i>	



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Project Number : Crestview MS, S9525-06-51
 Report To : Rebecca Silva
 Reported : 06/22/2012

Client Sample ID B11-2.0
Lab ID: 1202186-32

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B2F0488	06/16/2012	06/16/12 00:59	
<i>Surrogate: 4-Bromofluorobenzene</i>	95.1 %		69 - 158		B2F0488	06/16/2012	06/16/12 00:59	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	3.8	1.0	NA	1	B2F0569	06/19/2012	06/20/12 07:30	
ORO	6.2	1.0	NA	1	B2F0569	06/19/2012	06/20/12 07:30	
<i>Surrogate: p-Terphenyl</i>	87.4 %		39 - 123		B2F0569	06/19/2012	06/20/12 07:30	

BTEX/MTBE by EPA 8021

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 00:59	
Benzene	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 00:59	
Toluene	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 00:59	
Ethylbenzene	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 00:59	
m,p-Xylene	ND	10	NA	1	B2F0488	06/16/2012	06/16/12 00:59	
o-Xylene	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 00:59	
<i>Surrogate: 4-Bromofluorobenzene</i>	92.7 %		65 - 140		B2F0488	06/16/2012	06/16/12 00:59	



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Project Number : Crestview MS, S9525-06-51

Report To : Rebecca Silva

Reported : 06/22/2012

Client Sample ID B11-4.5

Lab ID: 1202186-33

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B2F0475	06/15/2012	06/18/12 14:17	
Arsenic	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:17	
Barium	23	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:17	
Beryllium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:17	
Cadmium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:17	
Chromium	2.2	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:17	
Cobalt	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:17	
Copper	2.0	2.0	NA	1	B2F0475	06/15/2012	06/18/12 14:17	
Lead	1.8	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:17	
Molybdenum	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:17	
Nickel	2.1	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:17	
Selenium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:17	
Silver	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:17	
Thallium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:17	
Vanadium	5.9	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:17	
Zinc	8.9	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:17	

Mercury by AA (Cold Vapor) EPA 7471

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B2F0552	06/19/2012	06/20/12 12:40	

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B2F0488	06/16/2012	06/16/12 01:15	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>103 %</i>		<i>69 - 158</i>		B2F0488	06/16/2012	<i>06/16/12 01:15</i>	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	86	1.0	NA	1	B2F0569	06/19/2012	06/20/12 08:03	
ORO	130	1.0	NA	1	B2F0569	06/19/2012	06/20/12 08:03	
<i>Surrogate: p-Terphenyl</i>	<i>90.4 %</i>		<i>39 - 123</i>		B2F0569	06/19/2012	<i>06/20/12 08:03</i>	



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Project Number : Crestview MS, S9525-06-51
Report To : Rebecca Silva
Reported : 06/22/2012

Client Sample ID B11-4.5
Lab ID: 1202186-33

BTEX/MTBE by EPA 8021

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 01:15	
Benzene	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 01:15	
Toluene	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 01:15	
Ethylbenzene	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 01:15	
m,p-Xylene	ND	10	NA	1	B2F0488	06/16/2012	06/16/12 01:15	
o-Xylene	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 01:15	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>99.9 %</i>		<i>65 - 140</i>		B2F0488	06/16/2012	<i>06/16/12 01:15</i>	



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Project Number : Crestview MS, S9525-06-51
 Report To : Rebecca Silva
 Reported : 06/22/2012

Client Sample ID B12-0.0
Lab ID: 1202186-34

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B2F0475	06/15/2012	06/18/12 14:19	
Arsenic	1.3	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:19	
Barium	100	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:19	
Beryllium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:19	
Cadmium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:19	
Chromium	3.7	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:19	
Cobalt	4.2	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:19	
Copper	3.7	2.0	NA	1	B2F0475	06/15/2012	06/18/12 14:19	
Lead	4.1	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:19	
Molybdenum	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:19	
Nickel	22	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:19	
Selenium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:19	
Silver	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:19	
Thallium	ND	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:19	
Vanadium	15	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:19	
Zinc	22	1.0	NA	1	B2F0475	06/15/2012	06/18/12 14:19	

Mercury by AA (Cold Vapor) EPA 7471

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B2F0552	06/19/2012	06/20/12 12:47	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	5300	200	NA	20	B2F0508	06/18/2012	06/18/12 17:30	
ORO	20000	200	NA	20	B2F0508	06/18/2012	06/18/12 17:30	
<i>Surrogate: p-Terphenyl</i>	<i>0%</i>		<i>39 - 123</i>		B2F0508	06/18/2012	<i>06/18/12 17:30</i>	S4



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Project Number : Crestview MS, S9525-06-51

Report To : Rebecca Silva

Reported : 06/22/2012

Client Sample ID B12-4.5

Lab ID: 1202186-36

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B2F0476	06/15/2012	06/18/12 14:33	
Arsenic	1.9	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:33	
Barium	220	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:33	
Beryllium	1.4	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:33	
Cadmium	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:33	
Chromium	9.7	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:33	
Cobalt	15	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:33	
Copper	10	2.0	NA	1	B2F0476	06/15/2012	06/18/12 14:33	
Lead	1.3	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:33	
Molybdenum	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:33	
Nickel	25	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:33	
Selenium	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:33	
Silver	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:33	
Thallium	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:33	
Vanadium	74	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:33	
Zinc	34	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:33	

Mercury by AA (Cold Vapor) EPA 7471

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B2F0553	06/19/2012	06/20/12 12:59	

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B2F0488	06/16/2012	06/16/12 01:30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>89.6 %</i>		<i>69 - 158</i>		B2F0488	06/16/2012	<i>06/16/12 01:30</i>	

BTEX/MTBE by EPA 8021

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 01:30	
Benzene	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 01:30	
Toluene	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 01:30	



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Project Number : Crestview MS, S9525-06-51
Report To : Rebecca Silva
Reported : 06/22/2012

Client Sample ID B12-4.5
Lab ID: 1202186-36

BTEX/MTBE by EPA 8021

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Ethylbenzene	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 01:30	
m,p-Xylene	ND	10	NA	1	B2F0488	06/16/2012	06/16/12 01:30	
o-Xylene	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 01:30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>87.4 %</i>		<i>65 - 140</i>		B2F0488	06/16/2012	<i>06/16/12 01:30</i>	



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Project Number : Crestview MS, S9525-06-51
 Report To : Rebecca Silva
 Reported : 06/22/2012

Client Sample ID B13-0.0
Lab ID: 1202186-37

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B2F0476	06/15/2012	06/18/12 14:35	
Arsenic	1.0	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:35	
Barium	90	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:35	
Beryllium	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:35	
Cadmium	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:35	
Chromium	52	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:35	
Cobalt	5.2	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:35	
Copper	8.0	2.0	NA	1	B2F0476	06/15/2012	06/18/12 14:35	
Lead	320	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:35	
Molybdenum	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:35	
Nickel	12	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:35	
Selenium	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:35	
Silver	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:35	
Thallium	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:35	
Vanadium	22	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:35	
Zinc	130	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:35	

Mercury by AA (Cold Vapor) EPA 7471

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B2F0553	06/19/2012	06/20/12 13:03	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	5700	100	NA	25	B2F0569	06/19/2012	06/20/12 09:34	
ORO	12000	100	NA	25	B2F0569	06/19/2012	06/20/12 09:34	
<i>Surrogate: p-Terphenyl</i>	<i>0%</i>		<i>39 - 123</i>		B2F0569	06/19/2012	<i>06/20/12 09:34</i>	S4



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Project Number : Crestview MS, S9525-06-51

Report To : Rebecca Silva

Reported : 06/22/2012

Client Sample ID B13-4.5

Lab ID: 1202186-39

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B2F0476	06/15/2012	06/18/12 14:36	
Arsenic	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:36	
Barium	47	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:36	
Beryllium	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:36	
Cadmium	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:36	
Chromium	2.8	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:36	
Cobalt	1.6	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:36	
Copper	3.5	2.0	NA	1	B2F0476	06/15/2012	06/18/12 14:36	
Lead	16	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:36	
Molybdenum	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:36	
Nickel	4.2	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:36	
Selenium	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:36	
Silver	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:36	
Thallium	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:36	
Vanadium	7.7	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:36	
Zinc	35	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:36	

Mercury by AA (Cold Vapor) EPA 7471

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B2F0553	06/19/2012	06/20/12 13:05	

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B2F0488	06/16/2012	06/16/12 01:46	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>95.2 %</i>		<i>69 - 158</i>		B2F0488	06/16/2012	<i>06/16/12 01:46</i>	

BTEX/MTBE by EPA 8021

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 01:46	
Benzene	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 01:46	
Toluene	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 01:46	



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Project Number : Crestview MS, S9525-06-51
Report To : Rebecca Silva
Reported : 06/22/2012

Client Sample ID B13-4.5
Lab ID: 1202186-39

BTEX/MTBE by EPA 8021

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Ethylbenzene	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 01:46	
m,p-Xylene	ND	10	NA	1	B2F0488	06/16/2012	06/16/12 01:46	
o-Xylene	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 01:46	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>92.6 %</i>		<i>65 - 140</i>		B2F0488	06/16/2012	<i>06/16/12 01:46</i>	



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Project Number : Crestview MS, S9525-06-51

Report To : Rebecca Silva

Reported : 06/22/2012

Client Sample ID B15-0.0

Lab ID: 1202186-40

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B2F0476	06/15/2012	06/18/12 14:38	
Arsenic	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:38	
Barium	160	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:38	
Beryllium	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:38	
Cadmium	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:38	
Chromium	7.6	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:38	
Cobalt	11	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:38	
Copper	8.7	2.0	NA	1	B2F0476	06/15/2012	06/18/12 14:38	
Lead	6.8	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:38	
Molybdenum	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:38	
Nickel	19	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:38	
Selenium	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:38	
Silver	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:38	
Thallium	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:38	
Vanadium	51	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:38	
Zinc	34	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:38	

Mercury by AA (Cold Vapor) EPA 7471

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B2F0553	06/19/2012	06/20/12 13:14	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	4800	100	NA	25	B2F0569	06/19/2012	06/20/12 09:51	
ORO	12000	100	NA	25	B2F0569	06/19/2012	06/20/12 09:51	
<i>Surrogate: p-Terphenyl</i>	<i>0%</i>		<i>39 - 123</i>		B2F0569	06/19/2012	<i>06/20/12 09:51</i>	S4



Geocon Consultants, Inc.
 3160 Gold Valley Drive, Suite 800
 Rancho Cordova, CA 95742

Project Number : Crestview MS, S9525-06-51

Report To : Rebecca Silva

Reported : 06/22/2012

Client Sample ID B15-3.5

Lab ID: 1202186-42

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B2F0476	06/15/2012	06/18/12 14:39	
Arsenic	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:39	
Barium	37	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:39	
Beryllium	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:39	
Cadmium	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:39	
Chromium	2.3	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:39	
Cobalt	2.3	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:39	
Copper	2.4	2.0	NA	1	B2F0476	06/15/2012	06/18/12 14:39	
Lead	1.3	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:39	
Molybdenum	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:39	
Nickel	8.5	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:39	
Selenium	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:39	
Silver	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:39	
Thallium	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:39	
Vanadium	11	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:39	
Zinc	10	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:39	

Mercury by AA (Cold Vapor) EPA 7471

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B2F0553	06/19/2012	06/20/12 13:16	

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B2F0488	06/16/2012	06/16/12 02:01	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>72.9 %</i>		<i>69 - 158</i>		B2F0488	06/16/2012	<i>06/16/12 02:01</i>	

BTEX/MTBE by EPA 8021

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 02:01	
Benzene	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 02:01	
Toluene	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 02:01	



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Project Number : Crestview MS, S9525-06-51
Report To : Rebecca Silva
Reported : 06/22/2012

Client Sample ID B15-3.5
Lab ID: 1202186-42

BTEX/MTBE by EPA 8021

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Ethylbenzene	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 02:01	
m,p-Xylene	ND	10	NA	1	B2F0488	06/16/2012	06/16/12 02:01	
o-Xylene	ND	5.0	NA	1	B2F0488	06/16/2012	06/16/12 02:01	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>71.0 %</i>		<i>65 - 140</i>		B2F0488	06/16/2012	<i>06/16/12 02:01</i>	



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Project Number : Crestview MS, S9525-06-51
 Report To : Rebecca Silva
 Reported : 06/22/2012

Client Sample ID B16-0.0
Lab ID: 1202186-43

Lead by ICP-AES EPA 6010B

Analyst: KK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	1.4	1.0	NA	1	B2F0473	06/15/2012	06/18/12 12:27	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	86	2.0	NA	1	B2F0569	06/19/2012	06/20/12 08:19	
ORO	230	2.0	NA	1	B2F0569	06/19/2012	06/20/12 08:19	
<i>Surrogate: p-Terphenyl</i>	<i>81.8 %</i>		<i>39 - 123</i>		B2F0569	06/19/2012	<i>06/20/12 08:19</i>	



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Project Number : Crestview MS, S9525-06-51

Report To : Rebecca Silva

Reported : 06/22/2012

Client Sample ID B16-4.5

Lab ID: 1202186-45

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B2F0476	06/15/2012	06/18/12 14:41	
Arsenic	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:41	
Barium	23	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:41	
Beryllium	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:41	
Cadmium	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:41	
Chromium	1.7	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:41	
Cobalt	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:41	
Copper	2.1	2.0	NA	1	B2F0476	06/15/2012	06/18/12 14:41	
Lead	1.9	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:41	
Molybdenum	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:41	
Nickel	2.1	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:41	
Selenium	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:41	
Silver	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:41	
Thallium	ND	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:41	
Vanadium	5.3	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:41	
Zinc	10	1.0	NA	1	B2F0476	06/15/2012	06/18/12 14:41	

Mercury by AA (Cold Vapor) EPA 7471

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B2F0553	06/19/2012	06/20/12 13:18	

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	NA	1	B2F0507	06/18/2012	06/18/12 12:00	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>103 %</i>		<i>69 - 158</i>		B2F0507	06/18/2012	<i>06/18/12 12:00</i>	

BTEX/MTBE by EPA 8021

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE	ND	5.0	NA	1	B2F0507	06/18/2012	06/18/12 12:00	
Benzene	ND	5.0	NA	1	B2F0507	06/18/2012	06/18/12 12:00	
Toluene	ND	5.0	NA	1	B2F0507	06/18/2012	06/18/12 12:00	



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Project Number : Crestview MS, S9525-06-51
Report To : Rebecca Silva
Reported : 06/22/2012

Client Sample ID B16-4.5
Lab ID: 1202186-45

BTEX/MTBE by EPA 8021

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Ethylbenzene	ND	5.0	NA	1	B2F0507	06/18/2012	06/18/12 12:00	
m,p-Xylene	ND	10	NA	1	B2F0507	06/18/2012	06/18/12 12:00	
o-Xylene	ND	5.0	NA	1	B2F0507	06/18/2012	06/18/12 12:00	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>98.4 %</i>		<i>65 - 140</i>		B2F0507	06/18/2012	<i>06/18/12 12:00</i>	



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Project Number : Crestview MS, S9525-06-51
 Report To : Rebecca Silva
 Reported : 06/22/2012

Client Sample ID B11-3.5
Lab ID: 1202186-46

Gasoline Range Organics by EPA 8015B

Analyst: TP

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	2.5	1.0	NA	1	B2F0507	06/18/2012	06/18/12 14:51	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>124 %</i>		<i>69 - 158</i>		B2F0507	06/18/2012	<i>06/18/12 14:51</i>	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	36000	500	NA	50	B2F0569	06/19/2012	06/20/12 10:08	
ORO	58000	500	NA	50	B2F0569	06/19/2012	06/20/12 10:08	
<i>Surrogate: p-Terphenyl</i>	<i>0%</i>		<i>39 - 123</i>		B2F0569	06/19/2012	<i>06/20/12 10:08</i>	S4

BTEX/MTBE by EPA 8021

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
MTBE	ND	5.0	NA	1	B2F0507	06/18/2012	06/18/12 14:51	
Benzene	ND	5.0	NA	1	B2F0507	06/18/2012	06/18/12 14:51	
Toluene	ND	5.0	NA	1	B2F0507	06/18/2012	06/18/12 14:51	
Ethylbenzene	ND	5.0	NA	1	B2F0507	06/18/2012	06/18/12 14:51	
m,p-Xylene	ND	10	NA	1	B2F0507	06/18/2012	06/18/12 14:51	
o-Xylene	ND	5.0	NA	1	B2F0507	06/18/2012	06/18/12 14:51	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>91.7 %</i>		<i>65 - 140</i>		B2F0507	06/18/2012	<i>06/18/12 14:51</i>	



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Project Number : Crestview MS, S9525-06-51
 Report To : Rebecca Silva
 Reported : 06/22/2012

QUALITY CONTROL SECTION

Title 22 Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0474 - EPA 3050B

Blank (B2F0474-BLK1)

Prepared: 6/15/2012 Analyzed: 6/18/2012

Antimony	ND	2.0			NR				
Arsenic	ND	1.0			NR				
Barium	ND	1.0			NR				
Beryllium	ND	1.0			NR				
Cadmium	ND	1.0			NR				
Chromium	ND	1.0			NR				
Cobalt	ND	1.0			NR				
Copper	ND	2.0			NR				
Lead	ND	1.0			NR				
Molybdenum	ND	1.0			NR				
Nickel	ND	1.0			NR				
Selenium	ND	1.0			NR				
Silver	ND	1.0			NR				
Thallium	ND	1.0			NR				
Vanadium	ND	1.0			NR				
Zinc	ND	1.0			NR				

LCS (B2F0474-BS1)

Prepared: 6/15/2012 Analyzed: 6/18/2012

Antimony	46	2.0	50.0		91.8	80 - 120			
Arsenic	46	1.0	50.0		91.6	80 - 120			
Barium	48	1.0	50.0		95.8	80 - 120			
Beryllium	49	1.0	50.0		97.5	80 - 120			
Cadmium	47	1.0	50.0		93.3	80 - 120			
Chromium	48	1.0	50.0		95.9	80 - 120			
Cobalt	48	1.0	50.0		95.6	80 - 120			
Copper	49	2.0	50.0		97.9	80 - 120			
Lead	49	1.0	50.0		97.1	80 - 120			
Molybdenum	51	1.0	50.0		102	80 - 120			
Nickel	48	1.0	50.0		96.2	80 - 120			
Selenium	43	1.0	50.0		86.4	80 - 120			
Silver	46	1.0	50.0		92.2	80 - 120			
Thallium	48	1.0	50.0		96.3	80 - 120			
Vanadium	50	1.0	50.0		100	80 - 120			
Zinc	46	1.0	50.0		91.7	80 - 120			

Duplicate (B2F0474-DUP1)

Source: 1202186-18

Prepared: 6/15/2012 Analyzed: 6/18/2012

Antimony	ND	2.0		ND	NR			20	
Arsenic	0.16	1.0		0.32	NR		68.0	20	R
Barium	31	1.0		26	NR		19.7	20	
Beryllium	0.18	1.0		0.17	NR		8.44	20	



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Project Number : Crestview MS, S9525-06-51
 Report To : Rebecca Silva
 Reported : 06/22/2012

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0474 - EPA 3050B (continued)

Duplicate (B2F0474-DUP1) - Continued

Source: 1202186-18

Prepared: 6/15/2012 Analyzed: 6/18/2012

Cadmium	ND	1.0		ND	NR			20	
Chromium	3.1	1.0		2.2	NR		32.2	20	R
Cobalt	1.6	1.0		1.2	NR		24.6	20	R
Copper	2.5	2.0		2.2	NR		9.52	20	
Lead	0.85	1.0		0.97	NR		12.7	20	
Molybdenum	0.42	1.0		0.47	NR		11.6	20	
Nickel	8.5	1.0		6.3	NR		29.6	20	R
Selenium	ND	1.0		ND	NR			20	
Silver	0.18	1.0		0.15	NR		16.5	20	
Thallium	ND	1.0		ND	NR			20	
Vanadium	5.5	1.0		3.8	NR		34.7	20	R
Zinc	7.6	1.0		7.7	NR		1.32	20	

Matrix Spike (B2F0474-MS1)

Source: 1202186-18

Prepared: 6/15/2012 Analyzed: 6/18/2012

Antimony	96	2.0	125	ND	76.7	44 - 105			
Arsenic	100	1.0	125	0.32	81.2	57 - 103			
Barium	140	1.0	125	26	94.6	36 - 134			
Beryllium	110	1.0	125	0.17	85.0	64 - 106			
Cadmium	110	1.0	125	ND	84.3	58 - 102			
Chromium	110	1.0	125	2.2	88.4	55 - 105			
Cobalt	110	1.0	125	1.2	85.4	59 - 105			
Copper	110	2.0	125	2.2	87.5	64 - 117			
Lead	100	1.0	125	0.97	79.6	46 - 116			
Molybdenum	100	1.0	125	0.47	83.4	59 - 108			
Nickel	110	1.0	125	6.3	85.1	52 - 109			
Selenium	97	1.0	125	ND	77.3	56 - 100			
Silver	110	1.0	125	0.15	88.0	65 - 107			
Thallium	110	1.0	125	ND	84.1	47 - 100			
Vanadium	120	1.0	125	3.8	91.9	64 - 110			
Zinc	110	1.0	125	7.7	79.4	37 - 123			

Matrix Spike Dup (B2F0474-MSD1)

Source: 1202186-18

Prepared: 6/15/2012 Analyzed: 6/18/2012

Antimony	110	2.0	125	ND	84.1	44 - 105	9.17	20	
Arsenic	110	1.0	125	0.32	88.2	57 - 103	8.29	20	
Barium	160	1.0	125	26	104	36 - 134	7.66	20	
Beryllium	120	1.0	125	0.17	92.4	64 - 106	8.41	20	
Cadmium	120	1.0	125	ND	92.1	58 - 102	8.86	20	
Chromium	120	1.0	125	2.2	96.0	55 - 105	8.10	20	
Cobalt	120	1.0	125	1.2	92.5	59 - 105	7.82	20	
Copper	120	2.0	125	2.2	94.6	64 - 117	7.69	20	
Lead	110	1.0	125	0.97	86.3	46 - 116	8.03	20	
Molybdenum	110	1.0	125	0.47	91.1	59 - 108	8.77	20	



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Project Number : Crestview MS, S9525-06-51
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 Reported : 06/22/2012

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0474 - EPA 3050B (continued)

Matrix Spike Dup (B2F0474-MSD1) - Continued

Source: 1202186-18

Prepared: 6/15/2012 Analyzed: 6/18/2012

Nickel	120	1.0	125	6.3	90.6	52 - 109	5.93	20	
Selenium	110	1.0	125	ND	84.0	56 - 100	8.39	20	
Silver	120	1.0	125	0.15	94.9	65 - 107	7.51	20	
Thallium	110	1.0	125	ND	91.2	47 - 100	8.10	20	
Vanadium	130	1.0	125	3.8	99.5	64 - 110	7.75	20	
Zinc	120	1.0	125	7.7	86.0	37 - 123	7.50	20	

Batch B2F0475 - EPA 3050B

Blank (B2F0475-BLK1)

Prepared: 6/15/2012 Analyzed: 6/18/2012

Antimony	ND	2.0			NR				
Arsenic	ND	1.0			NR				
Barium	ND	1.0			NR				
Beryllium	ND	1.0			NR				
Cadmium	ND	1.0			NR				
Chromium	ND	1.0			NR				
Cobalt	ND	1.0			NR				
Copper	ND	2.0			NR				
Lead	ND	1.0			NR				
Molybdenum	ND	1.0			NR				
Nickel	ND	1.0			NR				
Selenium	ND	1.0			NR				
Silver	ND	1.0			NR				
Thallium	ND	1.0			NR				
Vanadium	ND	1.0			NR				
Zinc	ND	1.0			NR				

LCS (B2F0475-BS1)

Prepared: 6/15/2012 Analyzed: 6/18/2012

Antimony	45	2.0	50.0		90.1	80 - 120			
Arsenic	45	1.0	50.0		89.6	80 - 120			
Barium	48	1.0	50.0		96.1	80 - 120			
Beryllium	48	1.0	50.0		95.8	80 - 120			
Cadmium	47	1.0	50.0		93.1	80 - 120			
Chromium	48	1.0	50.0		95.0	80 - 120			
Cobalt	47	1.0	50.0		94.7	80 - 120			
Copper	48	2.0	50.0		96.9	80 - 120			
Lead	48	1.0	50.0		95.0	80 - 120			
Molybdenum	50	1.0	50.0		99.5	80 - 120			
Nickel	47	1.0	50.0		94.8	80 - 120			
Selenium	42	1.0	50.0		84.1	80 - 120			
Silver	46	1.0	50.0		91.6	80 - 120			



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Project Number : Crestview MS, S9525-06-51
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Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0475 - EPA 3050B (continued)

LCS (B2F0475-BS1) - Continued

Prepared: 6/15/2012 Analyzed: 6/18/2012

Thallium	47	1.0	50.0		93.9	80 - 120			
Vanadium	50	1.0	50.0		99.3	80 - 120			
Zinc	46	1.0	50.0		92.0	80 - 120			

Duplicate (B2F0475-DUP1)

Source: 1202186-34

Prepared: 6/15/2012 Analyzed: 6/18/2012

Antimony	ND	2.0		ND	NR			20	
Arsenic	1.3	1.0		1.3	NR		1.86	20	
Barium	95	1.0		100	NR		6.74	20	
Beryllium	0.74	1.0		0.77	NR		3.93	20	
Cadmium	ND	1.0		ND	NR			20	
Chromium	3.6	1.0		3.7	NR		1.98	20	
Cobalt	4.0	1.0		4.2	NR		4.83	20	
Copper	3.5	2.0		3.7	NR		7.22	20	
Lead	4.1	1.0		4.1	NR		0.339	20	
Molybdenum	0.13	1.0		0.18	NR		30.3	20	R
Nickel	21	1.0		22	NR		2.69	20	
Selenium	ND	1.0		ND	NR			20	
Silver	0.37	1.0		0.40	NR		8.58	20	
Thallium	ND	1.0		ND	NR			20	
Vanadium	15	1.0		15	NR		2.16	20	
Zinc	22	1.0		22	NR		1.59	20	

Matrix Spike (B2F0475-MS1)

Source: 1202186-34

Prepared: 6/15/2012 Analyzed: 6/18/2012

Antimony	83	2.0	125	ND	66.5	44 - 105			
Arsenic	110	1.0	125	1.3	83.2	57 - 103			
Barium	200	1.0	125	100	78.5	36 - 134			
Beryllium	110	1.0	125	0.77	85.5	64 - 106			
Cadmium	100	1.0	125	ND	79.9	58 - 102			
Chromium	110	1.0	125	3.7	83.9	55 - 105			
Cobalt	110	1.0	125	4.2	83.3	59 - 105			
Copper	120	2.0	125	3.7	90.7	64 - 117			
Lead	100	1.0	125	4.1	78.2	46 - 116			
Molybdenum	100	1.0	125	0.18	81.7	59 - 108			
Nickel	120	1.0	125	22	80.5	52 - 109			
Selenium	97	1.0	125	ND	78.0	56 - 100			
Silver	110	1.0	125	0.40	86.1	65 - 107			
Thallium	96	1.0	125	ND	76.7	47 - 100			
Vanadium	120	1.0	125	15	85.8	64 - 110			
Zinc	120	1.0	125	22	75.3	37 - 123			

Matrix Spike Dup (B2F0475-MSD1)

Source: 1202186-34

Prepared: 6/15/2012 Analyzed: 6/18/2012

Antimony	83	2.0	125	ND	66.5	44 - 105	0.0158	20	
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Project Number : Crestview MS, S9525-06-51
 Report To : Rebecca Silva
 Reported : 06/22/2012

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0475 - EPA 3050B (continued)

Matrix Spike Dup (B2F0475-MSD1) - Continued

Source: 1202186-34

Prepared: 6/15/2012 Analyzed: 6/18/2012

Arsenic	100	1.0	125	1.3	81.1	57 - 103	2.49	20	
Barium	200	1.0	125	100	75.7	36 - 134	1.77	20	
Beryllium	100	1.0	125	0.77	83.2	64 - 106	2.75	20	
Cadmium	100	1.0	125	ND	79.6	58 - 102	0.299	20	
Chromium	110	1.0	125	3.7	84.0	55 - 105	0.206	20	
Cobalt	110	1.0	125	4.2	82.6	59 - 105	0.883	20	
Copper	110	2.0	125	3.7	88.9	64 - 117	1.93	20	
Lead	100	1.0	125	4.1	77.5	46 - 116	0.893	20	
Molybdenum	100	1.0	125	0.18	80.7	59 - 108	1.25	20	
Nickel	120	1.0	125	22	79.9	52 - 109	0.613	20	
Selenium	96	1.0	125	ND	76.5	56 - 100	1.93	20	
Silver	110	1.0	125	0.40	84.9	65 - 107	1.31	20	
Thallium	95	1.0	125	ND	75.9	47 - 100	1.01	20	
Vanadium	120	1.0	125	15	86.0	64 - 110	0.254	20	
Zinc	120	1.0	125	22	75.9	37 - 123	0.678	20	

Batch B2F0476 - EPA 3050B

Blank (B2F0476-BLK1)

Prepared: 6/15/2012 Analyzed: 6/18/2012

Antimony	ND	2.0						NR	
Arsenic	ND	1.0						NR	
Barium	ND	1.0						NR	
Beryllium	ND	1.0						NR	
Cadmium	ND	1.0						NR	
Chromium	ND	1.0						NR	
Cobalt	ND	1.0						NR	
Copper	ND	2.0						NR	
Lead	ND	1.0						NR	
Molybdenum	ND	1.0						NR	
Nickel	ND	1.0						NR	
Selenium	ND	1.0						NR	
Silver	ND	1.0						NR	
Thallium	ND	1.0						NR	
Vanadium	ND	1.0						NR	
Zinc	ND	1.0						NR	

LCS (B2F0476-BS1)

Prepared: 6/15/2012 Analyzed: 6/18/2012

Antimony	43	2.0	50.0		86.9	80 - 120			
Arsenic	43	1.0	50.0		85.9	80 - 120			
Barium	46	1.0	50.0		92.7	80 - 120			
Beryllium	46	1.0	50.0		92.8	80 - 120			



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Report To : Rebecca Silva

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Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0476 - EPA 3050B (continued)

LCS (B2F0476-BS1) - Continued

Prepared: 6/15/2012 Analyzed: 6/18/2012

Cadmium	45	1.0	50.0		89.8	80 - 120			
Chromium	46	1.0	50.0		92.7	80 - 120			
Cobalt	46	1.0	50.0		92.4	80 - 120			
Copper	48	2.0	50.0		95.4	80 - 120			
Lead	46	1.0	50.0		91.7	80 - 120			
Molybdenum	48	1.0	50.0		96.3	80 - 120			
Nickel	46	1.0	50.0		92.3	80 - 120			
Selenium	41	1.0	50.0		81.9	80 - 120			
Silver	45	1.0	50.0		89.9	80 - 120			
Thallium	46	1.0	50.0		91.5	80 - 120			
Vanadium	49	1.0	50.0		97.1	80 - 120			
Zinc	44	1.0	50.0		88.4	80 - 120			

Duplicate (B2F0476-DUP1)

Source: 1202186-36

Prepared: 6/15/2012 Analyzed: 6/18/2012

Antimony	ND	2.0		ND	NR			20	
Arsenic	2.4	1.0		1.9	NR		24.3	20	R
Barium	220	1.0		220	NR		1.24	20	
Beryllium	1.4	1.0		1.4	NR		2.73	20	
Cadmium	ND	1.0		ND	NR			20	
Chromium	9.5	1.0		9.7	NR		1.58	20	
Cobalt	15	1.0		15	NR		1.68	20	
Copper	10	2.0		10	NR		2.55	20	
Lead	1.4	1.0		1.3	NR		8.92	20	
Molybdenum	ND	1.0		ND	NR			20	
Nickel	25	1.0		25	NR		1.76	20	
Selenium	ND	1.0		ND	NR			20	
Silver	0.85	1.0		0.68	NR		22.5	20	R
Thallium	ND	1.0		ND	NR			20	
Vanadium	74	1.0		74	NR		0.761	20	
Zinc	33	1.0		34	NR		2.86	20	

Matrix Spike (B2F0476-MS1)

Source: 1202186-36

Prepared: 6/15/2012 Analyzed: 6/18/2012

Antimony	59	2.0	125	ND	47.1	44 - 105			
Arsenic	97	1.0	125	1.9	75.7	57 - 103			
Barium	310	1.0	125	220	68.6	36 - 134			
Beryllium	95	1.0	125	1.4	75.1	64 - 106			
Cadmium	84	1.0	125	ND	67.3	58 - 102			
Chromium	100	1.0	125	9.7	72.4	55 - 105			
Cobalt	100	1.0	125	15	68.6	59 - 105			
Copper	120	2.0	125	10	88.0	64 - 117			
Lead	86	1.0	125	1.3	68.0	46 - 116			
Molybdenum	92	1.0	125	ND	73.7	59 - 108			



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Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0476 - EPA 3050B (continued)

Matrix Spike (B2F0476-MS1) - Continued

Source: 1202186-36

Prepared: 6/15/2012 Analyzed: 6/18/2012

Nickel	110	1.0	125	25	65.4	52 - 109			
Selenium	78	1.0	125	ND	62.4	56 - 100			
Silver	110	1.0	125	0.68	87.0	65 - 107			
Thallium	85	1.0	125	ND	68.0	47 - 100			
Vanadium	170	1.0	125	74	74.3	64 - 110			
Zinc	110	1.0	125	34	61.8	37 - 123			

Matrix Spike Dup (B2F0476-MSD1)

Source: 1202186-36

Prepared: 6/15/2012 Analyzed: 6/18/2012

Antimony	55	2.0	125	ND	44.2	44 - 105	6.33	20	
Arsenic	97	1.0	125	1.9	75.8	57 - 103	0.0798	20	
Barium	330	1.0	125	220	82.0	36 - 134	5.31	20	
Beryllium	96	1.0	125	1.4	75.4	64 - 106	0.377	20	
Cadmium	82	1.0	125	ND	65.9	58 - 102	2.05	20	
Chromium	100	1.0	125	9.7	72.9	55 - 105	0.580	20	
Cobalt	100	1.0	125	15	70.3	59 - 105	2.08	20	
Copper	120	2.0	125	10	91.0	64 - 117	3.09	20	
Lead	85	1.0	125	1.3	66.9	46 - 116	1.57	20	
Molybdenum	91	1.0	125	ND	73.1	59 - 108	0.888	20	
Nickel	110	1.0	125	25	68.1	52 - 109	3.15	20	
Selenium	75	1.0	125	ND	59.7	56 - 100	4.45	20	
Silver	110	1.0	125	0.68	88.5	65 - 107	1.65	20	
Thallium	84	1.0	125	ND	67.0	47 - 100	1.41	20	
Vanadium	180	1.0	125	74	81.0	64 - 110	4.93	20	
Zinc	110	1.0	125	34	63.6	37 - 123	1.91	20	



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Lead by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B2F0473 - EPA 3050 Modified

Blank (B2F0473-BLK1)				Prepared: 6/15/2012 Analyzed: 6/18/2012					
Lead	ND	1.0			NR				
LCS (B2F0473-BS1)				Prepared: 6/15/2012 Analyzed: 6/18/2012					
Lead	87	1.0	100		86.7	80 - 120			
Duplicate (B2F0473-DUP1)				Source: 1202186-43 Prepared: 6/15/2012 Analyzed: 6/18/2012					
Lead	1.5	1.0		1.4	NR		8.41	20	
Matrix Spike (B2F0473-MS1)				Source: 1202186-43 Prepared: 6/15/2012 Analyzed: 6/18/2012					
Lead	190	1.0	250	1.4	73.6	46 - 116			
Matrix Spike Dup (B2F0473-MSD1)				Source: 1202186-43 Prepared: 6/15/2012 Analyzed: 6/18/2012					
Lead	200	1.0	250	1.4	79.9	46 - 116	8.09	20	



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Mercury by AA (Cold Vapor) EPA 7471 - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B2F0551 - EPA 7471

Blank (B2F0551-BLK1)

Prepared: 6/19/2012 Analyzed: 6/20/2012

Mercury ND 0.10 NR

LCS (B2F0551-BS1)

Prepared: 6/19/2012 Analyzed: 6/20/2012

Mercury 0.83 0.10 0.833 100 80 - 120

Duplicate (B2F0551-DUP1)

Source: 1202186-03

Prepared: 6/19/2012 Analyzed: 6/20/2012

Mercury ND 0.10 ND NR 20

Matrix Spike (B2F0551-MS1)

Source: 1202186-03

Prepared: 6/19/2012 Analyzed: 6/20/2012

Mercury 0.83 0.10 0.833 ND 99.5 70 - 130

Matrix Spike (B2F0551-MS2)

Source: 1202186-18

Prepared: 6/19/2012 Analyzed: 6/20/2012

Mercury 0.005 0.00500 0.00005 107 70 - 130

Matrix Spike Dup (B2F0551-MSD1)

Source: 1202186-03

Prepared: 6/19/2012 Analyzed: 6/20/2012

Mercury 0.85 0.10 0.833 ND 102 70 - 130 2.49 20



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Mercury by AA (Cold Vapor) EPA 7471 - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0552 - EPA 7471

Blank (B2F0552-BLK1)

Prepared: 6/19/2012 Analyzed: 6/20/2012

Mercury	ND	0.10			NR				
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Mercury by AA (Cold Vapor) EPA 7471 - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0552 - EPA 7471 (continued)

LCS (B2F0552-BS1)

Prepared: 6/19/2012 Analyzed: 6/20/2012

Mercury	0.86	0.10	0.833		103	80 - 120			
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Mercury by AA (Cold Vapor) EPA 7471 - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0552 - EPA 7471 (continued)

Duplicate (B2F0552-DUP1)

Source: 1202186-21

Prepared: 6/19/2012 Analyzed: 6/20/2012

Mercury	ND	0.10		ND	NR			20	
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Mercury by AA (Cold Vapor) EPA 7471 - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0552 - EPA 7471 (continued)

Matrix Spike (B2F0552-MS1)

Source: 1202186-21

Prepared: 6/19/2012 Analyzed: 6/20/2012

Mercury	0.84	0.10	0.833	ND	101	70 - 130			
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Mercury by AA (Cold Vapor) EPA 7471 - Quality Control (cont'd)

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0552 - EPA 7471 (continued)

Matrix Spike (B2F0552-MS2)

Source: 1202186-34

Prepared: 6/19/2012 Analyzed: 6/20/2012

Mercury	0.006		0.00500	0.0001	110	70 - 130			
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Mercury by AA (Cold Vapor) EPA 7471 - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0552 - EPA 7471 (continued)

Matrix Spike Dup (B2F0552-MSD1)

Source: 1202186-21

Prepared: 6/19/2012 Analyzed: 6/20/2012

Mercury	0.85	0.10	0.833	ND	102	70 - 130	1.05	20	
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Mercury by AA (Cold Vapor) EPA 7471 - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0553 - EPA 7471

Blank (B2F0553-BLK1)

Prepared: 6/19/2012 Analyzed: 6/20/2012

Mercury	ND	0.10			NR				
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Mercury by AA (Cold Vapor) EPA 7471 - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0553 - EPA 7471 (continued)

LCS (B2F0553-BS1)

Prepared: 6/19/2012 Analyzed: 6/20/2012

Mercury	0.88	0.10	0.833		106	80 - 120			
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Mercury by AA (Cold Vapor) EPA 7471 - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0553 - EPA 7471 (continued)

Duplicate (B2F0553-DUP1)

Source: 1202186-36

Prepared: 6/19/2012 Analyzed: 6/20/2012

Mercury	ND	0.10		ND	NR			20	
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Mercury by AA (Cold Vapor) EPA 7471 - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0553 - EPA 7471 (continued)

Matrix Spike (B2F0553-MS1)

Source: 1202186-36

Prepared: 6/19/2012 Analyzed: 6/20/2012

Mercury	0.90	0.10	0.833	ND	108	70 - 130			
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Mercury by AA (Cold Vapor) EPA 7471 - Quality Control (cont'd)

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0553 - EPA 7471 (continued)

Matrix Spike (B2F0553-MS2)

Source: 1202194-03

Prepared: 6/19/2012 Analyzed: 6/20/2012

Mercury	0.006		0.00500	0.0007	115	70 - 130			
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Mercury by AA (Cold Vapor) EPA 7471 - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0553 - EPA 7471 (continued)

Matrix Spike Dup (B2F0553-MSD1)

Source: 1202186-36

Prepared: 6/19/2012 Analyzed: 6/20/2012

Mercury	0.91	0.10	0.833	ND	109	70 - 130	0.236	20	
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Project Number : Crestview MS, S9525-06-51
 Report To : Rebecca Silva
 Reported : 06/22/2012

Gasoline Range Organics by EPA 8015B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0444 - GCVOAS

Blank (B2F0444-BLK1)

Prepared: 6/15/2012 Analyzed: 6/15/2012

Gasoline Range Organics	ND	1.0			NR				
Surrogate: 4-Bromofluorobenzene	0.085		0.100		85.4	69 - 158			



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Gasoline Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0444 - GCVOAS (continued)

LCS (B2F0444-BS1)

Prepared: 6/15/2012 Analyzed: 6/15/2012

Gasoline Range Organics	5.2	1.0	5.00		103	70 - 130			
T/R Hydrocarbons: C4-C12	5.1	1.0	5.00		103	70 - 130			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.095</i>		<i>0.100</i>		<i>95.2</i>	<i>69 - 158</i>			



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Gasoline Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0444 - GCVOAS (continued)

LCS Dup (B2F0444-BSD1)

Prepared: 6/15/2012 Analyzed: 6/15/2012

Gasoline Range Organics	5.2	1.0	5.00		103	70 - 130	0.155	20	
T/R Hydrocarbons: C4-C12	5.1	1.0	5.00		103	70 - 130	0.0194	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.089</i>		<i>0.100</i>		<i>89.4</i>	<i>69 - 158</i>			



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Gasoline Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0444 - GCVOAS (continued)

Duplicate (B2F0444-DUP1)

Source: 1202135-01

Prepared: 6/15/2012 Analyzed: 6/15/2012

Gasoline Range Organics	ND	1.0		0.18	NR			20	
T/R Hydrocarbons: C4-C12	0.29	1.0		0.31	NR		6.58	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.089</i>		<i>0.100</i>		<i>88.8</i>	<i>69 - 158</i>			



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Gasoline Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0444 - GCVOAS (continued)

Matrix Spike (B2F0444-MS1)

Source: 1202135-01

Prepared: 6/15/2012 Analyzed: 6/15/2012

Gasoline Range Organics	4.9	1.0	5.00	0.18	93.5	46 - 135			
T/R Hydrocarbons: C4-C12	4.8	1.0	5.00	0.31	90.2	46 - 135			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.098</i>		<i>0.100</i>		<i>97.7</i>	<i>69 - 158</i>			



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Gasoline Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0444 - GCVOAS (continued)

Matrix Spike Dup (B2F0444-MSD1)

Source: 1202135-01

Prepared: 6/15/2012 Analyzed: 6/15/2012

Gasoline Range Organics	4.8	1.0	5.00	0.18	91.8	46 - 135	1.70	20	
T/R Hydrocarbons: C4-C12	4.7	1.0	5.00	0.31	88.6	46 - 135	1.67	20	
Surrogate: 4-Bromofluorobenzene	0.096		0.100		96.2	69 - 158			



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Gasoline Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0488 - GCVOAS

Blank (B2F0488-BLK1)

Prepared: 6/15/2012 Analyzed: 6/15/2012

Gasoline Range Organics	ND	1.0			NR				
Surrogate: 4-Bromofluorobenzene	0.097		0.100		96.8	69 - 158			



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Gasoline Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0488 - GCVOAS (continued)

LCS (B2F0488-BS1)

Prepared: 6/15/2012 Analyzed: 6/15/2012

Gasoline Range Organics	5.0	1.0	5.00		101	70 - 130			
Surrogate: 4-Bromofluorobenzene	0.092		0.100		92.3	69 - 158			



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Gasoline Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0488 - GCVOAS (continued)

LCS Dup (B2F0488-BSD1)

Prepared: 6/15/2012 Analyzed: 6/15/2012

Gasoline Range Organics	5.2	1.0	5.00		104	70 - 130	3.25	20	
Surrogate: 4-Bromofluorobenzene	0.096		0.100		95.6	69 - 158			



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Gasoline Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0488 - GCVOAS (continued)

Duplicate (B2F0488-DUP1)

Source: 1202186-27

Prepared: 6/16/2012 Analyzed: 6/16/2012

Gasoline Range Organics	0.22	1.0		0.18	NR		17.2	20	
Surrogate: 4-Bromofluorobenzene	0.096		0.100		95.7	69 - 158			



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Gasoline Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0488 - GCVOAS (continued)

Matrix Spike Dup (B2F0488-MSD1)

Source: 1202186-27

Prepared: 6/15/2012 Analyzed: 6/15/2012

Gasoline Range Organics	4.8	1.0	5.00	0.18	92.7	46 - 135	4.91	20	
Surrogate: 4-Bromofluorobenzene	0.10		0.100		101	69 - 158			



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Gasoline Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0507 - GCVOAS

Blank (B2F0507-BLK1)

Prepared: 6/18/2012 Analyzed: 6/18/2012

Gasoline Range Organics	ND	1.0				NR			
T/R Hydrocarbons: C4-C12	ND	1.0				NR			
T/R Hydrocarbons: C6-C12	ND	1.0				NR			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.091</i>		<i>0.100</i>		<i>91.1</i>		<i>69 - 158</i>		



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Gasoline Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0507 - GCVOAS (continued)

LCS (B2F0507-BS1)

Prepared: 6/18/2012 Analyzed: 6/18/2012

Gasoline Range Organics	5.1	1.0	5.00		101	70 - 130			
T/R Hydrocarbons: C4-C12	5.0	1.0	5.00		101	70 - 130			
T/R Hydrocarbons: C6-C12	5.1	1.0	5.00		102	70 - 130			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.10</i>		<i>0.100</i>		<i>99.9</i>	<i>69 - 158</i>			



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Gasoline Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0507 - GCVOAS (continued)

LCS Dup (B2F0507-BSD1)

Prepared: 6/18/2012 Analyzed: 6/18/2012

Gasoline Range Organics	5.0	1.0	5.00		101	70 - 130	0.496	20	
T/R Hydrocarbons: C4-C12	5.0	1.0	5.00		99.9	70 - 130	0.639	20	
T/R Hydrocarbons: C6-C12	5.1	1.0	5.00		103	70 - 130	0.763	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.10</i>		<i>0.100</i>		<i>100</i>	<i>69 - 158</i>			



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Gasoline Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0507 - GCVOAS (continued)

Duplicate (B2F0507-DUP1)

Source: 1202212-01

Prepared: 6/18/2012 Analyzed: 6/18/2012

Gasoline Range Organics	ND	1.0		0.19	NR			20	
T/R Hydrocarbons: C4-C12	0.27	1.0		0.30	NR		8.76	20	
T/R Hydrocarbons: C6-C12	0.29	1.0		0.31	NR		8.70	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.10</i>		<i>0.100</i>		<i>101</i>	<i>69 - 158</i>			



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Gasoline Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0507 - GCVOAS (continued)

Matrix Spike (B2F0507-MS1)

Source: 1202186-45

Prepared: 6/18/2012 Analyzed: 6/18/2012

Gasoline Range Organics	4.5	1.0	5.00	ND	89.4	46 - 135			
T/R Hydrocarbons: C4-C12	4.5	1.0	5.00	0.27	84.0	46 - 135			
T/R Hydrocarbons: C6-C12	4.4	1.0	5.00	0.29	82.6	46 - 135			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.11</i>		<i>0.100</i>		<i>106</i>	<i>69 - 158</i>			



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Gasoline Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0507 - GCVOAS (continued)

Matrix Spike Dup (B2F0507-MSD1)

Source: 1202186-45

Prepared: 6/18/2012 Analyzed: 6/18/2012

Gasoline Range Organics	4.3	1.0	5.00	ND	85.2	46 - 135	4.84	20	
T/R Hydrocarbons: C4-C12	4.3	1.0	5.00	0.27	80.0	46 - 135	4.55	20	
T/R Hydrocarbons: C6-C12	4.2	1.0	5.00	0.29	78.1	46 - 135	5.22	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.11</i>		<i>0.100</i>		<i>114</i>	<i>69 - 158</i>			



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Diesel Range Organics by EPA 8015B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0508 - GCSEMI_DRO_SOIL_LL

Blank (B2F0508-BLK1)

Prepared: 6/18/2012 Analyzed: 6/18/2012

DRO	ND	1.0				NR			
ORO	ND	1.0				NR			
<i>Surrogate: p-Terphenyl</i>	<i>1.8</i>		<i>2.67</i>		<i>67.7</i>	<i>39 - 123</i>			



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Diesel Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0508 - GCSEMI_DRO_SOIL_LL (continued)

LCS (B2F0508-BS1)

Prepared: 6/18/2012 Analyzed: 6/18/2012

DRO	28	1.0	33.3		84.7	37 - 109			
Surrogate: <i>p</i> -Terphenyl	2.2		2.67		82.7	39 - 123			



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Diesel Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0508 - GCSEMI_DRO_SOIL_LL (continued)

Duplicate (B2F0508-DUP1)

Source: 1202186-07

Prepared: 6/18/2012 Analyzed: 6/18/2012

DRO	45	2.0		49	NR		7.45	20	
Surrogate: <i>p</i> -Terphenyl	2.4		2.67		90.0	39 - 123			



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Diesel Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0508 - GCSEMI_DRO_SOIL_LL (continued)

Matrix Spike (B2F0508-MS1)

Source: 1202186-07

Prepared: 6/18/2012 Analyzed: 6/18/2012

DRO	71	2.0	33.3	49	68.3	29 - 107			
Surrogate: <i>p</i> -Terphenyl	2.4		2.67		89.7	39 - 123			



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Diesel Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0508 - GCSEMI_DRO_SOIL_LL (continued)

Matrix Spike Dup (B2F0508-MSD1)

Source: 1202186-07

Prepared: 6/18/2012 Analyzed: 6/18/2012

DRO	64	2.0	33.3	49	45.3	29 - 107	11.4	20	
Surrogate: <i>p</i> -Terphenyl	2.6		2.67		97.3	39 - 123			



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Diesel Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0569 - GCSEMI_DRO_SOIL_LL

Blank (B2F0569-BLK1)

Prepared: 6/19/2012 Analyzed: 6/20/2012

DRO	ND	1.0				NR			
ORO	ND	1.0				NR			
<i>Surrogate: p-Terphenyl</i>	2.1		2.67		77.9	39 - 123			



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Diesel Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0569 - GCSEMI_DRO_SOIL_LL (continued)

LCS (B2F0569-BS1)

Prepared: 6/19/2012 Analyzed: 6/20/2012

DRO	29	1.0	33.3		86.4	37 - 109			
Surrogate: <i>p</i> -Terphenyl	2.3		2.67		85.6	39 - 123			



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Diesel Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0569 - GCSEMI_DRO_SOIL_LL (continued)

Duplicate (B2F0569-DUP1)

Source: 1202186-32

Prepared: 6/19/2012 Analyzed: 6/20/2012

DRO	3.0	1.0		3.8	NR		25.4	20	R
Surrogate: <i>p</i> -Terphenyl	2.1		2.67		80.3	39 - 123			



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Diesel Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0569 - GCSEMI_DRO_SOIL_LL (continued)

Matrix Spike (B2F0569-MS1)

Source: 1202186-32

Prepared: 6/19/2012 Analyzed: 6/20/2012

DRO	23	1.0	33.3	3.8	58.9	29 - 107			
Surrogate: <i>p</i> -Terphenyl	2.0		2.67		76.3	39 - 123			



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Diesel Range Organics by EPA 8015B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0569 - GCSEMI_DRO_SOIL_LL (continued)

Matrix Spike Dup (B2F0569-MSD1)

Source: 1202186-32

Prepared: 6/19/2012 Analyzed: 6/20/2012

DRO	21	1.0	33.3	3.8	52.3	29 - 107	9.84	20	
Surrogate: <i>p</i> -Terphenyl	1.7		2.67		62.7	39 - 123			



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Project Number : Crestview MS, S9525-06-51
 Report To : Rebecca Silva
 Reported : 06/22/2012

BTEX/MTBE by EPA 8021 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B2F0444 - GCVOAS

Blank (B2F0444-BLK1)

Prepared: 6/15/2012 Analyzed: 6/15/2012

MTBE	ND	5.0						NR	
Benzene	ND	5.0						NR	
Toluene	ND	5.0						NR	
Ethylbenzene	ND	5.0						NR	
m,p-Xylene	ND	10						NR	
o-Xylene	ND	5.0						NR	
<i>Surrogate: 4-Bromofluorobenzene</i>	83		100		83.2			65 - 140	



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Project Number : Crestview MS, S9525-06-51
 Report To : Rebecca Silva
 Reported : 06/22/2012

BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0444 - GCVOAS (continued)

LCS (B2F0444-BS2)

Prepared: 6/15/2012 Analyzed: 6/15/2012

MTBE	93	5.0	100		92.6	70 - 130			
Benzene	99	5.0	100		98.5	70 - 130			
Toluene	100	5.0	100		101	70 - 130			
Ethylbenzene	100	5.0	100		102	70 - 130			
m,p-Xylene	210	10	200		103	70 - 130			
o-Xylene	100	5.0	100		103	70 - 130			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>88</i>		<i>100</i>		<i>87.6</i>	<i>65 - 140</i>			



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Project Number : Crestview MS, S9525-06-51
 Report To : Rebecca Silva
 Reported : 06/22/2012

BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0444 - GCVOAS (continued)

LCS Dup (B2F0444-BSD2)

Prepared: 6/15/2012 Analyzed: 6/15/2012

MTBE	96	5.0	100		95.7	70 - 130	3.30	20	
Benzene	98	5.0	100		97.6	70 - 130	0.880	20	
Toluene	100	5.0	100		103	70 - 130	1.48	20	
Ethylbenzene	100	5.0	100		104	70 - 130	1.92	20	
m,p-Xylene	210	10	200		105	70 - 130	2.04	20	
o-Xylene	110	5.0	100		105	70 - 130	1.78	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>87</i>		<i>100</i>		<i>87.4</i>	<i>65 - 140</i>			



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Project Number : Crestview MS, S9525-06-51
 Report To : Rebecca Silva
 Reported : 06/22/2012

BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0444 - GCVOAS (continued)

Duplicate (B2F0444-DUP1)

Source: 1202135-01

Prepared: 6/15/2012 Analyzed: 6/15/2012

MTBE	ND	5.0		ND	NR			20	
Benzene	ND	5.0		ND	NR			20	
Toluene	ND	5.0		ND	NR			20	
Ethylbenzene	ND	5.0		ND	NR			20	
m,p-Xylene	ND	10		ND	NR			20	
o-Xylene	ND	5.0		ND	NR			20	

<i>Surrogate: 4-Bromofluorobenzene</i>	86		100		86.1	65 - 140			
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Project Number : Crestview MS, S9525-06-51
 Report To : Rebecca Silva
 Reported : 06/22/2012

BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0444 - GCVOAS (continued)

Matrix Spike (B2F0444-MS1)

Source: 1202135-01

Prepared: 6/15/2012 Analyzed: 6/15/2012

MTBE	350	5.0	429	ND	82.5	39 - 121			
Benzene	34	5.0	40.8	ND	83.0	69 - 264			
Toluene	170	5.0	202	ND	86.1	44 - 150			
Ethylbenzene	56	5.0	76.0	ND	73.1	37 - 161			
m,p-Xylene	200	10	206	ND	94.8	30 - 149			
o-Xylene	74	5.0	73.5	ND	100	31 - 166			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>95</i>		<i>100</i>		<i>94.8</i>	<i>65 - 140</i>			



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Project Number : Crestview MS, S9525-06-51
 Report To : Rebecca Silva
 Reported : 06/22/2012

BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0444 - GCVOAS (continued)

Matrix Spike Dup (B2F0444-MSD1)

Source: 1202135-01

Prepared: 6/15/2012 Analyzed: 6/15/2012

MTBE	370	5.0	429	ND	85.6	39 - 121	3.68	20	
Benzene	33	5.0	40.8	ND	82.2	69 - 264	0.975	20	
Toluene	170	5.0	202	ND	85.3	44 - 150	0.960	20	
Ethylbenzene	55	5.0	76.0	ND	72.5	37 - 161	0.824	20	
m,p-Xylene	190	10	206	ND	93.9	30 - 149	0.979	20	
o-Xylene	73	5.0	73.5	ND	99.4	31 - 166	0.811	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>95</i>		<i>100</i>		<i>94.6</i>	<i>65 - 140</i>			



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Project Number : Crestview MS, S9525-06-51
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 Reported : 06/22/2012

BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0488 - GCVOAS

Blank (B2F0488-BLK1)

Prepared: 6/15/2012 Analyzed: 6/15/2012

MTBE	ND	5.0					NR		
Benzene	ND	5.0					NR		
Toluene	ND	5.0					NR		
Ethylbenzene	ND	5.0					NR		
m,p-Xylene	ND	10					NR		
o-Xylene	ND	5.0					NR		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>94</i>		<i>100</i>		<i>94.0</i>		<i>65 - 140</i>		



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Project Number : Crestview MS, S9525-06-51
 Report To : Rebecca Silva
 Reported : 06/22/2012

BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0488 - GCVOAS (continued)

LCS (B2F0488-BS2)

Prepared: 6/15/2012 Analyzed: 6/15/2012

MTBE	97	5.0	100		97.2	70 - 130			
Benzene	100	5.0	100		101	70 - 130			
Toluene	100	5.0	100		102	70 - 130			
Ethylbenzene	100	5.0	100		102	70 - 130			
m,p-Xylene	210	10	200		103	70 - 130			
o-Xylene	100	5.0	100		104	70 - 130			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>98</i>		<i>100</i>		<i>98.4</i>	<i>65 - 140</i>			



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Project Number : Crestview MS, S9525-06-51
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BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B2F0488 - GCVOAS (continued)

LCS Dup (B2F0488-BSD2)

Prepared: 6/15/2012 Analyzed: 6/15/2012

MTBE	92	5.0	100		91.8	70 - 130	5.66	20	
Benzene	98	5.0	100		98.4	70 - 130	2.13	20	
Toluene	100	5.0	100		101	70 - 130	1.81	20	
Ethylbenzene	100	5.0	100		101	70 - 130	1.44	20	
m,p-Xylene	200	10	200		102	70 - 130	1.18	20	
o-Xylene	100	5.0	100		103	70 - 130	1.14	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>96</i>		<i>100</i>		<i>96.3</i>	<i>65 - 140</i>			



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BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0488 - GCVOAS (continued)

Duplicate (B2F0488-DUP1)

Source: 1202186-27

Prepared: 6/16/2012 Analyzed: 6/16/2012

MTBE	ND	5.0		ND	NR			20	
Benzene	ND	5.0		ND	NR			20	
Toluene	ND	5.0		ND	NR			20	
Ethylbenzene	ND	5.0		ND	NR			20	
m,p-Xylene	ND	10		ND	NR			20	
o-Xylene	ND	5.0		ND	NR			20	

<i>Surrogate: 4-Bromofluorobenzene</i>	93		100		93.3			65 - 140	
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Project Number : Crestview MS, S9525-06-51
 Report To : Rebecca Silva
 Reported : 06/22/2012

BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0488 - GCVOAS (continued)

Matrix Spike (B2F0488-MS1)

Source: 1202186-27

Prepared: 6/15/2012 Analyzed: 6/15/2012

MTBE	340	5.0	429	ND	79.6	39 - 121			
Benzene	32	5.0	40.8	ND	78.3	69 - 264			
Toluene	160	5.0	202	ND	80.2	44 - 150			
Ethylbenzene	51	5.0	76.0	ND	67.7	37 - 161			
m,p-Xylene	180	10	206	ND	87.0	30 - 149			
o-Xylene	67	5.0	73.5	ND	90.5	31 - 166			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>94</i>		<i>100</i>		<i>94.3</i>	<i>65 - 140</i>			



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BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0488 - GCVOAS (continued)

Matrix Spike Dup (B2F0488-MSD1)

Source: 1202186-27

Prepared: 6/15/2012 Analyzed: 6/15/2012

MTBE	340	5.0	429	ND	78.8	39 - 121	0.961	20	
Benzene	34	5.0	40.8	ND	82.7	69 - 264	5.46	20	
Toluene	170	5.0	202	ND	85.1	44 - 150	5.93	20	
Ethylbenzene	56	5.0	76.0	ND	73.6	37 - 161	8.39	20	
m,p-Xylene	200	10	206	ND	95.1	30 - 149	8.89	20	
o-Xylene	73	5.0	73.5	ND	99.5	31 - 166	9.52	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>98</i>		<i>100</i>		<i>98.2</i>	<i>65 - 140</i>			



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BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0507 - GCVOAS

Blank (B2F0507-BLK1)

Prepared: 6/18/2012 Analyzed: 6/18/2012

MTBE	ND	5.0					NR		
Benzene	ND	5.0					NR		
Toluene	ND	5.0					NR		
Ethylbenzene	ND	5.0					NR		
m,p-Xylene	ND	10					NR		
o-Xylene	ND	5.0					NR		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>90</i>		<i>100</i>		<i>90.1</i>		<i>65 - 140</i>		



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Project Number : Crestview MS, S9525-06-51
 Report To : Rebecca Silva
 Reported : 06/22/2012

BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0507 - GCVOAS (continued)

LCS (B2F0507-BS2)

Prepared: 6/18/2012 Analyzed: 6/18/2012

MTBE	110	5.0	100		106	70 - 130			
Benzene	110	5.0	100		105	70 - 130			
Toluene	110	5.0	100		108	70 - 130			
Ethylbenzene	110	5.0	100		109	70 - 130			
m,p-Xylene	220	10	200		110	70 - 130			
o-Xylene	110	5.0	100		110	70 - 130			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>100</i>		<i>100</i>		<i>103</i>	<i>65 - 140</i>			



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BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0507 - GCVOAS (continued)

Duplicate (B2F0507-DUP1)

Source: 1202212-01

Prepared: 6/18/2012 Analyzed: 6/18/2012

MTBE	ND	5.0		ND	NR			20	
Benzene	ND	5.0		ND	NR			20	
Toluene	ND	5.0		ND	NR			20	
Ethylbenzene	ND	5.0		ND	NR			20	
m,p-Xylene	ND	10		ND	NR			20	
o-Xylene	ND	5.0		ND	NR			20	

<i>Surrogate: 4-Bromofluorobenzene</i>	99		100		98.7			65 - 140	
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Project Number : Crestview MS, S9525-06-51
 Report To : Rebecca Silva
 Reported : 06/22/2012

BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0507 - GCVOAS (continued)

Matrix Spike (B2F0507-MS1)

Source: 1202186-45

Prepared: 6/18/2012 Analyzed: 6/18/2012

MTBE	380	5.0	429	ND	89.3	39 - 121			
Benzene	35	5.0	40.8	ND	85.4	69 - 264			
Toluene	170	5.0	202	ND	86.2	44 - 150			
Ethylbenzene	53	5.0	76.0	ND	70.0	37 - 161			
m,p-Xylene	190	10	206	ND	90.0	30 - 149			
o-Xylene	69	5.0	73.5	ND	93.2	31 - 166			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>100</i>		<i>100</i>		<i>104</i>	<i>65 - 140</i>			



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 Report To : Rebecca Silva
 Reported : 06/22/2012

BTEX/MTBE by EPA 8021 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B2F0507 - GCVOAS (continued)

Matrix Spike Dup (B2F0507-MSD1)

Source: 1202186-45

Prepared: 6/18/2012 Analyzed: 6/18/2012

MTBE	420	5.0	429	ND	97.2	39 - 121	8.53	20	
Benzene	35	5.0	40.8	ND	86.4	69 - 264	1.12	20	
Toluene	170	5.0	202	ND	86.0	44 - 150	0.261	20	
Ethylbenzene	52	5.0	76.0	ND	67.8	37 - 161	3.27	20	
m,p-Xylene	180	10	206	ND	87.3	30 - 149	3.02	20	
o-Xylene	66	5.0	73.5	ND	90.3	31 - 166	3.16	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>110</i>		<i>100</i>		<i>112</i>	<i>65 - 140</i>			



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Project Number : Crestview MS, S9525-06-51
Report To : Rebecca Silva
Reported : 06/22/2012

Notes and Definitions

S4	Surrogate was diluted out.
R	RPD value outside acceptance criteria. Calculation is based on raw values.
ND	Analyte not detected at or above reporting limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

CHAIN OF CUSTODY RECORD

1/5



**Advanced Technology
Laboratories**

3275 Walnut Avenue
Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

FOR LABORATORY USE ONLY

P.O. #: _____

Logged By: _____ Date: _____

Method of Transport

- Client
ATL
CA OverN
FedEx
Other: _____

- Sample Condition Upon Receipt
1. CHILLED ^{5.4} Y N 4. SEALED Y N
2. HEADSPACE (VOA) Y N 5. # OF SPLS MATCH COC Y N
3. CONTAINER INTACT Y N 6. PRESERVED Y N

Client: GEOCON Consultants, Inc

Address: 3160 Gold Valley Drive, Suite 800

Tel: 916.852.9118

Attention: Rebecca Silva

City: Rancho Cordova

State: CA

Zip Code: 95742

Fax: 916.852.9132

Project Name: **Crestview MS** Project #: **S9525-06-51** Sampler: (Printed Name) **Mike O'Brien** (Signature)

Relinquished by: (Signature and Printed Name) **Mike O'Brien** Date: **6/13/12** Time: **0700** Received by: (Signature and Printed Name) **Geocon Fridge** Date: **6/13/12** Time: **0700**

Relinquished by: (Signature and Printed Name) **Geocon Fridge** Date: **6/13/12** Time: **1100** Received by: (Signature and Printed Name) **atrac** Date: **6/13/12** Time: **1100**

Relinquished by: (Signature and Printed Name) **Mike O'Brien** Date: **6/14/12** Time: **813** Received by: (Signature and Printed Name) **atrac** Date: **6/14/12** Time: **813**

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter:
Rebecca Silva **6/13/12**
Print Name Date

Signature

Send Report To:
Attn: _____
Co: **SAME AS ABOVE**
Addr: _____
City: _____ State: _____ Zip: _____

Bill To:
Attn: _____
Co: **SAME AS ABOVE**
Addr: _____
City: _____ State: _____ Zip: _____

Special Instructions/Comments:
Caltrans billing per 06A1580

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
Storage Fees (applies when storage is requested):
■ Sample :\$2.00 / sample /mo (after 45 days)
■ Records :\$1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested	SPECIFY APPROPRIATE MATRIX										PRESERVATION	QA/QC					
	SOIL	WATER	GROUND WATER	WASTEWATER	CARBON	TAT	#	Type	OTHER	REMARKS							
80614 (Pesticides)																	
8062 (PCB)																	
8260B (Volatiles)																	
8010B (BVA)																	
8015B (GRO) / 8020 (BTEX)																	
8021 (BTEX)																	
TITLE 22 / CAM 17 (6010 / 7000)																	

LAB USE ONLY:	Sample Description			
	Lab No.	Sample ID / Location	Date	Time
1202186-01	B1-0.0	6/11/12	1220	
2	2.0		1221	
3	4.5		1223	
4	B2-0.0		1240	
5	2.0		1241	
6	4.5		1243	
7	B3-0.0		1300	
8	2.0		1301	
9	4.5		1303	
10	B4-0.0		1315	

■ TAT starts 8AM the following day if samples received after 3.PM.

TAT: A = Overnight ≤ 24 hrs B = Emergency Next Workday C = Critical 2 Workdays D = Urgent 3 Workdays E = Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pin J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C
Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃

CHAIN OF CUSTODY RECORD

2/5



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Tel: (562) 989-4045 • Fax: (562) 989-4040

FOR LABORATORY USE ONLY

P.O. #: _____
Logged By: _____ Date: _____

Method of Transport
Client
ATL
CA OverN
FedEx
Other: _____

Sample Condition Upon Receipt
1. CHILLED Y N 4. SEALED Y N
2. HEADSPACE (VOA) Y N 5. # OF SPLS MATCH COC Y N
3. CONTAINER INTACT Y N 6. PRESERVED Y N

Client: GEOCON Consultants, Inc Address: 3160 Gold Valley Drive, Suite 800 Tel: 916.852.9118
Attention: Rebecca Silva City: Rancho Cordova State: CA Zip Code: 95742 Fax: 916.852.9132

Project Name: **Crestview MS** Project #: **S9525-06-51** Sampler: (Printed Name) **Mike O'Brien** (Signature)

Relinquished by: (Signature and Printed Name) **Mike O'Brien** Date: **6/13/12** Time: **0700** Received by: (Signature and Printed Name) **Geocon Fridge** Date: **6/13/12** Time: **0700**

Relinquished by: (Signature and Printed Name) **Geocon Fridge / RS** Date: **10/13/12** Time: **1100** Received by: (Signature and Printed Name) **MTAC** Date: **6/13/12** Time: **1100**

Relinquished by: (Signature and Printed Name) Date: _____ Time: _____ Received by: (Signature and Printed Name) **Mary** Date: **6/14/12** Time: **813**

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: **Rebecca Silva** Date: **10/13/12** Signature:

Send Report To: _____
Attn: _____
Co: **SAME AS ABOVE**
Address: _____
City: _____ State: _____ Zip: _____

Bill To: _____
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Storage Fees (applies when storage is requested):
■ Sample :\$2.00 / sample /mo (after 45 days)
■ Records: \$1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested	SPECIFY APPROPRIATE MATRIX				PRESERVATION	QA/QC
	SOIL	WATER	GROUND WATER	WASTEWATER		
8081A (Pesticides)					RETNE <input type="checkbox"/> CT <input checked="" type="checkbox"/>	
8082 (PCB)						
8260B (Volatiles)					SWRCB <input type="checkbox"/> Logcode _____	
8270C (BNA)						
8012B (Pesticides)					REMARKS	
8015B (GFO) / 8020 (BTEX)						
8015B (DRO) / 8020 DRO						
TITLE 22 / CAM 17 (6010 / 7000)						

ITEM	LAB USE ONLY:		Sample Description		
	Lab No.	Sample ID / Location	Date	Time	Container(s)
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	12	↓ 4.5		1318	
	13	B5-0.0		1330	X X
	14	↓ 2.0		1331	X X
	15	↓ 4.5		1333	X X X
	16	B6-0.0		1345	X X
	17	↓ 2.0		1346	
	18	↓ 4.5		1348	X X
	19	B7-0.0		1400	X X
	20	↓ 2.0	X	1401	

■ TAT starts 8AM the following day if samples received after 3 PM

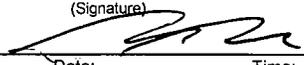
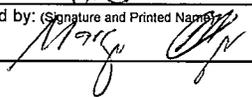
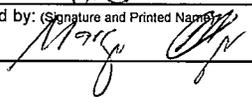
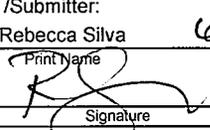
TAT: A = Overnight ≤ 24 hrs B = Emergency Next Workday C = Critical 2 Workdays D = Urgent 3 Workdays E = Routine 7 Workdays

Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C
Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃

Container Types: T=Tube V=VOA L=Liter P=Pin J=Jar B=Tedlar G=Glass P=Plastic M=Metal

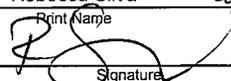
CHAIN OF CUSTODY RECORD

3/5

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		P.O. #: _____		Method of Transport Client <input type="checkbox"/> ATL <input type="checkbox"/> CA OverN <input type="checkbox"/> FedEx <input type="checkbox"/> Other: _____		Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input type="checkbox"/> 5. # OF SPLS MATCH COC Y <input type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>	
Client: GEOCON Consultants, Inc Attention: Rebecca Silva			Address: 3160 Gold Valley Drive, Suite 800 City: Rancho Cordova State: CA Zip Code: 95742			Tel: 916.852.9118 Fax: 916.852.9132	
Project Name: Crestview MS		Project #: S9525-06-51		Sampler: (Printed Name) Mike O'Brien		(Signature) 	
Relinquished by: (Signature and Printed Name) Mike O'Brien		Date: 6/13/12	Time: 0700	Received by: (Signature and Printed Name) Geocon Fridge		Date: 6/13/12 Time: 0700	
Relinquished by: (Signature and Printed Name) Geocon Fridge / RS		Date: 6/13/12	Time: 1400	Received by: (Signature and Printed Name) MTRAC		Date: 6/13/12 Time: 1400	
Relinquished by: (Signature and Printed Name) 		Date: _____	Time: _____	Received by: (Signature and Printed Name) 		Date: 6/14/12 Time: 813	
I hereby authorize ATL to perform the work indicated below: Project Mgr /Submitter: Rebecca Silva 6/13/12 (Print Name) Date  Signature		Send Report To: Attn: _____ Co: SAME AS ABOVE Address: _____ City: _____ State: _____ Zip: _____		Bill To: Attn: _____ Co: SAME AS ABOVE Address: _____ City: _____ State: _____ Zip: _____		Special Instructions/Comments: Caltrans billing per 06A1580	
Sample/Records - Archival & Disposal Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report. Storage Fees (applies when storage is requested): ■ Sample :\$2.00 / sample /mo (after 45 days) ■ Records: \$1 /ATL workorder /mo (after 1 year)				Circle or Add Analysis(es) Requested 8081A (Pesticides) _____ 8082 (PCB) _____ 8260B (Volatiles) _____ 8270C (BNA) _____ 6010B (Pesticides) _____ 8015B (GRO) / 8020 (BTX) _____ 8015B (DRO) / 8021 (BTX) _____ TITLE 22 / CAM 17 (6010 / 7000) _____ SOIL _____ WATER _____ GROUND WATER _____ WASTEWATER _____ CARBON _____		SPECIFY APPROPRIATE MATRIX Container(s) TAT # Type PRESERVATION QA/QC RTNE <input type="checkbox"/> CT <input checked="" type="checkbox"/> SWRCB <input type="checkbox"/> Logcode _____ OTHER _____ REMARKS	
ITEM	LAB USE ONLY: Lab No.	Sample Description Sample ID / Location		Date	Time	Container(s) TAT # Type	REMARKS
	1202186-21	B7-4.5		6/11/12	1403	E 1 T P	
	22	B8-0.0			1420	E	
	23	2.0			1421		
	24	4.5			1423	E	Hold
	25	B9-0.0			1430	E	
	26	2.0			1431	E	Hold
	27	4.5			1433	E	
	28	B16-0.0		6/12/12	710	E	
	29	2.0			711		Hold
	30	4.5			713	E	
■ TAT starts 8AM the following day if samples received after 3 PM		TAT: A = <input type="checkbox"/> Overnight ≤ 24 hrs	B = <input type="checkbox"/> Emergency Next Workday	C = <input type="checkbox"/> Critical 2 Workdays	D = <input type="checkbox"/> Urgent 3 Workdays	E = <input type="checkbox"/> Routine 7 Workdays	Preservatives: H=HCl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃
		Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal					

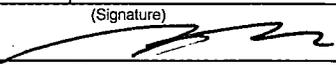
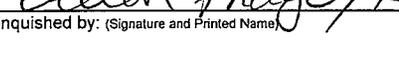
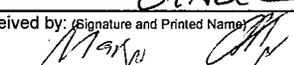
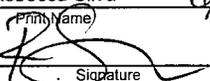
CHAIN OF CUSTODY RECORD

4/5

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		P.O. #: _____ Logged By: _____ Date: _____		Method of Transport Client <input type="checkbox"/> ATL <input type="checkbox"/> CA OverN <input type="checkbox"/> FedEx <input type="checkbox"/> Other: _____		Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input type="checkbox"/> 5. # OF SPLS MATCH COC Y <input type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>							
Client: GEOCON Consultants, Inc Attention: Rebecca Silva			Address: 3160 Gold Valley Drive, Suite 800 City: Rancho Cordova State: CA Zip Code: 95742			Tel: 916.852.9118 Fax: 916.852.9132							
Project Name: Crestview MS		Project #: S9525-06-51		Sampler: (Printed Name) Mike O'Brien		(Signature) 							
Relinquished by: (Signature and Printed Name) Mike O'Brien		Date: 6/13/12		Time: 0700		Received by: (Signature and Printed Name) Geocon Fridge							
Date: 6/13/12		Time: 1600		Received by: (Signature and Printed Name) OUTRAC		Date: 6/13/12 Time: 1600							
Relinquished by: (Signature and Printed Name) Geocon Fridge / R/S		Date: 6/13/12		Time: 1600		Received by: (Signature and Printed Name) Mary Ann							
Date: 6/13/12		Time: 813		Received by: (Signature and Printed Name) Mary Ann		Date: 6/14/12 Time: 813							
I hereby authorize ATL to perform the work indicated below: Project Mgr /Submitter: Rebecca Silva <i>6/13/12</i> Print Name Date  Signature		Send Report To: Attn: _____ Co: SAME AS ABOVE Address: _____ City: _____ State: _____ Zip: _____		Bill To: Attn: _____ Co: SAME AS ABOVE Address: _____ City: _____ State: _____ Zip: _____		Special Instructions/Comments: Caltrans billing per 06A1580							
Sample/Records - Archival & Disposal Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report. Storage Fees (applies when storage is requested): ■ Sample :\$2.00 / sample /mo (after 45 days) ■ Records: \$1 /ATL workorder /mo (after 1 year)				Circle or Add Analysis(es) Requested 8081A (Pesticides) / 8082 (PCB) / 8260B (Volatiles) / 8270C (BVA) / 6010B (Total Lead) / 8015B (GRO) / 8020 (BTEX) / 8015B (DRO) / 8021 (BTEX) / TITLE 22 / CAM 17 (6010 / 7000)				SPECIFY APPROPRIATE MATRIX SOIL / WATER / GROUND WATER / WASTEWATER / CARBON					
				PRESERVATION QAI/QC RTNE <input type="checkbox"/> CT <input checked="" type="checkbox"/> SWRCB <input type="checkbox"/> Logcode _____ OTHER _____ REMARKS									
I T E M	LAB USE ONLY:		Sample Description					Container(s)	TAT	#	Type		
	Lab No.	Sample ID / Location	Date	Time									
	1202186-31	B11-0.0	6/12/12	730						E	1	T P	
	32	↓ 2.0		731						E	1	T P	
	33	↓ 4.5		733						E	1	T P	
	34	B12-0.0		755						E	1	T P	
	35	↓ 2.0		756						E	1	T P	Hold
	36	↓ 4.5		758						E	1	T P	
	37	B13-0.0		820						E	1	T P	
	38	↓ 2.0		821						E	1	T P	Hold
	39	↓ 4.5		823						E	1	T P	
	B14-0.0			850						E	1	T P	
■ TAT starts 8AM the following day if samples received after 3 PM		TAT: A = <input type="checkbox"/> Overnight ≤ 24 hrs		B = <input type="checkbox"/> Emergency Next Workday		C = <input type="checkbox"/> Critical 2 Workdays		D = <input type="checkbox"/> Urgent 3 Workdays		E = <input type="checkbox"/> Routine 7 Workdays		Preservatives: H=HCl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃	
Container Types: T=Tube V=VOA L=Liter P=Pin J=Jar B=Tedlar G=Glass P=Plastic M=Metal													

CHAIN OF CUSTODY RECORD

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		P.O. #: _____ Logged By: _____ Date: _____		Method of Transport Client <input type="checkbox"/> ATL <input type="checkbox"/> CA OverN <input type="checkbox"/> FedEx <input type="checkbox"/> Other: _____		Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input type="checkbox"/> 5. # OF SPLS MATCH COC Y <input type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>			
Client: GEOCON Consultants, Inc Attention: Rebecca Silva			Address: 3160 Gold Valley Drive, Suite 800 City: Rancho Cordova State: CA Zip Code: 95742			Tel: 916.852.9118 Fax: 916.852.9132			
Project Name: Crestview MS		Project #: S9525-06-51		Sampler: (Printed Name) Mike O'Brien		(Signature) 			
Relinquished by: (Signature and Printed Name) Mike O'Brien		Date: 6/13/12 Time: 0700		Received by: (Signature and Printed Name) Geocon Fridge		Date: 6/13/12 Time: 0700			
Relinquished by: (Signature and Printed Name) Geocon Fridge / RES		Date: 6/13/12 Time: 1600		Received by: (Signature and Printed Name) OHAC		Date: 6/13/12 Time: 1600			
Relinquished by: (Signature and Printed Name) 		Date: _____ Time: _____		Received by: (Signature and Printed Name) 		Date: 6/14/12 Time: 813			
I hereby authorize ATL to perform the work indicated below: Project Mgr /Submitter: Rebecca Silva <i>6/13/12</i> (Print Name) Date Signature 		Send Report To: Attn: _____ Co: SAME AS ABOVE Address: _____ City: _____ State: _____ Zip: _____		Bill To: Attn: _____ Co: SAME AS ABOVE Address: _____ City: _____ State: _____ Zip: _____		Special Instructions/Comments: Caltrans billing per 06A1580			
Sample/Records - Archival & Disposal Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report. Storage Fees (applies when storage is requested): ■ Sample :\$2.00 / sample /mo (after 45 days) ■ Records: \$1 /ATL workorder /mo (after 1 year)				Circle or Add Analysis(es) Requested 8081A (Pesticides) / 8082 (PCB) / 8260B (Volatiles) / 8270C (BVA) / 6010R (Total Metal) / 8015R (GRO) / 8020 (BTEX) / 8015B (DRO) / 8021 (BTEX) / TITLE 22 / CAM 17 (6010 / 7000)				SPECIFY APPROPRIATE MATRIX SOIL / WATER / GROUND WATER / WASTEWATER / CARBON	
				PRESERVATION RTNE <input type="checkbox"/> CT <input checked="" type="checkbox"/> SWRCB Logcode _____ OTHER _____ REMARKS _____					
ITEM	LAB USE ONLY:	Sample Description							
	Lab No.	Sample ID / Location	Date	Time			Container(s) # Type		
		B14-2.0	6/12/12	851					
		↓ 4.5		853					
	1202186-40	B15-0.0	6/12/12	905	X	X	E 1 T P		
	41	↓ 2.0	↓	906			Hold		
	42	↓ 3.5	↓	908	X	X	E		
	43	B16-0.0	↓	920	X	X	E		
	44	↓ 2.0	↓	921			↓ ↓ ↓		
	45	↓ 4.5	↓	923	X	X	E ↓ ↓ ↓ Hold		
RES <i>6/13/12</i>									
■ TAT starts 8AM the following day if samples received after 3 PM		TAT: A = <input type="checkbox"/> Overnight ≤ 24 hrs		B = <input type="checkbox"/> Emergency Next Workday		C = <input type="checkbox"/> Critical 2 Workdays			
		D = <input type="checkbox"/> Urgent 3 Workdays		E = <input type="checkbox"/> Routine 7 Workdays		Preservatives: H=HCl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃			
Container Types: T=Tube V=VOA L=Liter P=Pin J=Jar B=Tedlar G=Glass P=Plastic M=Metal									

Carmen Aguila

From: Rebecca Silva [silva@geoconinc.com]
Sent: Thursday, June 14, 2012 9:32 AM
To: Carmen Aguila
Cc: Diane Galvan
Subject: Crestview MS

Hi Carmen – Please analyze B11-3.5 at 0732 for TPHg/BTEX and TPHd/mo.

Thanks!
Rebecca



Rebecca Silva, REA | *Senior Project Scientist*
Geocon Consultants, Inc.
3160 Gold Valley Drive Suite 800, Rancho Cordova, CA 95742
Tel 916.852.9118 Fax 916.852.9132 Cell 916.508.1910
<http://www.geoconinc.com>

ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT
GEOCON CONSULTANTS INC., AUGUST 2012

ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT



**Crestview Maintenance Station
Mono County, California**

PREPARED FOR:

**CALIFORNIA DEPARTMENT OF TRANSPORTATION
DISTRICT 6
855 M STREET, SUITE 200
FRESNO, CALIFORNIA 93721**



PREPARED BY:

**GEOCON CONSULTANTS, INC.
3160 GOLD VALLEY DRIVE, SUITE 800
RANCHO CORDOVA, CALIFORNIA 95742**



**GEOCON PROJECT NO. S9525-06-51
TASK ORDER NO. 51
E-FIS 09 1200 0009 (EA 09-353300)
CONTRACT NO 06A1580**

AUGUST 2012



Project No. S9525-06-51
August 8, 2012

Clemens Goewert, Task Order Manager
Caltrans District 6
855 M Street, Suite 200
Fresno, California 93721

Subject: ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT
CRESTVIEW MAINTENANCE STATION
MONO COUNTY, CALIFORNIA
CONTRACT NO. 06A1580
TASK ORDER NO. 51, EA NO. 09-353300
E-FIS PROJECT NO. 09-1200-0009

Dear Mr. Goewert:

In accordance with California Department of Transportation Contract No. 06A1580 and Task Order No. 51, we have performed an asbestos and lead-containing paint (LCP) survey of the subject facility in Mono County, California. The scope of services included surveying twelve structures for suspect asbestos-containing materials and LCP, collecting bulk samples, and submitting the samples to laboratories for analyses.

The accompanying report summarizes the services performed and laboratory analysis.

The contents of this report reflect the views of Geocon Consultants, Inc., who are responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the State of California or the Federal Highway Administration. This report does not constitute a standard, specification, or regulation.

Please contact us if you have questions concerning the contents of this report or if we may be of further service.

Sincerely,

GEOCON CONSULTANTS, INC.

Chris Giuntoli, CAC
Senior Project Scientist

John E. Juhrend, PE, CEG
Project Manager

(2 + 1 CD) Addressee
(2 + 1 CD) Caltrans District 9, Mr. Mark Heckman

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APPENDIX

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ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT

1.0 INTRODUCTION

This asbestos and lead-containing paint (LCP) survey report was prepared by Geocon Consultants, Inc. under Caltrans Contract No. 06A1580, Task Order No. 51 (TO-51).

1.1 Project Description

The Crestview Maintenance Station Project (EA 09-353300, E-FIS Project No. 09-1200-0009) is located on Highway 395 at Post Mile 34.1 in Mono County, California. We performed asbestos and LCP survey activities on the following twelve structures at the project location:

- Building 2569 (Truck Shed),
- Building 2570,
- Building 2571 (Sand Storage),
- Building 2572 (Wash House),
- Building 2573 (Sign/Barricade Storage),
- Building 6806 (Residence D-323),
- Building 20104 (Fire Hose Building),
- Building 20185 (Fire Hose Building),
- Valve Building No. 1,
- Wood Shed,
- Emulsion Tank, and
- Propane Tank.

The project location is depicted on the Vicinity Map (Figure 1), Site Layout Plan (Figure 2), and Site Plans (Figures 3a through 3d).

1.2 General Objectives

The primary purpose of the scope of services outlined in TO-51 was to determine the presence and quantity of asbestos construction materials and deteriorated LCP at the project location prior to planned demolition activities. The information obtained from this investigation will be used by Caltrans for waste profiling, determining California Occupational Safety and Health Administration (Cal/OSHA) applicability, and coordinating asbestos and LCP disturbance activities.

It was not Geocon's intent during this inspection to conduct an evaluation of lead-based paint hazards in accordance with U.S. Department of Housing and Urban Development (HUD) guidelines.

2.0 BACKGROUND

2.1 Asbestos

The Code of Federal Regulations (CFR), 40 CFR 61, Subpart M, National Emissions Standards for Hazardous Air Pollutants (NESHAP) and Federal Occupational Safety and Health Administration (FED OSHA) classify asbestos-containing material (ACM) as any material or product that contains *greater than* 1% asbestos. Nonfriable ACM is classified by NESHAP as either Category I or Category II material defined as follows:

- **Category I** – asbestos-containing packings, gaskets, resilient floor coverings, and asphalt roofing products.
- **Category II** – all remaining types of nonfriable asbestos-containing material not included in Category I that when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Regulated asbestos-containing material (RACM), a hazardous waste when friable, is classified as any manufactured material that contains *greater than* 1% asbestos by dry weight *and* is:

- Friable (can be crumbled, pulverized, or reduced to powder by hand pressure); or
- Category I material that has become friable; or
- Category I material that has been subjected to sanding grinding, cutting or abrading; or
- Category II nonfriable material that has a high probability of becoming crumbled, pulverized, or reduced to a powder during demolition or renovation activities.

Activities that disturb materials containing *any* amount of asbestos are subject to certain requirements of the Cal/OSHA asbestos standard contained in Title 8, CCR §1529. Typically, removal or disturbance of more than 100 square feet of material containing more than 0.1% asbestos must be performed by a registered asbestos abatement contractor, but associated waste labeling is not required if the material contains 1% or less asbestos. When the asbestos content of a material exceeds 1%, virtually all requirements of the standard become effective.

Materials containing greater than 1% asbestos are also subject to NESHAP regulations (40 CFR Part 61, Subpart M). RACM (friable ACM and nonfriable ACM that will become friable during demolition operations) must be removed from structures prior to demolition. Certain nonfriable ACM and materials containing 1% or less asbestos may remain in structures during demolition; however, there are waste handling/disposal issues and Cal/OSHA work requirements that must be addressed. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

With respect to potential worker exposure, notification, and registration requirements, Cal/OSHA defines asbestos-containing construction material (ACCM) as construction material that contains greater than 0.1% asbestos (Title 8, CCR 341.6).

2.2 Lead Paint

Construction activities (including demolition) that disturb materials or paints containing *any* amount of lead are subject to certain requirements of the Cal/OSHA lead standard contained in Title 8, CCR, §1532.1. Deteriorated paint is defined by Title 17, CCR, Division 1, Chapter 8, §35022 as a surface coating that is cracking, chalking, flaking, chipping, peeling, non-intact, failed, or otherwise separated from a component. Demolition of a deteriorated LCP component would require waste characterization and appropriate disposal. Intact LCP on a component is currently accepted by most landfill facilities; however, contractors are responsible for segregating and characterizing waste streams prior to disposal.

For a solid waste containing lead, the waste is classified as California hazardous when: 1) the representative total lead content equals or exceeds the respective Total Threshold Limit Concentration (TTLC) of 1,000 milligrams per kilogram (mg/kg); or 2) the representative soluble lead content equals or exceeds the respective Soluble Threshold Limit Concentration (STLC) of 5 milligrams per liter (mg/l) based on the standard Waste Extraction Test (WET). A waste has the potential for exceeding the lead STLC when the waste's total representative lead content is greater than or equal to ten times the respective STLC value since the WET uses a 1:10 dilution ratio. Hence, when total lead is detected at a concentration greater than or equal to 50 mg/kg, and assuming that 100 percent of the total lead is soluble, soluble lead analysis is required. Lead-containing waste is classified as "Resource, Conservation, and Recovery Act" (RCRA) hazardous, or Federal hazardous, when the soluble lead content equals or exceeds the Federal regulatory level of 5 mg/l based on the Toxicity Characteristic Leaching Procedure (TCLP).

The above regulatory criteria are based on chemical concentrations. Wastes may also be classified as hazardous based on other criteria such as ignitability; however, for the purposes of this investigation, toxicity (i.e., lead concentrations) is the primary factor considered for waste classification since waste generated during the construction activities would not likely warrant testing for ignitability or other criteria. Waste that is classified as either California hazardous or RCRA hazardous requires management as a hazardous waste.

Potential hazards exist to workers who remove or cut through LCP coatings during demolition. Dust containing hazardous concentrations of lead may be generated during scraping or cutting materials coated with lead-containing paint. Torching of these materials may produce lead oxide fumes. Therefore, air monitoring and/or respiratory protection may be required during the demolition of materials coated with LCP. Guidelines regarding regulatory provisions for construction work where workers may be exposed to lead are presented in the Title 8, CCR, §1532.1.

2.3 Architectural Drawings and Previous Survey Activities

We reviewed a prior survey report provided by Caltrans titled, *Asbestos Survey Reports for the Department of Transportation, District 9, Bishop*, dated December 1999, (1999 Asbestos Survey Report) for information pertaining to previously identified ACMs at twelve structures at the project location. The 1999 Asbestos Survey Report was prepared by the California Department of General Services and is a compilation of prior asbestos surveys at the project location. Asbestos-containing materials identified in the 1999 Asbestos Survey Report associated with structures included during our current survey consisted of the following:

Building 2569 (Truck Shed)

- Approximately 510 linear feet of friable asbestos-containing 4-inch-diameter pipe insulation (horizontal pipe runs);
- Approximately 61 friable asbestos-containing 4-inch-diameter pipe insulation (mudded fittings);
- Approximately 140 square feet of friable asbestos-containing hot water tank insulating jacket; and
- Approximately 1,400 square yards of nonfriable asbestos-containing exterior stucco.

Building 2570

- Approximately 720 square feet of nonfriable asbestos-containing cementitious shingles.

Building 20104 (Fire Hose Building)

- Approximately 160 square feet of nonfriable asbestos-containing cementitious shingles.

Asbestos was not reported in samples collected from Building 2572 (Wash House), Building 2573 (Sign/Barricade Storage), or Building 6806 (Residence D-323). Suspect asbestos-containing materials were not observed at Building 2571 (Sand Storage) and Building 20185 (Fire Hose Building). Information pertaining to surveys at Valve Building No. 1, the Wood Shed, the Emulsion Tank, and the Propane Tank were not included in the 1999 Asbestos Survey Report. The 1999 Asbestos Survey Report did not include analysis of paint samples for lead.

Architectural drawings of the twelve structures at the project location were not available for our review.

3.0 SCOPE OF SERVICES

Mr. Chris Giuntoli, a California-Certified Asbestos Consultant (CAC), certification No. 02-3163 (expiration June 19, 2013), and Certified Lead Paint Inspector/Assessor with the California Department of Public Health (DPH), certification number I-5502 (expiration June 14, 2013), performed the asbestos and LCP survey at the project location on May 30 and 31, 2012.

3.1 Asbestos

Suspect ACM were grouped into homogeneous areas with representative samples randomly collected from each. In addition, each potential ACM was evaluated for friability. A total of 128 bulk asbestos samples representing 53 material types were collected.

Our procedures for inspection and sampling in accordance with TO-51 are discussed below:

- Collected bulk asbestos samples after first wetting friable material with a light mist of water. The samples were then cut from the substrate and transferred to a labeled container. Note that when multiple samples were collected, the sampling locations were distributed throughout the homogeneous area (spaces where the material was observed).
- Relinquished bulk asbestos samples under chain-of-custody protocol to EMSL Analytical, Inc., a California-licensed and Caltrans-approved subcontractor, for asbestos analysis in accordance with United States Environmental Protection Agency (EPA) Test Method 600/R-93/116 using polarized light microscopy (PLM) and quantitation using 400 Point Count procedures. EMSL Analytical, Inc. is a laboratory accredited by the National Institute of Standards and Technology National Voluntary Laboratory Accreditation Program (NIST-NVLAP) for bulk asbestos fiber analysis. The laboratory analyses were requested on a ten-day turnaround time.

Sample group identification numbers, material descriptions, approximate quantities, friability assessments, and photo references are summarized in Table 1. Approximate sample locations are presented on Figures 3a through 3d. Materials represented by the samples collected are shown in the attached photographs.

3.2 Lead Paint

A total of 15 bulk paint samples were collected from suspect LCP observed at the project location. Our sampling procedures in accordance with TO-51 are discussed below:

- Collected bulk samples of suspect LCP using techniques presented in HUD guidelines. In addition, the painted areas were evaluated for evidence of deterioration such as flaking or cracking.
- Relinquished bulk LCP samples under chain-of-custody protocol to Advanced Technology Laboratories, a California-licensed and Caltrans-approved subcontractor, for lead analysis in accordance with EPA Test Method 6010B. Additionally, three samples were analyzed for WET lead by EPA Test Method 7420 and a composite analysis of ten samples of deteriorated paint with total lead concentrations greater than 1,000 mg/kg were analyzed for TCLP lead by EPA Test Method 1311. Advanced Technology Laboratories is accredited by the DPH for lead analysis. The laboratory analysis was requested on a 7-day turnaround time.

Deteriorated paint was not observed at Building 2573 or Valve Building No. 1, and painted surfaces were not observed at the Emulsion Tank. Consequently, paint samples were not collected from these structures.

Paint sample identification numbers, descriptions, peeling and flaking quantities, and photo references are summarized in Table 2. Approximate sample locations are presented on Figures 3a through 3d. Materials represented by the samples collected are shown in the attached photographs.

4.0 INVESTIGATIVE RESULTS

4.1 Asbestos Analytical Results

A summary of the analytical laboratory test results for asbestos is presented on Table 1. Reproductions of the laboratory reports and chain-of-custody documentation are presented in Appendix A.

4.1.1 Building 2569 (Truck Shed)

Chrysotile asbestos at a concentration of 35% was detected in samples representing approximately 100 square feet of friable fire door core material at the boiler room.

Chrysotile asbestos at a concentration of 0.50% using PLM point count analysis (400 points) was detected in samples representing approximately 100 square feet of nonfriable window putty.

Chrysotile and amosite asbestos at a combined concentration of 22% were detected in a sample representing approximately 200 square feet of friable 12-inch-diameter pipe insulation located in the boiler room.

Amosite asbestos at a concentration of 18% was detected in a sample representing approximately 900 square feet of friable 4-inch-diameter pipe insulation suspended from the ceilings of the avalanche room and the truck bays.

Amosite asbestos at a concentration of 20% was detected in a sample representing approximately 75 square feet of friable 4-inch-diameter mudded pipe insulation (pipe fittings) suspended from the ceilings of the truck bays and avalanche room.

Chrysotile asbestos at a concentration of 70% was detected in samples representing approximately 11,000 square feet of nonfriable textured coating on the exterior sheet metal walls and roof of the southern portion of the building.

Chrysotile asbestos at a concentration of 60% was detected in samples representing approximately 50 square feet of nonfriable asphalt roofing mastic on the southern portion of the building

Approximately 140 square feet of friable asbestos-containing hot water tank insulating jacket in the boiler room was identified in the 1999 Asbestos Survey Report.

No asbestos was detected in samples of the remaining suspect materials collected from Building 2569. We did not observe exterior stucco at Building 2569 indicated in the 1999 Asbestos Survey Report during our asbestos survey.

4.1.2 Building 2570

Chrysotile and crocidolite asbestos at a combined concentration of 32% was detected in a sample representing approximately 300 square feet of nonfriable cementitious shingles on the exterior walls of the building.

No asbestos was detected in samples of the remaining suspect materials collected from Building 2570.

4.1.3 Building 2571 (Sand Storage)

No asbestos was detected in samples of the suspect materials collected from Building 2571.

4.1.4 Building 2572 (Wash House)

Chrysotile asbestos at a concentration of 10% was detected in samples representing approximately 25 square feet of nonfriable roof mastic.

Additionally, approximately 10 square feet of nonfriable assumed asbestos-containing cementitious flue pipe was observed in the attic.

No asbestos was detected in samples of the remaining suspect materials collected from Building 2572.

4.1.5 Building 2573 (Sign/Barricade Storage)

No asbestos was detected in samples of the remaining suspect materials collected from Building 2573.

4.1.6 Building 6806 (Residence D-323)

Chrysotile asbestos at a concentration of 2% was detected in samples representing joint compound associated with approximately 3,500 square feet of gypsum board wall system. The composite asbestos content (gypsum board and joint compound) ranged from 0.25% to 0.50% using PLM point count analysis (400 points).

Chrysotile asbestos at a concentration of 10% was detected in a sample representing approximately 50 square feet of nonfriable asphalt roof mastic.

Additionally, approximately 50 square feet of nonfriable assumed asbestos-containing cementitious flue pipe was observed in the attic.

No asbestos was detected in samples of the remaining suspect materials collected from Building 6806.

4.1.7 Building 20104 (Fire Hose Building)

Chrysotile asbestos at a concentration of 40% was detected in a sample representing approximately 200 square feet of nonfriable cementitious shingles on the roof.

No asbestos was detected in samples of the remaining suspect materials collected from Building 20104.

4.1.8 Building 20185 (Fire Hose Building)

No asbestos was detected in samples of the suspect materials collected from Building 20185.

4.1.9 Valve Building No. 1

Chrysotile asbestos at a concentration of 30% was detected in a sample representing approximately 250 square feet of nonfriable cementitious shingles on the exterior walls.

No asbestos was detected in samples of the remaining suspect materials collected from Valve Building No. 1.

4.1.10 Wood Shed

No asbestos was detected in samples of the suspect material collected from the Wood Shed.

4.1.11 Emulsion Tank

Chrysotile asbestos at a concentration of 2% was detected in samples representing approximately 50 square feet of nonfriable white sealant located on the tank jacket.

Chrysotile asbestos at a concentration of 5% was detected in samples representing approximately 1,800 square feet of nonfriable asphalt sheeting located beneath the tank jacket.

Amosite asbestos at a concentration of 35% was detected in samples representing approximately 25 square feet of friable 4-inch-diameter pipe insulation located within assumed asbestos-containing cementitious vertical conduits adjacent to the west side of the tank. Additional asbestos-containing pipe insulation may be present on inaccessible below-grade piping.

Additionally, approximately 50 square feet of nonfriable assumed asbestos-containing cementitious vertical conduit was observed adjacent to the western side of the tank. The assumed asbestos-containing cementitious conduit may be present below grade and connect to the adjacent Building 2569.

No asbestos was detected in samples of the remaining suspect materials collected from the Emulsion Tank.

4.1.12 Propane Tank

No asbestos fibers were observed in samples of the suspect material collected from the Propane Tank.

4.2 Paint Analytical Results

A summary of the analytical laboratory test results for paint is presented in Table 2. Reproductions of the laboratory reports and chain-of-custody documentation are presented in Appendix A.

4.2.1 Building 2569 (Truck Shed)

A sample representing approximately 100 square feet of deteriorated white interior paint on the ceiling of the southern portion of the building exhibited a total lead concentration of 7,900 mg/kg.

A sample representing intact brown paint used on the building girders exhibited a total lead concentration of 52,000 mg/kg.

A sample representing approximately 250 square feet of deteriorated gray paint used on the exterior walls of the avalanche room exhibited a total lead concentration of 2,600 mg/kg.

A sample representing approximately 250 square feet of deteriorated gray paint used on the exterior walls of the northern portion of the building exhibited a total lead concentration of 12,000 mg/kg.

4.2.2 Building 2570

A sample representing approximately 20 square feet of deteriorated tan exterior paint exhibited a total lead concentration of 51 mg/kg and a soluble (WET) lead concentration of 0.83 mg/l.

A sample representing approximately 5 square feet of deteriorated brown exterior trim exhibited a total lead concentration of 11,000 mg/kg.

4.2.3 Building 2571 (Sand Storage)

A sample representing intact black paint on the building girders exhibited a total lead concentration of 53 mg/kg, a soluble (WET) lead concentration of 3.2 mg/l.

A sample representing approximately 250 square feet of deteriorated green exterior paint on the concrete base walls exhibited a total lead concentration of 390 mg/kg and a soluble (WET) lead concentration of 0.78 mg/l.

4.2.4 Building 2572 (Wash House)

A sample representing approximately 300 square feet of deteriorated white exterior paint exhibited a total lead concentration of 2,200 mg/kg.

4.2.5 Building 6806 (Residence D-323)

A sample representing approximately 500 square feet of deteriorated white exterior paint exhibited a total lead concentration of 46,000 mg/kg.

A sample representing approximately 75 square feet of deteriorated green exterior trim exhibited a total lead concentration of 50,000 mg/kg.

4.2.6 Building 20104 (Fire Hose Building)

A sample representing approximately 50 square feet of deteriorated white exterior paint exhibited a total lead concentration of 10,000 mg/kg.

4.2.7 Building 20185 (Fire Hose Building)

A sample representing approximately 50 square feet of deteriorated white exterior paint exhibited a total lead concentration of 4,400 mg/kg.

4.2.8 Wood Shed

A sample representing approximately 30 square feet of deteriorated brown door paint exhibited a total lead concentration of 10,000 mg/kg.

4.2.9 Propane Tank

A sample representing intact white exterior paint exhibited a total lead concentration of 3,600 mg/kg.

4.2.10 Composite Paint Sample

A ten-part composite sample representing samples of paint collected from the seven structures with total lead concentrations greater than 1,000 mg/kg exhibited a soluble (TCLP) lead concentration of 26 mg/l.

5.0 RECOMMENDATIONS

Based on our findings, we recommend the following:

5.1 Asbestos

NESHAP regulations require that the following asbestos-containing materials be removed and disposed of prior to demolition or other activities that would disturb the material:

Building 2569

- Friable fire door core (a friable RACM),
- Pipe insulation on pipe runs and fittings (a friable RACM), and
- Hot water tank jacket insulation (a friable RACM).

If exterior stucco is encountered at Building 2569 (as indicated in the 1999 Asbestos Survey Report), the stucco should be treated as asbestos-containing material and removed prior to demolition unless it is first sampled and evaluated for asbestos content and appropriate waste management or determined not to contain asbestos.

Buildings 2570, 20104, and Valve Building No. 1

- Nonfriable cementitious shingles on exterior walls and/or roofs (a Category II nonfriable/nonhazardous material).

Buildings 2572 and 6806

- Assumed asbestos-containing flue pipe (a Category II nonfriable/nonhazardous material).

Emulsion Tank

- Pipe insulation on pipe runs (a friable RACM), and
- Assumed asbestos-containing pipe conduits (a Category II nonfriable/nonhazardous material).

A licensed and certified asbestos abatement contractor must perform the asbestos abatement activities.

NESHAP regulations do not require that asbestos-containing textured coating (Building 2569, southern exterior walls and roof), roofing mastic, sealant and asphalt sheeting (Category I nonfriable/nonhazardous materials) or materials containing 1% or less asbestos (i.e., window putty and gypsum board systems) identified during our survey be removed prior to demolition or treated as hazardous waste. However, the disturbance of these materials is still covered by the Cal/OSHA asbestos standard (Title 8, CCR §1529). A licensed and certified asbestos abatement contractor must perform activities, including demolition, that would disturb these asbestos-containing materials. Contractors are responsible for informing the landfill of the contractor's intent to dispose of

asbestos-containing waste. Some landfills may require additional waste characterization. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

We also recommend written notification to contractors (that will be conducting related activities) and maintenance station employees of the presence of asbestos (i.e., provide the contractor[s] and employees with a copy of this report and a list of asbestos removed by a licensed contractor[s] during subsequent abatement activities). Contractors not trained for asbestos work should be instructed not to disturb asbestos.

In accordance with Great Basin Unified Air Pollution Control District Rule 1002, written notification is required ten working days prior to commencement of *any* demolition activity (whether asbestos is present or not) and for renovation activities involving specified quantities of RACM. In accordance with Title 8, CCR 341.9, written notification to the nearest Cal/OSHA district office is required at least 24 hours prior to certain asbestos-related work.

5.2 Lead Paint

Deteriorated paints identified during our survey at Buildings 2569, 2570 (exterior trim), 2572, 6806, 20104, 20185, and the Wood Shed would be classified as both California and Federal (RCRA) hazardous waste based on total lead and TCLP lead content. Deteriorated paints classified as RCRA and/or California hazardous must be removed and disposed of prior to renovation, demolition, or other activities that would disturb them. The contractor should be required to use personnel who have lead-related construction certification as supervisors or workers, as appropriate, from the California DPH for LCP removal work. Loose and peeling/flaking paints with hazardous lead levels require removal prior to demolition for waste segregation purposes: to separate potentially hazardous waste (Category III concentrated lead such as loose paint, paint sludge, vacuum debris, and vacuum filters) from non-hazardous demolition debris (Category II intact lead-painted architectural components such as doors, windows, framework, cladding, and trim). Category I waste is low lead waste (typically non-hazardous) such as construction materials, filtered wash water, and plastic sheeting. Contractors are responsible for informing the landfill of the contractor's intent to dispose of RCRA waste, California hazardous waste, and/or architectural components containing intact LCP. Some landfills may require additional waste characterization. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

Intact paints identified at Building 2569 (girder system) and the Propane Tank (exterior) during our survey would be classified as California and Federal hazardous waste based on lead content if stripped, blasted, or otherwise separated from the substrate.

Deteriorated tan exterior paint on Building 2570 and green paint on Building 2571 exterior concrete walls identified during our survey would not be classified as California or Federal hazardous waste based on lead content. Additionally, intact black paint on Building 2571 girders identified during our survey would not be classified as California or Federal hazardous waste based on lead content if stripped, blasted, or otherwise separated from the substrate.

Geocon recommends that all paints at the project location be treated as lead-containing for purposes of determining the applicability of the Cal/OSHA lead standard during any future maintenance, renovation, and demolition activities. This recommendation is based on LCP sample results and the fact that lead was a common ingredient of paints manufactured before 1978 and is still an ingredient of some industrial paints. In accordance with Title 8, CCR, Section 1532.1(p), written notification to the nearest Cal/OSHA district office is required at least 24 hours prior to certain lead-related work.

6.0 REPORT LIMITATIONS

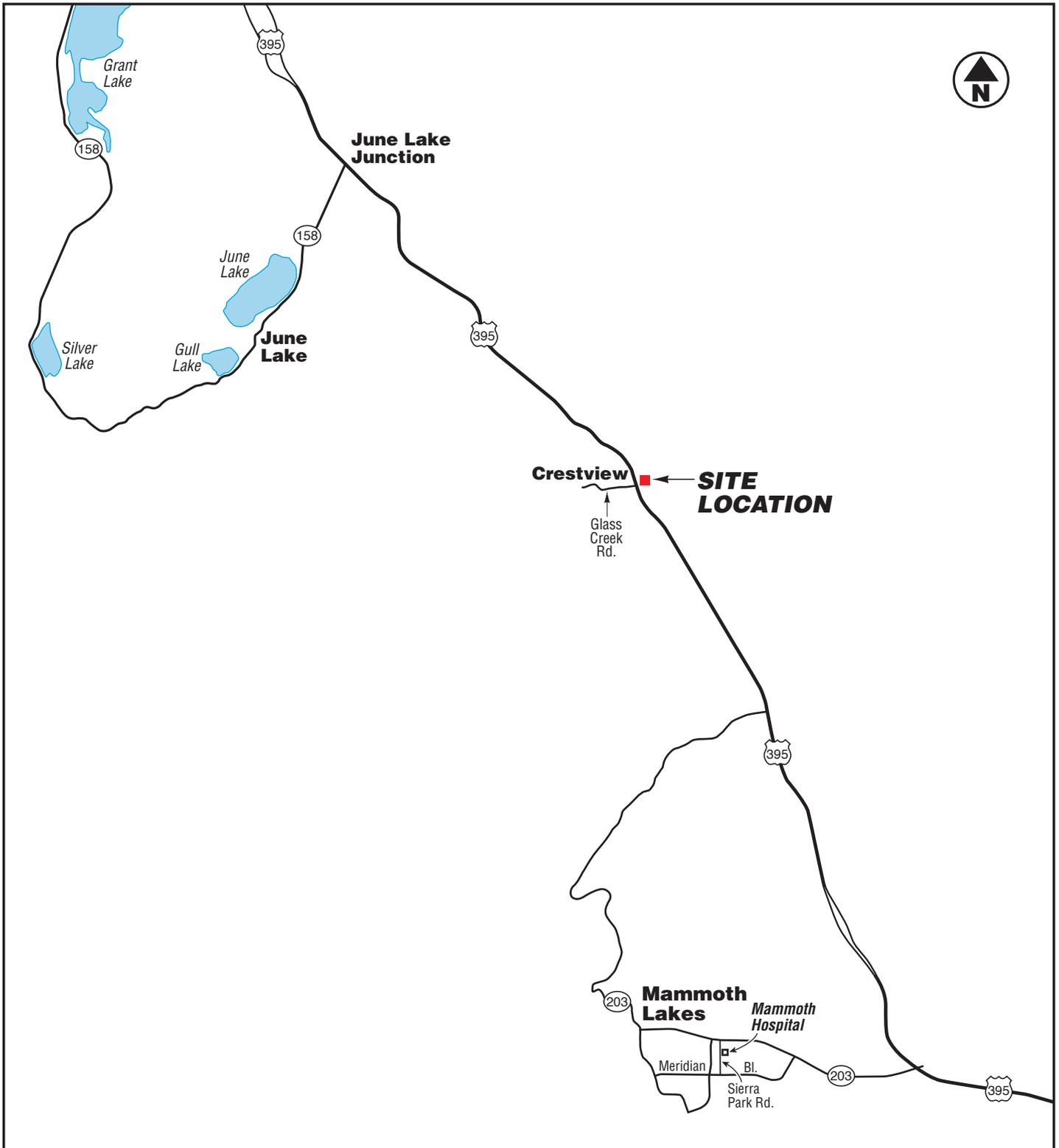
This asbestos and LCP survey was conducted in conformance with generally accepted standards of practice for identifying and evaluating asbestos and LCP in structures. The survey addressed only the structures identified in Section 1.1. Due to the nature of structure surveys, asbestos and LCP use, and laboratory analytical limitations, some ACM or LCP at the project location may not have been identified. Spaces such as cavities, voids, crawlspaces, and pipe chases may have been concealed to our investigator. Previous renovation work may have concealed or covered spaces or materials or may have partially demolished materials and left debris in inaccessible areas. Additionally, renovation activities may have partially replaced ACM with indistinguishable non-ACM. Asbestos and/or LCP may exist in areas of the structures that were not accessible or sampled in conjunction with this TO.

During renovation or demolition operations, suspect materials may be uncovered which are different from those accessible for sampling during this assessment. Personnel in charge of renovation/demolition should be alerted to note materials uncovered during such activities that differ substantially from those included in this or previous assessment reports. If suspect ACM and/or LCP are found, additional sampling and analysis should be performed to determine if the materials contain asbestos or lead.

This report has been prepared exclusively for Caltrans. The information contained herein is only valid as of the date of the report and will require an update to reflect additional information obtained.

This report is not a comprehensive site characterization and should not be construed as such. The findings as presented in this report are predicated on the results of the limited sampling and laboratory testing performed. In addition, the information obtained is not intended to address potential impacts related to sources other than those specified herein. Therefore, the report should be deemed conclusive with respect to only the information obtained. We make no warranty, express or implied, with respect to the content of this report or any subsequent reports, correspondence or consultation. Geocon strived to perform the services summarized herein in accordance with the local standard of care in the geographic region at the time the services were rendered.

The contents of this report reflect the views of the author who is responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the State of California or the Federal Highway Administration. This report does not constitute a standard, specification or regulation.



 GEOCON CONSULTANTS, INC. <small>3160 GOLD VALLEY DR - SUITE 800 - RANCHO CORDOVA, CA 95742 PHONE 916.852.9118 - FAX 916.852.9132</small>		Crestview Maintenance Station	
		Highway 395, Post Mile 34.1 Mono County, California	
GEOCON Proj. No. S9525-06-51 Task Order No. 51 E-FIS 09 1200 0009 (EA 09-353300) Caltrans Contract 06A1580		VICINITY MAP	
		August 2012	Figure 1



0 100
Scale in Feet



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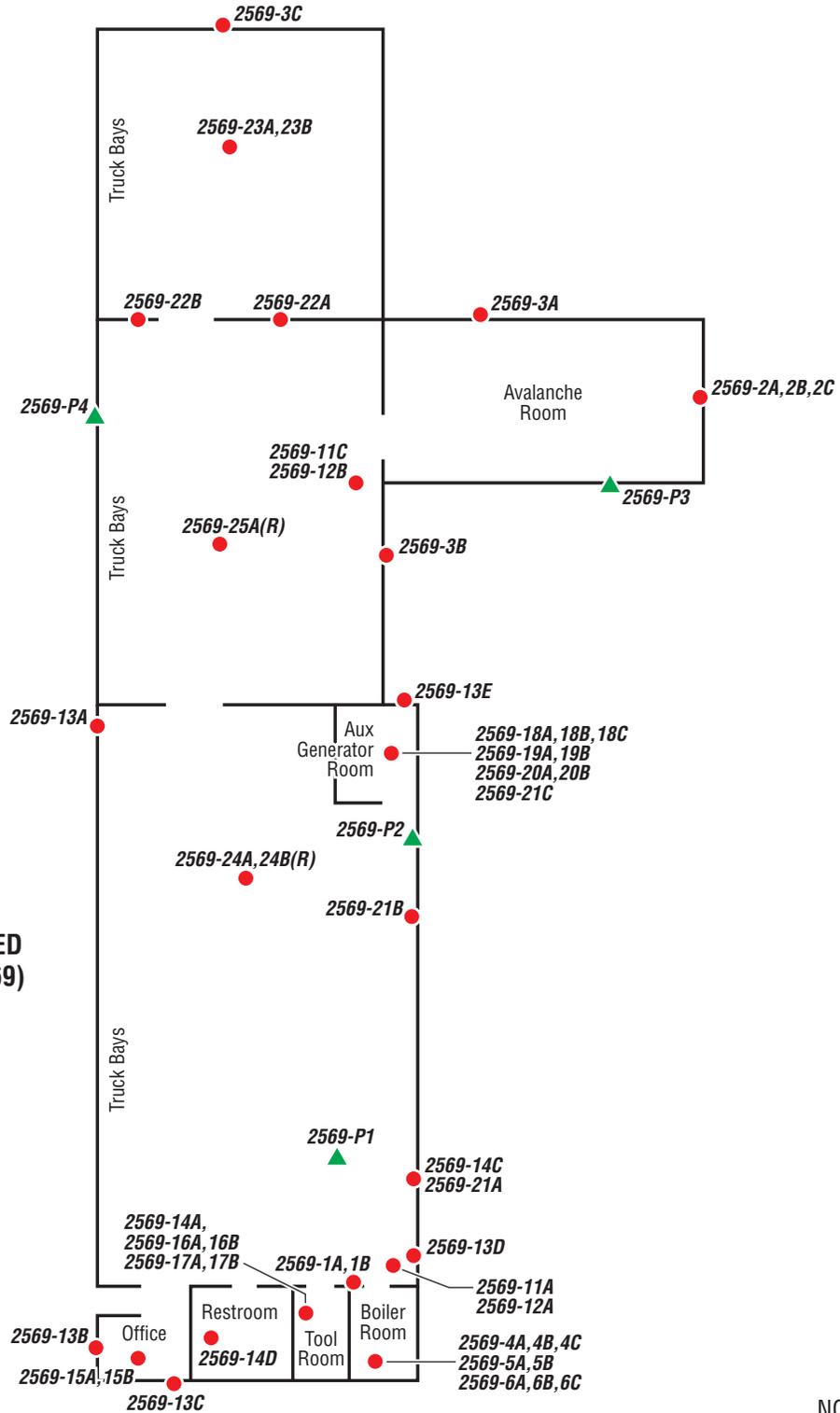
**SITE LAYOUT
PLAN**

August 2012

Figure 2



**TRUCK SHED
(BLDG. 2569)**



NOT TO SCALE

LEGEND:

- Approximate Asbestos Sample Location
- ▲ Approximate Paint Sample Location
- (R) Roof Location



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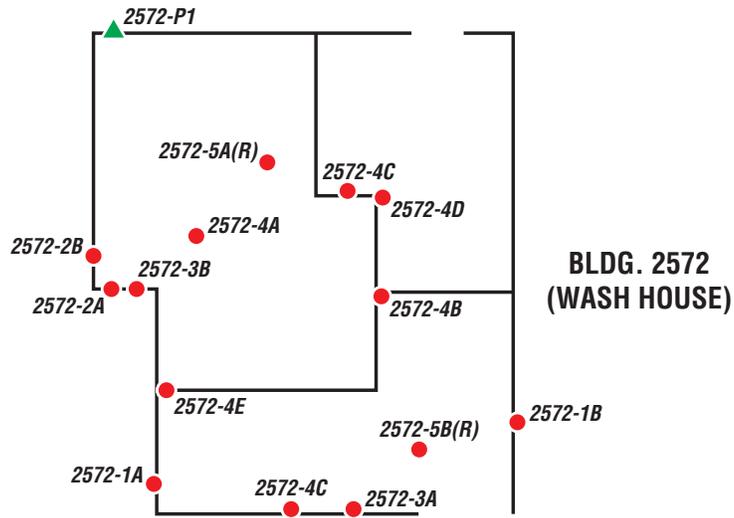
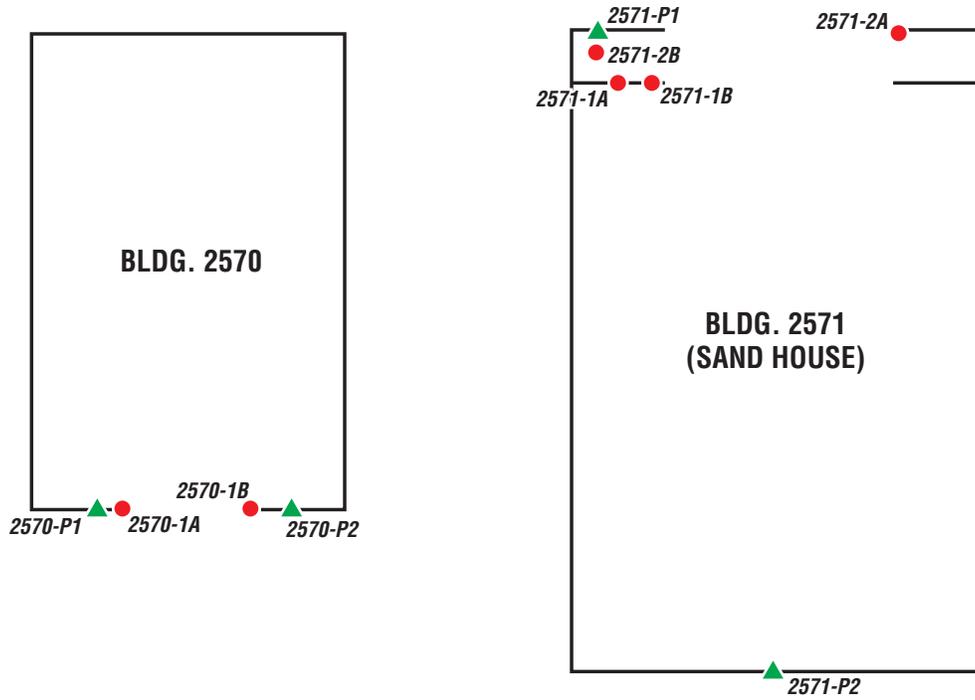
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Mono County, California

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SITE PLAN

August 2012

Figure 3a



NOT TO SCALE

LEGEND:

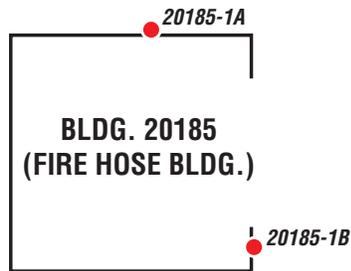
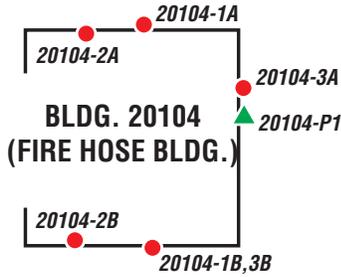
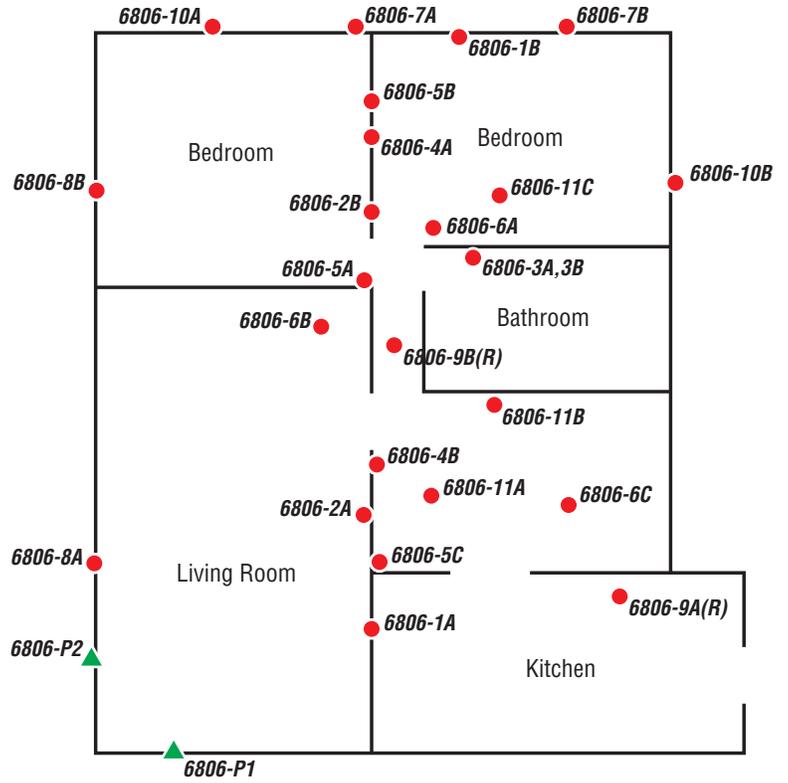
- Approximate Asbestos Sample Location
- ▲ Approximate Paint Sample Location
- (R) Roof Location



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August 2012	Figure 3b

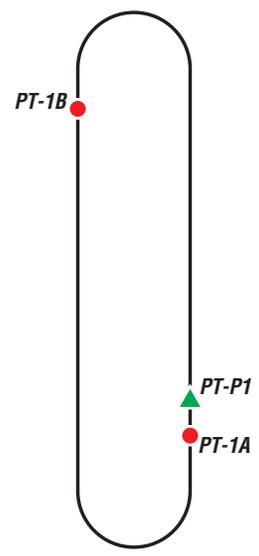
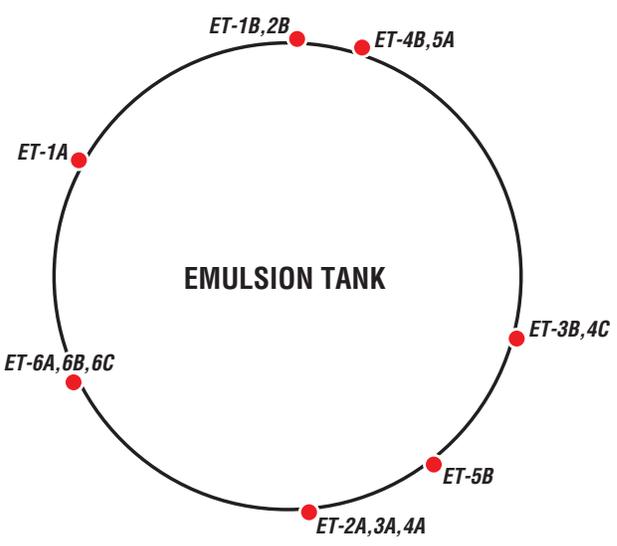
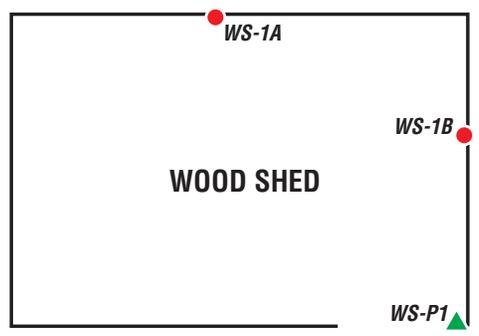
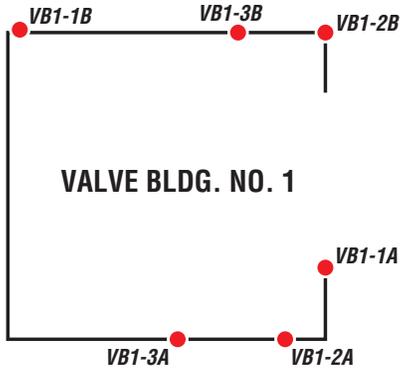


NOT TO SCALE

LEGEND:

- Approximate Asbestos Sample Location
- ▲ Approximate Paint Sample Location
- (R) Roof Location

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SITE PLAN	
August 2012	Figure 3c



BLDG. 2569



NOT TO SCALE

- LEGEND:
- Approximate Asbestos Sample Location
 - ▲ Approximate Paint Sample Location
 - (R) Roof Location

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GEOCON Proj. No. S9525-06-51 Task Order No. 51 E-FIS 09 1200 0009 (EA 09-353300) Caltrans Contract 06A1580	August 2012 Figure 3d



Photo 1 – Building 2569 (Truck Shed)



Photo 2 – Fire door with asbestos-containing core material located, Building 2569 boiler room



Photo 3 – Batting insulation, Building 2569 avalanche room



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PHOTOGRAPHS 1, 2, & 3

Crestview Maintenance Station
Mono County, California

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Photo 4 – Asbestos-containing window putty, Building 2569



Photo 5 – Fiberglass pipe and fitting insulation (3-inch-diameter) and asbestos-containing pipe insulation (12-inch-diameter), Building 2569 boiler room



Photo 6 – Boiler, including boiler insulation and gasket material, Building 2569 boiler room



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PHOTOGRAPHS 4, 5, & 6

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Photo 7 – Asbestos-containing hot water tank jacket, Building 2569 boiler room



Photo 8 – Asbestos-containing pipe and fitting insulation (4-inch-diameter), Building 2569 truck bays



Photo 9 – Asbestos-containing textured coating, Building 2569 exterior walls and roof (southern portion)



Photo 10 – Plaster, Building 2569 interior walls and ceiling (southern portion)



Photo 11 – Gypsum board wall system, Building 2569 south office



Photo 12 – Blower duct tape and vibration collar, Building 2569 tool room



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PHOTOGRAPHS 10, 11, & 12

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Photo 13 – Yellow insulation (auxiliary generator exhaust pipe and fittings) and gypsum board wall system, Building 2569 generator room



Photo 14 – Gypsum board wall system, Building 2569 north attic



Photo 15 – Asphalt sheet walkway, Building 2569 north attic



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PHOTOGRAPHS 13, 14, & 15

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Photo 16 – Asbestos-containing gray roof mastic, Building 2569 vent pipes (southern portion)



Photo 17 – White roof mastic, Building 2569 vent pipes (northern portion)



Photo 18 – Gray exterior paint, Building 2570 avalanche room



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PHOTOGRAPHS 16, 17, & 18

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Photo 19 – Gray exterior paint, Building 2569 (northern portion)



Photo 20 – Fire door, tan and brown exterior paint, and asbestos-containing cementitious shingles, Building 2570



Photo 21 – Building 2571 (Sand House)



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PHOTOGRAPHS 19, 20, & 21

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Photo 22 – Mortar, Building 2571 north interior retaining walls



Photo 23 – Black textured coating, Building 2571 girders (lower portions)



Photo 24 – Light-green exterior paint, Building 2571



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PHOTOGRAPHS 22, 23, & 24

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Photo 25 – Building 2572 (Wash House)



Photo 26 – Window putty, Building 2572



Photo 27 – Asbestos-containing roof mastic, Building 2572



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PHOTOGRAPHS 25, 26, & 27

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Photo 28 – Assumed asbestos-containing cementitious flue pipe, Building 2572 roof



Photo 29 – Building 2573 (Sign/Barricade Storage)



Photo 30 – Silver paint, Building 2573 exterior walls



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PHOTOGRAPHS 28, 29, & 30

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Photo 31 – Building 6806 (Residence D-323)



Photo 32 – Brown wood-pattern 12-inch by 12-inch resilient floor tile (press-apply) and gray baseboard, Building 6806 kitchen, living room, and bedrooms

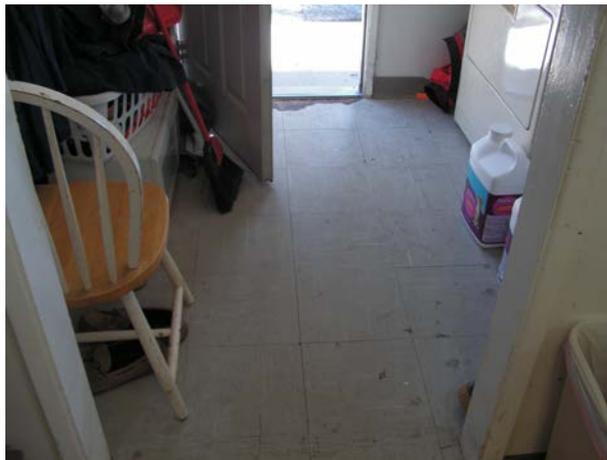


Photo 33 – Gray 12-inch by 12-inch resilient floor tile, Building 6806 entry and beneath press-apply floor tiles



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PHOTOGRAPHS 31, 32, & 33

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Photo 34 – Brown tile-pattern 12-inch by 12-inch resilient floor tile (press-apply), Building 6806 bathroom



Photo 35 – Gypsum board wall system with asbestos-containing joint compound, Building 6806 interior



Photo 36 – Batting insulation, Building 6806 attic



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PHOTOGRAPHS 34, 35, & 36

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Photo 37 – Vapor barrier, Building 6806



Photo 38 – Window putty, and white and green exterior paint, Building 6806



Photo 39 – Asbestos-containing roof mastic, Building 6806



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PHOTOGRAPHS 37, 38, & 39

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Photo 40 – Pipe insulation, Building 6806 crawlspace



Photo 41 – Assumed asbestos-containing cementitious flue pipes, Building 6806 attic



Photo 42 – Building 20104 (Fire Hose Building)



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PHOTOGRAPHS 40, 41, & 42

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Photo 43 – Vapor barrier and asbestos-containing cementitious shingles, Building 20104 roof



Photo 44 – Exterior paint, Building 20104



Photo 45 – Building 20185 (Fire Hose Building)



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PHOTOGRAPHS 43, 44, & 45

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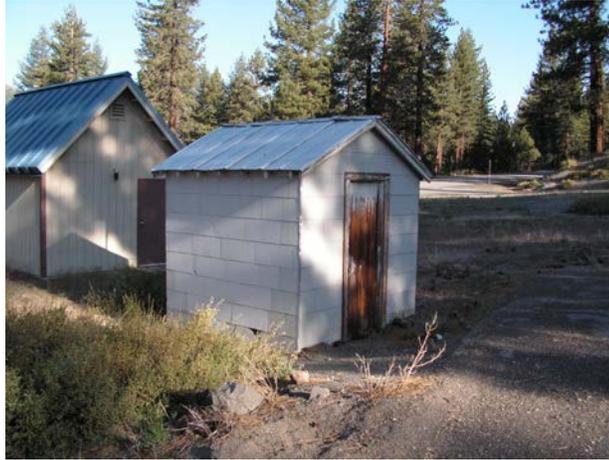


Photo 46 – Asbestos-containing cementitious shingles, Valve Building No. 1



Photo 47 – Gypsum board wall system, Valve Building No. 1

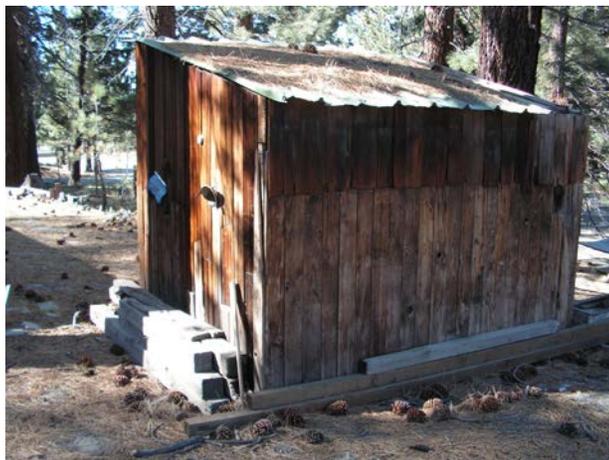


Photo 48 – Wood Shed



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PHOTOGRAPHS 46, 47, & 48

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Photo 49 – Vapor barrier, Wood Shed



Photo 50 – Gray door paint, Wood Shed



Photo 51 – Emulsion Tank



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PHOTOGRAPHS 49, 50, & 51

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Photo 52 – Asbestos-containing white sealant, Emulsion Tank jacket



Photo 53 – Mastic and paper, white batting insulation, and asbestos-containing asphalt sheeting, Emulsion Tank jacket



Photo 54 – Gray powder, Emulsion Tank at concrete base



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PHOTOGRAPHS 52, 53, & 54

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Photo 55 – Assumed asbestos-containing cementitious pipe conduits adjacent to Emulsion Tank



Photo 56 – Asbestos-containing pipe insulation (inside assumed asbestos-containing cementitious conduits) adjacent to Emulsion Tank



Photo 57 – White paint, Propane Tank



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PHOTOGRAPHS 55, 56, & 57

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TABLE 1
 SUMMARY OF ASBESTOS ANALYTICAL RESULTS
 CRESTVIEW MAINTENANCE STATION
 CALTRANS CONTRACT 06A1580, TASK ORDER NO. 51, EA 09-353300
 MONO COUNTY, CALIFORNIA

Polarized Light Microscopy (PLM) - EPA Test Method 600/R-93/116

Sample Group No.	Description of Material	Location	Approximate Quantity	Friable	Site Photos	Asbestos Content ¹
Building 2569 (Truck Shed)						
2569-1	Fire door core	Boiler room	100 square feet	Yes	2	35%
2569-2	Batting insulation	Avalanche room	NA	NA	3	ND
2569-3	Window putty	Exterior windows	100 square feet	No	4	0.50%*
2569-4	Yellow pipe insulation (3-inch)	Boiler room	NA	NA	5	ND
2569-5	Yellow fittings (3-inch)	Boiler room	NA	NA	5	ND
2569-6	Boiler insulation	Boiler room	NA	NA	6	ND
2569-7	Boiler gasket	Boiler room	NA	NA	6	ND
2569-8	Hot water tank jacket	Boiler room	NA	NA	7	ND
2569-9	Pipe insulation (12-inch)	Boiler room	200 square feet	Yes	5	2% - Chrysotile 20% - Amosite
2569-10	Pipe fittings (12-inch)	Boiler room	NA	NA	5	ND
2569-11	Pipe insulation (4-inch)	Truck bays (ceiling)	900 square feet	Yes	8	18% - Amosite
2569-12	Mudded fittings (4-inch)	Truck bays (ceiling)	75 square feet	Yes	8	20% - Amosite
2569-13	Textured coating	Exterior walls and roof (southern portion of building)	11,000 square feet	No	9	70%
2569-14	Plaster	Interior walls and ceiling (southern portion of building)	NA	NA	10	ND
2569-15	Gypsum board with joint compound	South office	NA	NA	11	ND
2569-16	Duct tape	Tool room	NA	NA	12	ND
2569-17	Vibration collar	Tool room	NA	NA	12	ND
2569-18	Exhaust pipe insulation (6-inch)	Auxiliary generator room	NA	NA	13	ND
2569-19	Exhaust pipe fitting insulation (6-inch)	Auxiliary generator room	NA	NA	13	ND
2569-20	Gypsum board with joint compound	Auxiliary generator room	NA	NA	13	ND
2569-21	Batting insulation	Exterior walls	NA	NA	Not taken	ND
2569-22	Gypsum board with joint compound	Dividing wall (northern portion of building)	NA	NA	14	ND

TABLE 1
 SUMMARY OF ASBESTOS ANALYTICAL RESULTS
 CRESTVIEW MAINTENANCE STATION
 CALTRANS CONTRACT 06A1580, TASK ORDER NO. 51, EA 09-353300
 MONO COUNTY, CALIFORNIA

Polarized Light Microscopy (PLM) - EPA Test Method 600/R-93/116

Sample Group No.	Description of Material	Location	Approximate Quantity	Friable	Site Photos	Asbestos Content ¹
Building 2569 (Truck Shed, continued)						
2569-23	Asphalt sheet walkway	Attic	NA	NA	15	ND
2569-24	Roof mastic	Roof penetrations (southern portion of building)	50 square feet	No	16	60%
2569-25	Roof mastic	Roof penetrations (northern portion of building)	NA	NA	17	ND
Building 2570						
2570-1	Fire door core	Front door	NA	NA	20	ND
2570-2	Cementitious shingles	Exterior walls	300 square feet	No	20	30% - Chrysotile 2% - Crocidolite
Building 2571 (Sand House)						
2571-1	Mortar	North interior retaining walls	NA	NA	22	ND
2571-2	Black textured coating	Interior girders (lower portions)	NA	NA	23	ND
Building 2572 (Wash House)						
2572-1	Window putty	Exterior windows	NA	NA	26	ND
2572-2	Paint	Exterior walls	NA	NA	25	ND
2572-3	Insulation board	Exterior walls	NA	NA	No photo	ND
2572-4	Plaster and gypsum board	Interior walls and ceilings	NA	NA	No photo	ND
2572-5	Roof mastic	Roof penetrations	25 square feet	No	27	10%
Building 2573 (Sign/Barricade Storage)						
2573-1	Silver paint	Exterior walls	NA	NA	30	ND
Building 6806 (Residence D-323)						
6806-1	Brown wood-pattern 12-inch by 12-inch resilient floor tile (press-apply)	Kitchen, living room, bedroom	NA	NA	32	ND

TABLE 1
 SUMMARY OF ASBESTOS ANALYTICAL RESULTS
 CRESTVIEW MAINTENANCE STATION
 CALTRANS CONTRACT 06A1580, TASK ORDER NO. 51, EA 09-353300
 MONO COUNTY, CALIFORNIA

Polarized Light Microscopy (PLM) - EPA Test Method 600/R-93/116

Sample Group No.	Description of Material	Location	Approximate Quantity	Friable	Site Photos	Asbestos Content ¹
6806-2	Gray 12-inch by 12-inch resilient floor tile with black mastic	Entry and under carpeting and press-apply floor tiles	NA	NA	33	ND
6806-3	Brown tile-pattern 12-inch by 12-inch resilient floor tile (press apply)	Bathroom	NA	NA	34	ND
6806-4	Gray baseboard with tan mastic	Interior	NA	NA	32	ND
6806-5	Gypsum board with joint compound	Interior	3,500 square feet	NA	35	0.25-0.50%* (GB/JC comp)
6806-6	Batting insulation	Attic and walls	NA	NA	36	ND
6806-7	Vapor barrier	Exterior walls	NA	NA	37	ND
6806-8	Window putty	Windows	NA	NA	38	ND
6806-9	Roof mastic	Roof vents	50 square feet	No	39	10%
6806-10	Paint	Exterior walls	NA	NA	38	ND
6806-11	2-inch diameter TSI	Crawlspace pipes	NA	NA	40	ND
Building 20104 (Fire Hose Building)						
20104-1	Cementitious shingles	Roof	200 square feet	No	43	40%
20104-2	Vapor barrier	Roof	NA	NA	43	ND
20104-3	Paint	Exterior walls	NA	NA	44	ND
Building 20185 (Fire Hose Building)						
20185-1	Paint	Exterior walls	NA	NA	45	ND
Valve Building No. 1						
VB1-1	Vapor barrier	Exterior walls and roof	NA	NA	No photo	ND
VB1-2	Cementitious shingles	Exterior walls	250 square feet	No	46	30%
VB1-3	Gypsum board	Interior walls	NA	NA	47	ND
Wood Shed						
WS-1	Vapor barrier	Exterior walls	NA	NA	49	ND

TABLE 1
 SUMMARY OF ASBESTOS ANALYTICAL RESULTS
 CRESTVIEW MAINTENANCE STATION
 CALTRANS CONTRACT 06A1580, TASK ORDER NO. 51, EA 09-353300
 MONO COUNTY, CALIFORNIA

Polarized Light Microscopy (PLM) - EPA Test Method 600/R-93/116

Sample Group No.	Description of Material	Location	Approximate Quantity	Friable	Site Photos	Asbestos Content ¹
Emulsion Tank						
ET-1	White sheet metal jacket sealant	Tank jacket	50 square feet	No	52	2%
ET-2	Mastic and paper	Tank jacket	NA	NA	53	ND
ET-3	Asphalt sheeting	Tank jacket	1,800 square feet	No	53	5%
ET-4	White batting insulation	Tank jacket	NA	NA	53	ND
ET-5	Gray powder	Exterior tank jacket (at concrete base)	NA	NA	54	ND
ET-6	Pipe insulation (3-inch)	Inside exterior vertical cementitious conduits	25 square feet	Yes	56	35% - Amosite
Propane Tank						
PT-1	Paint	Exterior	NA	NA	57	ND

Notes:

¹ Asbestos detected was the chrysotile variety unless otherwise indicated.

NA = Not applicable (no asbestos detected)

ND = Not detected

* Material analyzed using PLM point count methodology (400 points)

GB/JC comp = Gypsum board and joint compound composite

TABLE 2
 SUMMARY OF PAINT ANALYTICAL RESULTS – TOTAL AND SOLUBLE LEAD
 CRESTVIEW MAINTENANCE STATION
 CALTRANS CONTRACT 06A1580, TASK ORDER NO. 51, EA 09-353300
 MONO COUNTY, CALIFORNIA

Paint Sample No.	Paint Description	Approximate Quantity Peeling/Flaking	Site Photos	Total Lead (mg/kg)	WET Lead (mg/l)	TCLP Lead (mg/l)
Building 2569 (Truck Shed)						
2569-P1	White interior paint	100 square feet	10	7,900	---	26*
2569-P2	Brown paint (girders)	Intact	Not shown	52,000	---	---
2569-P3	Gray gray exterior paint (avalanche room)	250 square feet	18	2,600	---	26*
2569-P4	Gray exterior paint (northern portion of building)	250 square feet	19	12,000	---	26*
Building 2570						
2570-P1	Tan exterior paint	20 square feet	20	51	0.83	---
2570-P2	Brown exterior trim	5 square feet	20	11,000	---	26*
Building 2571 (Sand House)						
2571-P1	Black coating (interior girders)	Intact	23	53	3.2	---
2571-P2	Green exterior paint	250 square feet	24	390	0.78	---
Building 2572 (Wash House)						
2572-P1	White exterior paint	300 square feet	25	2,200	---	26*
Building 6806 (Residence D-323)						
6806-P1	White exterior paint	500 square feet	38	46,000	---	26*
6806-P2	Green exterior trim	75 square feet	38	50,000	---	26*
Building 20104 (Fire Hose Building)						
20104-P1	White exterior paint	50 square feet	44	10,000	---	26*

TABLE 2
 SUMMARY OF PAINT ANALYTICAL RESULTS – TOTAL AND SOLUBLE LEAD
 CRESTVIEW MAINTENANCE STATION
 CALTRANS CONTRACT 06A1580, TASK ORDER NO. 51, EA 09-353300
 MONO COUNTY, CALIFORNIA

Paint Sample No.	Paint Description	Approximate Quantity Peeling/Flaking	Site Photos	Total Lead (mg/kg)	WET Lead (mg/l)	TCLP Lead (mg/l)
		Building 20185 (Fire Hose Building)				
20185-P1	White exterior paint	50 square feet	45	4,400	---	26*
		Wood Shed				
WS-P1	Brown door paint	30 square feet	50	10,000	---	26*
		Propane Tank				
PT-P1	White exterior paint	Intact	57	3,600	---	---

Notes:

mg/kg = milligrams per kilogram (EPA Test Method 6010B)

mg/l = milligrams per liter

WET = Waste Extraction Test (EPA Test Method 7420)

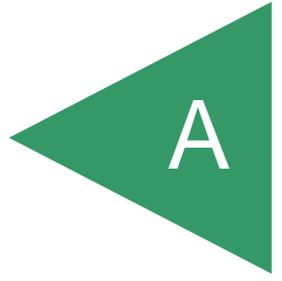
TCLP = Toxicity Characteristic Leaching Procedure (EPA Test Method 7420)

--- = Not analyzed

* TCLP result is a ten-part composite of deteriorated paints that exceed 1,000 mg/kg

APPENDIX

A





EMSL Analytical, Inc

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EMSL Order: 091206759
CustomerID: GECN21
CustomerPO: S9525-06-51
ProjectID: S9525-06-**

Attn: **Chris Giuntoli**
Geocon Consultants, Inc.
6671 Brisa Street

Livermore, CA 94550

Project: S9525-06-51

Phone: (925) 371-5900
Fax: (925) 371-5915
Received: 06/01/12 9:30 AM
Analysis Date: 6/13/2012
Collected: 5/31/2012

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
ET-1A-White Sealant 091206759-0001		Gray/White Fibrous Homogeneous		98% Non-fibrous (other)	2% Chrysotile
ET-1B-White Sealant 091206759-0002		White Non-Fibrous Homogeneous		98% Non-fibrous (other)	2% Chrysotile
ET-2A-Mastic 091206759-0003		Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
ET-2A-Paper 091206759-0003A		Brown Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (other)	None Detected
ET-2B-Mastic 091206759-0004		Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
ET-2B-Paper 091206759-0004A		Brown Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (other)	None Detected
ET-3A-Asphalt Sheet 091206759-0005		Black Fibrous Homogeneous	60% Cellulose	35% Non-fibrous (other)	5% Chrysotile

Analyst(s)

Matthew Batongbacal (49)

Baojia Ke, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, MA AA000201, WA C2007

Initial report from 06/13/2012 17:01:32



EMSL Analytical, Inc

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EMSL Order: 091206759
CustomerID: GECN21
CustomerPO: S9525-06-51
ProjectID: S9525-06-**

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Phone: (925) 371-5900
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Received: 06/01/12 9:30 AM
Analysis Date: 6/13/2012
Collected: 5/31/2012

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
ET-3B-Asphalt Sheet <i>091206759-0006</i>		Black Fibrous Homogeneous	60% Cellulose	35% Non-fibrous (other)	5% Chrysotile
ET-4A-Insulation <i>091206759-0007</i>		White Fibrous Homogeneous	40% Min. Wool 40% Glass	20% Non-fibrous (other)	None Detected
ET-4B-Insulation <i>091206759-0008</i>		White Fibrous Homogeneous	40% Min. Wool 40% Glass	20% Non-fibrous (other)	None Detected
ET-4C-Insulation <i>091206759-0009</i>		White Fibrous Homogeneous	40% Min. Wool 40% Glass	20% Non-fibrous (other)	None Detected
ET-5A-Powder <i>091206759-0010</i>		Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
ET-5B-Powder <i>091206759-0011</i>		Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
ET-6A-Pipe TSI <i>091206759-0012</i>		Gray Fibrous Homogeneous		65% Non-fibrous (other)	35% Amosite
ET-6B-Pipe TSI <i>091206759-0013</i>		Gray Fibrous Homogeneous		65% Non-fibrous (other)	35% Amosite

Analyst(s)
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Baojia Ke, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, MA AA000201, WA C2007

Initial report from 06/13/2012 17:01:32



EMSL Analytical, Inc

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http://www.emsl.com sanleandrolab@emsl.com

EMSL Order: 091206759
CustomerID: GECN21
CustomerPO: S9525-06-51
ProjectID: S9525-06-**

Attn: **Chris Giuntoli**
Geocon Consultants, Inc.
6671 Brisa Street

Livermore, CA 94550

Project: S9525-06-51

Phone: (925) 371-5900
Fax: (925) 371-5915
Received: 06/01/12 9:30 AM
Analysis Date: 6/13/2012
Collected: 5/31/2012

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
ET-6C-Pipe TSI <i>091206759-0014</i>		Gray Fibrous Homogeneous		65% Non-fibrous (other)	35% Amosite
2572-1A-Window Putty <i>091206759-0015</i>		Tan/Green Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2572-1B-Window Putty <i>091206759-0016</i>		Tan/Green Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2572-2A-Paint <i>091206759-0017</i>		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2572-2B-Paint <i>091206759-0018</i>		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2572-3A-Insulation Board <i>091206759-0019</i>		Brown Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (other)	None Detected
2572-3A-Mastic <i>091206759-0019A</i>		Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)
Matthew Batongbacal (49)


Baojia Ke, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, MA AA000201, WA C2007

Initial report from 06/13/2012 17:01:32



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EMSL Order: 091206759
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Fax: (925) 371-5915
Received: 06/01/12 9:30 AM
Analysis Date: 6/13/2012
Collected: 5/31/2012

Livermore, CA 94550

Project: S9525-06-51

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
2572-3B-Insulation Board 091206759-0020	Brown Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (other)	None Detected	
2572-3B-Mastic 091206759-0020A	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected	
2572-4A-Plaster 091206759-0021	White/Variou Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected	
2572-4A-Gypsum Board 091206759-0021A	White Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected	
2572-4B-Plaster 091206759-0022	White/Variou Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected	
2572-4B-Gypsum Board 091206759-0022A	White Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected	
2572-4C-Plaster 091206759-0023	White/Variou Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected	

Analyst(s) _____
Matthew Batongbacal (49)

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Attn: **Chris Giuntoli**
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Phone: (925) 371-5900
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Received: 06/01/12 9:30 AM
Analysis Date: 6/13/2012
Collected: 5/31/2012

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
2572-4C-Gypsum Board <i>091206759-0023A</i>		White Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
2572-4D-Plaster <i>091206759-0024</i>		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2572-4D-Gypsum Board <i>091206759-0024A</i>		White Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
2572-4E-Plaster <i>091206759-0025</i>		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2572-4E-Gypsum Board <i>091206759-0025A</i>		White Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
2572-5A-Roof Mastic <i>091206759-0026</i>		Gray/Black Fibrous Homogeneous		90% Non-fibrous (other)	10% Chrysotile
2572-5B <i>091206759-0027</i>		Gray/Black Fibrous Homogeneous		90% Non-fibrous (other)	10% Chrysotile

Analyst(s)

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Initial report from 06/13/2012 17:01:32



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EMSL Order:	091206759
CustomerID:	GECN21
CustomerPO:	S9525-06-51
ProjectID:	S9525-06-**

Attn: Chris Giuntoli Geocon Consultants, Inc. 6671 Brisa Street Livermore, CA 94550	Phone: (925) 371-5900 Fax: (925) 371-5915 Received: 06/01/12 9:30 AM Analysis Date: 6/13/2012 Collected: 5/31/2012
Project: S9525-06-51	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
20104-1A- Cementitious Shingle 091206759-0028		Gray Fibrous Homogeneous		60% Non-fibrous (other)	40% Chrysotile
20104-1B 091206759-0029					Stop Positive (Not Analyzed)
20104-2A-Vapor Barrier 091206759-0030		Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected
20104-2B-Vapor Barrier 091206759-0031		Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected
20104-3A-Paint 091206759-0032		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
20104-3B-Paint 091206759-0033		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
WS-1A-Vapor Barrier 091206759-0034		Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected

Analyst(s)
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Initial report from 06/14/2012 08:17:11



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EMSL Order: 091206759
CustomerID: GECN21
CustomerPO: S9525-06-51
ProjectID: S9525-06-**

Attn: **Chris Giuntoli**
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6671 Brisa Street

Livermore, CA 94550

Project: S9525-06-51

Phone: (925) 371-5900
Fax: (925) 371-5915
Received: 06/01/12 9:30 AM
Analysis Date: 6/13/2012
Collected: 5/31/2012

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
WS-1B-Vapor Barrier 091206759-0035		Black Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2573-1A-Paint 091206759-0036		Silver Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2573-1B-Paint 091206759-0037		Silver Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2571-1A-Mortar 091206759-0038		Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2571-1B-Mortar 091206759-0039		Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2571-2A-Texture Paint 091206759-0040		Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2571-2B-Texture Paint 091206759-0041		Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)
Matthew Batongbacal (49)


Baojia Ke, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, MA AA000201, WA C2007

Initial report from 06/13/2012 17:01:32



EMSL ANALYTICAL, INC.

EMSL - San Leandro ♦ 2235 Polvorosa Ave, Suite 230, San Leandro, CA 94577

257105.00

	SAMPLE NUMBER	SAMPLE DESCRIPTION	LOCATION	VOLUME Air (L) Area (Inches sq.)
1	2572-5A	ROOF MASTIC		
2	2572-5B	↓		
3	20104-1A	CEMENTITIOUS SHINGLE	} STOP AT FIRST POSITIVE RESULT > 1%	
4	20104-1B	↓		
5	20104-2A	VAPOR BARRIER		
6	20104-2B	↓		
7	20104-3A	PAINT		
8	20104-3B	↓		
9	WS-1A	VAPOR BARRIER		
10	WS-1B	↓		
11	2573-1A	SILVER PAINT		
12	2573-1B	↓		
13	2571-1A	MORTAR		
14	2571-1B	↓		
15	2571-2A	TEXTURED PAINT		
16	2571-2B	↓		
17				
18				
19				
20				
21				
22				
23				
24				
25				

Client Sample # (S)

TOTAL SAMPLE #

Relinquished: _____
 Received: _____
 Relinquished: _____
 Received: _____

Date: _____
 Date: _____
 Date: _____
 Date: _____

Time: _____
 Time: _____
 Time: _____
 Time: _____

6/11/12

9:30 AM



EMSL ANALYTICAL, INC.

091206789

EMSL - San Leandro ♦ 2235 Polvorosa Ave, Suite 230, San Leandro, CA 94577

(888) 455-3675 ♦ Phone (510) 895-3675 ♦ Fax (510) 895-3680 ♦ sanleandrolab@emsl.com

EMSL Rep: TERRI LANSING
 Company: GECON
 Contact: CHRIS GIUNTOLI
 Address: 6671 BRISA ST
 City & State: LIVERMORE, CA Zip 94550
 Phone: 925-371-5900
 Email Results GIUNTOLI@GECONINC.COM
 Project Name or Number: 59525-06-51

Third Party Billing **requires written authorization from third party*
 EMSL-Bill to: _____
 Contact: _____
 Address: _____
 City & State: _____ Zip _____
 Fax: _____
 Fax results
 Purchase Order Number: _____

TURNAROUND TIME

3 Hours 6 Hours 24 Hours 48 Hours 72 Hours 5 Days 10 Days

SAMPLE MATRIX

Air Bulk Soil Wipe Micro-Vac Drinking Water Wastewater Chips Other

ASBESTOS ANALYSIS

PCM - Air
 NIOSH 7400 (A) Issue 2: August 1994
 OSHA w/ Time Weighted Average
TEM AIR
 AHERA 40 CFR, Part 763 Subpart E
 NIOSH 7402 Issue 2
 EPA Level II
PLM - Bulk
 EPA 600/R-93/116
 + Add Gravimetric Reduction (EPA NOB)
 PLM CARB 435 Level: A (0.25%) B (0.1%)
 NIOSH 9002
 EPA Point Count (400 Points)
 + Add Gravimetric Reduction (EPA NOB)
 EPA Point Count (1,000 Points)
 + Add Gravimetric Reduction (EPA NOB)
 Standard Addition Point Count

SOILS

PLM CARB 435 Level: A (0.25%) B (0.1%)
 TEM CARB 435 Level: B (0.1%) C (0.01%)
 D (0.001%) E (0.0005%) F (0.0001%)
 EMSL MSD 9000 Method fibers/gram
 Superfund EPA 540-R097-028 (dust generation)
 EPA Protocol Qualitative Quantitative

TEM BULK

TEM EPA NOB, EPA 600/R-93/116 Section 2.5.5.1 (TEM % by VAE)
 Chatfield SOP-1988-02
 TEM EPA 600/R-93/116 Section 2.5.5.2 (TEM % by Mass)

TEM MICROVAC

ASTM D 5755 (Quantitative)

TEM WIPE

ASTM D-6480 (Quantitative)

TEM WATER

EPA 100.2 (≥ 10 microns)
 Modified EPA 100.2 (≥ 0.5 microns)

OTHER: _____

LEAD ANALYSIS

Flame Atomic Absorption

Wipe, SW846-7420 ASTM non ASTM
 Soil, SW846-7420
 Air, NIOSH 7082
 Chips, SW846-7420 or AOAC 5.009 (974.02)
 Wastewater, SW 846-7420

TCLP LEAD SW846-1311/7420

Graphite Furnace Atomic Absorption

Air, NIOSH 7105
 Wastewater, SW846-7421
 Soil, SW846-7421
 Drinking Water, EPA 239.2

ICP - Inductively Coupled Plasma

Wipe, SW846-6010 ASTM non ASTM
 Soil, SW846-6010
 Air, NIOSH 7300

MATERIALS ANALYSIS

Particle Identification
 Full Particle Identification
 Dust Mites and Insect Fragments
 Particle Size & Distribution
 Product Comparison
 Paint Characterization
 Failure Analysis
 Corrosion Analysis
 Glove Box Containment Study
 Petrographic Examination of Concrete
 Portland Cement in Workplace Atmospheres (OSHA ID-143)
 Man Made Vitrous Fibers - MMVF's
 Synthetic Fiber Identification
 Other: _____

MICROBIAL ANALYSIS

Air Samples

Mold & Fungi by Air O Cell
 Mold & Fungi by Agar Plate count & id
 Bacterial Count and Gram Stain
 Bacterial Count and Identification

Water Samples

Total Coliforms, Fecal Coliforms
 Escherichia Coli, Fecal Streptococcus
 Legionella
 Salmonella
 Giardia and Cryptosporidium

Wipe and Bulk Samples

Mold & Fungi - Direct Examination
 Mold & Fungi - (Culture follow up to direct examination if necessary)
 Mold & Fungi - Culture (Count & ID)
 Mold & Fungi - Culture (Count only)
 Bacterial Count & Gram Stain
 Bacterial Count & Identification (3 most prominent types)
 Other: _____

IAQ ANALYSIS

Nuisance Dust (NIOSH 0500 & 0600)
 Airborne Dust (PM10, TSP)
 Silica Analysis by XRD NIOSH 7500
 HVAC Efficiency
 Carbon Black
 Airborne Oil Mist
 Other: _____

Relinquished: _____
 Received: _____
 Relinquished: _____
 Received: _____

Chris Giuntoli

Date: 5/31/12
 Date: 6/11/12
 Date: _____
 Date: _____

Time: 1500
 Time: 9:30 AM
 Time: _____
 Time: _____



Polvorosa

EMSL - San Leandro ♦ 2235 Polvorosa Ave, Suite 230, San Leandro, CA 94577

	SAMPLE NUMBER	SAMPLE DESCRIPTION	LOCATION	VOLUME Air (L) Area (Inches sq.)
1	ET-1A	WHITE SEALANT		
2	ET-1B	↓		
3	ET-2A	MASTIC & PAPER		
4	ET-2B	↓		
5	ET-3A	ASPHALT SHEET		
6	ET-3B	↓		
7	ET-4A	WHITE INSULATION		
8	ET-4B	↓		
9	ET-4C	↓		
10	ET-5A	GRAY POWDER		
11	ET-5B	↓		
12	ET-6A	3" PIPE TSI		
13	ET-6B	↓		
14	ET-6C	↓		
15	2572-1A	WINDOW PUTTY		
16	2572-1B	↓		
17	2572-2A	PAINT		
18	2572-2B	↓		
19	2572-3A	INSULATION BOARD		
20	2572-3B	↓		
21	2572-4A	PLASTER & GYPSUM BOARD		
22	2572-4B	↓		
23	2572-4C	↓		
24	2572-4D	↓		
25	2572-4E	↓		

Client Sample # (S) _____ TOTAL SAMPLE # _____

Relinquished: _____ Date: _____ Time: _____
 Received: _____ Date: 6/1/12 Time: 9:30 AM
 Relinquished: _____ Date: _____ Time: _____
 Received: _____ Date: _____ Time: _____



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EMSL Order:	091206761
CustomerID:	GECN21
CustomerPO:	S9525-06-51
ProjectID:	S9525-06-**

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Project: **S9525-06-51**

Phone: (925) 371-5900
 Fax: (925) 371-5915
 Received: 06/01/12 9:30 AM
 Analysis Date: 6/5/2012
 Collected: 5/31/2012

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
20185-1A-Paint <i>091206761-0001</i>		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
20185-1B-Paint <i>091206761-0002</i>		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
PT-1A-Paint <i>091206761-0003</i>		Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
PT-1B-Paint <i>091206761-0004</i>		Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
VB1-1A-Vapor Barrier <i>091206761-0005</i>		Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected
VB1-1B-Vapor Barrier <i>091206761-0006</i>		Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected
VB1-2A- Cementitious Shingle <i>091206761-0007</i>		Gray Fibrous Homogeneous		70% Non-fibrous (other)	30% Chrysotile

Analyst(s) _____
 Jorge Leon (12)

Baojia Ke, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, MA AA000201, WA C2007

Initial report from 06/12/2012 08:42:40



EMSL Analytical, Inc

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
VB1-2B-Cementitious Shingle <i>091206761-0008</i>					Stop Positive (Not Analyzed)
VB1-3A-Gypsum Board <i>091206761-0009</i>		White Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected
VB1-3B-Gypsum Board <i>091206761-0010</i>		White Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected
2570-1A-Fire Door Core <i>091206761-0011</i>		Brown Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected
2570-1B-Fire Door Core <i>091206761-0012</i>		Brown Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected
2570-2A-Cementitious Shingle <i>091206761-0013</i>		Gray Fibrous Homogeneous		68% Non-fibrous (other)	30% Chrysotile 2% Crocidolite

Analyst(s) _____
Jorge Leon (12)

Baojia Ke, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, MA AA000201, WA C2007

Initial report from 06/12/2012 08:42:40



EMSL Analytical, Inc

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EMSL Order: 091206761
CustomerID: GECN21
CustomerPO: S9525-06-51
ProjectID: S9525-06-**

Attn: **Chris Giuntoli**
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6671 Brisa Street

Livermore, CA 94550

Project: **S9525-06-51**

Phone: (925) 371-5900
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Received: 06/01/12 9:30 AM
Analysis Date: 6/5/2012
Collected: 5/31/2012

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
2570-2B- Cementitious Shingle 091206761-0014					Stop Positive (Not Analyzed)

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EMSL Rep: TERRI LANSING
 Company: GECOM
 Contact: CHRIS GIUNTOLI
 Address: 6671 BRISA ST
 City & State: LIVERMORE, CA Zip 94550
 Phone: 925-371-5900
 Email Results GIUNTOLI@GECOMINC.COM
 Project Name or Number: 59525-06-51

Third Party Billing **requires written authorization from third party*
 EMSL-Bill to: _____
 Contact: _____
 Address: _____
 City & State: _____ Zip _____
 Fax: _____
 Fax results _____
 Purchase Order Number: _____

TURNAROUND TIME
 3 Hours 6 Hours 24 Hours 48 Hours 72 Hours 5 Days 10 Days

SAMPLE MATRIX
 Air Bulk Soil Wipe Micro-Vac Drinking Water Wastewater Chips Other

ASBESTOS ANALYSIS

PCM - Air
 NIOSH 7400 (A) Issue 2: August 1994
 OSHA w/ Time Weighted Average

TEM AIR
 AHERA 40 CFR, Part 763 Subpart E
 NIOSH 7402 Issue 2
 EPA Level II

PLM - Bulk
 EPA 600/R-93/116
 + Add Gravimetric Reduction (EPA NOB)
 PLM CARB 435 Level: A (0.25%) B (0.1%)
 NIOSH 9002
 EPA Point Count (400 Points)
 + Add Gravimetric Reduction (EPA NOB)
 EPA Point Count (1,000 Points)
 + Add Gravimetric Reduction (EPA NOB)
 Standard Addition Point Count

SOILS
 PLM CARB 435 Level: A (0.25%) B (0.1%)
 TEM CARB 435 Level: B (0.1%) C (0.01%)
 D (0.001%) E (0.0005%) F (0.0001%)
 EMSL MSD 9000 Method fibers/gram
 Superfund EPA 540-R097-028 (dust generation)
 EPA Protocol Qualitative Quantitative

TEM BULK
 TEM EPA NOB, EPA 600/R-93/116 Section 2.5.5.1 (TEM % by VAE)
 Chatfield SOP-1988-02
 TEM EPA 600/R-93/116 Section 2.5.5.2 (TEM % by Mass)

TEM MICROVAC
 ASTM D 5755 (Quantitative)

TEM WIPE
 ASTM D-6480 (Quantitative)

TEM WATER
 EPA 100.2 (≥ 10 microns)
 Modified EPA 100.2 (≥ 0.5 microns)
 OTHER: _____

LEAD ANALYSIS

Flame Atomic Absorption
 Wipe, SW846-7420 ASTM non ASTM
 Soil, SW846-7420
 Air, NIOSH 7082
 Chips, SW846-7420 or AOAC 5.009 (974.02)
 Wastewater, SW 846-7420

TCLP LEAD SW846-1311/7420
Graphite Furnace Atomic Absorption
 Air, NIOSH 7105
 Wastewater, SW846-7421
 Soil, SW846-7421
 Drinking Water, EPA 239.2

ICP - Inductively Coupled Plasma
 Wipe, SW846-6010 ASTM non ASTM
 Soil, SW846-6010
 Air, NIOSH 7300

MATERIALS ANALYSIS

Particle Identification
 Full Particle Identification
 Dust Mites and Insect Fragments
 Particle Size & Distribution
 Product Comparison
 Paint Characterization
 Failure Analysis
 Corrosion Analysis
 Glove Box Containment Study
 Petrographic Examination of Concrete
 Portland Cement in Workplace Atmospheres (OSHA ID-143)
 Man Made Vitrous Fibers - MMVF's
 Synthetic Fiber Identification
 Other: _____

MICROBIAL ANALYSIS

Air Samples
 Mold & Fungi by Air O Cell
 Mold & Fungi by Agar Plate count & id
 Bacterial Count and Gram Stain
 Bacterial Count and Identification

Water Samples
 Total Coliforms, Fecal Coliforms
 Escherichia Coli, Fecal Streptococcus
 Legionella
 Salmonella
 Giardia and Cryptosporidium

Wipe and Bulk Samples
 Mold & Fungi - Direct Examination
 Mold & Fungi - (Culture follow up to direct examination if necessary)
 Mold & Fungi - Culture (Count & ID)
 Mold & Fungi - Culture (Count only)
 Bacterial Count & Gram Stain
 Bacterial Count & Identification (3 most prominent types)
 Other: _____

IAQ ANALYSIS

Nuisance Dust (NIOSH 0500 & 0600)
 Airborne Dust (PM10, TSP)
 Silica Analysis by XRD NIOSH 7500
 HVAC Efficiency
 Carbon Black
 Airborne Oil Mist
 Other: _____

Relinquished: _____ Date: 5/31/12 Time: 1:50
 Received: _____ Date: 6/11/12 Time: 9:30 PM
 Relinquished: _____ Date: _____ Time: _____
 Received: _____ Date: _____ Time: _____



	SAMPLE NUMBER	SAMPLE DESCRIPTION	LOCATION	VOLUME Air (L) Area (Inches sq.)
1	Z0185-1A	PAINT		
2	Z0185-1B	↓		
3	PT-1A	PAINT		
4	PT-1B	↓		
5	VB1-1A	VAPOR BARRIER		
6	VB1-1B	↓		
7	VB1-2A	CEMENTITIOUS SHINGLE	} STOP AT FIRST POSITIVE RESULT @ > 1%	
8	VB1-2B	↓		
9	VB1-3A	GYPSUM BOARD		
10	VB1-3B	↓		
11	Z570-1A	FIRE DOOR CORE		
12	Z570-1B	↓		
13	Z570-2A	CEMENTITIOUS SHINGLE	} STOP AT FIRST POSITIVE RESULT @ > 1%	
14	Z570-2B	↓		
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

Client Sample # (S)

TOTAL SAMPLE #

Relinquished:

Received:

Relinquished:

Received:

Date:

Date:

Date:

Date:

Time:

Time:

Time:

Time:



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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
2569-1A-Fire Door Core <i>091206762-0001</i>		Gray Fibrous Homogeneous	30% Cellulose	35% Non-fibrous (other)	35% Chrysotile
2569-1B-Fire Door Core <i>091206762-0002</i>		Gray Fibrous Homogeneous	30% Cellulose	35% Non-fibrous (other)	35% Chrysotile
2569-2A-Insulation <i>091206762-0003</i>		Pink Fibrous Homogeneous	98% Min. Wool	2% Non-fibrous (other)	None Detected
2569-2B-Insulation <i>091206762-0004</i>		White/Pink Fibrous Homogeneous	97% Min. Wool	3% Non-fibrous (other)	None Detected
2569-2C-Insulation <i>091206762-0005</i>		White Fibrous Homogeneous	97% Min. Wool	3% Non-fibrous (other)	None Detected
2569-3A-Window Putty <i>091206762-0006</i>		Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2569-3B-Window Putty <i>091206762-0007</i>		Gray Non-Fibrous Homogeneous		98% Non-fibrous (other)	2% Chrysotile

Analyst(s)

Jennifer Keeling (79)

Baojia Ke, Laboratory Manager
or other approved signatory

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Initial report from 06/12/2012 08:46:16



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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
2569-3C-Window Putty 091206762-0008		Gray Non-Fibrous Homogeneous		98% Non-fibrous (other)	2% Chrysotile
2569-4A-TSI 091206762-0009		White/Silver/Yellow Fibrous Homogeneous	90% Glass 5% Cellulose	5% Non-fibrous (other)	None Detected
2569-4B-TSI 091206762-0010		White/Silver/Yellow Fibrous Homogeneous	90% Glass 5% Cellulose	5% Non-fibrous (other)	None Detected
2569-4C-TSI 091206762-0011		White/Silver/Yellow Fibrous Homogeneous	90% Glass 5% Cellulose	5% Non-fibrous (other)	None Detected
2569-5A-TSI 091206762-0012		Pink Fibrous Homogeneous	98% Glass	2% Non-fibrous (other)	None Detected
2569-5B-TSI 091206762-0013		Pink Fibrous Homogeneous	98% Glass	2% Non-fibrous (other)	None Detected
2569-6A-Insulation 091206762-0014		Brown Fibrous Homogeneous	97% Min. Wool	3% Non-fibrous (other)	None Detected
2569-6B-Insulation 091206762-0015		Brown Fibrous Homogeneous	97% Min. Wool	3% Non-fibrous (other)	None Detected

Analyst(s)

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
2569-6C-Insulation <i>091206762-0016</i>		Brown Fibrous Homogeneous	97% Min. Wool	3% Non-fibrous (other)	None Detected
2569-7A-Boiler Gasket <i>091206762-0017</i>		White Fibrous Homogeneous	99% Glass	1% Non-fibrous (other)	None Detected
2569-7B-Boiler Gasket <i>091206762-0018</i>		White Fibrous Homogeneous	99% Glass	1% Non-fibrous (other)	None Detected
2569-8A-Tank Jacket <i>091206762-0019</i>		White Fibrous Homogeneous	7% Synthetic 3% Cellulose	90% Non-fibrous (other)	None Detected
2569-8A-Mastic <i>091206762-0019A</i>		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2569-8B-Tank Jacket-1 <i>091206762-0020</i>		White Fibrous Homogeneous	10% Cellulose 10% Synthetic	80% Non-fibrous (other)	None Detected
2569-8B-Tank Jacket-2 <i>091206762-0020A</i>		Yellow Fibrous Homogeneous	15% Synthetic	85% Non-fibrous (other)	None Detected

Analyst(s)

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
2569-8C-Tank Jacket 091206762-0021		Yellow Fibrous Homogeneous	13% Synthetic 5% Cellulose	82% Non-fibrous (other)	None Detected
2569-9A-TSI-1 091206762-0022		Gray Fibrous Homogeneous	85% Min. Wool	13% Non-fibrous (other)	2% Chrysotile
2569-9A-TSI-2 091206762-0022A		White Fibrous Homogeneous		80% Non-fibrous (other)	20% Amosite
2569-9B-TSI 091206762-0023					Stop Positive (Not Analyzed)
2569-9C-TSI 091206762-0024					Stop Positive (Not Analyzed)
2569-10A-TSI 091206762-0025		Yellow Fibrous Homogeneous	12% Synthetic	88% Non-fibrous (other)	None Detected
2569-10B-TSI 091206762-0026		Brown/Yellow Fibrous Homogeneous	6% Cellulose 15% Synthetic	79% Non-fibrous (other)	None Detected
2569-11A-TSI 091206762-0027		Gray/White/Silver Fibrous Homogeneous	5% Glass 4% Cellulose	73% Non-fibrous (other)	18% Amosite

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
2569-11B-TSI <i>091206762-0028</i>					Stop Positive (Not Analyzed)
2569-11C-TSI <i>091206762-0029</i>					Stop Positive (Not Analyzed)
2569-12A-TSI <i>091206762-0030</i>		Gray Fibrous Homogeneous		80% Non-fibrous (other)	20% Amosite
2569-12B-TSI <i>091206762-0031</i>					Stop Positive (Not Analyzed)
2569-13A-Textured Coating <i>091206762-0032</i>		Brown Fibrous Homogeneous		30% Non-fibrous (other)	70% Chrysotile
2569-13B-Textured Coating <i>091206762-0033</i>		Brown Fibrous Homogeneous		30% Non-fibrous (other)	70% Chrysotile
2569-13C-Textured Coating <i>091206762-0034</i>		Brown Fibrous Homogeneous		30% Non-fibrous (other)	70% Chrysotile

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
2569-13D-Textured Coating <i>091206762-0035</i>		Brown Fibrous Homogeneous		30% Non-fibrous (other)	70% Chrysotile
2569-13E-Textured Coating <i>091206762-0036</i>		Brown Fibrous Homogeneous		30% Non-fibrous (other)	70% Chrysotile
2569-14A-Plaster <i>091206762-0037</i>		Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2569-14A-Skim Coat <i>091206762-0037A</i>		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2569-14B-Plaster <i>091206762-0038</i>		Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2569-14B-Skim Coat <i>091206762-0038A</i>		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2569-14C-Plaster <i>091206762-0039</i>		Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2569-14C-Skim Coat <i>091206762-0039A</i>		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Jennifer Keeling (79)

Baojia Ke, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, MA AA000201, WA C2007

Initial report from 06/12/2012 08:46:16



EMSL Analytical, Inc

2235 Polvorosa Ave , Suite 230, San Leandro, CA 94577

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<http://www.emsl.com>

sanleandrolab@emsl.com

EMSL Order:	091206762
CustomerID:	GECN21
CustomerPO:	S9525-06-51
ProjectID:	S9525-06-**

Attn: **Chris Giuntoli**
Geocon Consultants, Inc.
6671 Brisa Street

Livermore, CA 94550

Project: **S9525-06-51**

Phone: (925) 371-5900
 Fax: (925) 371-5915
 Received: 06/01/12 9:30 AM
 Analysis Date: 6/5/2012
 Collected: 5/31/2012

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
2569-14D-Plaster <i>091206762-0040</i>		Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2569-14D-Skim Coat <i>091206762-0040A</i>		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2569-14E-Plaster <i>091206762-0041</i>		Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2569-14E-Skim Coat <i>091206762-0041A</i>		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2569-15A-Gypsum Board <i>091206762-0042</i>		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2569-15A-Joint Compound <i>091206762-0042A</i>		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2569-15A-Tape <i>091206762-0042B</i>		Brown Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected

Analyst(s)

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
2569-15B-Gypsum Board <i>091206762-0043</i>		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2569-15B-Joint Compound <i>091206762-0043A</i>		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2569-15B-Tape <i>091206762-0043B</i>		Brown Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected
2569-16A-Duct Tape <i>091206762-0044</i>		Gray/White Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (other)	None Detected
2569-16B-Duct Tape <i>091206762-0045</i>		Gray/White Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (other)	None Detected
2569-17A-Vibration Collar <i>091206762-0046</i>		White/Black Fibrous Homogeneous	75% Glass	25% Non-fibrous (other)	None Detected
2569-17B-Vibration Collar <i>091206762-0047</i>		White/Black Fibrous Homogeneous	75% Glass	25% Non-fibrous (other)	None Detected

Analyst(s)

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
2569-18A-Insulation 091206762-0048		White/Silver/Yellow Fibrous Homogeneous	85% Glass 8% Cellulose	7% Non-fibrous (other)	None Detected
2569-18B-Insulation 091206762-0049		White/Silver/Yellow Fibrous Homogeneous	8% Cellulose 85% Glass	7% Non-fibrous (other)	None Detected
2569-18C-Insulation 091206762-0050		White/Silver/Yellow Fibrous Homogeneous	8% Cellulose 85% Glass	7% Non-fibrous (other)	None Detected
2569-19A-Insulation 091206762-0051		White/Silver/Yellow Fibrous Homogeneous	8% Cellulose 85% Glass	7% Non-fibrous (other)	None Detected
2569-19B-Insulation 091206762-0052		Yellow Fibrous Homogeneous	97% Glass	3% Non-fibrous (other)	None Detected
2569-20A-Gypsum Board 091206762-0053		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2569-20A-Joint Compound 091206762-0053A		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2569-20A-Tape 091206762-0053B		Brown Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
2569-20B-Gypsum Board <i>091206762-0054</i>		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2569-20B-Joint Compound <i>091206762-0054A</i>		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2569-20B-Tape <i>091206762-0054B</i>		Brown Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected
2569-21A-Insulation <i>091206762-0055</i>		Brown Fibrous Homogeneous	98% Glass	2% Non-fibrous (other)	None Detected
2569-21B-Insulation <i>091206762-0056</i>		Yellow Fibrous Homogeneous	98% Glass	2% Non-fibrous (other)	None Detected
2569-21C-Insulation <i>091206762-0057</i>		Brown Fibrous Homogeneous	98% Glass	2% Non-fibrous (other)	None Detected
2569-22A-Gypsum Board <i>091206762-0058</i>		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
2569-22A-Joint Compound <i>091206762-0058A</i>		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2569-22A-Tape <i>091206762-0058B</i>		Brown Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected
2569-22B-Gypsum Board <i>091206762-0059</i>		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2569-22B-Joint Compound <i>091206762-0059A</i>		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
2569-22B-Tape <i>091206762-0059B</i>		Brown Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected
2569-23A-Asphalt Sheet <i>091206762-0060</i>		Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
2569-23B-Asphalt Sheet <i>091206762-0061</i>		Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
2569-24A-Roof Mastic 091206762-0062		Gray/White Fibrous Homogeneous		40% Non-fibrous (other)	60% Chrysotile
2569-24B-Roof Mastic 091206762-0063		Gray/White Fibrous Homogeneous		40% Non-fibrous (other)	60% Chrysotile
2569-25A-Roof Mastic 091206762-0064		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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EMSL - San Leandro ♦ 2235 Polvorosa Ave, Suite 230, San Leandro, CA 94577

091206762

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EMSL Rep: TERRI LANSING
 Company: GECON
 Contact: CHRIS GIUNTOLI
 Address: 6671 BRISA ST
 City & State: LIVERMORE, CA Zip 94550
 Phone: 925-371-5900
 Email Results GIUNTOLI@GECONINC.COM
 Project Name or Number: 59525-06-51

Third Party Billing **requires written authorization from third party*
 EMSL-Bill to: _____
 Contact: _____
 Address: _____
 City & State: _____ Zip _____
 Fax: _____
 Fax results _____
 Purchase Order Number: _____

TURNAROUND TIME

3 Hours 6 Hours 24 Hours 48 Hours 72 Hours 5 Days 10 Days

SAMPLE MATRIX

Air Bulk Soil Wipe Micro-Vac Drinking Water Wastewater Chips Other

ASBESTOS ANALYSIS

PCM - Air

- NIOSH 7400 (A) Issue 2: August 1994
- OSHA w/ Time Weighted Average

TEM AIR

- AHERA 40 CFR, Part 763 Subpart E
- NIOSH 7402 Issue 2
- EPA Level II

PLM - Bulk

- EPA 600/R-93/116
- + Add Gravimetric Reduction (EPA NOB)
- PLM CARB 435 Level: A (0.25%) B (0.1%) C (0.01%) D (0.001%) E (0.0005%) F (0.0001%)
- NIOSH 9002
- EPA Point Count (400 Points)
- + Add Gravimetric Reduction (EPA NOB)
- EPA Point Count (1,000 Points)
- + Add Gravimetric Reduction (EPA NOB)
- Standard Addition Point Count

SOILS

- PLM CARB 435 Level: A (0.25%) B (0.1%) C (0.01%) D (0.001%) E (0.0005%) F (0.0001%)
- TEM CARB 435 Level: B (0.1%) C (0.01%) D (0.001%) E (0.0005%) F (0.0001%)
- EMSL MSD 9000 Method fibers/gram
- Superfund EPA 540-R097-028 (dust generation)
- EPA Protocol Qualitative Quantitative

TEM BULK

- TEM EPA NOB, EPA 600/R-93/116 Section 2.5.5.1 (TEM % by VAE)
- Chatfield SOP-1988-02
- TEM EPA 600/R-93/116 Section 2.5.5.2 (TEM % by Mass)

TEM MICROVAC

- ASTM D 5755 (Quantitative)

TEM WIPE

- ASTM D-6480 (Quantitative)

TEM WATER

- EPA 100.2 (≥ 10 microns)
- Modified EPA 100.2 (≥ 0.5 microns)

OTHER: _____

LEAD ANALYSIS

Flame Atomic Absorption

- Wipe, SW846-7420 ASTM non ASTM
- Soil, SW846-7420
- Air, NIOSH 7082
- Chips, SW846-7420 or AOAC 5.009 (974.02)
- Wastewater, SW 846-7420

- TCLP LEAD SW846-1311/7420

Graphite Furnace Atomic Absorption

- Air, NIOSH 7105
- Wastewater, SW846-7421
- Soil, SW846-7421
- Drinking Water, EPA 239.2

ICP - Inductively Coupled Plasma

- Wipe, SW846-6010 ASTM non ASTM
- Soil, SW846-6010
- Air, NIOSH 7300

MATERIALS ANALYSIS

- Particle Identification
- Full Particle Identification
- Dust Mites and Insect Fragments
- Particle Size & Distribution
- Product Comparison
- Paint Characterization
- Failure Analysis
- Corrosion Analysis
- Glove Box Containment Study
- Petrographic Examination of Concrete
- Portland Cement in Workplace Atmospheres (OSHA ID-143)
- Man Made Vitrous Fibers - MMVF's
- Synthetic Fiber Identification
- Other: _____

MICROBIAL ANALYSIS

Air Samples

- Mold & Fungi by Air O Cell
- Mold & Fungi by Agar Plate count & id
- Bacterial Count and Gram Stain
- Bacterial Count and Identification

Water Samples

- Total Coliforms, Fecal Coliforms
- Escherichia Coli, Fecal Streptococcus
- Legionella
- Salmonella
- Giardia and Cryptosporidium

Wipe and Bulk Samples

- Mold & Fungi - Direct Examination
- Mold & Fungi - (Culture follow up to direct examination if necessary)
- Mold & Fungi - Culture (Count & ID)
- Mold & Fungi - Culture (Count only)
- Bacterial Count & Gram Stain
- Bacterial Count & Identification (3 most prominent types)
- Other: _____

IAQ ANALYSIS

- Nuisance Dust (NIOSH 0500 & 0600)
- Airborne Dust (PM10, TSP)
- Silica Analysis by XRD NIOSH 7500
- HVAC Efficiency
- Carbon Black
- Airborne Oil Mist
- Other: _____

Relinquished: _____
 Received: _____
 Relinquished: _____
 Received: _____

Chris Giuntoli

Date: 5/31/12 Time: 1500
 Date: 6/1/12 Time: 9:30 AM
 Date: _____ Time: _____
 Date: _____ Time: _____



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EMSL – San Leandro ♦ 2235 Polvorosa Ave, Suite 230, San Leandro, CA 94577

SAMPLE NUMBER	SAMPLE DESCRIPTION	LOCATION	VOLUME Air (L) Area (Inches sq.)
1	2569-1A	FIRE DOOR CORE	
2	2569-1B	↓	
3	2569-2A	BLOWN-IN INSULATION	
4	2569-2B	↓	
5	2569-2C	↓	
6	2569-3A	WINDOW PUTTY	
7	2569-3B	↓	
8	2569-3C	↓	
9	2569-4A	3" PIPE TSI	
10	2569-4B	↓	
11	2569-4C	↓	
12	2569-5A	3" PIPE FITTINGS TSI	
13	2569-5B	↓	
14	2569-6A	BOILER INSULATION	
15	2569-6B	↓	
16	2569-6C	↓	
17	2569-7A	BOILER GASKET	
18	2569-7B	↓	
19	2569-8A	HOT WATER TANK JACKET	} STOP AT FIRST POSITIVE RESULT @ > 1%
20	2569-8B	↓	
21	2569-8C	↓	
22	2569-9A	12" PIPE TSI	} STOP AT FIRST POSITIVE RESULT @ > 1%
23	2569-9B	↓	
24	2569-9C	↓	
25			

Client Sample # (S) _____

TOTAL SAMPLE # _____

Relinquished: _____

Received: _____

Relinquished: _____

Received: _____

Date: _____

Date: 6/1/12

Date: _____

Date: _____

Time: _____

Time: 7:30 AM

Time: _____

Time: _____



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09/20/12 0762

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TURNAROUND TIME
 3 Hours 6 Hours 24 Hours 48 Hours 72 Hours 5 Days 10 Days

SAMPLE MATRIX
 Air Bulk Soil Wipe Micro-Vac Drinking Water Wastewater Chips Other

ASBESTOS ANALYSIS

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 NIOSH 7400 (A) Issue 2: August 1994
 OSHA w/ Time Weighted Average

TEM AIR
 AHERA 40 CFR, Part 763 Subpart E
 NIOSH 7402 Issue 2
 EPA Level II

PLM - Bulk
 EPA 600/R-93/116
 + Add Gravimetric Reduction (EPA NOB)
 PLM CARB 435 Level: A (0.25%) B (0.1%)
 NIOSH 9002
 EPA Point Count (400 Points)
 + Add Gravimetric Reduction (EPA NOB)
 EPA Point Count (1,000 Points)
 + Add Gravimetric Reduction (EPA NOB)
 Standard Addition Point Count

SOILS
 PLM CARB 435 Level: A (0.25%) B (0.1%)
 TEM CARB 435 Level: B (0.1%) C (0.01%)
 D (0.001%) E (0.0005%) F (0.0001%)
 EMSL MSD 9000 Method fibers/gram
 Superfund EPA 540-R097-028 (dust generation)
 EPA Protocol Qualitative Quantitative

TEM BULK
 TEM EPA NOB, EPA 600/R-93/116 Section 2.5.5.1 (TEM % by VAE)
 Chatfield SOP-1988-02
 TEM EPA 600/R-93/116 Section 2.5.5.2 (TEM % by Mass)

TEM MICROVAC
 ASTM D 5755 (Quantitative)

TEM WIPE
 ASTM D-6480 (Quantitative)

TEM WATER
 EPA 100.2 (≥ 10 microns)
 Modified EPA 100.2 (≥ 0.5 microns)
 OTHER: _____

LEAD ANALYSIS

Flame Atomic Absorption
 Wipe, SW846-7420 ASTM non ASTM
 Soil, SW846-7420
 Air, NIOSH 7082
 Chips, SW846-7420 or AOAC 5.009 (974.02)
 Wastewater, SW 846-7420

TCLP LEAD SW846-1311/7420

Graphite Furnace Atomic Absorption
 Air, NIOSH 7105
 Wastewater, SW846-7421
 Soil, SW846-7421
 Drinking Water, EPA 239.2

ICP - Inductively Coupled Plasma
 Wipe, SW846-6010 ASTM non ASTM
 Soil, SW846-6010
 Air, NIOSH 7300

MATERIALS ANALYSIS

Particle Identification
 Full Particle Identification
 Dust Mites and Insect Fragments
 Particle Size & Distribution
 Product Comparison
 Paint Characterization
 Failure Analysis
 Corrosion Analysis
 Glove Box Containment Study
 Petrographic Examination of Concrete
 Portland Cement in Workplace Atmospheres (OSHA ID-143)
 Man Made Vitrous Fibers - MMVF's
 Synthetic Fiber Identification
 Other: _____

MICROBIAL ANALYSIS

Air Samples
 Mold & Fungi by Air O Cell
 Mold & Fungi by Agar Plate count & id
 Bacterial Count and Gram Stain
 Bacterial Count and Identification

Water Samples
 Total Coliforms, Fecal Coliforms
 Escherichia Coli, Fecal Streptococcus
 Legionella
 Salmonella
 Giardia and Cryptosporidium

Wipe and Bulk Samples
 Mold & Fungi - Direct Examination
 Mold & Fungi - (Culture follow up to direct examination if necessary)
 Mold & Fungi - Culture (Count & ID)
 Mold & Fungi - Culture (Count only)
 Bacterial Count & Gram Stain
 Bacterial Count & Identification (3 most prominent types)
 Other: _____

IAQ ANALYSIS
 Nuisance Dust (NIOSH 0500 & 0600)
 Airborne Dust (PM10, TSP)
 Silica Analysis by XRD NIOSH 7500
 HVAC Efficiency
 Carbon Black
 Airborne Oil Mist
 Other: _____

Relinquished: Chris Giuntoli Date: 5/30/12 Time: 1500
 Received: _____ Date: 6/1/12 Time: 9:30 La
 Relinquished: _____ Date: _____ Time: _____
 Received: _____ Date: _____ Time: _____



EMSL ANALYTICAL, INC.

EMSL - San Leandro ♦ 2235 Polvorosa Ave, Suite 230, San Leandro, CA 94577

SAMPLE NUMBER	SAMPLE DESCRIPTION	LOCATION	VOLUME Air (L) Area (Inches sq.)
1	2569-10A	12" PIPE FITTINGS TSI	} STOP AT FIRST POSITIVE RESULT @ > 1%
2	2569-10B	↓	
3	2569-11A	3" PIPE TSI	} STOP AT FIRST POSITIVE RESULT @ > 1%
4	2569-11B	↓	
5	2569-11C	↓	
6	2569-12A	3" PIPE FITTINGS TSI	} STOP AT FIRST POSITIVE RESULT @ > 1%
7	2569-12B	↓	
8	2569-13A	TEXTURED COATING	
9	2569-13B	↓	
10	2569-13C		
11	2569-13D		
12	2569-13E		
13	2569-14A		PLASTER
14	2569-14B	↓	
15	2569-14C		
16	2569-14D		
17	2569-14E		
18	2569-15A		GYPSON BOARD w/ JOINT COMPOUND
19	2569-15B	↓	
20	2569-16A	DUCT TAPE	
21	2569-16B	↓	
22	2569-17A	VIBRATION COLLAR	
23	2569-17B	↓	
24			
25			

Client Sample # (S)

TOTAL SAMPLE #

Relinquished:

Received:

Relinquished:

Received:

Date:

Date:

Date:

Date:

Time:

Time:

Time:

Time:



EMSL ANALYTICAL, INC.

EMSL – San Leandro ♦ 2235 Polvorosa Ave, Suite 230, San Leandro, CA 94577

09 206762

(888) 455-3675 ♦ Phone (510) 895-3675 ♦ Fax (510) 895-3680 ♦ sanleandrolab@emsl.com

EMSL Rep: TERRI LANSING
 Company: GECON
 Contact: CHRIS GIUNTOLI
 Address: 6671 BRISA ST
 City & State: LIVERMORE, CA Zip 94550
 Phone: 925-371-5900
 Email Results GIUNTOLI@GECONINC.COM
 Project Name or Number: 59525-06-51

Third Party Billing **requires written authorization from third party*
 EMSL-Bill to: _____
 Contact: _____
 Address: _____
 City & State: _____ Zip _____
 Fax: _____
 Fax results _____
 Purchase Order Number: _____

TURNAROUND TIME

3 Hours 6 Hours 24 Hours 48 Hours 72 Hours 5 Days 10 Days

SAMPLE MATRIX

Air Bulk Soil Wipe Micro-Vac Drinking Water Wastewater Chips Other

ASBESTOS ANALYSIS

PCM - Air
 NIOSH 7400 (A) Issue 2: August 1994
 OSHA w/ Time Weighted Average
TEM AIR
 AHERA 40 CFR, Part 763 Subpart E
 NIOSH 7402 Issue 2
 EPA Level II
PLM - Bulk
 EPA 600/R-93/116
 + Add Gravimetric Reduction (EPA NOB)
 PLM CARB 435 Level: A (0.25%) B (0.1%)
 NIOSH 9002
 EPA Point Count (400 Points)
 + Add Gravimetric Reduction (EPA NOB)
 EPA Point Count (1,000 Points)
 + Add Gravimetric Reduction (EPA NOB)
 Standard Addition Point Count

SOILS

PLM CARB 435 Level: A (0.25%) B (0.1%)
 TEM CARB 435 Level: B (0.1%) C (0.01%)
 D (0.001%) E (0.0005%) F (0.0001%)
 EMSL MSD 9000 Method fibers/gram
 Superfund EPA 540-R097-028 (dust generation)
 EPA Protocol Qualitative Quantitative

TEM BULK

TEM EPA NOB, EPA 600/R-93/116 Section 2.5.5.1 (TEM % by VAE)
 Chatfield SOP-1988-02
 TEM EPA 600/R-93/116 Section 2.5.5.2 (TEM % by Mass)

TEM MICROVAC

ASTM D 5755 (Quantitative)

TEM WIPE

ASTM D-6480 (Quantitative)

TEM WATER

EPA 100.2 (≥ 10 microns)
 Modified EPA 100.2 (≥ 0.5 microns)

OTHER: _____

LEAD ANALYSIS

Flame Atomic Absorption

Wipe, SW846-7420 ASTM non ASTM
 Soil, SW846-7420
 Air, NIOSH 7082
 Chips, SW846-7420 or AOAC 5.009 (974.02)
 Wastewater, SW 846-7420

TCLP LEAD SW846-1311/7420

Graphite Furnace Atomic Absorption

Air, NIOSH 7105
 Wastewater, SW846-7421
 Soil, SW846-7421
 Drinking Water, EPA 239.2

ICP – Inductively Coupled Plasma

Wipe, SW846-6010 ASTM non ASTM
 Soil, SW846-6010
 Air, NIOSH 7300

MATERIALS ANALYSIS

Particle Identification
 Full Particle Identification
 Dust Mites and Insect Fragments
 Particle Size & Distribution
 Product Comparison
 Paint Characterization
 Failure Analysis
 Corrosion Analysis
 Glove Box Containment Study
 Petrographic Examination of Concrete
 Portland Cement in Workplace Atmospheres (OSHA ID-143)
 Man Made Vitrous Fibers – MMVF's
 Synthetic Fiber Identification
 Other: _____

MICROBIAL ANALYSIS

Air Samples

Mold & Fungi by Air O Cell
 Mold & Fungi by Agar Plate count & id
 Bacterial Count and Gram Stain
 Bacterial Count and Identification

Water Samples

Total Coliforms, Fecal Coliforms
 Escherichia Coli, Fecal Streptococcus
 Legionella
 Salmonella
 Giardia and Cryptosporidium

Wipe and Bulk Samples

Mold & Fungi – Direct Examination
 Mold & Fungi – (Culture follow up to direct examination if necessary)
 Mold & Fungi – Culture (Count & ID)
 Mold & Fungi – Culture (Count only)
 Bacterial Count & Gram Stain
 Bacterial Count & Identification (3 most prominent types)
 Other: _____

IAQ ANALYSIS

Nuisance Dust (NIOSH 0500 & 0600)
 Airborne Dust (PM10, TSP)
 Silica Analysis by XRD NIOSH 7500
 HVAC Efficiency
 Carbon Black
 Airborne Oil Mist
 Other: _____

Relinquished: _____
 Received: _____
 Relinquished: _____
 Received: _____

Chris Giuntoli

Date: 5/31/12 Time: 1500
 Date: 6/11/12 Time: 9:30 AM
 Date: _____ Time: _____
 Date: _____ Time: _____



EMSL ANALYTICAL, INC.

EMSL - San Leandro ♦ 2235 Polvorosa Ave, Suite 230, San Leandro, CA 94577

SAMPLE NUMBER	SAMPLE DESCRIPTION	LOCATION	VOLUME Air (L) Area (Inches sq.)
1	2569-18A	6" EXHAUST PIPE INSULATION	
2	2569-18B	↓	
3	2569-18C	↓	
4	2569-19A	6" EXHAUST PIPE FITTINGS INSULATION	
5	2569-19B	↓	
6	2569-20A	GYPSUM BOARD w/ JOINT COMPOUND	
7	2569-20B	↓	
8	2569-21A	BATTING INSULATION	
9	2569-21B	↓	
10	2569-21C	↓	
11	2569-22A	GYPSUM BOARD w/ JOINT COMPOUND	
12	2569-22B	↓	
13	2569-23A	ASPHALT SHEET WALKWAY	
14	2569-23B	↓	
15	2569-24A	ROOF MASTIC	
16	2569-24B	↓	
17	2569-25A	ROOF MASTIC	
18			
19			
20			
21			
22			
23			
24			
25			

Client Sample # (S)

TOTAL SAMPLE #

Relinquished:

Received: _____ Date: _____ Time: _____

Relinquished:

Received: _____ Date: 6/11/12 Time: 8:30 AM

Relinquished: _____ Date: _____ Time: _____

Received: _____ Date: _____ Time: _____



EMSL Analytical, Inc

2235 Polvorosa Ave , Suite 230, San Leandro, CA 94577

Phone/Fax: (510) 895-3675 / (510) 895-3680

<http://www.emsl.com>

sanleandrolab@emsl.com

EMSL Order:	091206764
CustomerID:	GECN21
CustomerPO:	S9525-06-51
ProjectID:	S9525-06-**

Attn: **Chris Giuntoli**
Geocon Consultants, Inc.
6671 Brisa Street

Livermore, CA 94550

Project: **S9525-06-51**

Phone: (925) 371-5900
 Fax: (925) 371-5915
 Received: 06/01/12 9:30 AM
 Analysis Date: 6/6/2012
 Collected: 5/31/2012

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
6806-1A-Floor Tile <i>091206764-0001</i>		Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
6806-1B-Floor Tile <i>091206764-0002</i>		Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
6806-2A-Floor Tile <i>091206764-0003</i>		Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
6806-2A-Mastic <i>091206764-0003A</i>		Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
6806-2B-Floor Tile <i>091206764-0004</i>		Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
6806-2B-Mastic <i>091206764-0004A</i>		Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
6806-3A-Floor Tile <i>091206764-0005</i>		Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
6806-3B-Floor Tile <i>091206764-0006</i>		Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Jorge Leon (34)

Baojia Ke, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, MA AA000201, WA C2007

Initial report from 06/12/2012 08:49:32



EMSL Analytical, Inc

2235 Polvorosa Ave , Suite 230, San Leandro, CA 94577

Phone/Fax: (510) 895-3675 / (510) 895-3680

<http://www.emsl.com>

sanleandrolab@emsl.com

EMSL Order:	091206764
CustomerID:	GECN21
CustomerPO:	S9525-06-51
ProjectID:	S9525-06-**

Attn: **Chris Giuntoli**
Geocon Consultants, Inc.
6671 Brisa Street

Livermore, CA 94550

Project: **S9525-06-51**

Phone: (925) 371-5900
 Fax: (925) 371-5915
 Received: 06/01/12 9:30 AM
 Analysis Date: 6/6/2012
 Collected: 5/31/2012

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
6806-4A-Baseboard <i>091206764-0007</i>		Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
6806-4A-Mastic <i>091206764-0007A</i>		Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
6806-4B-Baseboard <i>091206764-0008</i>		Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
6806-4B-Mastic <i>091206764-0008A</i>		Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
6806-5A-Gypsum Board <i>091206764-0009</i>		White Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected
6806-5A-Joint Compound <i>091206764-0009A</i>		Tan Non-Fibrous Homogeneous		98% Non-fibrous (other)	2% Chrysotile
6806-5B-Gypsum Board <i>091206764-0010</i>		White Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected

Analyst(s) _____
Jorge Leon (34)

Baojia Ke, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, MA AA000201, WA C2007

Initial report from 06/12/2012 08:49:32



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Attn: **Chris Giuntoli**
Geocon Consultants, Inc.
6671 Brisa Street

Livermore, CA 94550

Project: **S9525-06-51**

Phone: (925) 371-5900
 Fax: (925) 371-5915
 Received: 06/01/12 9:30 AM
 Analysis Date: 6/6/2012
 Collected: 5/31/2012

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
6806-5B-Joint Compound <i>091206764-0010A</i>					Not Submitted
No apparent joint compound present on submitted sample.					
6806-5C-Gypsum Board <i>091206764-0011</i>		White Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected
6806-5C-Joint Compound <i>091206764-0011A</i>		Tan Non-Fibrous Homogeneous		98% Non-fibrous (other)	2% Chrysotile
6806-6A-Insulation <i>091206764-0012</i>		Gray Fibrous Homogeneous	90% Min. Wool	10% Non-fibrous (other)	None Detected
6806-6B-Insulation <i>091206764-0013</i>		Gray Fibrous Homogeneous	90% Min. Wool	10% Non-fibrous (other)	None Detected
6806-6C-Insulation <i>091206764-0014</i>		Gray Fibrous Homogeneous	90% Min. Wool	10% Non-fibrous (other)	None Detected
6806-7A-Vapor Barrier <i>091206764-0015</i>		Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected

Analyst(s)
 Jorge Leon (34)

Baojia Ke, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, MA AA000201, WA C2007

Initial report from 06/12/2012 08:49:32



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sanleandrolab@emsl.com

EMSL Order:	091206764
CustomerID:	GECN21
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ProjectID:	S9525-06-**

Attn: **Chris Giuntoli**
Geocon Consultants, Inc.
6671 Brisa Street

Livermore, CA 94550

Project: **S9525-06-51**

Phone: (925) 371-5900
 Fax: (925) 371-5915
 Received: 06/01/12 9:30 AM
 Analysis Date: 6/6/2012
 Collected: 5/31/2012

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
6806-7B-Vapor Barrier <i>091206764-0016</i>		Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected
6806-8A-Window Putty <i>091206764-0017</i>		Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
6806-8B-Window Putty <i>091206764-0018</i>		Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
6806-9A-Roof Mastic <i>091206764-0019</i>		Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
6806-9B-Roof Mastic <i>091206764-0020</i>		Gray/Black Fibrous Homogeneous		90% Non-fibrous (other)	10% Chrysotile
6806-10A-Paint <i>091206764-0021</i>		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
6806-10B-Paint <i>091206764-0022</i>		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Jorge Leon (34)

Baojia Ke, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, MA AA000201, WA C2007

Initial report from 06/12/2012 08:49:32



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Phone: (925) 371-5900
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 Received: 06/01/12 9:30 AM
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 Collected: 5/31/2012

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
6806-11A-TSI <i>091206764-0023</i>		Brown/Gray Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected
6806-11A-Cloth Material <i>091206764-0023A</i>		White Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (other)	None Detected
6806-11B-TSI <i>091206764-0024</i>		Brown Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected
6806-11B-Cloth Material <i>091206764-0024A</i>		Tan Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (other)	None Detected
6806-11C-TSI <i>091206764-0025</i>		Brown/Gray Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected
6806-11C-Cloth Material <i>091206764-0025A</i>		White Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (other)	None Detected

Analyst(s) _____
Jorge Leon (34)

Baojia Ke, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc San Leandro, CA NVLAP Lab Code 101048-3, MA AA000201, WA C2007

Initial report from 06/12/2012 08:49:32



EMSL ANALYTICAL, INC.

EMSL – San Leandro ♦ 2235 Polvorosa Ave, Suite 230, San Leandro, CA 94577

091206764

(888) 455-3675 ♦ Phone (510) 895-3675 ♦ Fax (510) 895-3680 ♦ sanleandrolab@emsl.com

EMSL Rep: TERRI LANSING	Third Party Billing <i>*requires written authorization from third party</i>
Company: GECOM	EMSL-Bill to: _____
Contact: CHRIS GIUNTOLI	Contact: _____
Address: 6671 BRISA ST	Address: _____
City & State: LIVERMORE, CA Zip 94550	City & State: _____ Zip _____
Phone: 925-371-5900	Fax: _____
<input checked="" type="checkbox"/> Email Results GIUNTOLI@GECOMINC.COM	<input type="checkbox"/> Fax results _____
Project Name or Number: 59525-06-51	Purchase Order Number: _____

TURNAROUND TIME

<input type="checkbox"/> 3 Hours	<input type="checkbox"/> 6 Hours	<input type="checkbox"/> 24 Hours	<input type="checkbox"/> 48 Hours	<input type="checkbox"/> 72 Hours	<input type="checkbox"/> 5 Days	<input checked="" type="checkbox"/> 10 Days
----------------------------------	----------------------------------	-----------------------------------	-----------------------------------	-----------------------------------	---------------------------------	---

SAMPLE MATRIX

<input type="checkbox"/> Air	<input checked="" type="checkbox"/> Bulk	<input type="checkbox"/> Soil	<input type="checkbox"/> Wipe	<input type="checkbox"/> Micro-Vac	<input type="checkbox"/> Drinking Water	<input type="checkbox"/> Wastewater	<input type="checkbox"/> Chips	<input type="checkbox"/> Other
------------------------------	--	-------------------------------	-------------------------------	------------------------------------	---	-------------------------------------	--------------------------------	--------------------------------

ASBESTOS ANALYSIS

PCM - Air

NIOSH 7400 (A) Issue 2: August 1994

OSHA w/ Time Weighted Average

TEM AIR

AHERA 40 CFR, Part 763 Subpart E

NIOSH 7402 Issue 2

EPA Level II

PLM - Bulk

EPA 600/R-93/116

+ Add Gravimetric Reduction (EPA NOB)

PLM CARB 435 Level: A (0.25%) B (0.1%)

NIOSH 9002

EPA Point Count (400 Points)

+ Add Gravimetric Reduction (EPA NOB)

EPA Point Count (1,000 Points)

+ Add Gravimetric Reduction (EPA NOB)

Standard Addition Point Count

SOILS

PLM CARB 435 Level: A (0.25%) B (0.1%)

TEM CARB 435 Level: B (0.1%) C (0.01%)

D (0.001%) E (0.0005%) F (0.0001%)

EMSL MSD 9000 Method fibers/gram

Superfund EPA 540-R097-028 (dust generation)

EPA Protocol Qualitative Quantitative

TEM BULK

TEM EPA NOB, EPA 600/R-93/116 Section 2.5.5.1 (TEM % by VAE)

Chatfield SOP-1988-02

TEM EPA 600/R-93/116 Section 2.5.5.2 (TEM % by Mass)

TEM MICROVAC

ASTM D 5755 (Quantitative)

TEM WIPE

ASTM D-6480 (Quantitative)

TEM WATER

EPA 100.2 (≥ 10 microns)

Modified EPA 100.2 (≥ 0.5 microns)

OTHER: _____

LEAD ANALYSIS

Flame Atomic Absorption

Wipe, SW846-7420 ASTM non ASTM

Soil, SW846-7420

Air, NIOSH 7082

Chips, SW846-7420 or AOAC 5.009 (974.02)

Wastewater, SW 846-7420

TCLP LEAD SW846-1311/7420

Graphite Furnace Atomic Absorption

Air, NIOSH 7105

Wastewater, SW846-7421

Soil, SW846-7421

Drinking Water, EPA 239.2

ICP – Inductively Coupled Plasma

Wipe, SW846-6010 ASTM non ASTM

Soil, SW846-6010

Air, NIOSH 7300

MATERIALS ANALYSIS

Particle Identification

Full Particle Identification

Dust Mites and Insect Fragments

Particle Size & Distribution

Product Comparison

Paint Characterization

Failure Analysis

Corrosion Analysis

Glove Box Containment Study

Petrographic Examination of Concrete

Portland Cement in Workplace Atmospheres (OSHA ID-143)

Man Made Vitrous Fibers – MMVF's

Synthetic Fiber Identification

Other: _____

MICROBIAL ANALYSIS

Air Samples

Mold & Fungi by Air O Cell

Mold & Fungi by Agar Plate count & id

Bacterial Count and Gram Stain

Bacterial Count and Identification

Water Samples

Total Coliforms, Fecal Coliforms

Escherichia Coli, Fecal Streptococcus

Legionella

Salmonella

Giardia and Cryptosporidium

Wipe and Bulk Samples

Mold & Fungi – Direct Examination

Mold & Fungi – (Culture follow up to direct examination if necessary)

Mold & Fungi – Culture (Count & ID)

Mold & Fungi – Culture (Count only)

Bacterial Count & Gram Stain

Bacterial Count & Identification (3 most prominent types)

Other: _____

IAQ ANALYSIS

Nuisance Dust (NIOSH 0500 & 0600)

Airborne Dust (PM10, TSP)

Silica Analysis by XRD NIOSH 7500

HVAC Efficiency

Carbon Black

Airborne Oil Mist

Other: _____

Relinquished: _____	Date: <u>5/31/12</u>	Time: <u>1:50</u>
Received: _____	Date: <u>6/1/12</u>	Time: <u>9:30 AM</u>
Relinquished: _____	Date: _____	Time: _____
Received: _____	Date: _____	Time: _____



Polvorosa

EMSL - San Leandro ♦ 2235 Polvorosa Ave, Suite 230, San Leandro, CA 94577

SAMPLE NUMBER	SAMPLE DESCRIPTION	LOCATION	VOLUME Air (L) Area (Inches sq.)
1	6806-1A	BROWN 12X12 FLOOR TILE	
2	6806-1B	↓	
3	6806-2A	GRAY 12X12 FLOOR TILE w/ BLACK MASTIC	
4	6806-2B	↓	
5	6806-3A	BROWN 12X12 FLOOR TILE	
6	6806-3B	↓	
7	6806-4A	GRAY BASEBOARD w/ BROWN MASTIC	
8	6806-4B	↓	
9	6806-5A	GYPSUM BOARD w/ JOINT COMPOUND	
10	6806-5B	↓	
11	6806-5C	↓	
12	6806-6A	BATTING INSULATION	
13	6806-6B	↓	
14	6806-6C	↓	
15	6806-7A	VAPOR BARRIER	
16	6806-7B	↓	
17	6806-8A	WINDOW PUTTY	
18	6806-8B	↓	
19	6806-9A	ROOF MASTIC	
20	6806-9B	↓	
21	6806-10A	PAINT	
22	6806-10B	↓	
23	6806-11A	2" PIPE TSI	} STOP AT FIRST POSITIVE RESULT AT > 1%
24	6806-11B	↓	
25	6806-11C	↓	

Client Sample # (S)

TOTAL SAMPLE #

Relinquished: _____
 Received: _____
 Relinquished: _____
 Received: _____

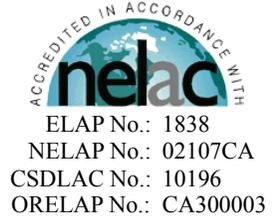
Date: _____
 Date: _____
 Date: _____
 Date: _____

Time: _____
 Time: _____
 Time: _____
 Time: _____



June 11, 2012

Chris Giuntoli
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
Tel: (925) 371-5900
Fax: (925) 371-5915



Re: ATL Work Order Number : 1202050
Client Reference : CRESTVIEW MS, S9525-06-51

Enclosed are the results for sample(s) received on June 01, 2012 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

A handwritten signature in black ink, appearing to read "Eddie Rodriguez", with a small "E" or "A" mark below the first letter.

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

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www.atlglobal.com



Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550

Project Number : CRESTVIEW MS, S9525-06-51
Report To : Chris Giuntoli
Reported : 06/11/2012

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2569-P1	1202050-01	Paint Chips	5/30/12 0:00	6/01/12 11:35
2569-P2	1202050-02	Paint Chips	5/30/12 0:00	6/01/12 11:35
2569-P3	1202050-03	Paint Chips	5/30/12 0:00	6/01/12 11:35
2569-P4	1202050-04	Paint Chips	5/30/12 0:00	6/01/12 11:35
6806-P1	1202050-05	Paint Chips	5/30/12 0:00	6/01/12 11:35
6806-P2	1202050-06	Paint Chips	5/30/12 0:00	6/01/12 11:35
PT-P1	1202050-07	Paint Chips	5/30/12 0:00	6/01/12 11:35
20185-P1	1202050-08	Paint Chips	5/30/12 0:00	6/01/12 11:35
2570-P1	1202050-09	Paint Chips	5/30/12 0:00	6/01/12 11:35
2570-P2	1202050-10	Paint Chips	5/30/12 0:00	6/01/12 11:35
2571-P1	1202050-11	Paint Chips	5/31/12 0:00	6/01/12 11:35
2571-P2	1202050-12	Paint Chips	5/31/12 0:00	6/01/12 11:35
2572-P1	1202050-13	Paint Chips	5/31/12 0:00	6/01/12 11:35
WS-P1	1202050-14	Paint Chips	5/31/12 0:00	6/01/12 11:35
20104-P1	1202050-15	Paint Chips	5/31/12 0:00	6/01/12 11:35



Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550

Project Number : CRESTVIEW MS, S9525-06-51
Report To : Chris Giuntoli
Reported : 06/11/2012

Total Metals by ICP-AES EPA 6010B

Analyte: Lead

Analyst: KK

Laboratory ID	Client Sample ID	Result	Units	PQL	MDL	Dilution	Batch	Prepared	Date/Time	Notes
									Analyzed	
1202050-01	2569-P1	7900	mg/kg	10	NA	5	B2F0109	06/05/2012	06/06/12 15:37	D6
1202050-02	2569-P2	52000	mg/kg	200	NA	100	B2F0109	06/05/2012	06/06/12 16:30	D6
1202050-03	2569-P3	2600	mg/kg	10	NA	5	B2F0109	06/05/2012	06/06/12 15:58	D6
1202050-04	2569-P4	12000	mg/kg	10	NA	5	B2F0109	06/05/2012	06/06/12 16:00	D6
1202050-05	6806-P1	46000	mg/kg	200	NA	100	B2F0109	06/05/2012	06/08/12 12:50	D6
1202050-06	6806-P2	50000	mg/kg	40	NA	20	B2F0109	06/05/2012	06/06/12 16:05	D6
1202050-07	PT-P1	3600	mg/kg	10	NA	5	B2F0109	06/05/2012	06/06/12 16:07	D6
1202050-08	20185-P1	4400	mg/kg	200	NA	100	B2F0109	06/05/2012	06/06/12 16:32	D6
1202050-09	2570-P1	51	mg/kg	10	NA	5	B2F0109	06/05/2012	06/06/12 16:11	D6
1202050-10	2570-P2	11000	mg/kg	200	NA	100	B2F0110	06/05/2012	06/08/12 13:11	D6
1202050-11	2571-P1	53	mg/kg	2.0	NA	1	B2F0110	06/05/2012	06/07/12 11:26	
1202050-12	2571-P2	390	mg/kg	200	NA	100	B2F0110	06/05/2012	06/07/12 11:28	D6
1202050-13	2572-P1	2200	mg/kg	40	NA	20	B2F0110	06/05/2012	06/06/12 17:16	D6
1202050-14	WS-P1	10000	mg/kg	40	NA	20	B2F0110	06/05/2012	06/06/12 17:18	D6
1202050-15	20104-P1	10000	mg/kg	40	NA	20	B2F0110	06/05/2012	06/06/12 17:20	D6



Geocon Consultants, Inc.
 6671 Brisa Street
 Livermore, CA 94550

Project Number : CRESTVIEW MS, S9525-06-51
 Report To : Chris Giuntoli
 Reported : 06/11/2012

QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2F0109 - EPA 3050B									
Blank (B2F0109-BLK1)					Prepared: 6/5/2012 Analyzed: 6/6/2012				
Lead	ND	1.0					NR		
LCS (B2F0109-BS1)					Prepared: 6/5/2012 Analyzed: 6/6/2012				
Lead	45	1.0	50.0		90.3	80 - 120			
Duplicate (B2F0109-DUP1)					Source: 1202050-06 Prepared: 6/5/2012 Analyzed: 6/6/2012				
Lead	43000	40		50000	NR		13.7	20	D6
Matrix Spike (B2F0109-MS1)					Source: 1201844-04 Prepared: 6/5/2012 Analyzed: 6/6/2012				
Lead	110	1.0	125	4.4	82.5	46 - 116			
Matrix Spike Dup (B2F0109-MSD1)					Source: 1201844-04 Prepared: 6/5/2012 Analyzed: 6/6/2012				
Lead	100	1.0	125	4.4	77.3	46 - 116	6.20	20	
Batch B2F0110 - EPA 3050B									
Blank (B2F0110-BLK1)					Prepared: 6/5/2012 Analyzed: 6/6/2012				
Lead	ND	1.0					NR		
LCS (B2F0110-BS1)					Prepared: 6/5/2012 Analyzed: 6/6/2012				
Lead	45	1.0	50.0		90.8	80 - 120			
Duplicate (B2F0110-DUP1)					Source: 1202050-14 Prepared: 6/5/2012 Analyzed: 6/6/2012				
Lead	2600	40		10000	NR		118	20	R
Matrix Spike (B2F0110-MS1)					Source: 1201844-08 Prepared: 6/5/2012 Analyzed: 6/6/2012				
Lead	150	20	125	19	105	46 - 116			
Matrix Spike Dup (B2F0110-MSD1)					Source: 1201844-08 Prepared: 6/5/2012 Analyzed: 6/6/2012				
Lead	160	20	125	19	110	46 - 116	4.36	20	



Geocon Consultants, Inc.
6671 Brisa Street
Livermore , CA 94550

Project Number : CRESTVIEW MS, S9525-06-51
Report To : Chris Giuntoli
Reported : 06/11/2012

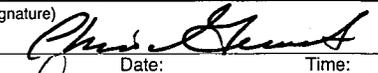
Notes and Definitions

R RPD value outside acceptance criteria. Calculation is based on raw values.
D6 Sample required dilution due to high concentration of target analyte.
ND Analyte not detected at or above reporting limit
PQL Practical Quantitation Limit
MDL Method Detection Limit
NR Not Reported
RPD Relative Percent Difference

CHAIN OF CUSTODY RECORD

 ADVANCED TECHNOLOGY LABORATORIES 3275 Walnut Ave., Signal Hill, CA 90755 Tel: (562) 989-4045 • Fax: (562) 989-4040	P.O.#: _____ Quote #: _____	FOR LABORATORY USE ONLY:	
	Logged By: _____ Date: _____	Method of Transport <input type="checkbox"/> Client <input type="checkbox"/> ATL <input type="checkbox"/> FedEx <input type="checkbox"/> OnTrac <input type="checkbox"/> GSO <input checked="" type="checkbox"/> Other: <u>GSD</u>	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input type="checkbox"/> 5. # OF SPLS MATCH COC Y <input type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>
NOTE: Please include your Quote No. to ensure proper pricing of your project.			

Client: <u>GEDCON</u>	Address: <u>6671 BRISA ST</u>	TEL: _____
Attn: <u>CHRIS GIUNTOLI</u>	City: <u>LIVERMORE</u> State: <u>CA</u> Zip Code: <u>94550</u>	FAX: _____

Project Name: <u>CRESTVIEW MS</u>	Project #: <u>59525-06-51</u>	Sampler: <u>CGIUNTOLI</u> (Printed Name)	(Signature) 
Relinquished by: _____ (Signature and Printed Name)	Date: <u>5/31/12</u> Time: <u>1245</u>	Received by: _____ (Signature and Printed Name)	Date: _____ Time: _____
Relinquished by: _____ (Signature and Printed Name)	Date: _____ Time: _____	Received by: <u>FPD/LWA</u> (Signature and Printed Name)	Date: <u>6/1/12</u> Time: <u>1135</u>
Relinquished by: _____ (Signature and Printed Name)	Date: _____ Time: _____	Received by: _____ (Signature and Printed Name)	Date: _____ Time: _____

I hereby authorize ATL to perform the work indicated below: Project Mgr /Submitter: <u>CGIUNTOLI</u> <u>5/31/12</u> 	Send Report To: Attn: <u>SAME</u> Co: _____ Addr: _____ City: _____ State: _____ Zip: _____	Bill To: Attn: <u>SAME</u> Co: _____ Addr: _____ City: _____ State: _____ Zip: _____	Special Instructions/Comments: * SOLUBLE LEAD MAY BE REQUESTED BASED ON TOTAL LEAD RESULTS
---	---	--	--

Sample/Records - Archival & Disposal
 Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
 • Sample : \$2.00 / sample / mo (after 45 days)
 • Records : \$1.00 / ATL workorder / mo (after 1 year)

ITEM	LAB USE ONLY:		Sample Description				SPECIFY APPROPRIATE MATRIX										PRESERVATION	REMARKS							
	Batch #:	Lab No.	Sample I.D. / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BNA)	6010B (Total Metal)	8015B (GRO) / 8021 (BTEX)	TITLE 22 / CAM 17 (6010 / 7000)	TOTAL LEAD*	SEDIMENT	SOLID	SOIL			DRINKING WATER	GROUND WATER	WASTEWATER	STORMWATER	AQUEOUS	PHAST CHIPS	Container(s)
																							TAT	#	Type
		<u>1202050 - 01</u>	<u>2569-P1</u>	<u>5/30/12</u>								<u>X</u>										<u>X</u>	<u>E</u>	<u>1</u>	<u>PB</u>
		<u>- 2</u>	<u>2569-P2</u>																						
		<u>- 3</u>	<u>2569-P3</u>																						
		<u>- 4</u>	<u>2569-P4</u>																						
		<u>- 5</u>	<u>6806-P1</u>																						
		<u>- 6</u>	<u>6806-P2</u>																						
		<u>- 7</u>	<u>PT-P1</u>																						
		<u>- 8</u>	<u>20185-P1</u>																						
		<u>- 9</u>	<u>2570-P1</u>																						
		<u>- 10</u>	<u>2570-P2</u>																						

• TAT starts 8 a.m. following day if samples received after 5 p.m.	TAT: <input type="checkbox"/> A= Overnight ≤ 24 hrs <input type="checkbox"/> B= Emergency Next workday <input type="checkbox"/> C= Critical 2 Workdays <input type="checkbox"/> D= Urgent 3 Workdays <input type="checkbox"/> E= Routine 7 Workdays	Preservatives: H=HCl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃
Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal		



June 18, 2012

Chris Giuntoli
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
Tel: (925) 371-5900
Fax: (925) 371-5915



Re: ATL Work Order Number : 1202050
Client Reference : CRESTVIEW MS, S9525-06-51

Enclosed are the results for sample(s) received on June 01, 2012 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

A handwritten signature in black ink, appearing to read "Eddie Rodriguez", followed by the initials "ER" in a smaller, simpler font.

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

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Geocon Consultants, Inc.
6671 Brisa Street
Livermore , CA 94550

Project Number : CRESTVIEW MS, S9525-06-51
Report To : Chris Giuntoli
Reported : 06/18/2012

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2570-P1	1202050-09	Paint Chips	5/30/12 0:00	6/01/12 11:35
2571-P1	1202050-11	Paint Chips	5/31/12 0:00	6/01/12 11:35
2571-P2	1202050-12	Paint Chips	5/31/12 0:00	6/01/12 11:35



Geocon Consultants, Inc.
6671 Brisa Street
Livermore , CA 94550

Project Number : CRESTVIEW MS, S9525-06-51
Report To : Chris Giuntoli
Reported : 06/18/2012

STLC Lead by AA (Direct Aspiration) by EPA 7420

Analyte: Lead

Analyst: VV

Laboratory ID	Client Sample ID	Result	Units	PQL	MDL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1202050-09	2570-P1	0.83	mg/L	0.50	NA	1	B2F0428	06/14/2012	06/15/12 12:26	
1202050-11	2571-P1	3.2	mg/L	0.50	NA	1	B2F0428	06/14/2012	06/15/12 12:27	
1202050-12	2571-P2	0.78	mg/L	0.50	NA	1	B2F0428	06/14/2012	06/15/12 12:28	



Geocon Consultants, Inc.
 6671 Brisa Street
 Livermore, CA 94550

Project Number : CRESTVIEW MS, S9525-06-51
 Report To : Chris Giuntoli
 Reported : 06/18/2012

QUALITY CONTROL SECTION

STLC Lead by AA (Direct Aspiration) by EPA 7420 - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
Batch B2F0428 - STLC Extraction									
Blank (B2F0428-BLK1)					Prepared: 6/14/2012 Analyzed: 6/15/2012				
Lead	ND	0.50							NR
LCS (B2F0428-BS1)					Prepared: 6/14/2012 Analyzed: 6/15/2012				
Lead	5.2	0.05	5.00		105	80 - 120			
Duplicate (B2F0428-DUP1)					Source: 1202050-09 Prepared: 6/14/2012 Analyzed: 6/15/2012				
Lead	0.80	0.50		0.83	NR		4.77	20	
Matrix Spike (B2F0428-MS1)					Source: 1202050-09 Prepared: 6/14/2012 Analyzed: 6/15/2012				
Lead	6.0	0.05	5.00	0.83	103	80 - 120			
Matrix Spike Dup (B2F0428-MSD1)					Source: 1202050-09 Prepared: 6/14/2012 Analyzed: 6/15/2012				
Lead	5.9	0.05	5.00	0.83	101	80 - 120	1.62	20	
Batch S2F0221 - B2F0436									
Instrument Blank (S2F0221-IBL1)					Prepared: 6/15/2012 Analyzed: 6/15/2012				
Lead	ND	0.50							NR



Geocon Consultants, Inc.
6671 Brisa Street
Livermore , CA 94550

Project Number : CRESTVIEW MS, S9525-06-51
Report To : Chris Giuntoli
Reported : 06/18/2012

Notes and Definitions

ND Analyte not detected at or above reporting limit
PQL Practical Quantitation Limit
MDL Method Detection Limit
NR Not Reported
RPD Relative Percent Difference

Diane Galvan

From: Chris Giuntoli [giuntoli@geoconinc.com]
Sent: Tuesday, June 12, 2012 7:57 AM
To: Diane Galvan
Subject: RE: Results/EDD/InvCRESTVIEW MS (1202050)

Hi Diane,

Please put a stop on the TCLPs that I requested below. But please do run the WETs as indicated.

Thanks

From: Chris Giuntoli [mailto:giuntoli@geoconinc.com]
Sent: Monday, June 11, 2012 1:37 PM
To: Diane Galvan
Subject: RE: Results/EDD/InvCRESTVIEW MS (1202050)

Hi Diane,

For WO 1202050, please run WET lead on standard TAT for the following samples:

2570-P1,
2571-P1, and
2571-P2.

Please also run TCLP lead on standard TAT for the following samples:

2569-P1,
2569-P2,
2569-P3,
2569-P4,
6806-P1,
6806-P2,
PT-P1
20185-P1,
2570-P2,
2572-P1,
WS-P1, and
20104-P1.

Thanks,
Chris

June 26, 2012

Chris Giuntoli
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
Tel: (925) 371-5900
Fax: (925) 371-5915



Re: ATL Work Order Number : 1202050
Client Reference : CRESTVIEW MS, S9525-06-51

Enclosed are the results for sample(s) received on June 01, 2012 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

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Geocon Consultants, Inc.
6671 Brisa Street
Livermore , CA 94550

Project Number : CRESTVIEW MS, S9525-06-51
Report To : Chris Giuntoli
Reported : 06/26/2012

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Composite	1202050-16	Paint Chips	5/31/12 0:00	6/01/12 11:35



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Client Sample ID Composite

Lab ID: 1202050-16

TCLP Lead by AA (Direct Aspiration) EPA 7420

Analyst: VV

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	26	2.5	NA	5	B2F0632	06/22/2012	06/25/12 11:23	

QUALITY CONTROL SECTION

TCLP Lead by AA (Direct Aspiration) EPA 7420 - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B2F0632 - EPA 3010A TCLP									
Blank (B2F0632-BLK1)				Prepared: 6/22/2012 Analyzed: 6/25/2012					
Lead	ND	0.50					NR		
Blank (B2F0632-BLK2)				Prepared: 6/22/2012 Analyzed: 6/25/2012					
Lead	ND	0.50					NR		
Blank (B2F0632-BLK3)				Prepared: 6/22/2012 Analyzed: 6/25/2012					
Lead	ND	0.50					NR		
Blank (B2F0632-BLK4)				Prepared: 6/22/2012 Analyzed: 6/25/2012					
Lead	ND	0.50					NR		
LCS (B2F0632-BS1)				Prepared: 6/22/2012 Analyzed: 6/25/2012					
Lead	1.1	0.50	1.00		113	80 - 120			
Duplicate (B2F0632-DUP1)				Source: 1202110-27 Prepared: 6/22/2012 Analyzed: 6/25/2012					
Lead	0.37	0.50		0.40	NR		9.59	20	
Duplicate (B2F0632-DUP2)				Source: 1202096-89 Prepared: 6/22/2012 Analyzed: 6/25/2012					
Lead	ND	0.50		0.27	NR			20	
Matrix Spike (B2F0632-MS1)				Source: 1202110-27 Prepared: 6/22/2012 Analyzed: 6/25/2012					
Lead	2.8	0.50	2.50	0.40	95.5	80 - 120			
Matrix Spike (B2F0632-MS2)				Source: 1202096-89 Prepared: 6/22/2012 Analyzed: 6/25/2012					
Lead	2.8	0.50	2.50	0.27	101	80 - 120			
Matrix Spike Dup (B2F0632-MSD1)				Source: 1202110-27 Prepared: 6/22/2012 Analyzed: 6/25/2012					
Lead	3.0	0.50	2.50	0.40	103	80 - 120	6.12	20	



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Notes and Definitions

ND Analyte not detected at or above reporting limit
PQL Practical Quantitation Limit
MDL Method Detection Limit
NR Not Reported
RPD Relative Percent Difference
CA1 CA-NELAP (CDPH)
CA2 CA-ELAP (CDPH)
OR1 OR-NELAP (OSPHL)
TX1 TX-NELAP (TCEQ)

Diane Galvan

From: David Watts [watts@geoconinc.com]
Sent: Wednesday, June 20, 2012 12:21 PM
To: Diane Galvan
Cc: Chris Giuntoli
Subject: Crestview - 1202050

Diane,

Please composite the following 10 samples and run a TCLP on the composite (std tat).

2569-P1

2569-P3

2569-P4

2570-P2

2572-P1

6806-P1

6806-P2

20104-P1

20185-P1

WS-P1

Thanks,



David Watts | Senior Project Scientist
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