# Executive Report
# for the
# Western Forge and Flange Company
# Closure at
# 540 Cleveland Ave
# Albany CA 94706

**June 2009**

Chemical Data Management Systems

# ii. Table of Contents

## i. Executive Summary

This report presents the details of the hazardous material facility closure Chemical Data Management Systems (CDMS) conducted on behalf of Western Forge and Flange Co. at 540 Cleveland Ave, Albany California.

Western Forge and Flange was in operation at the Albany site from 1944 until the company began relocating its manufacturing operation to their Texas facility in 2007. By early 2008, all of the equipment and materials used during the manufacturing operations, including hazardous materials, were moved to the Texas facility.

Since the relocation of the Western Forge and Flange Co. facility from Albany to Texas, there have been extensive decontamination/clean up activities. Clean up activities have included: cleaning the rafters using wire brushes, hot pressurized water, and industrial vacuums; sweeping the floors; triple rinsing the floors with hot pressurized water; triple rinsing the clarifier using hot pressurized water; removing back fill from the pits used to house the footings of the hammers and roller rings; removing all piping containing hazardous materials; removing some soil containing contaminants above the environmental screening levels; removing oil from the open exploratory excavation near the ring roller pit; and removing all hazardous waste.

In addition to the clean up activities, several sampling events also occurred under the direction of the Alameda County Department of Environmental Health (ACDEH), including, wipe sampling, soil sampling and water sampling. The analytical parameters used for the analysis of soil and water were: TPH-Diesel, TPH-Motor Oil, TPH-Carbon Range C19-C36, cadmium, chromium, nickel, lead, and zinc.

Sample analyses for all wipe samples were completed for: cadmium, chromium, nickel, lead and zinc. Wipe sampling results indicated elevated levels of metals in several locations, all of which are between 15-40 feet above ground level. One wipe sample, S-3, showed marginal elevated levels for nickel at a location of approximately 8 feet. As a result of the elevated levels of metals, the rafters were cleaned after each sampling event to remove trace contaminants. A total of three wipe sampling events and three aboveground cleaning events occurred.

Water sampling results indicated elevated levels of metals in several locations but not in others. Elevated levels of petroleum hydrocarbons were detected in soil samples from various sampling locations but not in others.

As a response to the elevated levels of petroleum hydrocarbons found in various soil-sampling locations, a soil cleanup plan was developed to remediate the areas in close proximity to these sample locations (sample locations 5, 6B, SB106, SB107).

Cleanup in sample locations 5, 6B, and SB 107 continued until all contaminated soil had been removed. During the cleanup of sample location SB106 (adjacent to the ring roller pit), oil began to seep from a point source in the wall of the trench closest to the ring roller pit at 2.5 feet below ground surface, and began to accumulate on top of a perched layer of water at the bottom of the pit.

Following this event, Consulting Geologist Fred Hoffman and CDMS representatives further evaluated the excavation and the decision was made to conduct subsurface investigations around of each of the other two pits on site. The purpose of this investigation was to confirm the presence or absence of oil in the area surrounding the pits. No contamination was observed during this subsurface investigation.

Currently, bio and chemical remediation has been implemented along with several oil-skimming events to assist in the removal of oil in the water and soil in the excavation at SB106, adjacent to the ring roller pit.

Case worker Susan Hugo and Sukla De of the ACDEH, have recommended that this case be transferred to the Alameda County Site Mitigation/Local Oversight Program for all subsurface issues and concerns.

Further evaluation of the aboveground issues and the transfer of this case to the Site Mitigation/Local Oversight Program for an evaluation of the subsurface issues are pending as of this writing.

# CLOSURE PLAN

FOR

## Western Forge & Flange Co. - Albany

540 Cleveland Avenue
Albany, CA

April 2008

CLOSURE PLAN

Prepared for:

Western Forge & Flange Co. - Albany

To be submitted to:

Alameda County Department of Environmental Health

This Closure Plan is being submitted under the following conditions:

Facility is closing down

Sampling: Sampling will be based on the recommendations in this plan and supplemented with the requirements outlined by the Alameda County Department of Environmental Health

Inspection: Inspections will be scheduled after the submittal of the plan.

# Table of Contents

## X Notification Letters

# I. FACILITY DESCRIPTION

A. LOCATION

Site Address

| | |
|---|---|
| Business Name: | Western Forge & Flange Co. - Albany |
| Business Address: | 540 Cleveland Avenue |
| City, State, Zip: | Albany, CA 94706 |
| County: | Alameda |
| Telephone Number: | (281) 727-7001 |
| Operator or Owner: | Walter Pierce |

Mailing Address

| | |
|---|---|
| Company: | Western Forge & Flange Co. |
| Contact Name: | Walter Pierce |
| Title: | President |
| Street: | 687 County Rd. 2201 |
| City, State, Zip: | Cleveland, TX 77327 |
| Telephone Number: | (281) 727-7001 |

Property Owner

| | |
|---|---|
| Company: | Western Forge & Flange Co. |
| Contact Name: | Walter Pierce |
| Title: | President |
| Street: | 687 County Rd. 2201 |
| City, State, Zip: | Cleveland, TX 77327 |
| Contact: | Walter Pierce |
| Telephone: | (281) 727-7001 |

## B. SITE USE AND HISTORY

Business Activity Description:

Albany Western Forge & Flange manufactures flanges and forgings made from a variety of different materials including: titanium, aluminum, high nickel alloys, stainless steel, and alloy steels. Raw material stock is cut and then heated in furnaces. The flanges are then forged (hammered or pressed) into shape. The part is machined, if requested by the customer. Approximately 60% of all projects are machined. Flanges are then inspected and shipped to customers.

Date Business Started: 1944

Facility Description:

| | |
|---|---|
| Square Footage: | 25,000 (approximate) |
| Buildings: | 1 Building |
| Hazardous Materials Area: | 10 Areas |

Containment Area Description:

All hazardous material are in portable secondary container units.

Adjacent Properties:

| | |
|---|---|
| North: | Albany Street |
| South: | Grace Bakery |
| East: | Freeway I-80 |
| West: | Railroad tracks |

## C. BUILDING LAYOUT

Please refer to the facility drawings found in the Appendix.

# II. HAZARDOUS MATERIALS

Western Forge and Flange has been relocating its manufacturing operation to their Texas facility of the course of one year (2007). During this process equipment and chemicals used at this facility were gradually moved to the Texas facility. All chemicals were shipped using hazardous material transporters. The equipment; the forges, were decommission at the Albany site and shipped to the Texas site. All the equipment and chemicals that were relocated to Texas were put into service at the location. Once the Texas facility was operational a decision was made to close the Albany, California facility.

All chemicals listed below were not on site when the decision was made to close the Albany facility. However, the list below was prepared to provided an indication were these chemicals were stored during the time when the Albany facility was operational. The numbers for the items listed below correspond to the numbers on the facility site drawing, which is in the Appendix.

A. TYPES AND USES OF HAZARDOUS MATERIALS

1.) Canola Frying Shortening: Used to in the forging operation during die shaping to prevent melding shaped piece to the die

2.) Propane: Used as a fuel source to power onsite forklifts.

3.) Oxygen: Used during the welding process of melding flanges.

4.) Diesel fuel#2: Used to fuel onsite vehicles.

5.) Chevron ISO 32 Hydraulic Oil: Used during the forging operation for lubricating the hydraulics of the press and hammer.

6.) Cheveron ISO Cylinder Oil: Used during the forging operation to provide lubrication to the cylinders of the press anf hammer.

7.) Universal Gear Oil 80/90 Weight: Used during the forging operation to provide lubrication to the gears of the press and hammer.

8.) Chevron Soluble Oil B: Used during the forging operation to cool the flanges after they had been but through the furnace.

9.) Carbon Dioxide/ Argon gas mixture: Used during the welding process of melding flanges.

10.) Chevron Quenching Oil 70: Used during the forging process to cool steel for steel hardening.

11.) Chevron Black Pearl Grease: Used during the forging process to provide Lubricartion to the bearing surfaces of both the press and hammer.

12.) Bolier Treat 6000: Used is in the boiler to help reduce scaling.

13.) Acetylene: Used during the welding process of melding billets and flanges.

14.) Oil and Water seperator (one tank): Used during the forging process in another process known as quenching, which involves the cooling off of forged parts.

15.) Waste: Waste metals form the bi-product from the quenching process.

A copy of the Hazardous Materials Inventory has been included in Appendix, which will provide more detailed information on the hazardous material inventory.

# III. HEALTH AND SAFETY PLAN

A. Employees working at the Albany facility have received 40 Hour Hazwoper training and are qualified to work with all hazardous material on site.

B. SAFETY AND HEALTH HAZARD ANALYSIS

The Albany site clean-up will involve the clean of the following hazardous materials/wastes:

| **Hazardous Material** | **Hazard Identified** |
|---|---|
| Lubrication oil | Combustible |
| Metals (Traces) | None |

C. EMPLOYEE TRAINING

In addtion to the 40-Hour training that the workers have been trained in the Supervisor ahs been trained in the following elements:

1. Right to Know training

   All employees have been trained in the contents of the Hazardous Materials Management Plan, OSHA Hazard Communication, and the Hazardous Material Emergency Response Plan and Procedures. Subjects included:

   MSDS

   Hazardous Symbols

   Protective Equipment

   Hazardous Materials/Handling

   Proposition 65

   Basic Emergency Information

   Emergency Response Procedures

   Notification Procedures - Internal/External Reporting

   Evacuation Procedures/Meeting Point

2. Hazardous Waste Training per Title 22 §66265.16

All employees involved in the management of hazardous waste have been trained within six months of hire and will not manage hazardous wastes in unsupervised positions until they have been trained. This training consists of classroom instruction containing information regarding contingency plan implementation and in-house waste management policies. Employees have also received on-the-job training by Western Forge & Flange Co. - Albany. Subjects included:

Safe handling of hazardous wastes

Emergency Response Procedures

Emergency equipment and systems, where applicable

Procedures for using, inspecting, repairing and replacing emergency and monitoring equipment

Operation of automatic waste-feed-cutoff systems

Use of communication and alarm systems

Response to fires and explosions

Response to groundwater contamination incidents

Procedures for shutting down operations

## D. PERSONAL PROTECTIVE EQUIPMENT

1. Site workers will be provided with the following personal protective equipment for their personal protection:
   - ❖ Gloves
   - ❖ safety glasses
   - ❖ goggles
   - ❖ boots
   - ❖ Dust Masks in Shipping and Plant
   - ❖ Tivac suites
2. A safety shower/eyewash station and fresh running water are also available in the following locations:

- ❖ • Refer to drawings. These are not plumbed, they are disposable bottles

3. A First Aid Kit is also available.

## E. EMERGENCY RESPONSE PLAN

The emergency response/contingency plan is available onsite in the Hazardous Material Business and Management Plan and includes the following:

Basic Emergency Information and Emergency Response Procedures:

Body Contact with Chemicals

Other Spill

Unplanned Release of Hazardous Materials or Waste

Notification Procedures

Evacuation Procedures

# IV. CLOSURE PLAN

## A. REMOVAL OF HAZARDOUS MATERIALS

1. Western Forge and Flange has been relocating its manufacturing operation to their Texas facility of the course of one year (2007). During this process chemicals used at this facility were gradually moved to the Texas facility. All chemicals were shipped using hazardous material transporters. All the chemicals that were relocated to Texas were put into service at that location. Once the Texas facility was operational a decision was made to close the Albany, California facility.

   Remove all process chemicals from equipment and storage areas that have not been depleted during operation, shipped off-site, or returned to vendors will be pumped into 55 gallons drums and shipped as hazardous material.

2. All hazardous materials will be transported by a licensed hazardous material hauler to a proper disposal site.

## B. REMOVAL OF EQUIPMENT

1. Western Forge and Flange has been relocating it's manufacturing operation to the Texas facility of the course of one year (2007). During the relocation process this facility gradually moved equipment to the Texas facility. The equipment; the forges, were decommission at the Albany site and shipped to the Texas site. All the equipment that were relocated to Texas were put into service at that location. Once the Texas facility was operational a decision was made to close the Albany, California facility. For a summary of all equipment removal refer to the despostion in the appendix.

## C. DECONTAMINATION OF BUILDING MATERIALS

1. Floors that are visibly stained, or otherwise suspected of being contaminated with oil and grease, will be triple-cleaned using a floor scrubber or hot water power washers. All cleaning liquids generated from the process will be collected in a containment tank and disposed of as hazardous waste.

2. The walls of the building that were exposed to hazardous materials or waste will be decontaminated by removing all hazardous waste and residues with industrial vacuums and scraping tools. All waste will be disposed of as hazardous waste.
3. The sumps will be power washed and cleaned to remove any debris and hazardous materials.
4. All pits around the forging hammers will have the anvils removed. The anvils are located in large pits (At least 10 feet deep by 10 foot by 10 foot sides) and may have some oils that have seeped into the pits and possibly into the ground. Sampling will be conducted at each of these locations.

All disposal, removal, and cleaning will be performed by Chemical Data Management Systems.

## D. WASTEWATER TREATMENT AND WASTE DISPOSAL

1. Waste Water

   There is a waste waster permit with the East Bay MUD under permit number 10619471. The facility did discharge wastewater from the oil/water separator into a clarifier. The clarifier will be pumped out and pressure washed. All waste removed from the clarifier will be disposed of as hazardous waste.

2. Hazard Waste

   All hazardous waste will be disposed of in accordance with the rules and regulations of the Department of Health Services, Cal/EPA, the San Francisco Regional Water Quality Control Board, the Bay Area Air Quality Management District, U.S. EPA, and any other local, State, or Federal agency requirements. All receipts for the disposal of hazardous waste will be kept and made available for inspection.

## E. FACILITY DESCRIPTION/EQUIPMENT LOCATIONS

The following are descriptions of the each of the areas at the site with a list of what may needed to be decontaminated or may represent contaminate areas.

| Location | Description | Clean Up Actions |
|---|---|---|
| Facility Office | Main office | None |
| Shipping | Shipping floors | Hot power washing |
| Machine Shop | Machine Shop floors | Hot power washing and sampling. Waste oil to be removed |
| Plant Office & Storage Bldg | Non hazardous | None |
| Forge Building | Contaminated walls, associated beams, floors and waste oil | Hot power washing and sampling. Waste oil to be removed |
| Ceiling/Roof Scaffolding | Contaminated steel rafters and trusses. | Vacuum and scraping of debris from all scaffolding elements with scraping tools and industrial vacuum. Sampling will also be conducted. |

F. STORMWATER SEWERS

All stormwater drains will be inspected for the presences of contamination. If there is the presence of any contamination the stormwater sewer lines, they will be cleaned out using industrial steam cleaning methods.

G. ASBESTOS

There is no known asbestos at this facility.

H. STORAGE TANKS

The oil/water separator was shipped to Texas and the Diesel Tank was returned to the vendor.

Please refer to disposition found in the Appendix.

## I. AIR PERMITS

The facility has a BAAQMD permit for five sources. Each of these sources was for gas-fired furnaces used in the forging process. See the Appendix for a more detailed description of the permit and the sources.

## J. REPORTING

1. Any additional recommendations by the Department of Toxic Substances Control or the lead agency will be promptly addressed.
2. The EPA will be contacted to deactivate the current Hazardous Waste Generators permit for the present site.
3. The Air Quality Management District will be contacted to deactivate any current permits.
4. The Eaast Bay MUD POTW will be contacted to deactivate the current permit.
5. A final Closure Report will be prepared and submitted with supporting documentation after all closure activities have been completed.

Please refer to the appendix for copies of the deactivation requests.

# V.SAMPLING PLAN

## A. PROPOSED SAMPLE LOCATIONS

1. Core sampling will be performed with attention to hazardous material storage areas, process areas, and areas where cracks or etching is found. Core sample locations will be identified using the EPA method of randomized sampling where sampling should be performed for oil and grease. Core sampling will also be performed in all the hammer/press pits using the guidlines of the EPA randomized sampling method. See the Appendix for proposed sampling locations. Additional sampling will be added to the sampling plan based on the inputs from the administrative ageny. Samples will be collected at 1 foot and 3 foot depths.
2. Ground water samples shall be collected in the areas were previous equipment or activities where located:
    - Oil Water Separator
    - Diesel Tank
    - Waste Storage

2. Bulk samples will be collected using the EPA method of randomized sampling from structural components located throughout the facility, such as wall, beams, rafters, etc .

## B. SAMPLE COLLECTION AND PRESERVATION

1. Core and bulk samples will be taken by Chemical Data Management Systems. Samplers' names will be so noted in the sample logbook. EPA QA/QC procedures are followed.
2. Sampling procedure:
    a. Core samples
        1. Core samples will be taken with clean Teflon or brass sleeves
        2. The sleeves will be put into a clean plastic sample bag and placed into an ice chest; no preservation required

b. Bulk samples

1. Bulk samples will be collected in clean glass jars provided by Test America using a spatula; triple rinsed each time after sampling.
2. The jars will be placed into a clean plastic sample bag and placed into. ice chest; no preservation required.

c. The sample containers will be capped and labeled with the sample description, date and time of the collection.

A State registered geologist will oversee all sampling and will sign-off on all core and bulk samples.

C. CHAIN-OF-CUSTODY

This record includes the following:

1. Name of the company
2. Samplers' signatures
3. Receivers' signatures
4. Unique identification number
5. Sample location
6. Date and time of collection
7. Type of sample
8. Number of containers and particular container's sequence number
9. Analyses required

When custody of a sample is transferred, the person relinquishing the samples must sign the record. The person receiving the sample acknowledges receipt by signing the record also.

A sample chain-of-custody form is contained at the end of this section.

D. ANALYSIS

1. Analysis Parameters

Core samples will use Method 8260

Ground water samples will use Method 8260

2. Samples

Bulk sampling will use Method 6010B and conduct analysis for Cd, Cr, Pb, and Zn for the metals, and Method 9070 for oil and grease.

All waste generated during the sampling process will meet all Federal EPA and DTSC requirements.

E. CLEAN UP STANDARDS

The clean up standards that will be used to evaluate the sampling results will be based on the San Francisco Bay Regional Water Quality Control Boards Shallow Soil Screening Levels for Commercial / Industrial Land Use tables dated February 2005, and are listed below:

| Chemical Parameter | Soil - ESL (mg/kg) | Groundwater (mg/kg) |
|---|---|---|
| Cadmium | 7.4 E+00 | NA |
| Chrome (Total) | 5.8 E+01 | NA |
| Lead | 7.5 E+02 | NA |
| Nickel | 1.5 E+02 | NA |
| Zinc | 6.0 E+02 | NA |
| TPH (Middle Distillates) | NA | 1.0 E+02 |

F. PERSON RESPONSIBLE FOR SAMPLE COLLECTION

Name: Jamie Hernandez

Job title: Environmental Specialist

Firm: Chemical Data Management Systems

Address: 6515 Trinity Court, Suite 201, Dublin, CA 94568

Phone: (925) 551-7300

G. LABORATORY INFORMATION

Test America- San Francisco

1220 Quarry Lane

Pleasanton, CA 94566

(925) 484-1919

H. AGENCY OVERSIGHT

All sampling activities will be coordinated with Alameda County Health Care Services.

**Western Forge & Flange Co. - Albany**

## CHAIN OF CUSTODY RECORD

SAMPLERS *(Signature*

| SAMPLE NUMBER | SAMPLE LOCATION | DATE | TIME | *SAMPLE TYPE* | | *NO. OF CONTAINERS* | *ANALYSES REQUIRED* |
|---|---|---|---|---|---|---|---|
| | | | | *COMP* | *GRAB* | | |
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| **Relinquished by:** *(Signature)* | **Received by:** *(Signature)* | **Date** | **Time** |
| **Relinquished by:** *(Signature)* | **Received by:** *(Signature)* | **Date** | **Time** |
| **Relinquished by:** *(Signature)* | **Received by:** *(Signature)* | **Date** | **Time** |
| **Relinquished by:** *(Signature)* | **Received for Laboratory by:** *(Signature)* | **Date** | **Time** |

**Method of Shipment:**

Distribution: Original - Accompany Samples

1 copy - Keep on File

# VI. PROPOSED CLOSURE SCHEDULE

A. DATE OF REMOVAL OF INVENTORY: FEBRUARY 2008

B. DATE OF REMOVAL OF EQUIPMENT: FEBRUARY 2008

C. DATE OF FACILITY DECONTAMINATION: MAY 2008

D. DATE OF FACILITY SAMPLING: MAY 2008

E. DATE OF CLOSURE OF THE FACILITY: JUNE 2008

# VII. CONTRACTORS

Firm contracted to perform decontamination:

Chemical Data Management Systems

6515 Trinity Court, Suite #201, Dublin, CA 94568

James N. Carro

(925) 551-7300

Firm contacted to prepare the Closure Plan:

Chemical Data Management Systems

6515 Trinity Court, Suite #201, Dublin, CA 94568

James N. Carro

(925) 551-7300

Firm contracted to transport hazardous materials and equipment (will not transport any hazardous waste):

To be Determined

Destination of materials and equipment:

Please refer to the appendix for the dispostion.

# VIII. COORDINATION WITH OTHER AGENCIES

A. LOCAL AGENCY WITH JURISDICTION

Western Forge and Flange will coordinate all closure activities through the Alameda County Department of Environmental Health, Hazardous Materials Division.

B. BUILDING DEPARTMENT

The Building Department requires property owner and/or demolishing contractor to obtain a building permit for the demolition.

C. OTHER AGENCIES

The following agencies will be notified of the closure by letter or other document as required:

Alameda County Department of Environmental Health
Hazardous Material Division
1131 Harbor Bay Parkway, Room 250
Alameda, CA 94502

Easy Bay Municipal Utilities District
P.O. Box 24055
Oakland, CA 94623
(510) 287-1409

City of Albany

Street Department - if the spill may affect storm drains.

US EPA Region 9

PRC-RCRA Notification Section

75 Hawthorne Street

WST-6 Tetra Tech

San Francisco, CA 94105
(415) 495-8895

Cal EPA Headquarters
Department of Toxic Substances Control
P.O. Box 806
Sacramento, CA 95812-0806
(916) 324-1826

Region 2
Department of Toxic Substances Control
Site Mitigation Branch
2151 Berkeley Way, Anx 9
Berkeley, CA 94704
(510) 540-2122

State Board of Equalization
Excise Tax Division
P.O. Box 942879
Sacramento, CA 94279-0001
MIC 57
(916) 299-6930

Bay Area Air Quality Management District
939 Ellis Street
San Francisco, CA 94109
(415) 771-6000

Regional Water Quality Control Board (to close Storm Water permit)

File Notice of Termination form

# IX. CERTIFICATIONS

## Owner Certification

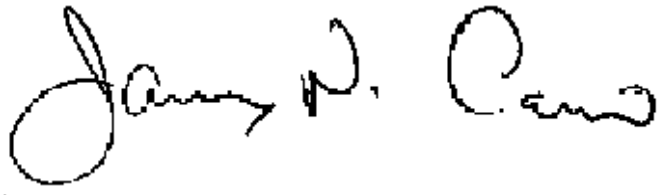
I certify that no evidence of a release of hazardous waste or hazardous substances has been found and none of the signatories has any knowledge of any release of hazardous waste or hazardous constituents at the facility.

I declare under penalty of perjury that the above information is correct to the best of my knowledge. If there is any change, which would materially affect the above information, I will notify the Alameda County Department of Environmental Health.

### Western Forge & Flange Co. - Albany

Walter Pierce, President — Date

## Registered Environmental Assessors Certification



April 25, 2008

James N. Carro, REA I-03698 — Date

# X. NOTIFICATION LETTERS

Date: _____

US EPA Region 9
PRC-RCRA Notification Section
75 Hawthorne Street
WST-6 Tetra Tech
San Francisco, CA 94105

Subject: Closure of Western Forge & Flange Co. - Albany

We hereby notify your agency that Western Forge & Flange Co. - Albany is ceasing operations at their current location effective October 1, 2007.

Their current location is:

Western Forge & Flange Co. - Albany
540 Cleveland Avenue
Albany, CA 94706

Their EPA Identification Number is CAD 981 371 396.

Their State Board of Equalization Account Number is HAHQ 36-011944.

Please advise them of any additional forms or notification that need to be submitted.

Please return the enclosed letter as proof of receipt of this letter.

Sincerely,

Walter Pierce, President
Western Forge & Flange Co.

Date: _____

Walter Pierce
Western Forge & Flange Co.
687 County Road 2201
Cleveland, TX 77327

Dear Walter Pierce:

We are sending you this letter to verify that we have received your letter dated _____ regarding the closure of:

Western Forge & Flange Co. - Albany
540 Cleveland Avenue
Albany, CA 94706

Sincerely,

Stamp or Name

US EPA Region 9
PRC-RCRA Notification Section
75 Hawthorne Street
WST-6 Tetra Tech
San Francisco, CA 94105

Date: _____

Cal EPA Headquarters
Department of Toxic Substances Control
P.O. Box 806
Sacramento, CA 95812-0806

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Western Forge & Flange Co.

Date: _____

Walter Pierce
Western Forge & Flange Co.
687 County Road 2201
Cleveland, TX 77327

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Western Forge & Flange Co. - Albany
540 Cleveland Avenue
Albany, CA 94706

Sincerely,

Stamp or Name

Cal EPA Headquarters
Department of Toxic Substances Control
P.O. Box 806
Sacramento, CA 95812-0806

Date: _____

Region 2

Department of Toxic Substances Control

Site Mitigation Branch

2151 Berkeley Way, Anx 9

Berkeley, CA 94704

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Western Forge & Flange Co.
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Cleveland, TX 77327

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Western Forge & Flange Co. - Albany
540 Cleveland Avenue
Albany, CA 94706

Sincerely,

Stamp or Name

Region 2

Department of Toxic Substances Control

Site Mitigation Branch

2151 Berkeley Way, Anx 9

Berkeley, CA 94704

Date: _____

State Board of Equalization
Excise Tax Division
P.O. Box 942879
Sacramento, CA 94279-0001
MIC 57

Subject: Closure of Western Forge & Flange Co. - Albany

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Walter Pierce, President
Western Forge & Flange Co.

Date: _____

Walter Pierce
Western Forge & Flange Co.
687 County Road 2201
Cleveland, TX 77327

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Western Forge & Flange Co. - Albany
540 Cleveland Avenue
Albany, CA 94706

Sincerely,

Stamp or Name

State Board of Equalization
Excise Tax Division
P.O. Box 942879
Sacramento, CA 94279-0001
MIC 57

Date: _____

East Bay Municipal Utilities District
P.O. Box 24055
Oakland, CA 94623

Subject: Closure of Western Forge & Flange Co. - Albany

We hereby notify your agency that Western Forge & Flange Co. - Albany is ceasing operations at their current location effective October 1, 2007.

Their current location is:

Western Forge & Flange Co. - Albany
540 Cleveland Avenue
Albany, CA 94706

Their EPA Identification Number is CAD 981 371 396.

Their State Board of Equalization Account Number is HAHQ 36-011944.

Please advise them of any additional forms or notification that need to be submitted.

Please return the enclosed letter as proof of receipt of this letter.

Sincerely,

Walter Pierce, President
Western Forge & Flange Co.

Date: _____

Walter Pierce
Western Forge & Flange Co.
687 County Road 2201
Cleveland, TX 77327

Dear Walter Pierce:

We are sending you this letter to verify that we have received your letter dated _____ regarding the closure of:

Western Forge & Flange Co. - Albany
540 Cleveland Avenue
Albany, CA 94706

Sincerely,

Stamp or Name

East Bay Municipal Utilities District
P.O. Box 24055
Oakland, CA 94623

Date: _____

Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Room 250
Alameda, CA 94502

Subject: Closure of Western Forge & Flange Co. - Albany

We hereby notify your agency that Western Forge & Flange Co. - Albany is ceasing operations at their current location effective October 1, 2007.

Their current location is:

Western Forge & Flange Co. - Albany
540 Cleveland Avenue
Albany, CA 94706

Their EPA Identification Number is CAD 981 370 396.

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Please advise them of any additional forms or notification that need to be submitted.

Please return the enclosed letter as proof of receipt of this letter.

Sincerely,

Walter Pierce, President
Western Forge & Flange Co.

Date: _____

Walter Pierce
Western Forge & Flange Co.
687 County Road 2201
Cleveland, TX 77327

Dear Walter Pierce:

We are sending you this letter to verify that we have received your letter dated _____ regarding the closure of:

Western Forge & Flange Co. - Albany
540 Cleveland Avenue
Albany, CA 94706

Sincerely,

Stamp or Name

Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Room 250
Alameda, CA 94502

# Appendix

I. Facility and Hazardous Material Storage Drawing & Sampling Areas

II. Hazardous Material Inventory

III. Proposed Sampling Drawing

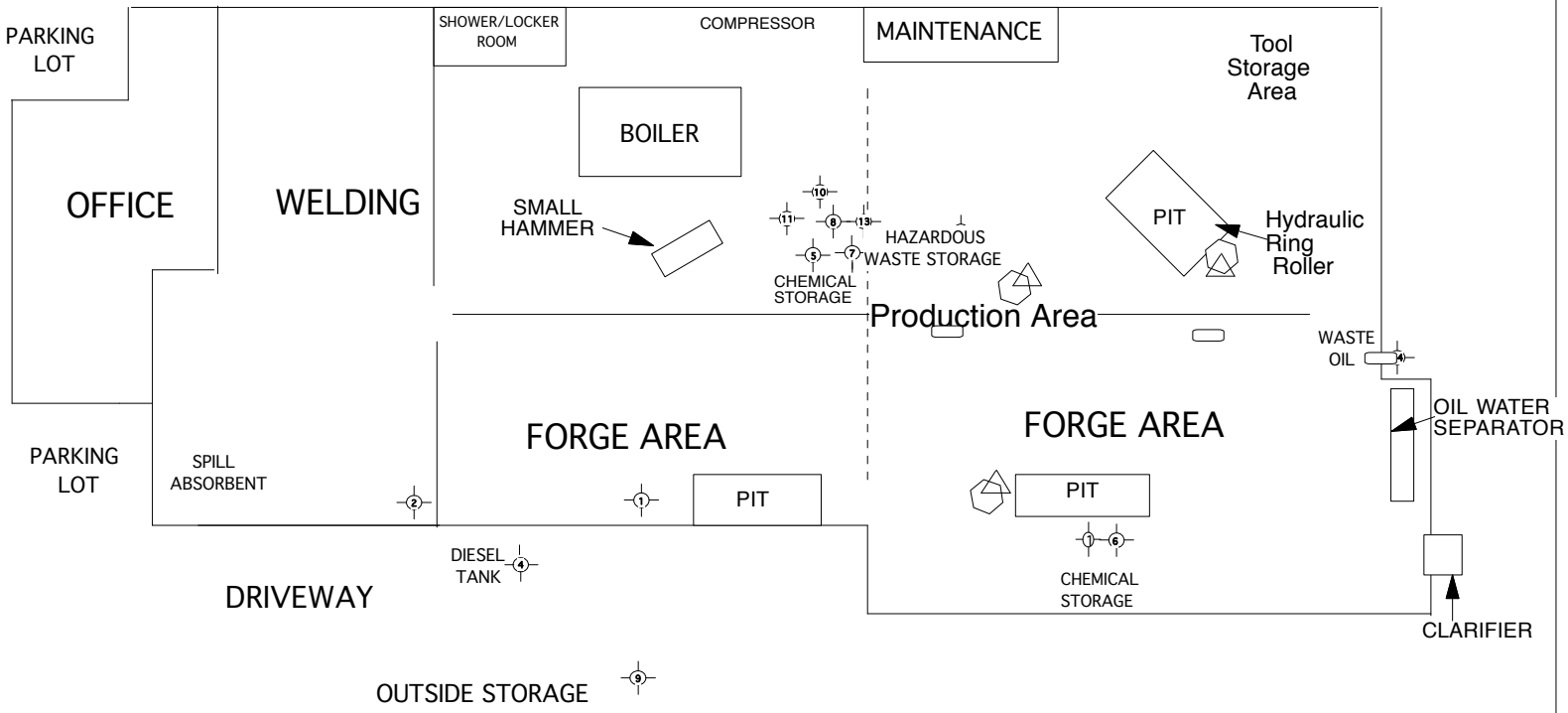
IV. Disposition of Materials and Equipment

V. Closure Notification Form

VI. Wipe Sampling Protocol

VII. Protocol for Soil Boring Investigations and Groundwater Sampling

# I. Facility and Hazardous Material Storage Drawing




WESTERN FORGE & FLANGE
540 CLEVELAND AVENUE
ALBANY, CA

| DRAWING BY: JNG | REV. BY: JNC | MASTER LAYOUT |
|---|---|---|
| DATE: 02/06/98 | DATE: 12/3/08 | |

CHEMICAL DATA MANAGEMENT SYSTEMS
6515 TRINITY COURT, STE. 201 DUBLIN, CA 94568 (925) 551-7300

# II. Hazardous Material Inventory

Please refer to the following pages.

**CONTRA COSTA HEALTH SERVICES - HAZARDOUS MATERIALS PROGRAMS**

**UNIFIED PROGRAM CONSOLIDATED FORM**

**BUSINESS PLAN 2007**

# HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(One page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200



## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)
Western Forge & Flange Co.

CHEMICAL LOCATION 201
Forge Area

CHEMICAL LOCATION CONFIDENTIAL EPCRA ☐ Yes ☒ No 20

FACILITY ID# 0 7 0 0 0 7 7 1 3 3 6 1

MAP # *(optional)* 203
Master Layout

GRID # *(optional)* 20
O25

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Canola Frying Shortening

TRADE SECRET ☐ Yes ☒ No 20
If subject to EPCRA, refer to instructions

COMMON NAME 207
Canola Frying Shortening

Regulated Substance? ☐ Yes ☐ No 20

CAS # 209
Mixture

*If Regulated Substance is "Yes", all amounts below mu be in lbs.

FIRE CODE HAZARD CLASSES: include physical & health characteristics (See appendix 6 of CUPA packet) 21
CLASS III-A combustible liquid

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☒ No 212

CURIES 21
NA

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 21
55

FED HAZARD CATEGORIES (Check all that apply) ☒ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☐ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 21

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 22 |
|---|---|---|---|
| 110 | 165 | NA | NA |

UNITS* (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS 221
*If EHS amount must be in pounds.

DAYS ON SITE 22
365

STORAGE CONTAINER 22

☐ a. ABOVEGROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☒ d. STEEL DRUM ☐ e. PLASTIC/NONMETALLIC DRUM ☐ f. CAN ☐ g. CARBOY ☐ h. SILO ☐ i. FIBER DRUM ☐ j. BAG ☐ k. BOX ☐ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOTE BIN ☐ p. TANK WAGON ☐ q. RAIL CAR ☐ r. OTHER _____

STORAGE PRESSURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 22

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 22

| | %WT | HAZARDOUS COMPONENT (For mixture or waste only) | Regulated Substance | CAS # |
|---|---|---|---|---|
| 1 | 226 100 | 227 Vegetable Fat | 228 ☐ Yes ☒ No | 22 NA |
| 2 | 230 | 231 | 232 ☐ Yes ☐ No | 23 |
| 3 | 234 | 235 | 236 ☐ Yes ☐ No | 23 |
| 4 | 238 | 239 | 240 ☐ Yes ☐ No | 24 |
| 5 | 242 | 243 | 244 ☐ Yes ☐ No | 24 |

**If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.**

ADDITIONAL LOCALLY COLLECTED INFORMATION: 24

**Maximum Daily Amount in pounds: _____ Lbs.**

**CONTRA COSTA HEALTH SERVICES - HAZARDOUS MATERIALS PROGRAMS**

**UNIFIED PROGRAM CONSOLIDATED FORM**

**BUSINESS PLAN 2007**

# HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(One page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200



## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)
Western Forge & Flange Co.

CHEMICAL LOCATION 201
Forklifts, Driveway

CHEMICAL LOCATION CONFIDENTIAL EPCRA ☐ Yes ☒ No 20

FACILITY ID# 0 7 0 0 0 7 7 1 3 3 6 1

MAP # *(optional)* 203
Master Layout

GRID # *(optional)* 20
P9

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Propane

TRADE SECRET ☐ Yes ☒ No 20
If subject to EPCRA, refer to instructions

COMMON NAME 207
Propane

Regulated Substance? ☐ Yes ☐ No 20

CAS # 209
74-98-6

*If Regulated Substance is "Yes", all amounts below mu be in lbs.

FIRE CODE HAZARD CLASSES: include physical & health characteristics (See appendix 6 of CUPA packet) 21
Flammable gas

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☒ No 212

CURIES 21
NA

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 21
7.5

FED HAZARD CATEGORIES (Check all that apply) ☒ a. FIRE ☐ b. REACTIVE ☒ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 21

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 22 |
|---|---|---|---|
| 50 | 75 | NA | NA |

UNITS* (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS 221
*If EHS amount must be in pounds.

DAYS ON SITE 22
365

STORAGE CONTAINER 22

☐ a. ABOVEGROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM ☐ e. PLASTIC/NONMETALLIC DRUM ☐ f. CAN ☐ g. CARBOY ☐ h. SILO ☐ i. FIBER DRUM ☐ j. BAG ☐ k. BOX ☒ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOTE BIN ☐ p. TANK WAGON ☐ q. RAIL CAR ☐ r. OTHER _____

STORAGE PRESSURE ☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 22

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 22

| | %WT | HAZARDOUS COMPONENT (For mixture or waste only) | Regulated Substance | CAS # |
|---|---|---|---|---|
| 1 | 226 92 | 227 Propane | 228 ☐ Yes ☒ No | 22 74-98-6 |
| 2 | 230 5 | 231 Propylene Or Propene Or 1-propene | 232 ☐ Yes ☒ No | 23 115-07-1 |
| 3 | 234 3 | 235 Butane | 236 ☐ Yes ☒ No | 23 106-97-8 |
| 4 | 238 | 239 | 240 ☐ Yes ☐ No | 24 |
| 5 | 242 | 243 | 244 ☐ Yes ☐ No | 24 |

**If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.**

ADDITIONAL LOCALLY COLLECTED INFORMATION: 24

**Maximum Daily Amount in pounds: _____ Lbs.**

**CONTRA COSTA HEALTH SERVICES - HAZARDOUS MATERIALS PROGRAMS**

**UNIFIED PROGRAM CONSOLIDATED FORM**

**BUSINESS PLAN 2007**

# HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(One page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200



## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)
Western Forge & Flange Co.

CHEMICAL LOCATION 201
Welding

CHEMICAL LOCATION CONFIDENTIAL EPCRA ☐ Yes ☒ No 20

FACILITY ID# 0 7 0 0 0 7 7 1 3 3 6 1

MAP # *(optional)* 203
Master Layout

GRID # *(optional)* 20
H9

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Oxygen

TRADE SECRET ☐ Yes ☒ No 20
If subject to EPCRA, refer to instructions

COMMON NAME 207
Oxygen

Regulated Substance? ☐ Yes ☒ No 20

CAS # 209
7782-44-7

*If Regulated Substance is "Yes", all amounts below mu be in lbs.

FIRE CODE HAZARD CLASSES: include physical & health characteristics (See appendix 6 of CUPA packet) 21
Oxidizer Nonflammable Gas

HAZARDOUS MATERIAL TYPE (Check one item only) ☒ a. PURE ☐ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☒ No 212

CURIES 21
NA

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☐ b. LIQUID ☒ c. GAS 214

LARGEST CONTAINER 21
282

FED HAZARD CATEGORIES (Check all that apply) ☒ a. FIRE ☐ b. REACTIVE ☒ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 21

| AVERAGE DAILY AMOUNT | MAXIMUM DAILY AMOUNT | ANNUAL WASTE AMOUNT | STATE WASTE CODE |
|---|---|---|---|
| 217 423 | 218 846 | 219 NA | 22 NA |

UNITS* (Check one item only) ☐ a. GALLONS ☒ b. CUBIC FEET ☐ c. POUNDS 221
*If EHS amount must be in pounds.

DAYS ON SITE 22
365

STORAGE CONTAINER 22

☐ a. ABOVEGROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM ☐ e. PLASTIC/NONMETALLIC DRUM ☐ f. CAN ☐ g. CARBOY ☐ h. SILO ☐ i. FIBER DRUM ☐ j. BAG ☐ k. BOX ☒ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOTE BIN ☐ p. TANK WAGON ☐ q. RAIL CAR ☐ r. OTHER _____

STORAGE PRESSURE ☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 22

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 22

| | %WT | HAZARDOUS COMPONENT (For mixture or waste only) | Regulated Substance | CAS # |
|---|---|---|---|---|
| 1 | 226 100 | 227 Oxygen | 228 ☐ Yes ☒ No | 22 7782-44-7 |
| 2 | 230 | 231 | 232 ☐ Yes ☐ No | 23 |
| 3 | 234 | 235 | 236 ☐ Yes ☐ No | 23 |
| 4 | 238 | 239 | 240 ☐ Yes ☐ No | 24 |
| 5 | 242 | 243 | 244 ☐ Yes ☐ No | 24 |

**If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.**

ADDITIONAL LOCALLY COLLECTED INFORMATION: 24

**Maximum Daily Amount in pounds: _____ Lbs.**

**CONTRA COSTA HEALTH SERVICES - HAZARDOUS MATERIALS PROGRAMS**

**UNIFIED PROGRAM CONSOLIDATED FORM**

**BUSINESS PLAN 2007**

# HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(One page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200



## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)
Western Forge & Flange Co.

CHEMICAL LOCATION 201
Outside Storage

CHEMICAL LOCATION CONFIDENTIAL EPCRA ☐ Yes ☒ No 20

FACILITY ID# 0 7 0 0 0 7 7 1 3 3 6 1

MAP # *(optional)* 203
Master Layout

GRID # *(optional)* 20
Q13

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Diesel Fuel #2

TRADE SECRET ☐ Yes ☒ No 20
If subject to EPCRA, refer to instructions

COMMON NAME 207
Chevron LS Diesel 2

Regulated Substance? ☐ Yes ☐ No 20

CAS # 209
68476-34-6

*If Regulated Substance is "Yes", all amounts below mu be in lbs.

FIRE CODE HAZARD CLASSES: include physical & health characteristics (See appendix 6 of CUPA packet) 21
CLASS II combustible liquid Irritant liquid

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☒ No 212

CURIES 21
NA

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 21
1000

FED HAZARD CATEGORIES (Check all that apply) ☒ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☒ e. CHRONIC HEALTH 21

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 22 |
|---|---|---|---|
| 600 | 900 | NA | NA |

UNITS* (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS 221
*If EHS amount must be in pounds.

DAYS ON SITE 22
365

STORAGE CONTAINER 22

☒ a. ABOVEGROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM ☐ e. PLASTIC/NONMETALLIC DRUM ☐ f. CAN ☐ g. CARBOY ☐ h. SILO ☐ i. FIBER DRUM ☐ j. BAG ☐ k. BOX ☐ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOTE BIN ☐ p. TANK WAGON ☐ q. RAIL CAR ☐ r. OTHER _____

STORAGE PRESSURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 22

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 22

| | %WT | HAZARDOUS COMPONENT (For mixture or waste only) | Regulated Substance | CAS # |
|---|---|---|---|---|
| 1 | 226 NS | 227 Hds Distillate, Middle | 228 ☐ Yes ☒ No | 22 64742-80-9 |
| 2 | 230 NS | 231 Gas Oil, Light | 232 ☐ Yes ☒ No | 23 64741-44-2 |
| 3 | 234 NS | 235 Kerosene | 236 ☐ Yes ☒ No | 23 8008-20-6 |
| 4 | 238 NS | 239 Hydrodesulfurized Kerosine | 240 ☐ Yes ☒ No | 24 64742-81-0 |
| 5 | 242 NS | 243 Cat Cracked Distillate, Light | 244 ☐ Yes ☒ No | 24 64741-59-9 |

**If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.**

ADDITIONAL LOCALLY COLLECTED INFORMATION: 24

**Maximum Daily Amount in pounds: _____ Lbs.**

**CONTRA COSTA HEALTH SERVICES - HAZARDOUS MATERIALS PROGRAMS**

**UNIFIED PROGRAM CONSOLIDATED FORM**

**BUSINESS PLAN 2007**

# HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(One page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200

Page 5 of 15

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)
Western Forge & Flange Co.

CHEMICAL LOCATION 201
Hydraulic/ Ring Roller Area

CHEMICAL LOCATION CONFIDENTIAL EPCRA ☐ Yes ☒ No 20

FACILITY ID# 0 7 0 0 0 7 7 1 3 3 6 1

MAP # *(optional)* 203
Master Layout

GRID # *(optional)* 20
I21

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Chevron Iso 32 Hydraulic Oil

TRADE SECRET ☐ Yes ☒ No 20
If subject to EPCRA, refer to instructions

COMMON NAME 207
Chevron ISO 32 Hydraulic Oil

Regulated Substance? ☐ Yes ☐ No 20

CAS # 209
Mixture

*If Regulated Substance is "Yes", all amounts below mu be in lbs.

FIRE CODE HAZARD CLASSES: include physical & health characteristics (See appendix 6 of CUPA packet) 21
CLASS III-B combustible liquid Irritant liquid

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☒ No 212

CURIES 21
NA

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 21
55

FED HAZARD CATEGORIES (Check all that apply) ☒ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 21

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 22 |
|---|---|---|---|
| 110 | 165 | NA | NA |

UNITS* (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS 221
*If EHS amount must be in pounds.

DAYS ON SITE 22
365

STORAGE CONTAINER 22

☐ a. ABOVEGROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☒ d. STEEL DRUM ☐ e. PLASTIC/NONMETALLIC DRUM ☐ f. CAN ☐ g. CARBOY ☐ h. SILO ☐ i. FIBER DRUM ☐ j. BAG ☐ k. BOX ☐ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOTE BIN ☐ p. TANK WAGON ☐ q. RAIL CAR ☐ r. OTHER _____

STORAGE PRESSURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 22

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 22

| | %WT | HAZARDOUS COMPONENT (For mixture or waste only) | Regulated Substance | CAS # |
|---|---|---|---|---|
| 1 | 226 99 | 227 Base Oil | 228 ☐ Yes ☒ No | 22 64741884 |
| 2 | 230 <1 | 231 Additives | 232 ☐ Yes ☒ No | 23 NA |
| 3 | 234 | 235 | 236 ☐ Yes ☐ No | 23 |
| 4 | 238 | 239 | 240 ☐ Yes ☐ No | 24 |
| 5 | 242 | 243 | 244 ☐ Yes ☐ No | 24 |

**If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.**

ADDITIONAL LOCALLY COLLECTED INFORMATION: 24

**Maximum Daily Amount in pounds: _____ Lbs.**

**CONTRA COSTA HEALTH SERVICES - HAZARDOUS MATERIALS PROGRAMS**

**UNIFIED PROGRAM CONSOLIDATED FORM**

**BUSINESS PLAN 2007**

# HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(One page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200



## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)
Western Forge & Flange Co.

CHEMICAL LOCATION 201
Forge Area

CHEMICAL LOCATION CONFIDENTIAL EPCRA ☐ Yes ☒ No 20

FACILITY ID# 0 7 0 0 0 7 7 1 3 3 6 1

MAP # *(optional)* 203
Master Layout

GRID # *(optional)* 20
O25

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Chevron Iso 460 Cylinder Oil

TRADE SECRET ☐ Yes ☒ No 20
If subject to EPCRA, refer to instructions

COMMON NAME 207
Chevron ISO 460 Cylinder Oil W

Regulated Substance? ☐ Yes ☐ No 20

CAS # 209
Mixture

*If Regulated Substance is "Yes", all amounts below mu be in lbs.

FIRE CODE HAZARD CLASSES: include physical & health characteristics (See appendix 6 of CUPA packet) 21
CLASS III-A combustible liquid Irritant liquid

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☒ No 212

CURIES 21
NA

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 21
55

FED HAZARD CATEGORIES (Check all that apply) ☒ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 21

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 22 |
|---|---|---|---|
| 30 | 55 | NA | NA |

UNITS* (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS 221
*If EHS amount must be in pounds.

DAYS ON SITE 22
365

STORAGE CONTAINER 22

☐ a. ABOVEGROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☒ d. STEEL DRUM ☐ e. PLASTIC/NONMETALLIC DRUM ☐ f. CAN ☐ g. CARBOY ☐ h. SILO ☐ i. FIBER DRUM ☐ j. BAG ☐ k. BOX ☐ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOTE BIN ☐ p. TANK WAGON ☐ q. RAIL CAR ☐ r. OTHER _____

STORAGE PRESSURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 22

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 22

| | %WT | HAZARDOUS COMPONENT (For mixture or waste only) | Regulated Substance | CAS # |
|---|---|---|---|---|
| 1 | 226 >90 | 227 Lubricating Base Oil | 228 ☐ Yes ☒ No | 22 64741884 |
| 2 | 230 <10 | 231 Deasphalted Residum | 232 ☐ Yes ☒ No | 23 NA |
| 3 | 234 | 235 | 236 ☐ Yes ☐ No | 23 |
| 4 | 238 | 239 | 240 ☐ Yes ☐ No | 24 |
| 5 | 242 | 243 | 244 ☐ Yes ☐ No | 24 |

**If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.**

ADDITIONAL LOCALLY COLLECTED INFORMATION: 24

**Maximum Daily Amount in pounds: _____ Lbs.**

**CONTRA COSTA HEALTH SERVICES - HAZARDOUS MATERIALS PROGRAMS**

**UNIFIED PROGRAM CONSOLIDATED FORM**

**BUSINESS PLAN 2007**

# HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(One page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200

Page 7 of 15

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)
Western Forge & Flange Co.

CHEMICAL LOCATION 201
Hydraulic Ring Roller Area

CHEMICAL LOCATION CONFIDENTIAL EPCRA ☐ Yes ☒ No 20

FACILITY ID# 0 7 0 0 0 7 7 1 3 3 6 1

MAP # *(optional)* 203
Master Layout

GRID # *(optional)* 20
I21

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Chevron Universal Gear Oil 80/90 Weight

TRADE SECRET ☐ Yes ☒ No 20
If subject to EPCRA, refer to instructions

COMMON NAME 207
Chevron Universal Gear Oil 80/90 Weight

Regulated Substance? ☐ Yes ☐ No 20

CAS # 209
Mixture

*If Regulated Substance is "Yes", all amounts below mu be in lbs.

FIRE CODE HAZARD CLASSES: include physical & health characteristics (See appendix 6 of CUPA packet) 21
CLASS III-B combustible liquid Irritant liquid

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☒ No 212

CURIES 21
NA

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 21
55

FED HAZARD CATEGORIES (Check all that apply) ☒ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 21

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 22 |
|---|---|---|---|
| 110 | 165 | NA | NA |

UNITS* (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS 221
*If EHS amount must be in pounds.

DAYS ON SITE 22
365

STORAGE CONTAINER 22

☐ a. ABOVEGROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☒ d. STEEL DRUM ☐ e. PLASTIC/NONMETALLIC DRUM ☐ f. CAN ☐ g. CARBOY ☐ h. SILO ☐ i. FIBER DRUM ☐ j. BAG ☐ k. BOX ☐ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOTE BIN ☐ p. TANK WAGON ☐ q. RAIL CAR ☐ r. OTHER _____

STORAGE PRESSURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 22

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 22

| | %WT | HAZARDOUS COMPONENT (For mixture or waste only) | Regulated Substance | CAS # |
|---|---|---|---|---|
| 1 | 226 >90 | 227 Lubricating Base Oil | 228 ☐ Yes ☒ No | 22 64741-88-4 |
| 2 | 230 <10 | 231 Additives | 232 ☐ Yes ☒ No | 23 NA |
| 3 | 234 | 235 | 236 ☐ Yes ☐ No | 23 |
| 4 | 238 | 239 | 240 ☐ Yes ☐ No | 24 |
| 5 | 242 | 243 | 244 ☐ Yes ☐ No | 24 |

**If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.**

ADDITIONAL LOCALLY COLLECTED INFORMATION: 24

**Maximum Daily Amount in pounds: _____ Lbs.**

**CONTRA COSTA HEALTH SERVICES - HAZARDOUS MATERIALS PROGRAMS**

**UNIFIED PROGRAM CONSOLIDATED FORM**

**BUSINESS PLAN 2007**

# HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(One page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200



## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)
Western Forge & Flange Co.

CHEMICAL LOCATION 201
Storage Area

CHEMICAL LOCATION CONFIDENTIAL EPCRA ☐ Yes ☒ No 20

FACILITY ID# 0 7 0 0 0 7 7 1 3 3 6 1

MAP # *(optional)* 203
Master Layout

GRID # *(optional)* 20
H17

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Chevron Soluble Oil B

TRADE SECRET ☐ Yes ☒ No 20
If subject to EPCRA, refer to instructions

COMMON NAME 207
Chevron Soluble Oil B

Regulated Substance? ☐ Yes ☐ No 20

CAS # 209
Mixture

*If Regulated Substance is "Yes", all amounts below mu be in lbs.

FIRE CODE HAZARD CLASSES: include physical & health characteristics (See appendix 6 of CUPA packet) 21
CLASS III-B combustible liquid Irritant

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☒ No 212

CURIES 21
NA

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 21
55

FED HAZARD CATEGORIES (Check all that apply) 21
☒ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 22 |
|---|---|---|---|
| 30 | 55 | NA | NA |

UNITS* (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS 221
*If EHS amount must be in pounds.

DAYS ON SITE 22
365

STORAGE CONTAINER 22

☐ a. ABOVEGROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☒ d. STEEL DRUM ☐ e. PLASTIC/NONMETALLIC DRUM ☐ f. CAN ☐ g. CARBOY ☐ h. SILO ☐ i. FIBER DRUM ☐ j. BAG ☐ k. BOX ☐ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOTE BIN ☐ p. TANK WAGON ☐ q. RAIL CAR ☐ r. OTHER _____

STORAGE PRESSURE 22
☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE 22
☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

| | %WT | HAZARDOUS COMPONENT (For mixture or waste only) | Regulated Substance | CAS # |
|---|---|---|---|---|
| 1 | 226 >75 | 227 Lubricating Base Oil | 228 ☐ Yes ☒ No | 22 64742-52-5 |
| 2 | 230 <25 | 231 Additives | 232 ☐ Yes ☒ No | 23 NA |
| 3 | 234 <2 | 235 2-butoxyethanol Or Ethylene Glycol Monobutyl Ether | 236 ☐ Yes ☒ No | 23 111-76-2 |
| 4 | 238 | 239 Hexylene Glycol | 240 ☐ Yes ☒ No | 24 107-41-5 |
| 5 | 242 | 243 | 244 ☐ Yes ☐ No | 24 |

**If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.**

ADDITIONAL LOCALLY COLLECTED INFORMATION: 24

**Maximum Daily Amount in pounds: _____ Lbs.**

**CONTRA COSTA HEALTH SERVICES - HAZARDOUS MATERIALS PROGRAMS**

**UNIFIED PROGRAM CONSOLIDATED FORM**

**BUSINESS PLAN 2007**

# HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(One page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200

Page 9 of 15

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)
Western Forge & Flange Co.

CHEMICAL LOCATION 201
Welding

CHEMICAL LOCATION CONFIDENTIAL EPCRA ☐ Yes ☒ No 20

FACILITY ID# 0 7 0 0 0 7 7 1 3 3 6 1

MAP # *(optional)* 203
Master Layout

GRID # *(optional)* 20
H9

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Carbon Dioxide- Argon Mixture

TRADE SECRET ☐ Yes ☒ No 20
If subject to EPCRA, refer to instructions

COMMON NAME 207
Carbon Dioxide/ Argon

Regulated Substance? ☐ Yes ☐ No 20

CAS # 209
Mixture

*If Regulated Substance is "Yes", all amounts below mu be in lbs.

FIRE CODE HAZARD CLASSES: include physical & health characteristics (See appendix 6 of CUPA packet) 21
Nonflammable Commpressed gas

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☒ No 212

CURIES 21
NA

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☐ b. LIQUID ☒ c. GAS 214

LARGEST CONTAINER 21
380

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☒ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 21

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 22 |
|---|---|---|---|
| 250 | 380 | NA | NA |

UNITS* (Check one item only) ☐ a. GALLONS ☒ b. CUBIC FEET ☐ c. POUNDS 221
*If EHS amount must be in pounds.

DAYS ON SITE 22
365

STORAGE CONTAINER 22

☐ a. ABOVEGROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM ☐ e. PLASTIC/NONMETALLIC DRUM ☐ f. CAN ☐ g. CARBOY ☐ h. SILO ☐ i. FIBER DRUM ☐ j. BAG ☐ k. BOX ☒ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOTE BIN ☐ p. TANK WAGON ☐ q. RAIL CAR ☐ r. OTHER _____

STORAGE PRESSURE ☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 22

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 22

| | %WT | HAZARDOUS COMPONENT (For mixture or waste only) | Regulated Substance | CAS # |
|---|---|---|---|---|
| 1 | 226 75 | 227 Argon | 228 ☐ Yes ☒ No | 22 7440-37-1 |
| 2 | 230 25 | 231 Carbon Dioxide | 232 ☐ Yes ☒ No | 23 124-38-9 |
| 3 | 234 | 235 | 236 ☐ Yes ☐ No | 23 |
| 4 | 238 | 239 | 240 ☐ Yes ☐ No | 24 |
| 5 | 242 | 243 | 244 ☐ Yes ☐ No | 24 |

**If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.**

ADDITIONAL LOCALLY COLLECTED INFORMATION: 24

**Maximum Daily Amount in pounds: _____ Lbs.**

**CONTRA COSTA HEALTH SERVICES - HAZARDOUS MATERIALS PROGRAMS**

**UNIFIED PROGRAM CONSOLIDATED FORM**

**BUSINESS PLAN 2007**

# HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(One page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200



## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)
Western Forge & Flange Co.

CHEMICAL LOCATION 201
Storage Area

CHEMICAL LOCATION CONFIDENTIAL EPCRA ☐ Yes ☒ No 20

FACILITY ID# 0 7 0 0 0 7 7 1 3 3 6 1

MAP # *(optional)* 203
Master Layout

GRID # *(optional)* 20
H17

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Chevron Quenching Oil 70

TRADE SECRET ☐ Yes ☒ No 20
If subject to EPCRA, refer to instructions

COMMON NAME 207
Chevron Quenching Oil 70

Regulated Substance? ☐ Yes ☐ No 20

CAS # 209
Mixture

*If Regulated Substance is "Yes", all amounts below mu be in lbs.

FIRE CODE HAZARD CLASSES: include physical & health characteristics (See appendix 6 of CUPA packet) 21
CLASS III-B combustible liquid Irritant

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☒ No 212

CURIES 21
NA

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 21
55

FED HAZARD CATEGORIES (Check all that apply) ☒ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 21

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 22 |
|---|---|---|---|
| 30 | 55 | NA | NA |

UNITS* (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS 221
*If EHS amount must be in pounds.

DAYS ON SITE 22
365

STORAGE CONTAINER 22

☐ a. ABOVEGROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☒ d. STEEL DRUM ☐ e. PLASTIC/NONMETALLIC DRUM ☐ f. CAN ☐ g. CARBOY ☐ h. SILO ☐ i. FIBER DRUM ☐ j. BAG ☐ k. BOX ☐ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOTE BIN ☐ p. TANK WAGON ☐ q. RAIL CAR ☐ r. OTHER _____

STORAGE PRESSURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 22

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 22

| | %WT | HAZARDOUS COMPONENT (For mixture or waste only) | Regulated Substance | CAS # |
|---|---|---|---|---|
| 1 | 226 >95 | 227 Lubricating Base Oil | 228 ☐ Yes ☒ No | 22 64742-55-8 |
| 2 | 230 | 231 | 232 ☐ Yes ☐ No | 23 |
| 3 | 234 | 235 | 236 ☐ Yes ☐ No | 23 |
| 4 | 238 | 239 | 240 ☐ Yes ☐ No | 24 |
| 5 | 242 | 243 | 244 ☐ Yes ☐ No | 24 |

**If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.**

ADDITIONAL LOCALLY COLLECTED INFORMATION: 24

**Maximum Daily Amount in pounds: _____ Lbs.**

**CONTRA COSTA HEALTH SERVICES - HAZARDOUS MATERIALS PROGRAMS**

**UNIFIED PROGRAM CONSOLIDATED FORM**

**BUSINESS PLAN 2007**

# HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(One page per material per building or area)

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## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)
Western Forge & Flange Co.

CHEMICAL LOCATION 201
Storage Area

CHEMICAL LOCATION CONFIDENTIAL EPCRA ☐ Yes ☒ No 20

FACILITY ID# 0 7 0 0 0 7 7 1 3 3 6 1

MAP # *(optional)* 203
Master Layout

GRID # *(optional)* 20
H17

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Chevron Black Pearl Grease

TRADE SECRET ☐ Yes ☒ No 20
If subject to EPCRA, refer to instructions

COMMON NAME 207
Chevron Black Pearl Grease (Bearing grease)

Regulated Substance? ☐ Yes ☐ No 20

CAS # 209
Mixture

*If Regulated Substance is "Yes", all amounts below mu be in lbs.

FIRE CODE HAZARD CLASSES: include physical & health characteristics (See appendix 6 of CUPA packet) 21
Irritant

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☒ No 212

CURIES 21
NA

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 21
5

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 21

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 22 |
|---|---|---|---|
| 3 | 5 | NA | NA |

UNITS* (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS 221
*If EHS amount must be in pounds.

DAYS ON SITE 22
365

STORAGE CONTAINER 22

☐ a. ABOVEGROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM ☐ e. PLASTIC/NONMETALLIC DRUM ☒ f. CAN ☐ g. CARBOY ☐ h. SILO ☐ i. FIBER DRUM ☐ j. BAG ☐ k. BOX ☐ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOTE BIN ☐ p. TANK WAGON ☐ q. RAIL CAR ☐ r. OTHER _____

STORAGE PRESSURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 22

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 22

| | %WT | HAZARDOUS COMPONENT (For mixture or waste only) | Regulated Substance | CAS # |
|---|---|---|---|---|
| 1 | 226 >75 | 227 Lubricating Base Oil | 228 ☐ Yes ☒ No | 22 NA |
| 2 | 230 <25 | 231 Additives | 232 ☐ Yes ☒ No | 23 NA |
| 3 | 234 1 | 235 Calcium Hydroxide | 236 ☐ Yes ☒ No | 23 1305-62-0 |
| 4 | 238 .2 | 239 Trimethyldihydroquinoline Polymer | 240 ☐ Yes ☒ No | 24 NA |
| 5 | 242 | 243 | 244 ☐ Yes ☐ No | 24 |

**If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.**

ADDITIONAL LOCALLY COLLECTED INFORMATION: 24

**Maximum Daily Amount in pounds: _____ Lbs.**

**CONTRA COSTA HEALTH SERVICES - HAZARDOUS MATERIALS PROGRAMS**

**UNIFIED PROGRAM CONSOLIDATED FORM**

**BUSINESS PLAN 2007**

# HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(One page per material per building or area)

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## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)
Western Forge & Flange Co.

CHEMICAL LOCATION 201
Boiler Area

CHEMICAL LOCATION CONFIDENTIAL EPCRA ☐ Yes ☒ No 20

FACILITY ID# 0 7 0 0 0 7 7 1 3 3 6 1

MAP # *(optional)* 203
Master Layout

GRID # *(optional)* 20
F17

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Boiler Treat 6000

TRADE SECRET ☐ Yes ☒ No 20
If subject to EPCRA, refer to instructions

COMMON NAME 207
Boiler Treat 6000

Regulated Substance? ☐ Yes ☐ No 20

CAS # 209
Mixture

*If Regulated Substance is "Yes", all amounts below mu be in lbs.

FIRE CODE HAZARD CLASSES: include physical & health characteristics (See appendix 6 of CUPA packet) 21
Corrosives

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☒ No 212

CURIES 21
NA

PHYSICAL STATE (Check one item only) ☒ a. SOLID ☐ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 21
300

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☒ e. CHRONIC HEALTH 21

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 22 |
|---|---|---|---|
| 200 | 300 | NA | NA |

UNITS* (Check one item only) ☐ a. GALLONS ☐ b. CUBIC FEET ☒ c. POUNDS 221
*If EHS amount must be in pounds.

DAYS ON SITE 22
365

STORAGE CONTAINER 22

☐ a. ABOVEGROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM ☐ e. PLASTIC/NONMETALLIC DRUM ☐ f. CAN ☐ g. CARBOY ☐ h. SILO ☒ i. FIBER DRUM ☐ j. BAG ☐ k. BOX ☐ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOTE BIN ☐ p. TANK WAGON ☐ q. RAIL CAR ☐ r. OTHER _____

STORAGE PRESSURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 22

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 22

| | %WT | HAZARDOUS COMPONENT (For mixture or waste only) | Regulated Substance | CAS # |
|---|---|---|---|---|
| 1 | 226 NA | 227 Sodium Hydroxide Or Caustic Soda | 228 ☐ Yes ☒ No | 22 1310-73-2 |
| 2 | 230 NA | 231 Proprietary Ingredients | 232 ☐ Yes ☒ No | 23 NA |
| 3 | 234 | 235 | 236 ☐ Yes ☐ No | 23 |
| 4 | 238 | 239 | 240 ☐ Yes ☐ No | 24 |
| 5 | 242 | 243 | 244 ☐ Yes ☐ No | 24 |

**If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.**

ADDITIONAL LOCALLY COLLECTED INFORMATION: 24

**Maximum Daily Amount in pounds: _____ Lbs.**

**CONTRA COSTA HEALTH SERVICES - HAZARDOUS MATERIALS PROGRAMS**

**UNIFIED PROGRAM CONSOLIDATED FORM**

**BUSINESS PLAN 2007**

# HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(One page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200



## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)
Western Forge & Flange Co.

CHEMICAL LOCATION 201
Storage, Welding

CHEMICAL LOCATION CONFIDENTIAL EPCRA ☐ Yes ☒ No 20

FACILITY ID# 0 7 0 0 0 7 7 1 3 3 6 1

MAP # *(optional)* 203
Master Layout

GRID # *(optional)* 20
H9, J18

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Acetylene Or Ethyne

TRADE SECRET ☐ Yes ☒ No 20
If subject to EPCRA, refer to instructions

COMMON NAME 207
Acetylene

Regulated Substance? ☐ Yes ☒ No 20

CAS # 209
74-86-2

*If Regulated Substance is "Yes", all amounts below mu be in lbs.

FIRE CODE HAZARD CLASSES: include physical & health characteristics (See appendix 6 of CUPA packet) 21
Flammable gas (gaseous) CLASS 2 unstable gas (reactive)

HAZARDOUS MATERIAL TYPE (Check one item only) ☒ a. PURE ☐ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☒ No 212

CURIES 21
NA

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☐ b. LIQUID ☒ c. GAS 214

LARGEST CONTAINER 21
210

FED HAZARD CATEGORIES (Check all that apply) ☒ a. FIRE ☒ b. REACTIVE ☒ c. PRESSURE RELEASE ☐ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 21

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 22 |
|---|---|---|---|
| 150 | 210 | NA | NA |

UNITS* (Check one item only) ☐ a. GALLONS ☒ b. CUBIC FEET ☐ c. POUNDS 221
*If EHS amount must be in pounds.

DAYS ON SITE 22
365

STORAGE CONTAINER 22

☐ a. ABOVEGROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM ☐ e. PLASTIC/NONMETALLIC DRUM ☐ f. CAN ☐ g. CARBOY ☐ h. SILO ☐ i. FIBER DRUM ☐ j. BAG ☐ k. BOX ☒ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOTE BIN ☐ p. TANK WAGON ☐ q. RAIL CAR ☐ r. OTHER _____

STORAGE PRESSURE ☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 22

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 22

| | %WT | HAZARDOUS COMPONENT (For mixture or waste only) | Regulated Substance | CAS # |
|---|---|---|---|---|
| 1 | 226 100 | 227 Acetylene Or Ethyne | 228 ☐ Yes ☒ No | 22 74-86-2 |
| 2 | 230 | 231 | 232 ☐ Yes ☐ No | 23 |
| 3 | 234 | 235 | 236 ☐ Yes ☐ No | 23 |
| 4 | 238 | 239 | 240 ☐ Yes ☐ No | 24 |
| 5 | 242 | 243 | 244 ☐ Yes ☐ No | 24 |

**If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.**

ADDITIONAL LOCALLY COLLECTED INFORMATION: 24

**Maximum Daily Amount in pounds: _____ Lbs.**

**CONTRA COSTA HEALTH SERVICES - HAZARDOUS MATERIALS PROGRAMS**

**UNIFIED PROGRAM CONSOLIDATED FORM**

**BUSINESS PLAN 2007**

# HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(One page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200



## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)
Western Forge & Flange Co.

CHEMICAL LOCATION 201
Forge Area

CHEMICAL LOCATION CONFIDENTIAL EPCRA ☐ Yes ☒ No 20

FACILITY ID# 0 7 0 0 0 7 7 1 3 3 6 1

MAP # *(optional)* 203
Master Layout

GRID # *(optional)* 20
O25

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Waste Oil

TRADE SECRET ☐ Yes ☒ No 20
If subject to EPCRA, refer to instructions

COMMON NAME 207
Waste Oil

Regulated Substance? ☐ Yes ☐ No 20

CAS # 209
Mixture

*If Regulated Substance is "Yes", all amounts below mu be in lbs.

FIRE CODE HAZARD CLASSES: include physical & health characteristics (See appendix 6 of CUPA packet) 21
CLASS III-B combustible liquid Irritant

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☒ c. WASTE 211

RADIOACTIVE ☐ Yes ☒ No 212

CURIES 21
NA

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 21
1000

FED HAZARD CATEGORIES (Check all that apply) ☒ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 21

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 22 |
|---|---|---|---|
| 400 | 700 | NONE SHIPPED | 221 |

UNITS* (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS 221
*If EHS amount must be in pounds.

DAYS ON SITE 22
365

STORAGE CONTAINER 22

☒ a. ABOVEGROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM ☐ e. PLASTIC/NONMETALLIC DRUM ☐ f. CAN ☐ g. CARBOY ☐ h. SILO ☐ i. FIBER DRUM ☐ j. BAG ☐ k. BOX ☐ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOTE BIN ☐ p. TANK WAGON ☐ q. RAIL CAR ☐ r. OTHER _____

STORAGE PRESSURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 22

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 22

| | %WT | HAZARDOUS COMPONENT (For mixture or waste only) | Regulated Substance | CAS # |
|---|---|---|---|---|
| 1 | 226 100 | 227 Waste Oil And Water | 228 ☐ Yes ☒ No | 22 NA |
| 2 | 230 | 231 | 232 ☐ Yes ☐ No | 23 |
| 3 | 234 | 235 | 236 ☐ Yes ☐ No | 23 |
| 4 | 238 | 239 | 240 ☐ Yes ☐ No | 24 |
| 5 | 242 | 243 | 244 ☐ Yes ☐ No | 24 |

**If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.**

ADDITIONAL LOCALLY COLLECTED INFORMATION: 24

**Maximum Daily Amount in pounds: _____ Lbs.**

**CONTRA COSTA HEALTH SERVICES - HAZARDOUS MATERIALS PROGRAMS**

**UNIFIED PROGRAM CONSOLIDATED FORM**

**BUSINESS PLAN 2007**

# HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

(One page per material per building or area)

☐ ADD ☐ DELETE ☐ REVISE 200

Page 15 of 15

## I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)
Western Forge & Flange Co.

CHEMICAL LOCATION 201
Hydraulic Press Ring Roller Area

CHEMICAL LOCATION CONFIDENTIAL EPCRA ☐ Yes ☒ No 20

FACILITY ID# 0 7 0 0 0 7 7 1 3 3 6 1

MAP # *(optional)* 203
Master Layout

GRID # *(optional)* 20
I21

## II. CHEMICAL INFORMATION

CHEMICAL NAME 205
Non Rcra Hazardous Waste (sludge With Metals)

TRADE SECRET ☐ Yes ☒ No 20
If subject to EPCRA, refer to instructions

COMMON NAME 207
Waste Sludge with Metals, non rcra hazardous waste

Regulated Substance? ☐ Yes ☐ No 20

CAS # 209
Mixture

*If Regulated Substance is "Yes", all amounts below mu be in lbs.

FIRE CODE HAZARD CLASSES: include physical & health characteristics (See appendix 6 of CUPA packet) 21
Toxic material

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☐ b. MIXTURE ☒ c. WASTE 211

RADIOACTIVE ☐ Yes ☒ No 212

CURIES 21
NA

PHYSICAL STATE (Check one item only) ☒ a. SOLID ☐ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 21
20,000

FED HAZARD CATEGORIES (Check all that apply) 21
☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☐ d. ACUTE HEALTH ☒ e. CHRONIC HEALTH

| AVERAGE DAILY AMOUNT 217 | MAXIMUM DAILY AMOUNT 218 | ANNUAL WASTE AMOUNT 219 | STATE WASTE CODE 22 |
|---|---|---|---|
| 6,000 | 13,500 | 20,000 | 223 |

UNITS* (Check one item only) ☐ a. GALLONS ☐ b. CUBIC FEET ☒ c. POUNDS 221
*If EHS amount must be in pounds.

DAYS ON SITE 22
365

STORAGE CONTAINER 22

☐ a. ABOVEGROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM ☐ e. PLASTIC/NONMETALLIC DRUM ☐ f. CAN ☐ g. CARBOY ☐ h. SILO ☐ i. FIBER DRUM ☐ j. BAG ☐ k. BOX ☐ l. CYLINDER ☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☒ o. TOTE BIN ☐ p. TANK WAGON ☐ q. RAIL CAR ☐ r. OTHER _____

STORAGE PRESSURE 22
☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE 22
☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

| | %WT | HAZARDOUS COMPONENT (For mixture or waste only) | Regulated Substance | CAS # |
|---|---|---|---|---|
| 1 | 226 99 | 227 Sandy Grit/ Soil | 228 ☐ Yes ☒ No | 22 NA |
| 2 | 230 1 | 231 Oil | 232 ☐ Yes ☒ No | 23 NA |
| 3 | 234 | 235 | 236 ☐ Yes ☐ No | 23 |
| 4 | 238 | 239 | 240 ☐ Yes ☐ No | 24 |
| 5 | 242 | 243 | 244 ☐ Yes ☐ No | 24 |

**If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.**

ADDITIONAL LOCALLY COLLECTED INFORMATION: 24

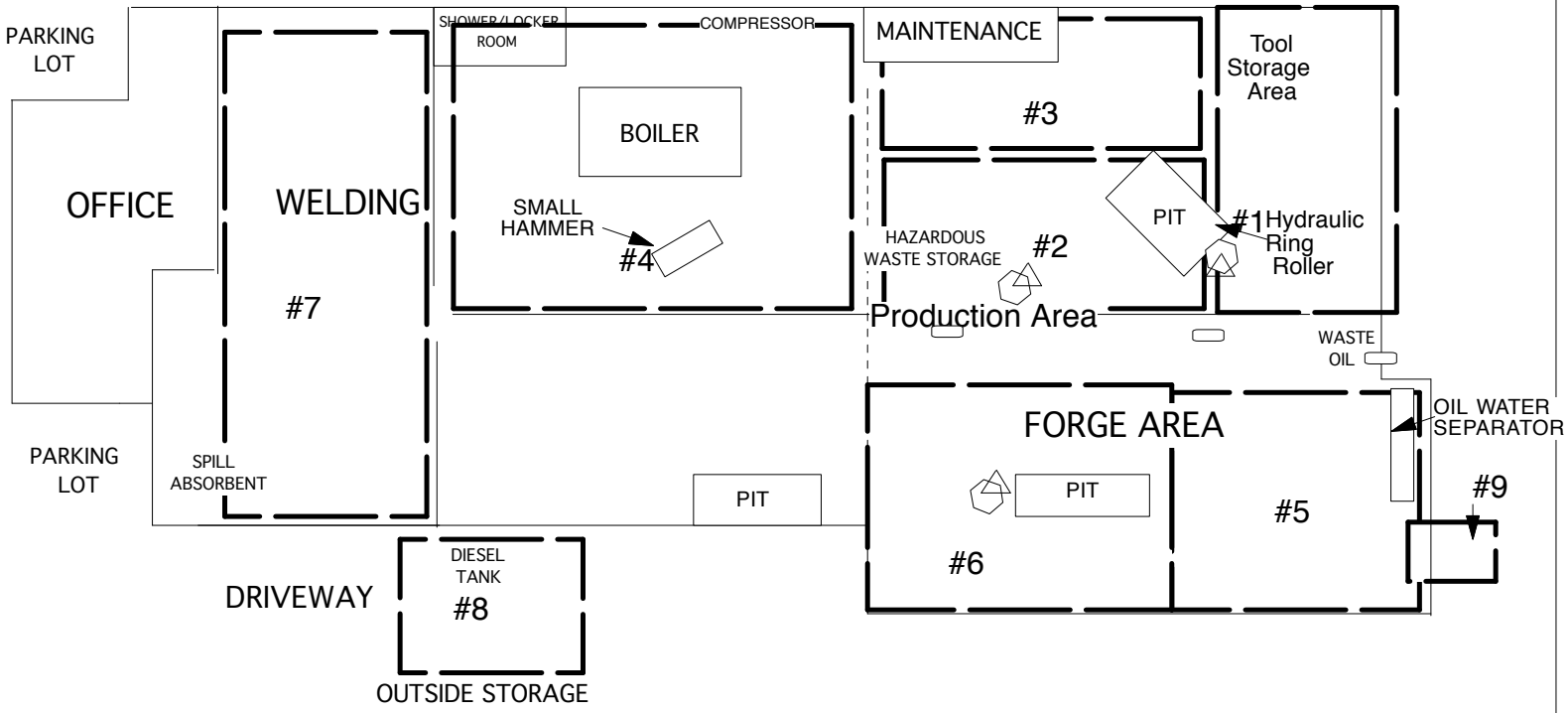
**Maximum Daily Amount in pounds: _____ Lbs.**

# III. DISPOSITION

| Chemical | Disposal/Removal |
|---|---|
| Canola Frying Shortening | Depleted during operation |
| Propane | Empty tanks shipped to new facility for reuse. |
| Oxygen | Returned to vendor |
| Chevron LS Diesel 2 | Depleted During Operation |
| Chevron ISO 460 Hydraulic Oil | Depleted During Operation |
| Chevron ISO 460 Cylinder Oil | Depleted During Operation |
| Chevron Universal Gear Oil 80/90 Wt. | Depleted During Operation |
| Chevron Soluble Oil B | Small Balanced Shipped to Santa Clara |
| Carbon Dioxide / Argon | Depleted During Operation |
| Chevron Quenching Oil 70 | Depleted During Operation |
| Chevron Black Pearl Grease | No Longer Used |
| Boiler Treat 6000 | No Longer Used |
| Acetylene | Returned Cylinders to Vendors |
| Waste Oil | Sent to TSDF |
| Waste Sludge w/ Metals | Sent to TSDF |

| **Equipment** | **Disposal/Removal** |
|---|---|
| Diesel Tank | Returned to Vendor |
| Oil/Water Separator | Shipped to Texas Facility |
| 1,500 ton Hydraulic Press | Shipped to Texas Facility |
| 3,000 lbs. Hydraulic Hammer | Shipped to Texas Facility |
| 12,000 lbs. Hydraulic Hammer | Shipped to Texas Facility |
| 14,000 lbs. Hydraulic Hammer | Shipped to Texas facility |
| Hydraulic Ring Roller | Shipped to Texas Facility |
| Forge Furnaces | Shipped to Texas Facility |
| Industrial Boiler | To Be Sold |

# IV. Proposed Sampling Drawing




0 20

SCALE = FEET

#1 PROPOSED SAMPLE AREAS

WESTERN FORGE & FLANGE
540 CLEVELAND AVENUE
ALBANY, CA

| DRAWING BY: JNG | REV. BY: JNC | MASTER LAYOUT |
|---|---|---|
| DATE: 02/06/98 | DATE: 12/3/08 | |

CHEMICAL DATA MANAGEMENT SYSTEMS
6515 TRINITY COURT, STE. 201 DUBLIN, CA 94568 (925) 551-7300

# V. Closure Notification Form

# ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH

*A Certified Unified Program Agency*

# FACILITY CLOSURE NOTIFICATION FORM

Facility Name: Western Forge and Flange

Facility Address: 540 Cleveland Ave, Albany, CA 94706

Mailing Address: 687 County Road 2201, Cleveland, TX 77327

Business phone: 281-727-7001 Contact person/Title: Walter Pierce, President

**No hazardous or potentially hazardous items are to be removed from the site until the Closure Notification Form and/or a Closure Plan has (have) been submitted and approved.**

Check all boxes relating to the facility to be closed:

( ) Limited closure (only a portion of the business operation) Describe Area: _____

(x) Full Business Closure – Describe square footage used for hazardous materials: The facility previously contained hazardous materials. It is approximately 24K sqft. See Closure Plan for add'l details.

(x) Full Site Closure (buildings to be demolished/redevelopment of property) Describe site, size, no. of buildings and hazardous materials areas: _____

| | | | |
|---|---|---|---|
| ( ) | Generated hazardous waste | ( ) | Underground tanks #_____ |
| ( ) | Tiered permit unit (e.g., PBR, CE, etc.) | (x) | Aboveground tanks # 2 |
| ( ) | Waste treatment system | ( ) | Vehicle or engine maintenance |
| (x) | Discharges to sanitary sewer | ( ) | Parts washer |
| (x) | HMBP on file | ( ) | Degreaser unit |
| ( ) | Dry cleaner | ( ) | CFC or HCFC appliances present |
| ( ) | Photo developer | ( ) | Plating shop |
| ( ) | One piece of equipment only | ( ) | Semiconductor fab |
| ( ) | Subject to Federal ARP or CAL ARP | ( ) | Dispensing of flammable or combustible liquids |
| ( ) | BAAQMD permit | ( ) | sandblasting or metals deposition |
| (x) | Compressed gas cylinder(s) | (x) | Barrel/drum storage |
| ( ) | Scrubbers/fume hoods/ducting | (x) | Trenches/containment areas |
| (x) | Sumps, hoists | ( ) | Chemical storage cabinets |
| ( ) | Radioactive materials | ( ) | More than one building |
| ( ) | Biohazards | ( ) | Other: _____ |

A closure plan approved by Alameda County Department of Environmental Health is required for facilities that are to be closed or for any storage/use/handling/processing area(s) that are to be closed. Facility Closure Plans and Notifications are to be submitted **no less than 30 days prior to** the intended date of closure.

**This document must be signed by the Facility Manager, an Officer of the Company, property owner, or other responsible party (not the consultant or contractor).**

I hereby certify under penalty of perjury that the information contained in this FACILITY CLOSURE NOTIFICATION is true and correct. I recognize the CUPA has full right-of-entry to my complete facility for the purpose of investigation and inspection to demonstrate compliance with this Application and applicable state and local regulations.

Authorized Signature/Date: _____

Printed Name/ Title: Walter Pierce, President

# HAZMAT STORAGE FACILITY CLOSURE GUIDELINES

## Closure Plan summary

The information in the Facility Closure Notification and Closure Plan must be consistent with information presented in the Hazardous Materials Inventory Statement (HMIS) on file with the Alameda County Department of Environmental Health (ACDEH). A Closure Plan approved by the ACDEH is required if any Hazardous Materials Facility, or any storage area therein, is to be closed. The facility manager or owner, or the property owner shall submit the plan.

The Closure Plan must be submitted to ACDEH no less than 30 days prior to the termination of the storage of hazardous materials at the storage facility for currently operating facilities. The information in the closure plan shall describe procedures for terminating the storage of hazardous materials in each storage facility in a manner that:

1. Demonstrates that the hazardous materials used or stored at the facility will be removed, disposed of, or reused in an appropriate manner; and

2. Threat to public health or safety or to the environment from residual hazardous materials in the storage facility is eliminated or minimized to the extent; and

3. Eliminates or minimizes the need for further maintenance or monitoring.

Hazardous or potentially hazardous materials including, but not limited to, chemicals, tanks, vats, and process equipment, are NOT to be removed from the site until the closure plan has been submitted and approved, or ACDEH has approved limited removal of equipment for sale or transfer purposes. All equipment shall be identified and inspected prior to removal.

## Additional Permits and Approvals

If underground storage tanks (UST) are being closed, a separate UST closure plan must also be submitted and approved, and a permit issued before this work may commence. Local building department permits are likely required for some types of demolition work. Closure of groundwater or vadose wells will also require a permit from the local well-permitting agency.

## Closure Plan elements

1. A completed Closure Notification form.

2. General site and facility maps/diagrams.

3. A site history describing all past and current chemical usage and/or storage of hazardous materials/wastes. A diagram must be provided showing past uses for each room/building/area and listing all chemicals which have at some time been located in each area.

4. A history of all soils and/or groundwater sampling which has been performed at the site.

5. A summary of all facilities to be closed including (as applicable):

    a. Identification of fixed equipment and buildings

# VI – Wipe Sampling Protocol

## Equipment

1. Appropriate filter media to wipe down surfaces
2. A plastic, reusable template (with a 100 $cm^2$, or 1 $ft^2$) space within it to allow the filter to be wiped across the template
3. Distilled water and sterile cloths to clean the area template between samples
4. Appropriately sized vials to contain sampling filters or media
5. Tweezers (with rounded ends)
6. Plastic surgical gloves (or equivalent)
7. Carrying case to carry sampling supplies and sample vials
8. Blank Wipe Sampling Form
9. Blank Chain of Custody/Sample Request Form
10. Sample number labels and plastic bags
11. Marking pen
12. Safety glasses.

## Procedure

When performing wipe sampling onsite, identify and document all areas to be sampled. Use building maps or an equally detailed description of the area, including the room number, surface location, and surface texture area. Also, if allowed, photographs are useful for documenting sampling site.

Put on disposable gloves to minimize contamination of the wipe by metal or other materials on the fingers or hands. Be aware that additional personal protective equipment may be required. In some cases rounded-end tweezers may be needed to collect the sample.

While using safety glasses, remove the wipe filter from the vial and, after wetting it with distilled de-ionized water or solvent, place two (wetted) blank wipes in individual vials and label the vials with a marking pen.

Begin sampling in an area with the least likelihood of contamination and proceed to other areas in order of increasing likelihood of greater contamination (this also determines the extent of the contamination).

Place the wipe flat on the measured or templated surface (100 $cm^2$) to be sampled. Using consistent speed and even pressure with fingertips move the wipe in an X pattern being sure to wipe along the perimeter of the area sampled.

**NOTE:** Do not scrub the surface with the wipe.

Use a continuous motion so the material is collected on the wipe in one direction.

Fold the filter again and, using rounded-end tweezers, place the filter into the labeled vial.
Mark the vial with field sample number and identify where the sample was taken on form.

Change surgical gloves to minimize cross-contamination of samples or the sampling area.  Repeat the procedure until adequate representation of the sampling site is achieved.

# VI - PROTOCOL FOR SOIL BORING INVESTIGATIONS & GROUNDWATER SAMPLING

This protocol presents standard field methods for drilling and sampling soil borings and collecting grab groundwater samples. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

## LOCATION OF SAMPLES

The samples will be located in the general areas as outlined in the January 2008 Closure Plan and as requested by the Alameda County Health Services Agency in their letter dated March 11, 2008. Approximately 4 borings will be advanced to 3 feet below grade (fbg) to collect soil samples. Soil samples will be collected at approximately one and 3 fbg. Samples will be analyzed for the recommended analyses as shown in the "*Recommended Minimum Verification Analyses for Underground Tank Leaks"* document that follows this protocol. In addition, one boring will be advanced to groundwater in the area of the former diesel UST. A soil sample will also be collected and analyzed from just above the groundwater table.

## SOIL BORINGS

### Objectives

Soil samples are collected to characterize subsurface lithology, assess whether the soils exhibit obvious hydrocarbon or other compound vapor or staining, and to collect samples for analysis at a State-certified laboratory. All borings are logged using the Unified Soil Classification System by a trained geologist working under the supervision of a California Registered Professional Geologist (PG).

### Soil Boring and Sampling

Soil borings are typically drilled using hollow-stem augers or direct-push technologies such as the Geoprobe®. All soil borings will be drilled under supervision of a C-57 drilling contractor licensed by the State of California. Soil samples will be collected at one and three feet to characterize the subsurface sediments and for chemical analysis. Additional soil samples are collected near the water table and at lithologic changes. Samples are collected using lined split-barrel or equivalent samplers driven into undisturbed sediments at the bottom of the borehole.

Drilling and sampling equipment is steam-cleaned prior to drilling and between borings to prevent cross-contamination. Sampling equipment is washed between samples with trisodium phosphate or an equivalent EPA-approved detergent.

**Sample Analysis**

Sampling tubes chosen for analysis are trimmed of excess soil and capped with Teflon tape and plastic end caps. Soil samples are labeled and stored at or below 4$^{o}$ C on either crushed or dry ice, depending upon local regulations. Samples are transported under chain-of-custody to a State-certified analytic laboratory.

**Field Screening**

One of the remaining tubes is partially emptied leaving about one-third of the soil in the tube. The tube is capped with plastic end caps and set aside to allow hydrocarbons to volatilize from the soil. After ten to fifteen minutes, a portable volatile vapor analyzer measures volatile hydrocarbon vapor concentrations in the tube headspace, extracting the vapor through a slit in the cap. Volatile vapor analyzer measurements are used along with the field observations, odors, stratigraphy and groundwater depth to select soil samples for analysis.

**Water Sampling**

Water samples, if they are collected from the boring, are either collected using a driven Hydropunch® type sampler or are collected by inserting temporary slotted casing into the boring and collecting the water using a bailer, pump, or tubing affixed with a check valve. The groundwater samples are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves as required, stored on crushed ice at or below 4$^{o}$C, and transported under chain-of-custody to the laboratory. Laboratory-supplied trip blanks accompany the samples and are analyzed to check for cross-contamination. An equipment blank may be analyzed if non-dedicated sampling equipment is used.

**Grouting**

If the borings are not completed as wells, the borings are filled to the ground surface with bentonite-cement grout poured or pumped through a tremie pipe.

# RECOMMENDED MINIMUM VERIFICATION ANALYSES FOR UNDERGROUND TANK LEAKS

*For Use by Unidocs Member Agencies or where approved by your Local Jurisdiction*

**TABLE #2**
REVISED 1 MARCH 1999

| HYDROCARBON LEAK | SOIL ANALYSIS (SW-846 METHOD) | | WATER ANALYSIS (Water/Waste Water Method) | |
|---|---|---|---|---|
| **Gasoline (Leaded and Unleaded)** | TPHG | 8015M or 8260 | TPHG | 8015M or 524.2/624 (8260) |
| | BTEX | 8260 | BTEX | 524.2/624 (8260) |
| | EDB and EDC | 8260 | EDB and EDC | 524.2/624 (8260) |
| | MTBE, TAME, ETBE, DIPE, and TBA by 8260 for soil and 524.2/624 (8260) for water | | | |
| | TOTAL LEAD | AA | TOTAL LEAD | AA |
| | | --Optional-- | | |
| | Organic Lead | DHS-LUFT | Organic Lead | DHS-LUFT |
| **Unknown Fuel** | TPHG | 8015M or 8260 | TPHG | 8015M or 524.2/624 (8260) |
| | TPHD | 8015M or 8260 | TPHD | 8015M or 524.2/624 (8260) |
| | BTEX | 8260 | BTEX | 524.2/624 (8260) |
| | EDB and EDC | 8260 | EDB and EDC | 524.2/624 (8260) |
| | MTBE, TAME, ETBE, DIPE, and TBA by 8260 for soil and 524.2/624 (8260) for water | | | |
| | TOTAL LEAD | AA | TOTAL LEAD | AA |
| | | --Optional-- | | |
| | Organic Lead | DHS-LUFT | Organic Lead | DHS-LUFT |
| **Diesel, Jet Fuel, Kerosene, and Fuel/Heating Oil** | TPHD | 8015M or 8260 | TPHD | 8015M or 524.2/624 (8260) |
| | BTEX | 8260 | BTEX | 524.2/624 (8260) |
| | EDB and EDC | 8260 | EDB and EDC | 524.2/624 (8260) |
| | MTBE, TAME, ETBE, DIPE, and TBA by 8260 for soil and 524.2/624 (8260) for water | | | |
| **Chlorinated Solvents** | CL HC | 8260 | CL HC | 524.2/624 (8260) |
| | BTEX | 8260 or 8021 | BTEX | 524.2/624 (8260) or 502.2/602 (8021) |
| **Nonchlorinated Solvents** | TPHD | 8015M or 8260 | TPHD | 8015M or 524.2/624 (8260) |
| | BTEX | 8260 or 8021 | BTEX | 524.2/624 (8260) or 502.2/602 (8021) |
| **Waste, Used, or Unknown Oil** | TPHG | 8015M or 8260 | TPHG | 8015M or 524.2/624 (8260) |
| | TPHD | 8015M or 8260 | TPHD | 8015M or 524.2/624 (8260) |
| | O&G | 9070 | O&G | 418.1 |
| | BTEX | 8260 | BTEX | 524.2/624 (8260) |
| | CL HC | 8260 | CL HC | 524.2/624 (8260) |
| | EDB and EDC | 8260 | EDB and EDC | 524.2/624 (8260) |
| | MTBE, TAME, ETBE, DIPE, and TBA by 8260 for soil and 524.2/624 (8260) for water | | | |
| | METALS (Cd, Cr, Pb, Ni, Zn) by ICAP or AA for soil water | | | |
| | PCB*, PCP*, PNA, CREOSOTE by 8270 for soil and 524/625 (8270) for water | | | |
| | * If found, analyze for dibenzofurans (PCBs) or dioxins (PCP) | | | |

NOTES:

1. 8021 replaces old methods 8020 and 8010
2. 8260 replaces old method 8240
3. Reference: Table B-1 in Appendix B of "Expedited Site Assessment Tools for Underground Storage Tank Sites: A Guide for Regulators" (EPA 510-B-97-001).

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# CLOSURE REPORT

FOR

## Western Forge & Flange Co. - Albany

540 Cleveland Avenue
Albany, CA

June 2009

(Amended)

Prepared By Chemical Data Management Systems

CLOSURE REPORT

Prepared for:

Western Forge & Flange Co. - Albany

To be submitted to:

Alameda County Department of Environmental Health

This Closure Report is being submitted under the following conditions:

- Facility Decommissioning to be verified by aboveground sampling
- Subsurface investigations, cleanup, and sampling to be assessed by the Alameda County Department of Environmental Health Site mitigation/Local Oversight Program
- Facility closure activities meet the requirements set by the Alameda County Department of Environmental Health as described in the approved closure plan

# Table Of Contents

# I. FACILITY DESCRIPTION

## A. SITE INFORMATION

| | |
|---|---|
| Business Name: | Western Forge & Flange Co. - Albany |
| Site Address: | 540 Cleveland Ave |
| City, State, Zip: | Albany, CA 94706 |
| County: | Alameda |

Mailing Address

| | |
|---|---|
| Company: | Western Forge & Flange Co. |
| Contact Name: | Walter Pierce |
| Title: | President |
| Street: | 687 County Rd. 2201 |
| City, State, Zip: | Cleveland, TX 77327 |
| Telephone Number: | (281) 727-7001 |

Property Owner

| | |
|---|---|
| Company: | Western Forge & Flange Co. |
| Contact Name: | Walter Pierce |
| Title: | President |
| Street: | 687 County Rd. 2201 |
| City, State, Zip: | Cleveland, TX 77327 |
| Contact: | Walter Pierce |
| Telephone: | (281) 727-7001 |

## B. SITE USE AND HISTORY

Business Activity Description:

Albany Western Forge & Flange manufactures flanges and forgings made from a variety of different materials including: titanium, aluminum, high nickel alloys, stainless steel, and alloy steels. Raw material stock is cut and then heated in furnaces. The flanges are then forged (hammered or pressed) into shape. The part is machined, if requested by the customer. Approximately 60% of all projects are machined. Flanges are then inspected and shipped to customers.

Date Business Started: 1944

Facility Description:

| | |
|---|---|
| Square Footage: | 25,000 (approximate) |
| Buildings: | 1 Building |
| Hazardous Materials Area(s): | Production Area |

Containment Area Description:

All hazardous material are in portable secondary container units.

Adjacent Properties:

| | |
|---|---|
| North: | Albany Steel |
| South: | Grace Bakery |
| East: | Freeway I-80 |
| West: | Railroad tracks |

## C. BUILDING LAYOUT

Refer to the facility drawing in Figure 1(Section III).

## D. GEOLOGIC SETTING

The site is underlain by a low permeability clay saturated above a dry dense clay above a poorly cemented sand. The clay contains a thin perched ground water zone between 6 to 12 feet below the ground surface, which rose to within a foot below ground surface during the 2008-2009 wet season.

## II. CLOSURE PROCEDURES-ABOVEGROUND

Western Forge and Flange relocated its manufacturing operation to their Texas facility during the course of one year (2007-2008). During this process, equipment and chemicals used at this facility were gradually moved to the Texas facility. All chemicals were shipped using hazardous material transporters. The equipment; the forges and hammers, were decommissioned at the Albany site and shipped to the Texas site. All the equipment and chemicals that were relocated to Texas were put into service at that location. Once the Texas facility was operational, the decision was made to close the Albany, California facility.

This section describes the procedures used to achieve closure. Closure activities were only implemented in the areas where hazardous materials were used and/or stored. All equipment and floor surfaces were decontaminated by triple rinsing with hot pressurized water. The wash water was then collected using industrial grade vacuums and transferred into a sealed 6500 gallon Baker tank. The wash water was then profiled and hauled off-site by a licensed waste hauler to an approved hazardous waste treatment site.

## A. Production Area

Facility closure procedures in this area included the following:

1. All hazardous materials and equipment were removed and transported to the Texas facility by licensed hazardous material haulers during the operation of the Albany facility and prior to the facility closure.

2. Floors in this area were swept using a ride-on sweeper to eliminate the release of contaminated dust to the air during pressure washing. Sweepings were placed into 55-gallon drums and hauled off-site as Non-RCRA Hazardous Waste by a licensed waste hauler.

3. Floors in this area were triple rinsed with hot pressurized water. Wash water was collected using industrial grade vacuums and transferred into a sealed 6500 gallon Baker tank and hauled off-site as Non-RCRA hazardous waste by a licensed waste hauler to an approved hazardous waste treatment site

4. All wash water was contained using absorbent socks and temporary berms during the cleaning process to prevent releases

5. Loose soil and gravel in all the pits was removed using a backhoe and placed into 40 yd bins and hauled off-site as Non-RCRA Hazardous waste by a licensed waste hauler to an approved hazardous waste treatment site The pits were the result of equipment removal (presses and hammers) anchored below the floor surface.

6. The pit housing the hydraulic ring roller was triple rinsed with hot pressurized water. The wash water was collected using industrial grade vacuums and transferred to a 6500 gallon Baker tank and hauled off-site as Non-RCRA hazardous waste by a licensed waste hauler to an approved hazardous waste treatment site.

7. The oil/water separator tank was triple rinsed with hot pressurized water. The wash water was collected using industrial grade vacuums and transferred to a 6500 gallon Baker tank and hauled off-site as Non-RCRA Hazardous waste by a licensed waste hauler to an approved hazardous waste treatment site.

8. All piping containing oil previously connected to the oil/water separator has been removed and hauled off-site as Non-RCRA hazardous waste by a licensed waste hauler to an approved hazardous waste treatment site.

## B. Rafters, Control Panels, and Structural Elements

Facility closure procedures in this area included the following:

1. All loose residues that accumulated on the rafters and structural elements during the facilities operation were collected and removed using industrial grade vacuums and transferred and sealed into 55-gallon drums. The drums were then hauled off-site as Non-RCRA hazardous waste by a licensed waste hauler to an approved hazardous waste treatment site.

2. All rafters and structural elements were scraped with stainless steel spatulas and wire brushes following the removal of the loose residue to further remove any contamination. The dust and debris that resulted from this action was collected using industrial grade vacuums and transferred and sealed into 55-gallon drums. The drums were then hauled off-site as Non-RCRA hazardous waste by a licensed waste hauler to an approved hazardous waste treatment site.

3. Following actions 1 and 2 described above, the rafters and structural elements were triple rinsed using hot pressurized water. The wash water was collected using industrial grade vacuums and transferred into a sealed 6500 gallon Baker tank and hauled off-site as Non-RCRA hazardous waste by a licensed waste hauler to an approved hazardous waste treatment site.

4. All wash water was contained using absorbent socks and temporary berms during the cleaning process to prevent releases.

**C. Welding/Shipping Area**

This area of the Facility closure procedures included the following:

1. All hazardous materials and equipment was removed and transported to the Texas facility by licensed hazardous material haulers during the operation of the Albany facility and prior to the facility closure.
2. Floors in this area were swept using a ride-on sweeper to eliminate the release of contaminated dust to the air during pressure washing. Sweepings were placed into 55-gallon drums and hauled off-site as Non-RCRA hazardous waste by a licensed waste hauler.
3. Floors in this area were triple rinsed with hot pressurized water in an attempt to remove hazardous materials and residues. Wash water was collected by industrial vacuums and placed in a sealed Baker tank and hauled off-site as Non-RCRA hazardous waste by a licensed waste hauler to an approved hazardous waste treatment site.
4. All wash water was contained using absorbent socks and temporary berms during the cleaning process to prevent releases from the cleanup area.

## III. SAMPLING AND ANALYSIS

During the facility closure, Chemical Data Management Systems (CDMS) on behalf of Western Forge and Flange Co. conducted several sampling events.

Sample locations were established jointly by a representative of Alameda County Environmental Health Department (ACDEH) and CDMS, and at additional locations selected by CDMS based upon surface staining and the locations of other operations. Four-inch holes were sawn through the 6 – 9 inches of concrete, and the samples were collected using a hydropunch rig. Core tubes were lined with clear liners and were advanced three feet at a time. At water sampling locations, slotted PVC well screens were inserted into the borehole, and water samples were taken with a bailer. Cement grout was tremied through the well screens to seal the holes upon completion. Figure 1.

The additional samples collected by CDMS, which were not approved by the County are identified as sample locations W101, W103, W107, W108, SB103, SB106, SB107, SB108, and SB110. These were collected to provide an additional source of data to evaluate potential contamination at suspect areas.

Parameters for the analysis of all samples were selected under the direction of Sukla De and Susan Hugo, representatives for ACDEH. ACDEH has adopted the San Francisco Regional Water Quality Control Board (SFRWQCB) Environmental Screening Levels (ESL) for soil and groundwater, and the Department of Energy's clean-up standards for all wipe samples.

ESLs for soil and groundwater are included in Table 1A. These ESLs are representative of areas considered a potential source of drinking water. Additional ESLs from the Regional Water Quality Control Board are found in Table 1B. The ESLs in Table 1B were referenced as an additional source for clean-up levels. Clean-up levels for wipe sampling is included in Table 1C.

Table 1A. SFRWQCB ESLs for TPH and Metals for areas considered a potential source of drinking water

| | TPH | Cadmium (Cd) | Chromium (Cr) | Nickel (Ni) | Lead (Pb) |
|---|---|---|---|---|---|
| Soil (mg/kg) | 2500 | 7.4 | 2500 | 150 | 750 |
| Groundwater (ug/L) | 100 ug/l | .25 ug/l | 50 ug/l | 8.2 ug/l | 2.5 ug/l |

Table 1B. ESLs for Gross Contamination (RWQCB)

| | TPH | Cadmium (Cd) | Chromium (Cr) | Nickel (Ni) | Lead (Pb) |
|---|---|---|---|---|---|
| Soil (mg/kg) | 2500 | 2500 | 2500 | 2500 | 2500 |
| Groundwater (ug/L) | 1,000 | 5 | 50,000 | 50,000 | 50,000 |

Table 1C. DOE Clean-up standards for wipe sampling.

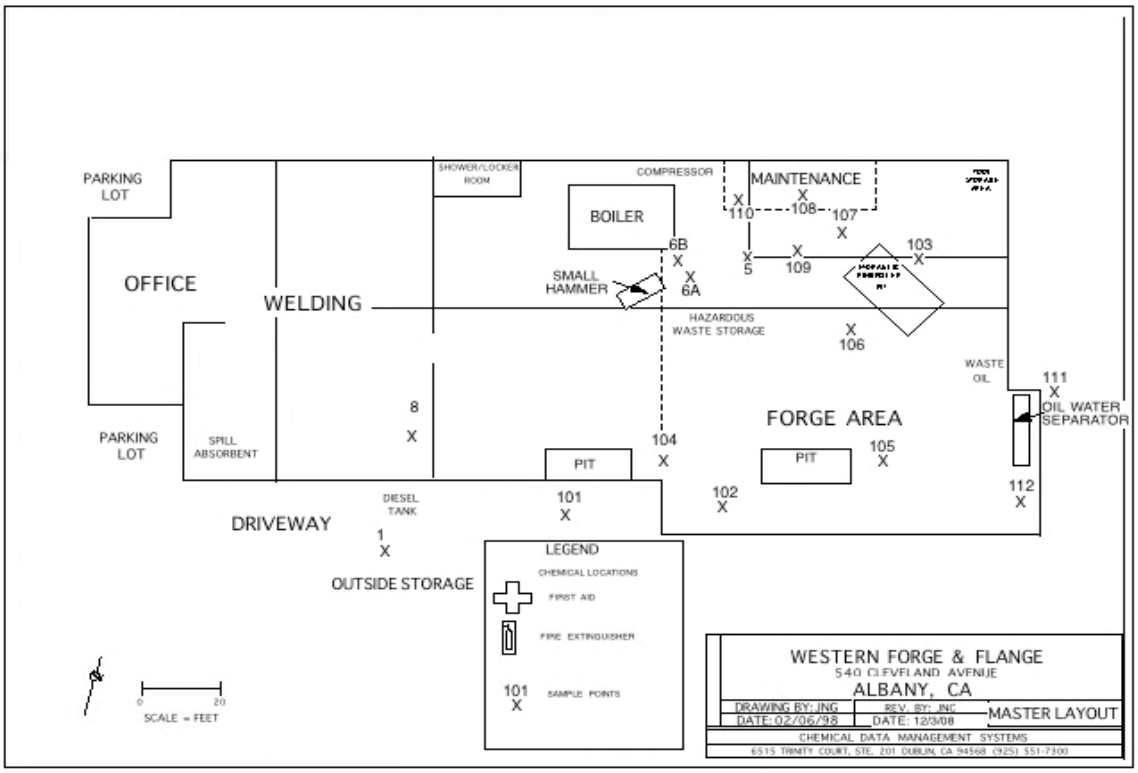
| | **Cd ($ug/100cm^2$)** | **Cr ($ug/100cm^2$)** | **Ni ($ug/100cm^2$)** | **Pb ($ug/100cm^2$)** | **Zn ($ug/100cm^2$)** | **O&G (mg/100cm)** |
|---|---|---|---|---|---|---|
| Wipes | 0.2 | 3.3 | 10 | 4.3 | Unestablished | Unestablished |

Three types of sampling occurred during the facility closure; wipe, soil, and groundwater sampling. All sampling was limited to the production area and the dirt area behind the oil/water separator in the rear of the building.

Tables for all the sample results are summarized below in each subsection as they occurred. Values found in bold in the tables below represent values that have exceeded the ESLs or Clean-up Levels for the sampling locations of each event. (Figure 1). Note that the Total Petroleum Hydrocarbon (TPH) analysis found in the following tables include TPH Diesel (TPH (D)), TPH Motor Oil (TPH(MO)), and TPH Carbon Ranges C19 – C36 (TPH (TPH (CR)) respectively.

The following subsections will chronicle the sampling events as they occurred. Refer to Figure 1 for a description of all sampling locations.

Figure 1. Locations of Subsurface Sampling Events for Soil and Groundwater




A. Sampling Event, October 3, 2008

On October 3, 2008 the first round of soil and groundwater sampling occurred in the production area, wielding area and in the area immediately behind the oil/water separator on the outside of the building. This sampling event includes sampling locations initially proposed by the ACDEH. Oversight was provided by ACDEH.

Due to the number of samples required for both soil and groundwater samples, this event was extended to other sampling events as described in the following subsections.

The ESLs from Table 1C were used during the analysis of the results for Sampling Event October 3, 2008. Table 2A includes the results from the soil samples collected during the October 3, 2008 sampling event. Results for this sampling event indicated that sampling locations #5-6"-12", #5-3', and #6B exceeded the ESLs for TPH. Additional subsurface investigations and remediation occurred in these locations and is discussed in detail in Section IV.

Groundwater sampling results for this sampling event are included in Table 2B. These results exceeded the ESLs for cadmium, chromium, nickel, lead, and zinc, and are pending further evaluation by ACDEH Site Mitigation/Local Oversight Program.

Table 2A. Sampling Event October 3, 2008. Soil Sampling

| Sample ID | Depth (ft.) | TPH (mg/kg) | Cd (mg/kg) | Cr (mg/kg) | Ni (mg/kg) | Pb (mg/kg) | Zn (mg/kg) |
|---|---|---|---|---|---|---|---|
| #5-6"-12" | 6"-12" | **6500** | ND | 51 | 140 | 30 | 73 |
| #5-3' | 3' 10" | **4900** | ND | 16 | 20 | 81 | 110 |
| #6A-2.5'-3' | 2.5'-3' | ND | ND | 54 | 67 | 110 | 140 |
| #6A-3'-4' | 3'-4' | ND | ND | 14 | 8.3 | 7.1 | 16 |
| #6B 1'10"-2'4" | 1'10"-2'4" | **3700** | ND | 52 | 83 | 7.9 | 81 |
| #6B 3'-3.5"-3' 9.5" | 3.5"-3'9" | 780 | ND | 15 | 9.2 | 56 | 76 |
| #8-1'-1.5" | 1'-1.5" | 880 | ND | 18 | 14 | 180 | 130 |
| #8-3'-4" | 3'-4" | 1500 | ND | 73 | 180 | 140 | 90 |
| #9-9"-15" | 9"-15" | ND | ND | 15 | 14 | 23 | 56 |
| #9-3'-3'10" | 3'-3'10" | ND | ND | 20 | 24 | 15 | 29 |

*Values in bold print represent those that exceed the ESL as determined by ACDEH

Table 2B. Sampling Event October 3, 2008. Groundwater Sampling

| Sample ID | Depth (ft.) | TPH (ug/L) | Cd (mg/L) | Cr (mg/L) | Ni (mg/L) | Pb (mg/L) | Zn (mg/L) |
|---|---|---|---|---|---|---|---|
| 1-6 | 1'-6" | ND | **0.019** | **1.1** | **5.8** | **1.1** | **1.9** |

*Values in bold print represent those that exceed the ESL as determined by ACDEH

B. Wipe Sampling Event October 3, 2008

As part of the closure requirements, the ceiling rafters, electrical boxes and structural elements were decontaminated by the methods described in Section II B. Verification wipe samples were taken in the production area, specifically on the electrical boxes, rafters and structural elements. These samples served to verify the removal of hazardous particulates (materials) on those structures. Results from Wipe Sampling Event October 3, 2008 are included in Table 3.

Results from all samples collected during this sampling event exceeded the clean-up levels for chromium, nickel, and lead which prompted further decontamination efforts of the ceiling and structural elements.

Table 3. Results from Wipe Sampling Event October 3, 2008

| Sample ID | Cd (mg/wipe) | Cr (mg/wipe) | Ni (mg/wipe) | Pb (mg/wipe) | Zn (mg/wipe) |
|---|---|---|---|---|---|
| #1 Hoist A | ND | **0.29** | **1.6** | **0.22** | 0.64 |
| #2 Electrical Box A | ND | **0.46** | **7.6** | **0.054** | 1 |
| #3 Ring Roller A | ND | **0.39** | **2.3** | **0.28** | 0.48 |

*Values in bold print represent those that exceed the clean-up level as determined by ACDEH

C. Wipe Sampling Event October 28, 2008

Following the completion of a second round of decontamination, verification wipe samples were collected on October 28, 2008 without oversight from ACDEH. Results from Sampling Event October 28, 2008 indicate elevated levels of chromium, nickel and lead at those sample locations and are included in Table 4.

The findings from Sampling Event October 28, 2008 prompted further decontamination efforts on the rafters and adjacent structural elements.

Table 4. Results from Wipe Sampling October 28, 2008.

| Sample ID | Cd (mg/wipe) | Cr (mg/wipe) | Ni (mg/wipe) | Pb (mg/wipe) | Zn (mg/wipe) |
|---|---|---|---|---|---|
| Electrical Box A | 0.0052 | **0.16** | **2.2** | **0.052** | 5.2 |
| Hoist A | ND | **0.36** | **2.3** | **0.51** | 1.8 |
| Ring Roller A | ND | **0.29** | **3.0** | **0.27** | 0.6 |

*Values in bold print represent those that exceed the clean-up level as determined by ACDEH

D. Sampling Event November 14, 2008

This sampling event is a continuation of the subsurface sampling events that occurred on October 3, 2008. The sample locations identified below are the initial sampling locations proposed by ACDEH. Oversight was provided by ACDEH during this sampling event

Table 5A includes the results from the soil samples collected during Sampling Event November 14, 2008. No soil samples during this sampling event exceeded the ESLs for TPH or metals.

The results from the groundwater samples collected during this sampling event are included in Table 5B. These results show elevated levels of nickel for all samples collected during this sampling event. Elevated levels of lead were found in sample locations W102 and W 103.

Table 5A. Sampling Event November 14, 2008. Soil Sampling

| Sample ID | Depth (ft.) | TPH (D) (mg/kg) | TPH (MO) (mg/kg) | TPH (CR) (mg/kg) | Cd (mg/kg) | Cr (mg/kg) | Ni (mg/kg) | Pb (mg/kg) | Zn (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|
| SB-101 3'-4' | 3'-4' | 85 | 58 | 150 | ND | 17 | 22 | 12 | 26 |
| SB 101 7'-8' | 7'-8' | ND | ND | ND | ND | 14 | 8.2 | 5.2 | 9.4 |
| SB 101 11'-12' | 11'-12' | ND | ND | ND | ND | 8.8 | 10 | 3.7 | 14 |
| SB 101 15'-16' | 15'-16' | ND | ND | ND | ND | 16 | 20 | 6.2 | 23Q |
| SB 102 3'-4' | 3'-4' | ND | ND | ND | ND | 45 | 60 | 15 | 33 |
| SB 102 7'-8' | 7'-8' | 13 | ND | 52 | ND | 16 | 7.8 | 110 | 70 |
| SB 102 11'-12' | 11'-12' | ND | ND | ND | ND | 13 | 9.4 | 5 | 13 |
| SB 102 15'-16' | 15'-16' | 4.9 | ND | ND | ND | 11 | 15 | 7.1 | 26 |
| SB 103 3'-4' | 3'-4' | 46 | 180 | 210 | ND | 67 | 85 | 11 | 52 |
| SB 103 7'-8' | 7'-8' | 23 | 94 | 110 | ND | 18 | 9.7 | 150 | 110 |
| SB 103 11'-12' | 11'-12' | ND | ND | ND | ND | 18 | 23 | 3.7 | 12 |
| SB 103 15'-16' | 15'-16' | ND | ND | ND | ND | 18 | 23 | 3.9 | 12 |
| SB 111 0'-1' | 0'-1' | 68 | 310 | 360 | ND | 37 | 180 | 19 | X |
| SB 111 3'-4' | 3'-4' | 8.6 | 55 | 60 | ND | 50 | 69 | 6.6 | 44 |
| SB 111 5'-6' | 5'-6' | 3.6 | ND | ND | ND | 26 | 21 | 29 | 62 |
| SB 111 7'-8' | 7'-8' | 23 | 70 | 87 | ND | 15 | 12 | 49 | 50 |
| SB 111 9'-10' | 9'-10' | ND | ND | ND | ND | 14 | 8.8 | 10 | 13 |
| SB 112 3'-4' | 3'-4' | 16 | 51 | 63 | ND | 13 | 26 | 13 | 29 |
| SB 112 7'-8' | 7'-8' | 58 | ND | ND | ND | 70 | 86 | 7.7 | 42 |

(D)= Diesel, (MO)= Motor Oil, (CR)= Carbon Range C19-C36

*Values in bold print represent those that exceed the clean-up level as determined by ACDEH

Table 5B. Sampling Event November 14, 2008. Groundwater Sampling

| Sample ID | Depth (ft.) | TPH (D) (ug/L) | TPH (MO) (ug/L) | TPH (CR) (ug/L) | Cd (mg/L) | Cr (mg/L) | Ni (mg/L) | Pb (mg/L) | Zn (mg/L) |
|---|---|---|---|---|---|---|---|---|---|
| W 101 | | 58 | ND | ND | ND | ND | **0.12** | 0.0065 | 0.056 |
| W 102 | | 54 | ND | ND | ND | 0.014 | **0.14** | **0.77** | 1.2 |
| W 103 | | 74 | ND | ND | ND | 0.026 | **0.38** | **0.061** | 1.4 |
| W 111 | | 91 | ND | ND | ND | ND | **0.42** | ND | 8.4 |

(D)= Diesel, (MO)= Motor Oil, (CR)= Carbon Range C19-C36

*Values in bold print represent those that exceed the clean-up level as determined by ACDEH

E. Sampling Event November 21, 2008

This sampling event was conducted without agency oversight to collect the remaining samples from all proposed subsurface sample locations. Tables 6A includes the results from this sampling event for soil.

Table 6A. November 21, 2008. Soil Sampling

| Sample ID | Depth (ft.) | TPH (D) (mg/kg) | TPH (MO) (mg/kg) | TPH (CR) (mg/kg) | Cd (mg/kg) | Cr (mg/kg) | Ni (mg/kg) | Pb (mg/kg) | Zn (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|
| SB 104 | 1'-2' | 2.2 | ND | ND | ND | 32 | 35 | 10 | 34 |
| SB 104 | 3'-4' | 6.1 | ND | ND | ND | 16 | 11 | 75 | 120 |
| SB 104 | 7'-8' | ND | ND | ND | ND | 12 | 8.3 | 13 | 17 |
| SB 105 | 1'-2' | ND | ND | ND | ND | 70 | 82 | 9 | 62 |
| SB 105 | 3'-4' | 3.4 | ND | ND | ND | 17 | 12 | 44 | 62 |
| SB 105 | 7'-8' | ND | ND | ND | ND | 14 | 10 | 17 | 35 |
| SB 106 | 1'6"-2'6" | ND | ND | ND | ND | 53 | 64 | 11 | 46 |
| SB 106 | 4'-5' | **1100** | **1900** | **2800** | ND | 54 | 79 | 31 | 67 |
| SB 106 | 7'-8' | 2.8 | ND | ND | ND | 12 | 24 | 210 | 200 |
| SB 107 | 1'-2' | **5500** | **11000** | **15000** | 1.3 | 72 | 72 | 260 | 580 |
| SB 107 | 4'-5' | 230 | 520 | 700 | ND | 14 | 10 | 23 | 49 |
| SB 107 | 7'-8' | ND | ND | ND | ND | 14 | 11 | 5.2 | 12 |
| SB 108 | 1'-2' | 2.6 | ND | ND | ND | 52 | 59 | 12 | 41 |
| SB 108 | 4'-5' | 49 | 110 | 150 | ND | 25 | 24 | 65 | 100 |
| SB 108 | 7'-8' | ND | ND | ND | ND | 14 | 10 | 4.8 | 9.3 |
| SB 109 | 1'-2' | 7.6 | ND | ND | ND | 14 | 12 | 160 | 210 |
| SB109 | 4'-5' | 8.4 | ND | ND | ND | 19 | 14 | 120 | 200 |
| SB 109 | 7'-8' | ND | ND | ND | ND | 13 | 10 | 4.8 | 10 |
| SB 110 | 1'-2' | 1.5 | ND | ND | ND | 25 | 19 | 87 | 290 |
| SB 110 | 4'-5' | ND | ND | ND | ND | 17 | 11 | 10 | 26 |
| SB 110 | 7'-8' | ND | ND | ND | ND | 13 | 8.4 | 5.3 | 7.8 |

(D)= Diesel, (MO)= Motor Oil, (CR)= Carbon Range C19-C36 . *Values in bold print represent those that exceed the clean-up level as determined by ACDEH

Groundwater results indicated that sample location W105 exceeded the ESLs for nickel, and sample locations W107 and W108 exceeded the ESLs for lead. Groundwater results for this event are included in Table 6B.

Table 6B. Sampling Event November 21, 2008. Groundwater Sampling

| Sample ID | Depth (ft.) | TPH (D) (ug/L) | TPH (MO) (ug/L) | TPH (CR) (ug/L) | Cd (mg/L) | Cr (mg/L) | Ni (mg/L) | Pb (mg/L) | Zn (mg/L) |
|---|---|---|---|---|---|---|---|---|---|
| W 105 | | 52 | ND | ND | ND | ND | **0.052** | 0.0094 | 0.93 |
| W 107 | | 62 | ND | ND | 0.0031 | 0.022 | 0.48 | **0.12** | 1.3 |
| W 108 | | 58 | ND | ND | 0.0022 | 0.025 | 0.076 | **5.6** | 0.97 |
| W 109 | | ND | ND | ND | ND | ND | ND | ND | 0.018 |

(D)= Diesel, (MO)= Motor Oil, (CR)= Carbon Range C19-C36

*Values in bold print represent those that exceed the clean-up level as determined by ACDEH

F. Wipe Sampling Event March 18, 2009

Following another round of cleanup on the rafters and adjacent structural elements, wipe Sampling Event March 18, 2009 occurred. This event was proposed for verification sampling with oversight provided by ACDEH.

Results from Wipe Sampling Event March 18, 2008 indicated that sample locations S-1 and S-2 exceeded the clean-up levels for chromium, nickel, and lead. Following this finding, another round of clean up was required. Wipe Sampling Event March 18, 2009 followed the last round of clean up. Table 7. includes the results from this sampling event.

Table 7. Results from Wipe Sampling Event March 18, 2009

| | Cd ($mg/100cm^2$) | Cr ($mg/100cm^2$) | Ni ($mg/100cm^2$) | Pb ($mg/100cm^2$) | Zn ($mg/100cm^2$) | O&G (mg/100cm) |
|---|---|---|---|---|---|---|
| S-1 | ND | **0.35** | **3.4** | **0.24** | 0.68 | ND |
| S-2 | ND | **0.1** | **0.76** | **0.033** | 0.15 | ND |
| S-3 | ND | ND | **0.011** | ND | 0.12 | ND |

*Values in bold print represent those that exceed the clean-up level as determined by ACDEH

Table 8 summarizes the sample locations that were above the ESLs.

Table 8. Summary of Results Above ESLs

| Sample ID | Depth (ft.) | O&G | TPH Total | TPH (D) | TPH (MO) | TPH (CR) | Cd | Cr | Ni | Pb | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|
| #5-6"-12" | 6"-12" | - | 6500 (mg/kg) | - | - | - | - | - | - | - | - |
| #5-3' | 3'10" | - | 4900 (mg/kg) | - | - | - | - | - | - | - | - |
| #6B | 1'10-2'4" | - | 3700 (mg/kg) | - | - | - | - | - | - | - | - |
| SB106 | 4'-5' | - | - | 1100 (mg/kg) | 1900 (mg/kg) | 2800 (mg/kg) | - | - | - | - | - |
| SB107 | 1'-2' | - | - | 5500 (mg/kg) | 11000 (mg/kg) | 15000 (mg/kg) | - | - | - | - | - |
| 1-6 | 1'-6" | - | - | - | - | - | 0.019 (mg/L) | 1.1 (mg/L) | 5.8 (mg/L) | 1.1 (mg/L) | 1.9 (mg/L) |
| W 105 | - | - | - | - | - | - | - | - | 0.052 (mg/L) | 0.0094 (mg/L) | 0.93 (mg/L) |
| W 107 | - | - | - | - | - | - | 0.0031 (mg/L) | 0.022 (mg/L) | 0.48 (mg/L) | 0.12 (mg/L) | 1.3 (mg/L) |
| W 108 | - | - | - | - | - | - | 0.0022 (mg/L) | 0.025 (mg/L) | 0.076 (mg/L) | 5.6 (mg/L) | 0.97 (mg/L) |
| W 109 | - | - | - | - | - | - | - | - | - | - | 0.018 (mg/L) |
| W101 | - | - | - | - | - | - | - | - | 0.12 (mg/L) | - | - |
| W102 | - | - | - | - | - | - | - | - | 0.14 (mg/L) | 0.77 (mg/L) | - |
| W103 | - | - | - | - | - | - | - | - | 0.38 (mg/L) | 0.061 (mg/L) | |
| W111 | | | | | | | | | 0.42 (mg/L) | - | - |
| #1 Hoist A | - | - | - | - | - | - | - | 0.29 (mg/wipe) | 1.6 (mg/wipe) | 0.22 (mg/wipe) | - |
| #2 Electrical Box | - | - | - | - | - | - | - | 0.46 (mg/wipe) | 7.6 (mg/wipe) | 0.054 (mg/wipe) | - |
| #3 Ring Roller | - | - | - | - | - | - | - | 0.39 (mg/wipe) | 2.3 (mg/wipe) | 0.28 (mg/wipe) | - |
| Electrical Box A | - | - | - | - | - | - | - | 0.16 | 2.2 | 0.052 | - |
| Hoist A | - | - | - | - | - | - | - | 0.36 (mg/wipe) | 2.3 (mg/wipe) | 0.51 (mg/wipe) | - |
| Ring Roller A | - | - | - | - | - | - | - | 0.29 (mg/wipe) | 3.0 (mg/wipe) | 0.27 (mg/wipe) | |
| S-1 | - | - | - | - | - | - | - | 0.35 (mg/wipe) | 3.4 (mg/wipe) | 0.24 (mg/wipe) | - |
| S-2 | - | - | - | - | - | - | - | 0.1 (mg/wipe) | 0.76 (mg/wipe) | 0.033 (mg/wipe) | - |
| S-3 | - | - | - | - | - | - | - | - | 0.011 (mg/wipe) | - | - |

(D)= Diesel, (MO)= Motor Oil, (CR)= Carbon Range C19-C36

# IV. SUBSURFACE INVESTIGATIONS

A. Subsurface Soil Exploration

Chemical analytical reports from the soil sampling events described in Section III indicated elevated levels of hydrocarbons (described as HEM and TPH in the analytical reports) at sample locations 5, 6B, SB106, SB107. Based on these findings, a soil cleanup plan was developed to remediate the proximity of these sample locations. A CDMS Environmental Specialist led all excavations and subsurface investigations. Consulting Geologist Fredric Hoffman provided additional guidance and support throughout the investigations. Refer to Table 9 for the excavation size and depth. Figure 2 identifies the excavation locations.

All contaminated soil that was removed during the excavations was placed into 40-yard bins and hauled offsite as hazardous waste by a licensed waste hauler. Wastewater pumped put from the pit and used absorbents were drummed and hauled offsite as hazardous waste by a licensed hauler.

Figure 2. Excavation Locations

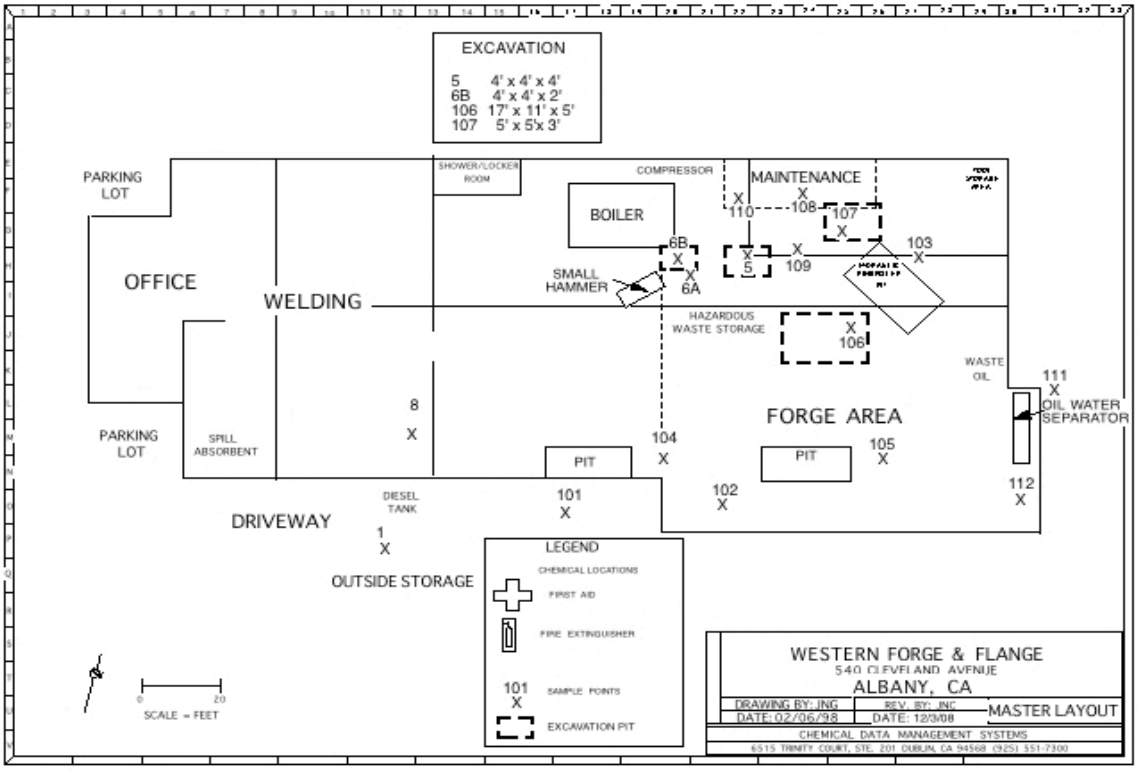


Table 9. Excavation Location, Size and Depth

| Sample Loc | Width (in ft) | Length (in ft) | Depth (in ft) |
|---|---|---|---|
| 5 | 4 | 4 | 5 |
| 6B | 4 | 4 | 3 |
| 106 | 17 | 11 | 5 |
| 107 | 5 | 5 | 3 |

Clean up began on January 21, 2009. In all three of the initial excavations, at locations 5, 6B, and 107 the dark gray clay began at 18" below the ground surface (bgs) and was present throughout the excavations. The excavations at Sample locations 107 and 6B were terminated at three feet in moist clay. The excavation at sample location 5 was terminated at five feet and water began to accumulate in the bottom of the trench.

After breaking up the concrete for the large excavation at sample location 106, a large steel foundation was uncovered, and the decision was made to limit the excavation to a 5' wide and 11" long trench that encompassed the sample location and extended parallel to the hydraulic ring roller pit.

The excavation was in the dark gray clay and ground water was encountered at 5' bgs. Approaching the 10' to 11' limit of the planned trench, oil began to seep from a point source in the wall of the trench closest to the pit at 2.5 feet below ground surface, and began to accumulate on the water in the bottom of the pit.

In order to discover the source of the oil, additional concrete was removed and a new trench was excavated on the north side of the roller pit. At 2.5 feet below ground surface oil began seeping into the new excavation from the pit side of the trench, but not from the outside face of the trench. Trenching continued around the north and west side of the roller pit following the oil seeps.

On the following morning, January 22, 2009, the oil and water had risen in the trench to 3.5' bgs. Excavation continued along the west side of the roller pit until no more oil was observed seeping into the excavation. Oil and water was then pumped out of the excavations into 2 - 55 gallon drums, and the excavators began to excavate the sediments right up to the edge of the cement sides of the roller pit. A layer of gravel was discovered in the trench against the walls of the pit and was removed by the excavators.

Following these events Fredric Hoffman, Geologist with CDMS evaluated the site and concluded that the oil that was released into the subsurface next to the hydraulic roller press, was held in the gravel backfill around the roller pit and had not appreciably penetrated the surrounding clay. When the excavator nicked a corner of the gravel, the oil was released into the excavation. The excavator then released the remainder of the oil into the trench when the oil-contaminated gravel was removed.

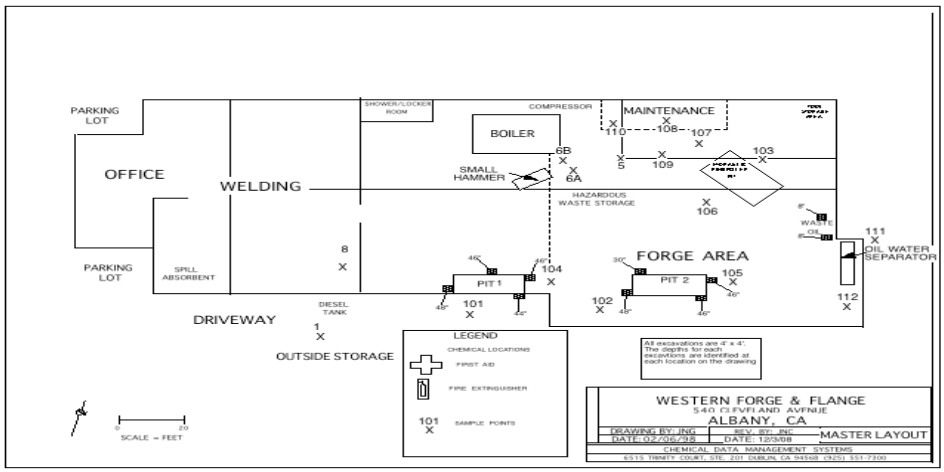
After investigations around the roller pit had ceased, further subsurface investigations were conducted around Pit 1 and Pit 2 in the northwest side of the building and near the rear wall at the west side of the building. Figure 2.

The purpose of this investigation was to determine whether or not these areas had the same issues as the roller pit area and were contaminated with oil. Excavators removed 4'x4' pieces of concrete at each location. During the excavation, soil was removed from each site, until the soil was moist, indicating a short interval between the soil and the water table. After about 15 minutes water slowly began to seep into these excavations. At that point excavation ceased.

At the pits, excavation occurred adjacent to the steel lining of the pits. If oil were present in this area, it would be found between the soil and the steel lining of the pit; as was the case with the roller pit. No indications of contamination were observed during or after excavation at these sites.

At the west side of the building, excavation occurred near the wall where etching was visible and where waste oil was once stored. Water was found immediately below the concrete, at which point the excavations ceased. No indications of contamination were observed during or after excavation at these sites.

Figure 2. Additional Subsurface Investigations




B. Subsurface Investigation-Ground Water

In early February 2009, Jim Carro, Fredric Hoffman, and Jamie Hernandez of CDMS evaluated the site. The focus of this site evaluation was the excavation pit near the ring roller. A thin film of oil was observed on the surface of the water in the excavation pit near the ring roller. After discussing possible alternatives to remedy the oil film on the water surface, the CDMS representatives decided to skim the surface of the water to remove the oil followed by the removal of the standing water by a vacuum tanker truck.

The removal of the oil from the water surface involved the use of oil absorbent pads, oil absorbent socks, and oil-only sorbent skimmers®. After several rounds of skimming, approximately 3/4 of the water volume was then removed using a vacuum tanker truck. These procedures have significantly reduced the amount of oil on the surface of the water.

Currently, Most of the discharged oil has been removed from the water surface in the pit near the ring roller. A consulting Geologist Fredric Hoffman believes that the remaining oil is contained in the disturbed sediments of the excavation. It is Mr. Hoffman's recommendation to inoculate the excavation near the ring roller pit with a chemical reagent designed to treat organic contaminants in an effort to address this area of concern. Addtional subsurface investigations and remedial activities are pending in this area, identified as sample location SB106, following Mr. Hoffman's recommendation.

# V. Conclusion

Since the relocation of the Western Forge and Flange Co. facility in Albany to Texas, there have been extensive clean up activities in the effort to decommission the facility and achieve closure.

Subsurface sampling occurred during several sampling events. The results from these sampling events indicated elevated levels of metals at various sample locations for groundwater when using the criteria provided by ACDEH. (Table 2B, Table 5B, and Table 6B). When comparing the results of Table 2B, 5B, and Table 6B to the criteria in Table 1C, all groundwater results were found below the ESLs.

Results also indicated elevated levels of oil and grease (shown as TPH in the analytical report) and TPH (residual fuel) for soil samples at sample locations 5, 6B, SB106, and SB107. (Table 2A and Table 6A). Further investigation occurred at those locations, and the contaminated soil was ultimately removed during several soil cleanup excavations. As a result of the soil cleanup excavations, TPH (residual fuel) contamination has been eliminated at soil sampling locations 5, 6B, and SB107.

In addition, oil was discovered during the soil cleanup excavation of soil sample location SB106 and several oil cleanup efforts have been conducted. Currently, this sample location is pending further remedial activities.

Based on the findings of the subsurface samples, ACDEH has made the decision to transfer all subsurface concerns and investigations to ACDEH Site Mitigation/Local Oversight Program (LOP). Western Forge and Flange Co. is currently anticipating a meeting with ACDEH LOP to address all subsurface issues.

In addition, several phases of cleaning occurred on the rafters and structural elements before and in between wipe sampling events to further remove trace contaminants. The results from initial wipe sampling events indicated elevated levels of metals. Similarly, final wipe sampling results also indicated elevated levels of metals when compared to the standards set by ACDEH.

At this time CDMS believes that due diligence has been served in decontaminating the above ground portions of the facility to the fullest extent possible at the Western Forge and Flange Co. facility in Albany, with the guidance of ACDEH. Further work in remediating the subsurface at soil sample location SB106 at the site is pending.

## VI. APPENDICES

A. HAZARDOUS WASTE MANIFESTS

(Please refer to the hard copy of this report)

# VII. ANALYTICAL REPORTS

TestAmerica. 2008a. Analytical Report, Job Number 720-16304-1, Job Description: Western Forge. October 10, 2008.

TestAmerica. 2008b. Analytical Report, Job Number 720-16328-1, Job Description: Western Forge, Albany. October 16, 2008.

TestAmerica. 2008c. Analytical Report, Job Number 720-16651-1, Job Description: Western Forge. November 04, 2008.

TestAmerica. 2008d. Analytical Report, Job Number 720-16931-1, Job Description: Western Forge, Albany. November 24, 2008.

TestAmerica. 2008e. Analytical Report, Job Number 720-17028-1, Job Description: Western Forge, Albany. December 02, 2008.

TestAmerica. 2009f. Analytical Report, Job Number 720-18578-1, Job Description: Western Forge, Albany. March 26, 2009.

## A. October 10, 2008 (Sampling Event October 3, 2008)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

Job Number: 720-16304-1

Job Description: Western Forge

For:
Chemical Data Management
6515 Trinity Court
Suite 201
Dublin, CA 94568-2665

Attention: Mr. James Carro

Surinder Sidhu

Designee for
Melissa Brewer
Project Manager I
melissa.brewer@testamericainc.com
10/10/2008

**TestAmerica Laboratories, Inc.**
TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 600-3002 www.testamericainc.com

**Comments**
No additional comments.

**Receipt**
Did not receive containers  to do water analyses for metals or oil and grease.

All other samples were received in good condition within temperature requirements.

**GC Semi VOA**
No analytical or quality issues were noted.

**Metals**
Method(s) 3010A: Sample were  preserved with HCL. A deviation from the Standard Operating Procedure (SOP) occurred.

Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 42268 were outside control limits.  The associated laboratory control standard (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

**Organic Prep**
Method(s) 9071B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 42554  were outside control limits.  The associated laboratory control standard (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

## EXECUTIVE SUMMARY - Detections

Client: Chemical Data Management Job Number: 720-16304-1

| Lab Sample ID / Analyte | Client Sample ID | Result / Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|
| **720-16304-1** | **1-6** | | | | |
| Cadmium | | 0.019 | 0.0020 | mg/L | 6010B |
| Chromium | | 1.1 | 0.0050 | mg/L | 6010B |
| Nickel | | 5.8 | 0.0050 | mg/L | 6010B |
| Lead | | 1.1 | 0.0050 | mg/L | 6010B |
| Zinc | | 1.9 | 0.010 | mg/L | 6010B |
| **720-16304-2** | **#5-6"-12"** | | | | |
| Chromium | | 51 | 1.0 | mg/Kg | 6010B |
| Nickel | | 140 | 1.0 | mg/Kg | 6010B |
| Lead | | 30 | 1.0 | mg/Kg | 6010B |
| Zinc | | 73 | 1.0 | mg/Kg | 6010B |
| HEM | | 6500 | 100 | mg/Kg | 9071B |
| **720-16304-3** | **#5-3'-3' 10"** | | | | |
| Chromium | | 16 | 1.0 | mg/Kg | 6010B |
| Nickel | | 20 | 1.0 | mg/Kg | 6010B |
| Lead | | 81 | 1.0 | mg/Kg | 6010B |
| Zinc | | 110 | 1.0 | mg/Kg | 6010B |
| HEM | | 4900 | 100 | mg/Kg | 9071B |
| **720-16304-4** | **#6A-2.5'-3'** | | | | |
| Chromium | | 54 | 0.94 | mg/Kg | 6010B |
| Nickel | | 67 | 0.94 | mg/Kg | 6010B |
| Lead | | 110 | 0.94 | mg/Kg | 6010B |
| Zinc | | 140 | 0.94 | mg/Kg | 6010B |
| **720-16304-5** | **#6A-3'-4'** | | | | |
| Chromium | | 14 | 1.0 | mg/Kg | 6010B |
| Nickel | | 8.3 | 1.0 | mg/Kg | 6010B |
| Lead | | 7.1 | 1.0 | mg/Kg | 6010B |
| Zinc | | 16 | 1.0 | mg/Kg | 6010B |
| **720-16304-6** | **#6B-1' 10"-2' 4"** | | | | |
| Chromium | | 52 | 0.95 | mg/Kg | 6010B |
| Nickel | | 83 | 0.95 | mg/Kg | 6010B |
| Lead | | 7.9 | 0.95 | mg/Kg | 6010B |
| Zinc | | 81 | 0.95 | mg/Kg | 6010B |
| HEM | | 3700 | 100 | mg/Kg | 9071B |

## EXECUTIVE SUMMARY - Detections

Client: Chemical Data Management

Job Number: 720-16304-1

| Lab Sample ID / Analyte | Client Sample ID | Result / Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|
| **720-16304-7** | **#6B-3' 3.5"-3' 9.5"** | | | | |
| Chromium | | 15 | 1.1 | mg/Kg | 6010B |
| Nickel | | 9.2 | 1.1 | mg/Kg | 6010B |
| Lead | | 56 | 1.1 | mg/Kg | 6010B |
| Zinc | | 76 | 1.1 | mg/Kg | 6010B |
| HEM | | 780 | 100 | mg/Kg | 9071B |
| **720-16304-8** | **#8-1'-1.5'** | | | | |
| Chromium | | 18 | 0.98 | mg/Kg | 6010B |
| Nickel | | 14 | 0.98 | mg/Kg | 6010B |
| Lead | | 180 | 0.98 | mg/Kg | 6010B |
| Zinc | | 130 | 0.98 | mg/Kg | 6010B |
| HEM | | 880 | 100 | mg/Kg | 9071B |
| **720-16304-9** | **#8-3'-4'** | | | | |
| Chromium | | 73 | 0.99 | mg/Kg | 6010B |
| Nickel | | 180 | 0.99 | mg/Kg | 6010B |
| Lead | | 140 | 0.99 | mg/Kg | 6010B |
| Zinc | | 90 | 0.99 | mg/Kg | 6010B |
| HEM | | 1500 | 100 | mg/Kg | 9071B |
| **720-16304-10** | **#9-9"-15"** | | | | |
| Chromium | | 15 | 0.96 | mg/Kg | 6010B |
| Nickel | | 14 | 0.96 | mg/Kg | 6010B |
| Lead | | 23 | 0.96 | mg/Kg | 6010B |
| Zinc | | 56 | 0.96 | mg/Kg | 6010B |
| **720-16304-11** | **#9-3'-3' 10"** | | | | |
| Chromium | | 20 | 0.98 | mg/Kg | 6010B |
| Nickel | | 24 | 0.98 | mg/Kg | 6010B |
| Lead | | 15 | 0.98 | mg/Kg | 6010B |
| Zinc | | 29 | 0.98 | mg/Kg | 6010B |

# METHOD SUMMARY

Client: Chemical Data Management

Job Number: 720-16304-1

| Description | Lab Location | Method | Preparation Method |
|---|---|---|---|
| **Matrix: Solid** | | | |
| Metals (ICP) | TAL SF | SW846 6010B | |
| Preparation, Metals | TAL SF | | SW846 3050B |
| HEM | TAL SF | SW846 9071B | |
| HEM | TAL SF | | SW846 9071B |
| **Matrix: Water** | | | |
| Diesel Range Organics (DRO) (GC) | TAL SF | SW846 8015B | |
| Microextraction of Organic Compounds | TAL SF | | SW846 3511 |
| Metals (ICP) | TAL SF | SW846 6010B | |
| Preparation, Total Metals | TAL SF | | SW846 3010A |

**Lab References:**

TAL SF = TestAmerica San Francisco

**Method References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## SAMPLE SUMMARY

Client: Chemical Data Management

Job Number: 720-16304-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---|---|---|---|---|
| 720-16304-1 | 1-6 | Water | 10/03/2008 1415 | 10/03/2008 1625 |
| 720-16304-2 | #5-6"-12" | Solid | 10/03/2008 1145 | 10/03/2008 1625 |
| 720-16304-3 | #5-3'-3' 10" | Solid | 10/03/2008 1145 | 10/03/2008 1625 |
| 720-16304-4 | #6A-2.5'-3' | Solid | 10/03/2008 1130 | 10/03/2008 1625 |
| 720-16304-5 | #6A-3'-4' | Solid | 10/03/2008 1130 | 10/03/2008 1625 |
| 720-16304-6 | #6B-1' 10"-2' 4" | Solid | 10/03/2008 1210 | 10/03/2008 1625 |
| 720-16304-7 | #6B-3' 3.5"-3' 9.5" | Solid | 10/03/2008 1210 | 10/03/2008 1625 |
| 720-16304-8 | #8-1'-1.5' | Solid | 10/03/2008 1105 | 10/03/2008 1625 |
| 720-16304-9 | #8-3'-4' | Solid | 10/03/2008 1105 | 10/03/2008 1625 |
| 720-16304-10 | #9-9"-15" | Solid | 10/03/2008 1320 | 10/03/2008 1625 |
| 720-16304-11 | #9-3'-3' 10" | Solid | 10/03/2008 1320 | 10/03/2008 1625 |

Client: Chemical Data Management | Job Number: 720-16304-1

**Client Sample ID:** **1-6**

| | | | |
|---|---|---|---|
| Lab Sample ID: | 720-16304-1 | Date Sampled: | 10/03/2008 1415 |
| Client Matrix: | Water | Date Received: | 10/03/2008 1625 |

**8015B Diesel Range Organics (DRO) (GC)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 720-42366 | Instrument ID: | Varian DRO2 | |
| Preparation: | 3511 | Prep Batch: 720-42208 | Lab File ID: | N/A | |
| Dilution: | 1.0 | | Initial Weight/Volume: | 35 | mL |
| Date Analyzed: | 10/10/2008 1337 | | Final Weight/Volume: | 2 | mL |
| Date Prepared: | 10/08/2008 1124 | | Injection Volume: | | |
| | | | Column ID: | PRIMARY | |

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 50 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| p-Terphenyl | 95 | 50 - 130 |

Client: Chemical Data Management

Job Number: 720-16304-1

**Client Sample ID:** **1-6**

Lab Sample ID: 720-16304-1
Client Matrix: Water

Date Sampled: 10/03/2008 1415
Date Received: 10/03/2008 1625

**6010B Metals (ICP)**

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 10/10/2008 1139
Date Prepared: 10/09/2008 0912

Analysis Batch: 720-42350
Prep Batch: 720-42267

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 30 mL
Final Weight/Volume: 30 mL

| Analyte | Result (mg/L) | Qualifier | RL |
|---|---|---|---|
| Cadmium | 0.019 | | 0.0020 |
| Chromium | 1.1 | | 0.0050 |
| Nickel | 5.8 | | 0.0050 |
| Lead | 1.1 | | 0.0050 |
| Zinc | 1.9 | | 0.010 |

Client: Chemical Data Management

Job Number: 720-16304-1

**Client Sample ID:** **#5-6"-12"**

Lab Sample ID: 720-16304-2
Client Matrix: Solid

Date Sampled: 10/03/2008 1145
Date Received: 10/03/2008 1625

**6010B Metals (ICP)**

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 10/10/2008 1201
Date Prepared: 10/09/2008 0808

Analysis Batch: 720-42348
Prep Batch: 720-42261

Instrument ID: Thermo 6500 ICP
Lab File ID: N/A
Initial Weight/Volume: 0.99 g
Final Weight/Volume: 50 mL

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.51 |
| Chromium | | 51 | | 1.0 |
| Nickel | | 140 | | 1.0 |
| Lead | | 30 | | 1.0 |
| Zinc | | 73 | | 1.0 |

Client: Chemical Data Management

Job Number: 720-16304-1

**Client Sample ID:** **#5-3'-3' 10"**

Lab Sample ID: 720-16304-3
Client Matrix: Solid

Date Sampled: 10/03/2008 1145
Date Received: 10/03/2008 1625

**6010B Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-42348 | | Instrument ID: | Thermo 6500 ICP |
| Preparation: | 3050B | Prep Batch: 720-42261 | | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.00 g |
| Date Analyzed: | 10/10/2008 1205 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 10/09/2008 0808 | | | | |

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.50 |
| Chromium | | 16 | | 1.0 |
| Nickel | | 20 | | 1.0 |
| Lead | | 81 | | 1.0 |
| Zinc | | 110 | | 1.0 |

Client: Chemical Data Management

Job Number: 720-16304-1

**Client Sample ID:** **#6A-2.5'-3'**

Lab Sample ID: 720-16304-4
Client Matrix: Solid

Date Sampled: 10/03/2008 1130
Date Received: 10/03/2008 1625

**6010B Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-42348 | | Instrument ID: | Thermo 6500 ICP |
| Preparation: | 3050B | Prep Batch: 720-42261 | | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.06 g |
| Date Analyzed: | 10/10/2008 1208 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 10/09/2008 0808 | | | | |

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.47 |
| Chromium | | 54 | | 0.94 |
| Nickel | | 67 | | 0.94 |
| Lead | | 110 | | 0.94 |
| Zinc | | 140 | | 0.94 |

Client: Chemical Data Management

Job Number: 720-16304-1

**Client Sample ID:** **#6A-3'-4'**

Lab Sample ID: 720-16304-5
Client Matrix: Solid

Date Sampled: 10/03/2008 1130
Date Received: 10/03/2008 1625

**6010B Metals (ICP)**

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 10/10/2008 1211
Date Prepared: 10/09/2008 0808

Analysis Batch: 720-42348
Prep Batch: 720-42261

Instrument ID: Thermo 6500 ICP
Lab File ID: N/A
Initial Weight/Volume: 0.97 g
Final Weight/Volume: 50 mL

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.52 |
| Chromium | | 14 | | 1.0 |
| Nickel | | 8.3 | | 1.0 |
| Lead | | 7.1 | | 1.0 |
| Zinc | | 16 | | 1.0 |

Client: Chemical Data Management

Job Number: 720-16304-1

**Client Sample ID:** **#6B-1' 10"-2' 4"**

Lab Sample ID: 720-16304-6
Client Matrix: Solid

Date Sampled: 10/03/2008 1210
Date Received: 10/03/2008 1625

**6010B Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-42348 | | Instrument ID: | Thermo 6500 ICP |
| Preparation: | 3050B | Prep Batch: 720-42261 | | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.05 g |
| Date Analyzed: | 10/10/2008 1215 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 10/09/2008 0808 | | | | |

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.48 |
| Chromium | | 52 | | 0.95 |
| Nickel | | 83 | | 0.95 |
| Lead | | 7.9 | | 0.95 |
| Zinc | | 81 | | 0.95 |

Client: Chemical Data Management

Job Number: 720-16304-1

**Client Sample ID:** **#6B-3' 3.5"-3' 9.5"**

Lab Sample ID: 720-16304-7
Client Matrix: Solid

Date Sampled: 10/03/2008 1210
Date Received: 10/03/2008 1625

**6010B Metals (ICP)**

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 10/10/2008 1225
Date Prepared: 10/09/2008 0808

Analysis Batch: 720-42348
Prep Batch: 720-42261

Instrument ID: Thermo 6500 ICP
Lab File ID: N/A
Initial Weight/Volume: 0.95 g
Final Weight/Volume: 50 mL

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.53 |
| Chromium | | 15 | | 1.1 |
| Nickel | | 9.2 | | 1.1 |
| Lead | | 56 | | 1.1 |
| Zinc | | 76 | | 1.1 |

Client: Chemical Data Management

Job Number: 720-16304-1

**Client Sample ID:** **#8-1'-1.5'**

Lab Sample ID: 720-16304-8
Client Matrix: Solid

Date Sampled: 10/03/2008 1105
Date Received: 10/03/2008 1625

**6010B Metals (ICP)**

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 10/10/2008 1229
Date Prepared: 10/09/2008 0808

Analysis Batch: 720-42348
Prep Batch: 720-42261

Instrument ID: Thermo 6500 ICP
Lab File ID: N/A
Initial Weight/Volume: 1.02 g
Final Weight/Volume: 50 mL

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.49 |
| Chromium | | 18 | | 0.98 |
| Nickel | | 14 | | 0.98 |
| Lead | | 180 | | 0.98 |
| Zinc | | 130 | | 0.98 |

Client: Chemical Data Management

Job Number: 720-16304-1

**Client Sample ID:** **#8-3'-4'**

Lab Sample ID: 720-16304-9
Client Matrix: Solid

Date Sampled: 10/03/2008 1105
Date Received: 10/03/2008 1625

**6010B Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-42325 | | Instrument ID: | Varian ICP |
| Preparation: | 3050B | Prep Batch: 720-42268 | | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.01 g |
| Date Analyzed: | 10/09/2008 1943 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 10/09/2008 0918 | | | | |

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.50 |
| Chromium | | 73 | | 0.99 |
| Nickel | | 180 | | 0.99 |
| Lead | | 140 | | 0.99 |
| Zinc | | 90 | | 0.99 |

Client: Chemical Data Management

Job Number: 720-16304-1

**Client Sample ID:** **#9-9"-15"**

Lab Sample ID: 720-16304-10
Client Matrix: Solid

Date Sampled: 10/03/2008 1320
Date Received: 10/03/2008 1625

**6010B Metals (ICP)**

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 10/09/2008 1947
Date Prepared: 10/09/2008 0918

Analysis Batch: 720-42325
Prep Batch: 720-42268

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1.04 g
Final Weight/Volume: 50 mL

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.48 |
| Chromium | | 15 | | 0.96 |
| Nickel | | 14 | | 0.96 |
| Lead | | 23 | | 0.96 |
| Zinc | | 56 | | 0.96 |

Client: Chemical Data Management

Job Number: 720-16304-1

**Client Sample ID:** **#9-3'-3' 10"**

Lab Sample ID: 720-16304-11
Client Matrix: Solid

Date Sampled: 10/03/2008 1320
Date Received: 10/03/2008 1625

**6010B Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-42325 | | Instrument ID: | Varian ICP |
| Preparation: | 3050B | Prep Batch: 720-42268 | | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.02 g |
| Date Analyzed: | 10/09/2008 1951 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 10/09/2008 0918 | | | | |

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.49 |
| Chromium | | 20 | | 0.98 |
| Nickel | | 24 | | 0.98 |
| Lead | | 15 | | 0.98 |
| Zinc | | 29 | | 0.98 |

**General Chemistry**

**Client Sample ID: #5-6"-12"**

Lab Sample ID: 720-16304-2 Date Sampled: 10/03/2008 1145
Client Matrix: Solid Date Received: 10/03/2008 1625

| Analyte | Result | Qual | Units | RL | Dil | Method |
|---|---|---|---|---|---|---|
| HEM | 6500 | | mg/Kg | 100 | 1.0 | 9071B |
| | Anly Batch: 720-42254 | Date Analyzed | 10/08/2008 1759 | | DryWt Corrected: N | |
| | Prep Batch: 720-42211 | Date Prepared: | 10/08/2008 1134 | | | |

**Client Sample ID: #5-3'-3' 10"**

Lab Sample ID: 720-16304-3 Date Sampled: 10/03/2008 1145
Client Matrix: Solid Date Received: 10/03/2008 1625

| Analyte | Result | Qual | Units | RL | Dil | Method |
|---|---|---|---|---|---|---|
| HEM | 4900 | | mg/Kg | 100 | 1.0 | 9071B |
| | Anly Batch: 720-42254 | Date Analyzed | 10/08/2008 1759 | | DryWt Corrected: N | |
| | Prep Batch: 720-42211 | Date Prepared: | 10/08/2008 1134 | | | |

**Client Sample ID: #6A-2.5'-3'**

Lab Sample ID: 720-16304-4 Date Sampled: 10/03/2008 1130
Client Matrix: Solid Date Received: 10/03/2008 1625

| Analyte | Result | Qual | Units | RL | Dil | Method |
|---|---|---|---|---|---|---|
| HEM | ND | | mg/Kg | 100 | 1.0 | 9071B |
| | Anly Batch: 720-42254 | Date Analyzed | 10/08/2008 1759 | | DryWt Corrected: N | |
| | Prep Batch: 720-42211 | Date Prepared: | 10/08/2008 1134 | | | |

**Client Sample ID: #6A-3'-4'**

Lab Sample ID: 720-16304-5 Date Sampled: 10/03/2008 1130
Client Matrix: Solid Date Received: 10/03/2008 1625

| Analyte | Result | Qual | Units | RL | Dil | Method |
|---|---|---|---|---|---|---|
| HEM | ND | | mg/Kg | 100 | 1.0 | 9071B |
| | Anly Batch: 720-42254 | Date Analyzed | 10/08/2008 1759 | | DryWt Corrected: N | |
| | Prep Batch: 720-42211 | Date Prepared: | 10/08/2008 1134 | | | |

**Client Sample ID: #6B-1' 10"-2' 4"**

Lab Sample ID: 720-16304-6 Date Sampled: 10/03/2008 1210
Client Matrix: Solid Date Received: 10/03/2008 1625

| Analyte | Result | Qual | Units | RL | Dil | Method |
|---|---|---|---|---|---|---|
| HEM | 3700 | | mg/Kg | 100 | 1.0 | 9071B |
| | Anly Batch: 720-42254 | Date Analyzed | 10/08/2008 1759 | | DryWt Corrected: N | |
| | Prep Batch: 720-42211 | Date Prepared: | 10/08/2008 1134 | | | |

**General Chemistry**

**Client Sample ID:** **#6B-3' 3.5"-3' 9.5"**

Lab Sample ID: 720-16304-7 Date Sampled: 10/03/2008 1210
Client Matrix: Solid Date Received: 10/03/2008 1625

| Analyte | Result | Qual | Units | RL | Dil | Method |
|---|---|---|---|---|---|---|
| HEM | 780 | | mg/Kg | 100 | 1.0 | 9071B |
| | Anly Batch: 720-42254 | Date Analyzed | 10/08/2008 1759 | | DryWt Corrected: N | |
| | Prep Batch: 720-42211 | Date Prepared: | 10/08/2008 1134 | | | |

**Client Sample ID:** **#8-1'-1.5'**

Lab Sample ID: 720-16304-8 Date Sampled: 10/03/2008 1105
Client Matrix: Solid Date Received: 10/03/2008 1625

| Analyte | Result | Qual | Units | RL | Dil | Method |
|---|---|---|---|---|---|---|
| HEM | 880 | | mg/Kg | 100 | 1.0 | 9071B |
| | Anly Batch: 720-42254 | Date Analyzed | 10/08/2008 1759 | | DryWt Corrected: N | |
| | Prep Batch: 720-42211 | Date Prepared: | 10/08/2008 1134 | | | |

**Client Sample ID:** **#8-3'-4'**

Lab Sample ID: 720-16304-9 Date Sampled: 10/03/2008 1105
Client Matrix: Solid Date Received: 10/03/2008 1625

| Analyte | Result | Qual | Units | RL | Dil | Method |
|---|---|---|---|---|---|---|
| HEM | 1500 | | mg/Kg | 100 | 1.0 | 9071B |
| | Anly Batch: 720-42254 | Date Analyzed | 10/08/2008 1759 | | DryWt Corrected: N | |
| | Prep Batch: 720-42211 | Date Prepared: | 10/08/2008 1134 | | | |

**Client Sample ID:** **#9-9"-15"**

Lab Sample ID: 720-16304-10 Date Sampled: 10/03/2008 1320
Client Matrix: Solid Date Received: 10/03/2008 1625

| Analyte | Result | Qual | Units | RL | Dil | Method |
|---|---|---|---|---|---|---|
| HEM | ND | | mg/Kg | 100 | 1.0 | 9071B |
| | Anly Batch: 720-42254 | Date Analyzed | 10/08/2008 1759 | | DryWt Corrected: N | |
| | Prep Batch: 720-42211 | Date Prepared: | 10/08/2008 1134 | | | |

**Client Sample ID:** **#9-3'-3' 10"**

Lab Sample ID: 720-16304-11 Date Sampled: 10/03/2008 1320
Client Matrix: Solid Date Received: 10/03/2008 1625

| Analyte | Result | Qual | Units | RL | Dil | Method |
|---|---|---|---|---|---|---|
| HEM | ND | | mg/Kg | 100 | 1.0 | 9071B |
| | Anly Batch: 720-42254 | Date Analyzed | 10/08/2008 1759 | | DryWt Corrected: N | |
| | Prep Batch: 720-42211 | Date Prepared: | 10/08/2008 1134 | | | |

## DATA REPORTING QUALIFIERS

Client: Chemical Data Management Job Number: 720-16304-1

| Lab Section | Qualifier | Description |
|---|---|---|
| General Chemistry | | |
| | 4 | MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable. |

Client: Chemical Data Management

Job Number: 720-16304-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **GC Semi VOA** | | | | | |
| **Prep Batch: 720-42208** | | | | | |
| LCS 720-42208/2-A | Lab Control Spike | T | Water | 3511 | |
| LCSD 720-42208/3-A | Lab Control Spike Duplicate | T | Water | 3511 | |
| MB 720-42208/1-A | Method Blank | T | Water | 3511 | |
| 720-16304-1 | 1-6 | T | Water | 3511 | |
| **Analysis Batch:720-42366** | | | | | |
| LCS 720-42208/2-A | Lab Control Spike | T | Water | 8015B | 720-42208 |
| LCSD 720-42208/3-A | Lab Control Spike Duplicate | T | Water | 8015B | 720-42208 |
| MB 720-42208/1-A | Method Blank | T | Water | 8015B | 720-42208 |
| 720-16304-1 | 1-6 | T | Water | 8015B | 720-42208 |

**Report Basis**

T = Total

Client: Chemical Data Management

Job Number: 720-16304-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **Metals** | | | | | |
| **Prep Batch: 720-42261** | | | | | |
| LCS 720-42261/2-A | Lab Control Spike | T | Solid | 3050B | |
| LCSD 720-42261/3-A | Lab Control Spike Duplicate | T | Solid | 3050B | |
| LCSSRM 720-42261/25-A | LCS-Standard Reference Material | T | Solid | 3050B | |
| MB 720-42261/1-A | Method Blank | T | Solid | 3050B | |
| 720-16292-G-7-A MS | Matrix Spike | T | Solid | 3050B | |
| 720-16292-G-7-B MSD | Matrix Spike Duplicate | T | Solid | 3050B | |
| 720-16304-2 | #5-6"-12" | T | Solid | 3050B | |
| 720-16304-3 | #5-3'-3' 10" | T | Solid | 3050B | |
| 720-16304-4 | #6A-2.5'-3' | T | Solid | 3050B | |
| 720-16304-5 | #6A-3'-4' | T | Solid | 3050B | |
| 720-16304-6 | #6B-1' 10"-2' 4" | T | Solid | 3050B | |
| 720-16304-7 | #6B-3' 3.5"-3' 9.5" | T | Solid | 3050B | |
| 720-16304-8 | #8-1'-1.5' | T | Solid | 3050B | |
| **Prep Batch: 720-42267** | | | | | |
| LCS 720-42267/2-A | Lab Control Spike | T | Water | 3010A | |
| LCSD 720-42267/3-A | Lab Control Spike Duplicate | T | Water | 3010A | |
| MB 720-42267/1-A | Method Blank | T | Water | 3010A | |
| 720-16296-F-8-A MS | Matrix Spike | T | Water | 3010A | |
| 720-16296-F-8-B MSD | Matrix Spike Duplicate | T | Water | 3010A | |
| 720-16304-1 | 1-6 | T | Water | 3010A | |
| **Prep Batch: 720-42268** | | | | | |
| LCS 720-42268/2-A | Lab Control Spike | T | Solid | 3050B | |
| LCSD 720-42268/3-A | Lab Control Spike Duplicate | T | Solid | 3050B | |
| LCSSRM 720-42268/25-A | LCS-Standard Reference Material | T | Solid | 3050B | |
| MB 720-42268/1-A | Method Blank | T | Solid | 3050B | |
| 720-16304-9 | #8-3'-4' | T | Solid | 3050B | |
| 720-16304-10 | #9-9"-15" | T | Solid | 3050B | |
| 720-16304-11 | #9-3'-3' 10" | T | Solid | 3050B | |
| 720-16370-A-4-E MS | Matrix Spike | T | Solid | 3050B | |
| 720-16370-A-4-F MSD | Matrix Spike Duplicate | T | Solid | 3050B | |
| **Analysis Batch:720-42325** | | | | | |
| LCS 720-42268/2-A | Lab Control Spike | T | Solid | 6010B | 720-42268 |
| LCSD 720-42268/3-A | Lab Control Spike Duplicate | T | Solid | 6010B | 720-42268 |
| LCSSRM 720-42268/25-A | LCS-Standard Reference Material | T | Solid | 6010B | 720-42268 |
| MB 720-42268/1-A | Method Blank | T | Solid | 6010B | 720-42268 |
| 720-16304-9 | #8-3'-4' | T | Solid | 6010B | 720-42268 |
| 720-16304-10 | #9-9"-15" | T | Solid | 6010B | 720-42268 |
| 720-16304-11 | #9-3'-3' 10" | T | Solid | 6010B | 720-42268 |
| 720-16370-A-4-E MS | Matrix Spike | T | Solid | 6010B | 720-42268 |
| 720-16370-A-4-F MSD | Matrix Spike Duplicate | T | Solid | 6010B | 720-42268 |

Client: Chemical Data Management

Job Number: 720-16304-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **Metals** | | | | | |
| **Analysis Batch:720-42348** | | | | | |
| LCS 720-42261/2-A | Lab Control Spike | T | Solid | 6010B | 720-42261 |
| LCSD 720-42261/3-A | Lab Control Spike Duplicate | T | Solid | 6010B | 720-42261 |
| LCSSRM 720-42261/25-A | LCS-Standard Reference Material | T | Solid | 6010B | 720-42261 |
| MB 720-42261/1-A | Method Blank | T | Solid | 6010B | 720-42261 |
| 720-16292-G-7-A MS | Matrix Spike | T | Solid | 6010B | 720-42261 |
| 720-16292-G-7-B MSD | Matrix Spike Duplicate | T | Solid | 6010B | 720-42261 |
| 720-16304-2 | #5-6"-12" | T | Solid | 6010B | 720-42261 |
| 720-16304-3 | #5-3'-3' 10" | T | Solid | 6010B | 720-42261 |
| 720-16304-4 | #6A-2.5'-3' | T | Solid | 6010B | 720-42261 |
| 720-16304-5 | #6A-3'-4' | T | Solid | 6010B | 720-42261 |
| 720-16304-6 | #6B-1' 10"-2' 4" | T | Solid | 6010B | 720-42261 |
| 720-16304-7 | #6B-3' 3.5"-3' 9.5" | T | Solid | 6010B | 720-42261 |
| 720-16304-8 | #8-1'-1.5' | T | Solid | 6010B | 720-42261 |
| **Analysis Batch:720-42350** | | | | | |
| LCS 720-42267/2-A | Lab Control Spike | T | Water | 6010B | 720-42267 |
| LCSD 720-42267/3-A | Lab Control Spike Duplicate | T | Water | 6010B | 720-42267 |
| MB 720-42267/1-A | Method Blank | T | Water | 6010B | 720-42267 |
| 720-16296-F-8-A MS | Matrix Spike | T | Water | 6010B | 720-42267 |
| 720-16296-F-8-B MSD | Matrix Spike Duplicate | T | Water | 6010B | 720-42267 |
| 720-16304-1 | 1-6 | T | Water | 6010B | 720-42267 |

**Report Basis**

T = Total

Client: Chemical Data Management

Job Number: 720-16304-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **General Chemistry** | | | | | |
| **Prep Batch: 720-42211** | | | | | |
| LCS 720-42211/2-A | Lab Control Spike | T | Solid | 9071B | |
| LCSD 720-42211/3-A | Lab Control Spike Duplicate | T | Solid | 9071B | |
| MB 720-42211/1-A | Method Blank | T | Solid | 9071B | |
| 720-16304-2 | #5-6"-12" | T | Solid | 9071B | |
| 720-16304-3 | #5-3'-3' 10" | T | Solid | 9071B | |
| 720-16304-4 | #6A-2.5'-3' | T | Solid | 9071B | |
| 720-16304-5 | #6A-3'-4' | T | Solid | 9071B | |
| 720-16304-6 | #6B-1' 10"-2' 4" | T | Solid | 9071B | |
| 720-16304-6MS | Matrix Spike | T | Solid | 9071B | |
| 720-16304-6MSD | Matrix Spike Duplicate | T | Solid | 9071B | |
| 720-16304-7 | #6B-3' 3.5"-3' 9.5" | T | Solid | 9071B | |
| 720-16304-8 | #8-1'-1.5' | T | Solid | 9071B | |
| 720-16304-9 | #8-3'-4' | T | Solid | 9071B | |
| 720-16304-10 | #9-9"-15" | T | Solid | 9071B | |
| 720-16304-11 | #9-3'-3' 10" | T | Solid | 9071B | |
| **Analysis Batch:720-42254** | | | | | |
| LCS 720-42211/2-A | Lab Control Spike | T | Solid | 9071B | 720-42211 |
| LCSD 720-42211/3-A | Lab Control Spike Duplicate | T | Solid | 9071B | 720-42211 |
| MB 720-42211/1-A | Method Blank | T | Solid | 9071B | 720-42211 |
| 720-16304-2 | #5-6"-12" | T | Solid | 9071B | 720-42211 |
| 720-16304-3 | #5-3'-3' 10" | T | Solid | 9071B | 720-42211 |
| 720-16304-4 | #6A-2.5'-3' | T | Solid | 9071B | 720-42211 |
| 720-16304-5 | #6A-3'-4' | T | Solid | 9071B | 720-42211 |
| 720-16304-6 | #6B-1' 10"-2' 4" | T | Solid | 9071B | 720-42211 |
| 720-16304-6MS | Matrix Spike | T | Solid | 9071B | 720-42211 |
| 720-16304-6MSD | Matrix Spike Duplicate | T | Solid | 9071B | 720-42211 |
| 720-16304-7 | #6B-3' 3.5"-3' 9.5" | T | Solid | 9071B | 720-42211 |
| 720-16304-8 | #8-1'-1.5' | T | Solid | 9071B | 720-42211 |
| 720-16304-9 | #8-3'-4' | T | Solid | 9071B | 720-42211 |
| 720-16304-10 | #9-9"-15" | T | Solid | 9071B | 720-42211 |
| 720-16304-11 | #9-3'-3' 10" | T | Solid | 9071B | 720-42211 |

**Report Basis**
T = Total

**Method Blank - Batch: 720-42208**

**Method: 8015B**
**Preparation: 3511**

Lab Sample ID: MB 720-42208/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/10/2008 1311
Date Prepared: 10/08/2008 1124

Analysis Batch: 720-42366
Prep Batch: 720-42208
Units: ug/L

Instrument ID: Varian DRO2
Lab File ID: N/A
Initial Weight/Volume: 35 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | Result | Qual | RL |
|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 50 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| p-Terphenyl | 97 | 50 - 130 |

**Lab Control Spike/**
**Lab Control Spike Duplicate Recovery Report - Batch: 720-42208**

**Method: 8015B**
**Preparation: 3511**

LCS Lab Sample ID: LCS 720-42208/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/10/2008 1220
Date Prepared: 10/08/2008 1124

Analysis Batch: 720-42366
Prep Batch: 720-42208
Units: ug/L

Instrument ID: Varian DRO2
Lab File ID: N/A
Initial Weight/Volume: 35 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-42208/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/10/2008 1245
Date Prepared: 10/08/2008 1124

Analysis Batch: 720-42366
Prep Batch: 720-42208
Units: ug/L

Instrument ID: Varian DRO2
Lab File ID: N/A
Initial Weight/Volume: 35 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | % Rec. LCS | LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 85 | 91 | 40 - 130 | 7 | 25 | | |

| Surrogate | LCS % Rec | LCSD % Rec | Acceptance Limits |
|---|---|---|---|
| p-Terphenyl | 97 | 103 | 50 - 130 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Chemical Data Management

Job Number: 720-16304-1

**Method Blank - Batch: 720-42261**

**Method: 6010B**
**Preparation: 3050B**

Lab Sample ID: MB 720-42261/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/10/2008 1044
Date Prepared: 10/09/2008 0808

Analysis Batch: 720-42348
Prep Batch: 720-42261
Units: mg/Kg

Instrument ID: Thermo 6500 ICP
Lab File ID: N/A
Initial Weight/Volume: 0.96 g
Final Weight/Volume: 50 mL

| Analyte | Result | Qual | RL |
|---|---|---|---|
| Cadmium | ND | | 0.52 |
| Chromium | ND | | 1.0 |
| Nickel | ND | | 1.0 |
| Lead | ND | | 1.0 |
| Zinc | ND | | 1.0 |

**LCS-Standard Reference Material - Batch: 720-42261**

**Method: 6010B**
**Preparation: 3050B**

Lab Sample ID: LCSSRM 720-42261/25-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/10/2008 1232
Date Prepared: 10/09/2008 0808

Analysis Batch: 720-42348
Prep Batch: 720-42261
Units: mg/Kg

Instrument ID: Thermo 6500 ICP
Lab File ID: N/A
Initial Weight/Volume: 0.97 g
Final Weight/Volume: 50 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Cadmium | 43.5 | 41.4 | 95 | 67 - 118 | |
| Chromium | 254 | 241 | 95 | 67 - 121 | |
| Nickel | 99.8 | 95.2 | 95 | 65 - 117 | |
| Lead | 45.5 | 42.1 | 93 | 62 - 113 | |
| Zinc | 45.4 | 41.5 | 92 | 62 - 110 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Chemical Data Management

Job Number: 720-16304-1

**Lab Control Spike/**
**Lab Control Spike Duplicate Recovery Report - Batch: 720-42261**

**Method: 6010B**
**Preparation: 3050B**

| | | | | | |
|---|---|---|---|---|---|
| LCS Lab Sample ID: | LCS 720-42261/2-A | Analysis Batch: | 720-42348 | Instrument ID: | Thermo 6500 ICP |
| Client Matrix: | Solid | Prep Batch: | 720-42261 | Lab File ID: | N/A |
| Dilution: | 1.0 | Units: | mg/Kg | Initial Weight/Volume: | 1.02 g |
| Date Analyzed: | 10/10/2008 1048 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 10/09/2008 0808 | | | | |

| | | | | | |
|---|---|---|---|---|---|
| LCSD Lab Sample ID: | LCSD 720-42261/3-A | Analysis Batch: | 720-42348 | Instrument ID: | Thermo 6500 ICP |
| Client Matrix: | Solid | Prep Batch: | 720-42261 | Lab File ID: | N/A |
| Dilution: | 1.0 | Units: | mg/Kg | Initial Weight/Volume: | 1.04 g |
| Date Analyzed: | 10/10/2008 1100 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 10/09/2008 0808 | | | | |

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | LCS | LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
| Cadmium | 99 | 97 | 80 - 120 | 4 | 20 | | |
| Chromium | 99 | 94 | 80 - 120 | 7 | 20 | | |
| Nickel | 100 | 98 | 80 - 120 | 4 | 20 | | |
| Lead | 99 | 98 | 80 - 120 | 4 | 20 | | |
| Zinc | 99 | 97 | 80 - 120 | 4 | 20 | | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Chemical Data Management

Job Number: 720-16304-1

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 720-42261**

**Method: 6010B**
**Preparation: 3050B**

| | | | |
|---|---|---|---|
| MS Lab Sample ID: | 720-16292-G-7-A MS | Analysis Batch: 720-42348 | Instrument ID: Thermo 6500 ICP |
| Client Matrix: | Solid | Prep Batch: 720-42261 | Lab File ID: N/A |
| Dilution: | 1.0 | | Initial Weight/Volume: 1.00 g |
| Date Analyzed: | 10/10/2008 1104 | | Final Weight/Volume: 50 mL |
| Date Prepared: | 10/09/2008 0808 | | |

| | | | |
|---|---|---|---|
| MSD Lab Sample ID: | 720-16292-G-7-B MSD | Analysis Batch: 720-42348 | Instrument ID: Thermo 6500 ICP |
| Client Matrix: | Solid | Prep Batch: 720-42261 | Lab File ID: N/A |
| Dilution: | 1.0 | | Initial Weight/Volume: 1.04 g |
| Date Analyzed: | 10/10/2008 1107 | | Final Weight/Volume: 50 mL |
| Date Prepared: | 10/09/2008 0808 | | |

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
| Cadmium | 90 | 86 | 75 - 125 | 8 | 20 | | |
| Chromium | 88 | 85 | 75 - 125 | 7 | 20 | | |
| Nickel | 91 | 87 | 75 - 125 | 9 | 20 | | |
| Lead | 89 | 85 | 75 - 125 | 8 | 20 | | |
| Zinc | 94 | 85 | 75 - 125 | 11 | 20 | | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

**Method Blank - Batch: 720-42267**

**Method: 6010B**
**Preparation: 3010A**

Lab Sample ID: MB 720-42267/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/10/2008 1102
Date Prepared: 10/09/2008 0912

Analysis Batch: 720-42350
Prep Batch: 720-42267
Units: mg/L

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

| Analyte | Result | Qual | RL |
|---|---|---|---|
| Cadmium | ND | | 0.0020 |
| Chromium | ND | | 0.0050 |
| Nickel | ND | | 0.0050 |
| Lead | ND | | 0.0050 |
| Zinc | ND | | 0.010 |

**Lab Control Spike/**
**Lab Control Spike Duplicate Recovery Report - Batch: 720-42267**

**Method: 6010B**
**Preparation: 3010A**

LCS Lab Sample ID: LCS 720-42267/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/10/2008 1105
Date Prepared: 10/09/2008 0912

Analysis Batch: 720-42350
Prep Batch: 720-42267
Units: mg/L

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-42267/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/10/2008 1109
Date Prepared: 10/09/2008 0912

Analysis Batch: 720-42350
Prep Batch: 720-42267
Units: mg/L

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | LCS | LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
| Cadmium | 99 | 101 | 80 - 120 | 2 | 20 | | |
| Chromium | 100 | 103 | 80 - 120 | 2 | 20 | | |
| Nickel | 99 | 101 | 80 - 120 | 3 | 20 | | |
| Lead | 100 | 102 | 80 - 120 | 3 | 20 | | |
| Zinc | 98 | 100 | 80 - 120 | 3 | 20 | | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Chemical Data Management

Job Number: 720-16304-1

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 720-42267**

**Method: 6010B**
**Preparation: 3010A**

| | | | |
|---|---|---|---|
| MS Lab Sample ID: | 720-16296-F-8-A MS | Analysis Batch: 720-42350 | Instrument ID: Varian ICP |
| Client Matrix: | Water | Prep Batch: 720-42267 | Lab File ID: N/A |
| Dilution: | 1.0 | | Initial Weight/Volume: 50 mL |
| Date Analyzed: | 10/10/2008 1113 | | Final Weight/Volume: 50 mL |
| Date Prepared: | 10/09/2008 0912 | | |

| | | | |
|---|---|---|---|
| MSD Lab Sample ID: | 720-16296-F-8-B MSD | Analysis Batch: 720-42350 | Instrument ID: Varian ICP |
| Client Matrix: | Water | Prep Batch: 720-42267 | Lab File ID: N/A |
| Dilution: | 1.0 | | Initial Weight/Volume: 50 mL |
| Date Analyzed: | 10/10/2008 1117 | | Final Weight/Volume: 50 mL |
| Date Prepared: | 10/09/2008 0912 | | |

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
| Cadmium | 93 | 93 | 75 - 125 | 1 | 25 | | |
| Chromium | 97 | 99 | 75 - 125 | 2 | 25 | | |
| Nickel | 91 | 93 | 75 - 125 | 2 | 25 | | |
| Lead | 91 | 92 | 75 - 125 | 1 | 25 | | |
| Zinc | 89 | 91 | 75 - 125 | 2 | 25 | | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Chemical Data Management

Job Number: 720-16304-1

**Method Blank - Batch: 720-42268**

**Method: 6010B**
**Preparation: 3050B**

Lab Sample ID: MB 720-42268/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/09/2008 1828
Date Prepared: 10/09/2008 0918

Analysis Batch: 720-42325
Prep Batch: 720-42268
Units: mg/Kg

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 0.96 g
Final Weight/Volume: 50 mL

| Analyte | Result | Qual | RL |
|---|---|---|---|
| Cadmium | ND | | 0.52 |
| Chromium | ND | | 1.0 |
| Nickel | ND | | 1.0 |
| Lead | ND | | 1.0 |
| Zinc | ND | | 1.0 |

**LCS-Standard Reference Material - Batch: 720-42268**

**Method: 6010B**
**Preparation: 3050B**

Lab Sample ID: LCSSRM 720-42268/25-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/09/2008 2018
Date Prepared: 10/09/2008 0918

Analysis Batch: 720-42325
Prep Batch: 720-42268
Units: mg/Kg

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1.00 g
Final Weight/Volume: 50 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Cadmium | 42.2 | 40.0 | 95 | 67 - 118 | |
| Chromium | 246 | 236 | 96 | 67 - 121 | |
| Nickel | 96.8 | 90.6 | 94 | 65 - 117 | |
| Lead | 44.1 | 40.4 | 92 | 62 - 113 | |
| Zinc | 44.0 | 38.8 | 88 | 62 - 110 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Chemical Data Management

Job Number: 720-16304-1

**Lab Control Spike/**
**Lab Control Spike Duplicate Recovery Report - Batch: 720-42268**

**Method: 6010B**
**Preparation: 3050B**

| | | | | | |
|---|---|---|---|---|---|
| LCS Lab Sample ID: | LCS 720-42268/2-A | Analysis Batch: | 720-42325 | Instrument ID: | Varian ICP |
| Client Matrix: | Solid | Prep Batch: | 720-42268 | Lab File ID: | N/A |
| Dilution: | 1.0 | Units: | mg/Kg | Initial Weight/Volume: | 0.96 g |
| Date Analyzed: | 10/09/2008 1831 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 10/09/2008 0918 | | | | |

| | | | | | |
|---|---|---|---|---|---|
| LCSD Lab Sample ID: | LCSD 720-42268/3-A | Analysis Batch: | 720-42325 | Instrument ID: | Varian ICP |
| Client Matrix: | Solid | Prep Batch: | 720-42268 | Lab File ID: | N/A |
| Dilution: | 1.0 | Units: | mg/Kg | Initial Weight/Volume: | 1.02 g |
| Date Analyzed: | 10/09/2008 1836 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 10/09/2008 0918 | | | | |

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | LCS | LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
| Cadmium | 100 | 99 | 80 - 120 | 7 | 20 | | |
| Chromium | 102 | 100 | 80 - 120 | 7 | 20 | | |
| Nickel | 100 | 99 | 80 - 120 | 7 | 20 | | |
| Lead | 100 | 98 | 80 - 120 | 7 | 20 | | |
| Zinc | 99 | 98 | 80 - 120 | 8 | 20 | | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Chemical Data Management

Job Number: 720-16304-1

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 720-42268**

**Method: 6010B**
**Preparation: 3050B**

| | | | |
|---|---|---|---|
| MS Lab Sample ID: | 720-16370-A-4-E MS | Analysis Batch: 720-42325 | Instrument ID: Varian ICP |
| Client Matrix: | Solid | Prep Batch: 720-42268 | Lab File ID: N/A |
| Dilution: | 1.0 | | Initial Weight/Volume: 1.00 g |
| Date Analyzed: | 10/09/2008 1840 | | Final Weight/Volume: 50 mL |
| Date Prepared: | 10/09/2008 0918 | | |

| | | | |
|---|---|---|---|
| MSD Lab Sample ID: | 720-16370-A-4-F MSD | Analysis Batch: 720-42325 | Instrument ID: Varian ICP |
| Client Matrix: | Solid | Prep Batch: 720-42268 | Lab File ID: N/A |
| Dilution: | 1.0 | | Initial Weight/Volume: 0.98 g |
| Date Analyzed: | 10/09/2008 1845 | | Final Weight/Volume: 50 mL |
| Date Prepared: | 10/09/2008 0918 | | |

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
| Cadmium | 84 | 85 | 75 - 125 | 3 | 20 | | |
| Chromium | 80 | 81 | 75 - 125 | 2 | 20 | | |
| Nickel | 82 | 83 | 75 - 125 | 2 | 20 | | |
| Lead | 83 | 83 | 75 - 125 | 2 | 20 | | |
| Zinc | 81 | 79 | 75 - 125 | 0 | 20 | | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Chemical Data Management

Job Number: 720-16304-1

**Method Blank - Batch: 720-42211**

**Method: 9071B**
**Preparation: 9071B**

Lab Sample ID: MB 720-42211/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/08/2008 1759
Date Prepared: 10/08/2008 1134

Analysis Batch: 720-42254
Prep Batch: 720-42211
Units: mg/Kg

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 10.01 g
Final Weight/Volume: 10.01 mL

| Analyte | Result | Qual | RL |
|---|---|---|---|
| HEM | ND | | 100 |

**Lab Control Spike/**
**Lab Control Spike Duplicate Recovery Report - Batch: 720-42211**

**Method: 9071B**
**Preparation: 9071B**

LCS Lab Sample ID: LCS 720-42211/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/08/2008 1759
Date Prepared: 10/08/2008 1134

Analysis Batch: 720-42254
Prep Batch: 720-42211
Units: mg/Kg

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 10.01 g
Final Weight/Volume: 10.01 mL

LCSD Lab Sample ID: LCSD 720-42211/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/08/2008 1759
Date Prepared: 10/08/2008 1134

Analysis Batch: 720-42254
Prep Batch: 720-42211
Units: mg/Kg

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 10.01 g
Final Weight/Volume: 10.01 mL

| Analyte | % Rec. LCS | % Rec. LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
|---|---|---|---|---|---|---|---|
| HEM | 86 | 84 | 79 - 120 | 3 | 18 | | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Chemical Data Management

Job Number: 720-16304-1

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 720-42211**

**Method: 9071B**
**Preparation: 9071B**

| | | | | | |
|---|---|---|---|---|---|
| MS Lab Sample ID: | 720-16304-6 | Analysis Batch: | 720-42254 | Instrument ID: | No Equipment Assigned |
| Client Matrix: | Solid | Prep Batch: | 720-42211 | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 10.07 g |
| Date Analyzed: | 10/08/2008 1759 | | | Final Weight/Volume: | 10.07 mL |
| Date Prepared: | 10/08/2008 1134 | | | | |

| | | | | | |
|---|---|---|---|---|---|
| MSD Lab Sample ID: | 720-16304-6 | Analysis Batch: | 720-42254 | Instrument ID: | No Equipment Assigned |
| Client Matrix: | Solid | Prep Batch: | 720-42211 | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 10.03 g |
| Date Analyzed: | 10/08/2008 1759 | | | Final Weight/Volume: | 10.03 mL |
| Date Prepared: | 10/08/2008 1134 | | | | |

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
| HEM | 24 | -165 | 79 - 120 | 48 | 20 | 4 | 4 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Login Sample Receipt Check List

Client: Chemical Data Management

Job Number: 720-16304-1

**Login Number: 16304**

**List Source: TestAmerica San Francisco**

**Creator: Mullen, Joan**

**List Number: 1**

| Question | T / F/ NA | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| The cooler's custody seal, if present, is intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | False | |
| Sample bottles are completely filled. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | False | See Narrative |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |

## B. October 16, 2008 (Sampling Event October 3, 2008)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

Job Number: 720-16328-1

Job Description: Western Forge, Albany

For:
Chemical Data Management
6515 Trinity Court
Suite 201
Dublin, CA 94568-2665

Attention: Mr. James Carro

Approved for release.
Melissa Brewer
Project Manager I
10/16/2008 11:20 AM

Melissa Brewer
Project Manager I
melissa.brewer@testamericainc.com
10/16/2008

**Job Narrative**
**720-J16328-1**

**Comments**
No additional comments.

**Receipt**
Insufficient sample volume was provided for all of the samples. Received one wipe per sample for both Metals and Oil & Grease analyses. Per Jim Carro split wipe sample in half.

Total Oil and Grease needed per phone call to Jim.

All three samples were received at the laboratory outside the required temperature criteria for Oil & Grease.

All other samples were received in good condition within temperature requirements.

**Metals**
Method 3050B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: Used only half of the wipe sample instead of a full wipe. Batch 42445

No other analytical or quality issues were noted.

**Organic Prep**
No analytical or quality issues were noted.

# EXECUTIVE SUMMARY - Detections

Client: Chemical Data Management Job Number: 720-16328-1

| Lab Sample ID<br>Analyte | Client Sample ID | Result / Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|
| **720-16328-1** | **#1, HOIST** | | | | |
| Chromium | | 0.29 | 0.0050 | mg/wipe | 6010B |
| Nickel | | 1.6 | 0.0050 | mg/wipe | 6010B |
| Lead | | 0.22 | 0.0050 | mg/wipe | 6010B |
| Zinc | | 0.64 | 0.0050 | mg/wipe | 6010B |
| **720-16328-2** | **#2, ELECTRIC BOX** | | | | |
| Chromium | | 0.46 | 0.0050 | mg/wipe | 6010B |
| Nickel | | 7.6 | 0.050 | mg/wipe | 6010B |
| Lead | | 0.054 | 0.0050 | mg/wipe | 6010B |
| Zinc | | 1.0 | 0.0050 | mg/wipe | 6010B |
| **720-16328-3** | **#3, RING ROLLER** | | | | |
| Chromium | | 0.39 | 0.0050 | mg/wipe | 6010B |
| Nickel | | 2.3 | 0.0050 | mg/wipe | 6010B |
| Lead | | 0.28 | 0.0050 | mg/wipe | 6010B |
| Zinc | | 0.48 | 0.0050 | mg/wipe | 6010B |

# METHOD SUMMARY

Client: Chemical Data Management | Job Number: 720-16328-1

| Description | Lab Location | Method | Preparation Method |
|---|---|---|---|
| **Matrix: Wipe** | | | |
| Metals (ICP) | TAL SF | SW846 6010B | |
| Preparation, Metals | TAL SF | | SW846 3050B |
| HEM | TAL SF | SW846 9071B | |
| HEM | TAL SF | | SW846 9071B |

**Lab References:**

TAL SF = TestAmerica San Francisco

**Method References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## SAMPLE SUMMARY

Client: Chemical Data Management Job Number: 720-16328-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---|---|---|---|---|
| 720-16328-1 | #1, HOIST | Wipe | 10/03/2008 1015 | 10/06/2008 1424 |
| 720-16328-2 | #2, ELECTRIC BOX | Wipe | 10/03/2008 1017 | 10/06/2008 1424 |
| 720-16328-3 | #3, RING ROLLER | Wipe | 10/03/2008 1020 | 10/06/2008 1424 |

Client: Chemical Data Management

Job Number: 720-16328-1

**Client Sample ID: #1, HOIST**

Lab Sample ID: 720-16328-1
Client Matrix: Wipe

Date Sampled: 10/03/2008 1015
Date Received: 10/06/2008 1424

**6010B Metals (ICP)**

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 10/15/2008 0659
Date Prepared: 10/13/2008 1432

Analysis Batch: 720-42530
Prep Batch: 720-42445

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 Wipe
Final Weight/Volume: 50 mL

| Analyte | Result (mg/wipe) | Qualifier | RL |
|---|---|---|---|
| Cadmium | ND | | 0.0050 |
| Chromium | 0.29 | | 0.0050 |
| Nickel | 1.6 | | 0.0050 |
| Lead | 0.22 | | 0.0050 |
| Zinc | 0.64 | | 0.0050 |

Client: Chemical Data Management

Job Number: 720-16328-1

**Client Sample ID: #2, ELECTRIC BOX**

Lab Sample ID: 720-16328-2
Client Matrix: Wipe

Date Sampled: 10/03/2008 1017
Date Received: 10/06/2008 1424

**6010B Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-42530 | | Instrument ID: | Varian ICP |
| Preparation: | 3050B | Prep Batch: 720-42445 | | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1 Wipe |
| Date Analyzed: | 10/15/2008 0703 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 10/13/2008 1432 | | | | |

| Analyte | Result (mg/wipe) | Qualifier | RL |
|---|---|---|---|
| Cadmium | ND | | 0.0050 |
| Chromium | 0.46 | | 0.0050 |
| Lead | 0.054 | | 0.0050 |
| Zinc | 1.0 | | 0.0050 |

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-42530 | | Instrument ID: | Varian ICP |
| Preparation: | 3050B | Prep Batch: 720-42445 | | Lab File ID: | N/A |
| Dilution: | 10 | | | Initial Weight/Volume: | 1 Wipe |
| Date Analyzed: | 10/15/2008 0731 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 10/13/2008 1432 | | | | |

| Analyte | Result (mg/wipe) | Qualifier | RL |
|---|---|---|---|
| Nickel | 7.6 | | 0.050 |

Client: Chemical Data Management

Job Number: 720-16328-1

**Client Sample ID: #3, RING ROLLER**

Lab Sample ID: 720-16328-3
Client Matrix: Wipe

Date Sampled: 10/03/2008 1020
Date Received: 10/06/2008 1424

**6010B Metals (ICP)**

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 10/15/2008 0707
Date Prepared: 10/13/2008 1432

Analysis Batch: 720-42530
Prep Batch: 720-42445

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 Wipe
Final Weight/Volume: 50 mL

| Analyte | Result (mg/wipe) | Qualifier | RL |
|---|---|---|---|
| Cadmium | ND | | 0.0050 |
| Chromium | 0.39 | | 0.0050 |
| Nickel | 2.3 | | 0.0050 |
| Lead | 0.28 | | 0.0050 |
| Zinc | 0.48 | | 0.0050 |

**General Chemistry**

**Client Sample ID: #1, HOIST**

Lab Sample ID: 720-16328-1 Date Sampled: 10/03/2008 1015
Client Matrix: Wipe Date Received: 10/06/2008 1424

| Analyte | Result | Qual | Units | RL | Dil | Method |
|---|---|---|---|---|---|---|
| HEM | ND | | mg/wipe | 5.0 | 1.0 | 9071B |
| | Anly Batch: 720-42457 | | Date Analyzed 10/13/2008 1611 | | | |
| | Prep Batch: 720-42435 | | Date Prepared: 10/13/2008 1333 | | | |

**Client Sample ID: #2, ELECTRIC BOX**

Lab Sample ID: 720-16328-2 Date Sampled: 10/03/2008 1017
Client Matrix: Wipe Date Received: 10/06/2008 1424

| Analyte | Result | Qual | Units | RL | Dil | Method |
|---|---|---|---|---|---|---|
| HEM | ND | | mg/wipe | 5.0 | 1.0 | 9071B |
| | Anly Batch: 720-42457 | | Date Analyzed 10/13/2008 1611 | | | |
| | Prep Batch: 720-42435 | | Date Prepared: 10/13/2008 1333 | | | |

**Client Sample ID: #3, RING ROLLER**

Lab Sample ID: 720-16328-3 Date Sampled: 10/03/2008 1020
Client Matrix: Wipe Date Received: 10/06/2008 1424

| Analyte | Result | Qual | Units | RL | Dil | Method |
|---|---|---|---|---|---|---|
| HEM | ND | | mg/wipe | 5.0 | 1.0 | 9071B |
| | Anly Batch: 720-42457 | | Date Analyzed 10/13/2008 1611 | | | |
| | Prep Batch: 720-42435 | | Date Prepared: 10/13/2008 1333 | | | |

# DATA REPORTING QUALIFIERS

| Lab Section | Qualifier | Description |
|---|---|---|

Client: Chemical Data Management Job Number: 720-16328-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **Metals** | | | | | |
| **Prep Batch: 720-42445** | | | | | |
| LCS 720-42445/2-A | Lab Control Spike | T | Wipe | 3050B | |
| LCSD 720-42445/3-A | Lab Control Spike Duplicate | T | Wipe | 3050B | |
| MB 720-42445/1-A | Method Blank | T | Wipe | 3050B | |
| 720-16328-1 | #1, HOIST | T | Wipe | 3050B | |
| 720-16328-2 | #2, ELECTRIC BOX | T | Wipe | 3050B | |
| 720-16328-3 | #3, RING ROLLER | T | Wipe | 3050B | |
| **Analysis Batch:720-42530** | | | | | |
| LCS 720-42445/2-A | Lab Control Spike | T | Wipe | 6010B | 720-42445 |
| LCSD 720-42445/3-A | Lab Control Spike Duplicate | T | Wipe | 6010B | 720-42445 |
| MB 720-42445/1-A | Method Blank | T | Wipe | 6010B | 720-42445 |
| 720-16328-1 | #1, HOIST | T | Wipe | 6010B | 720-42445 |
| 720-16328-2 | #2, ELECTRIC BOX | T | Wipe | 6010B | 720-42445 |
| 720-16328-3 | #3, RING ROLLER | T | Wipe | 6010B | 720-42445 |

**Report Basis**
T = Total

| | | | | | |
|---|---|---|---|---|---|
| **General Chemistry** | | | | | |
| **Prep Batch: 720-42435** | | | | | |
| LCS 720-42435/2-A | Lab Control Spike | T | Wipe | 9071B | |
| LCSD 720-42435/3-A | Lab Control Spike Duplicate | T | Wipe | 9071B | |
| MB 720-42435/1-A | Method Blank | T | Wipe | 9071B | |
| 720-16328-1 | #1, HOIST | T | Wipe | 9071B | |
| 720-16328-2 | #2, ELECTRIC BOX | T | Wipe | 9071B | |
| 720-16328-3 | #3, RING ROLLER | T | Wipe | 9071B | |
| **Analysis Batch:720-42457** | | | | | |
| LCS 720-42435/2-A | Lab Control Spike | T | Wipe | 9071B | 720-42435 |
| LCSD 720-42435/3-A | Lab Control Spike Duplicate | T | Wipe | 9071B | 720-42435 |
| MB 720-42435/1-A | Method Blank | T | Wipe | 9071B | 720-42435 |
| 720-16328-1 | #1, HOIST | T | Wipe | 9071B | 720-42435 |
| 720-16328-2 | #2, ELECTRIC BOX | T | Wipe | 9071B | 720-42435 |
| 720-16328-3 | #3, RING ROLLER | T | Wipe | 9071B | 720-42435 |

**Report Basis**
T = Total

Client: Chemical Data Management

Job Number: 720-16328-1

**Method Blank - Batch: 720-42445**

**Method: 6010B**
**Preparation: 3050B**

Lab Sample ID: MB 720-42445/1-A
Client Matrix: Wipe
Dilution: 1.0
Date Analyzed: 10/15/2008 0644
Date Prepared: 10/13/2008 1432

Analysis Batch: 720-42530
Prep Batch: 720-42445
Units: mg/wipe

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 Wipe
Final Weight/Volume: 50 mL

| Analyte | Result | Qual | RL |
|---|---|---|---|
| Cadmium | ND | | 0.0050 |
| Chromium | ND | | 0.0050 |
| Nickel | ND | | 0.0050 |
| Lead | ND | | 0.0050 |
| Zinc | ND | | 0.0050 |

**Lab Control Spike/**
**Lab Control Spike Duplicate Recovery Report - Batch: 720-42445**

**Method: 6010B**
**Preparation: 3050B**

LCS Lab Sample ID: LCS 720-42445/2-A
Client Matrix: Wipe
Dilution: 1.0
Date Analyzed: 10/15/2008 0652
Date Prepared: 10/13/2008 1432

Analysis Batch: 720-42530
Prep Batch: 720-42445
Units: mg/wipe

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 Wipe
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-42445/3-A
Client Matrix: Wipe
Dilution: 1.0
Date Analyzed: 10/15/2008 0656
Date Prepared: 10/13/2008 1432

Analysis Batch: 720-42530
Prep Batch: 720-42445
Units: mg/wipe

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 Wipe
Final Weight/Volume: 50 mL

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | LCS | LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
| Cadmium | 96 | 95 | 80 - 120 | 1 | 20 | | |
| Chromium | 97 | 96 | 80 - 120 | 1 | 20 | | |
| Nickel | 95 | 94 | 80 - 120 | 1 | 20 | | |
| Lead | 96 | 95 | 80 - 120 | 1 | 20 | | |
| Zinc | 95 | 94 | 80 - 120 | 1 | 20 | | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Chemical Data Management

Job Number: 720-16328-1

**Method Blank - Batch: 720-42435**

**Method: 9071B**
**Preparation: 9071B**

Lab Sample ID: MB 720-42435/1-A
Client Matrix: Wipe
Dilution: 1.0
Date Analyzed: 10/13/2008 1611
Date Prepared: 10/13/2008 1333

Analysis Batch: 720-42457
Prep Batch: 720-42435
Units: mg/wipe

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 1 mL

| Analyte | Result | Qual | RL |
|---|---|---|---|
| HEM | ND | | 5.0 |

**Lab Control Spike/**
**Lab Control Spike Duplicate Recovery Report - Batch: 720-42435**

**Method: 9071B**
**Preparation: 9071B**

LCS Lab Sample ID: LCS 720-42435/2-A
Client Matrix: Wipe
Dilution: 1.0
Date Analyzed: 10/13/2008 1611
Date Prepared: 10/13/2008 1333

Analysis Batch: 720-42457
Prep Batch: 720-42435
Units: mg/wipe

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 1 mL

LCSD Lab Sample ID: LCSD 720-42435/3-A
Client Matrix: Wipe
Dilution: 1.0
Date Analyzed: 10/13/2008 1611
Date Prepared: 10/13/2008 1333

Analysis Batch: 720-42457
Prep Batch: 720-42435
Units: mg/wipe

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 1 mL

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | LCS | LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
| HEM | 95 | 94 | 70 - 120 | 1 | 25 | | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Brewer, Melissa

**From:** Jim Carro [jim@cdms.com]
**Sent:** Tuesday, October 14, 2008 8:57 AM
**To:** Brewer, Melissa
**Subject:** Re: Files from 720-16328-1 Western Forge, Albany

Melissa,

This email give you permission to split the above mention samples in half.

On Oct 13, 2008, at 4:46PM, Brewer, Melissa wrote:

> Our QA Manager requested that we receive an email in writing that you'd like us to split the wipes in half for analysis. Could you send me an email regarding the above?
>
> Thank you in advance.
>
> **MELISSA BREWER**
>
> TestAmerica
> THE LEADER IN ENVIRONMENTAL TESTING
>
> Tel: 925.484,1919
> www.testamericainc.com
>
> Reference: [033075]
> Attachments: 1
>
> Confidentiality Notice: The information contained in this message is intended only for the use of the addressee, and may be confidential and/or privileged. If the reader of this message is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately.
> <16328.pdf>

Jim Carro

**Chemical Data Management Systems**
Chain of Custody
6515 Trinity Ct Suite 201 Dublin, CA 94568
(925) 551-7300

T20-16328

Reference # 112782
Date 10/6/8 Page 1 of 1

10/16/2008

Page 15 of 16

| Report To | |
|---|---|
| Attn: James Cairo | |
| Company: Chemical Data Mgmt Sys | |
| Address: 6525 Trinity Court, Suite 201 | |
| City, State, Zip: Dublin, CA 94568 | |
| Email: jim@cdms.com | |
| Email: | |
| Bill To (Attn): Lori Der | |

Analysis Requested

| Sample Id | Date | Time | Matrix | Preservative | TPH EPA - ( ) 8015/8021 ( ) 8260B ( ) Gas w/ ( ) BTEX ( ) MTBE | Purgeable Aromatics BTEX EPA - ( ) BTEX ( ) 8260B | TEPH EPA 8015M* (Silica Gel ( ) Diesel ( ) Motor Oil ( ) Other | Fuel Tests EPA 8260B: ( ) Gas ( ) BTEX ( ) Five Oxygenates ( ) DCA, EDB ( ) Ethanol | Purgeable Halocarbons (HVOCs) EPA 8021 by 8260B | Volatile Organics GC/MS (VOCs) ( ) EPA 8260B ( ) 624 | Semivolatiles GC/MS ( ) EPA 8270 ( ) 625 | Oil and Grease ( ) Petroleum (EPA 1664) ( ) Total | Pesticides ( ) EPA 8081 ( ) 608 PCBs ( ) EPA 8082 ( ) 608 | PHAs by ( ) 8270 ( ) 8310 | CAM17 Metals (EPA 6010/7470/7471) | Metals: ( ) Lead ( ) LUFT ( ) RCRA ( ) Other: | Low Level Metals by EPA 200.8/6020 (ICP-MS): | ( ) W.E.T. (STLC) ( ) TCLP | ( ) Hexavalent Chromium ( ) pH (24 h hold time for H2O) | ( ) Spec Cond. ( ) Alkalinity ( ) TSS ( ) TDS | Anions: ( ) CL ( ) SO4 ( ) NO3 ( ) F ( ) Br ( ) NO2 ( ) PO4 | Cd,Cr,Pb,Ni,Zn | | | Number of Containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| #1, Hoist | 10/3/08 | 10:15 AM | | | | | | | | | | √ | | | | | | | | | √ | | | | |
| #2, Electric Box | 10/3/08 | 10:17 AM | | | | | | | | | | √ | | | | | | | | | √ | | | | |
| #3, Ring Roller | 10/3/08 | 10:20 AM | | | | | | | | | | √ | | | | | | | | | √ | | | | |

| Project Info | | | | | |
|---|---|---|---|---|---|
| Project Name: | | | | | # of Containers: 3 PLASTIC BAGS |
| Project #: | | | | | Head Space: |
| PO #: | | | | | Temperature: 28.6°C |
| Credit Card # | | | | | Conforms to record |
| TAT | 5 Day | 72h | 48h | 24h | Other |

Report: ( ) Routine ( ) Level 3 ( ) Level 4 ( ) EDD ( ) State Tank Fund EDF ( ) Global ID
Special Instructions/Comments:

8015M reported from C9-C24 (industry norm). Default for 8015 is C10-C28

Sample Receipt:

| 1) Relinquished by: | 2) Relinquished by: | 3) Relinquished by: |
|---|---|---|
| Signature: J Cairo | Signature: Ronda Slack | Signature: |
| Printed Name: J. Cairo | Printed Name: Ronda Slack | Printed Name: |
| Company: CDMS | Company: CDMS | Company: |
| Phone: 925-551-7300 | Phone: 10/6/08 2:25pm (925) 551-7300 | Phone: |
| 1) Received by: Ronda Slack | 2) Received by: | 3) Received by: |
| Signature: Ronda Slack | Signature: T. Sullivan | Signature: |
| Printed Name: CDMS | Printed Name: TAL-SF | Printed Name: |
| Company: (925) 551-7300 | Company: 925-484-1919 | Company: |
| Phone: 10/6/08 2:11pm | Phone: 10/6/08 14:24 | Phone: |

# Login Sample Receipt Check List

Client: Chemical Data Management

Job Number: 720-16328-1

**Login Number: 16328**
**List Source: TestAmerica San Francisco**
**Creator: Bullock, Tracy**
**List Number: 1**

| Question | T / F/ NA | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| The cooler's custody seal, if present, is intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | False | See Narrative |
| Cooler Temperature is acceptable. | False | See Narrative |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | See Narrative |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | False | See Narrative |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |

## C. November 4, 2008 (Sampling Event October 28, 2008)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

Job Number: 720-16651-1

Job Description: Western Forge Flange

For:
Chemical Data Management
6515 Trinity Court
Suite 201
Dublin, CA 94568-2665

Attention: Mr. James Carro

Approved for release.
Melissa Brewer
Project Manager I
11/4/2008 12:47 PM

Melissa Brewer
Project Manager I
melissa.brewer@testamericainc.com
11/04/2008

**Comments**
No additional comments.

**Receipt**
All samples were received in good condition within temperature requirements.

**Metals**
No analytical or quality issues were noted.

**Organic Prep**
No analytical or quality issues were noted.

# EXECUTIVE SUMMARY - Detections

Client: Chemical Data Management Job Number: 720-16651-1

| Lab Sample ID / Analyte | Client Sample ID | Result / Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|
| **720-16651-1** | **ELECTRICAL BOX A** | | | | |
| Cadmium | | 0.0052 | 0.0050 | mg/wipe | 6010B |
| Chromium | | 0.16 | 0.0050 | mg/wipe | 6010B |
| Nickel | | 2.2 | 0.0050 | mg/wipe | 6010B |
| Lead | | 0.052 | 0.0050 | mg/wipe | 6010B |
| Zinc | | 5.2 | 0.050 | mg/wipe | 6010B |
| **720-16651-3** | **HOIST A** | | | | |
| Chromium | | 0.36 | 0.0050 | mg/wipe | 6010B |
| Nickel | | 2.3 | 0.0050 | mg/wipe | 6010B |
| Lead | | 0.51 | 0.0050 | mg/wipe | 6010B |
| Zinc | | 1.8 | 0.0050 | mg/wipe | 6010B |
| **720-16651-5** | **RING ROLLER A** | | | | |
| Chromium | | 0.29 | 0.0050 | mg/wipe | 6010B |
| Nickel | | 3.0 | 0.050 | mg/wipe | 6010B |
| Lead | | 0.27 | 0.0050 | mg/wipe | 6010B |
| Zinc | | 0.60 | 0.0050 | mg/wipe | 6010B |

# METHOD SUMMARY

Client: Chemical Data Management Job Number: 720-16651-1

| Description | Lab Location | Method | Preparation Method |
|---|---|---|---|
| **Matrix: Wipe** | | | |
| Metals (ICP) | TAL SF | SW846 6010B | |
| Preparation, Metals | TAL SF | | SW846 3050B |
| HEM | TAL SF | SW846 9071B | |
| HEM | TAL SF | | SW846 9071B |

**Lab References:**

TAL SF = TestAmerica San Francisco

**Method References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

# SAMPLE SUMMARY

Client: Chemical Data Management Job Number: 720-16651-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---|---|---|---|---|
| 720-16651-1 | ELECTRICAL BOX A | Wipe | 10/28/2008 1430 | 10/28/2008 1600 |
| 720-16651-2 | ELECTRICAL BOX B | Wipe | 10/28/2008 1430 | 10/28/2008 1600 |
| 720-16651-3 | HOIST A | Wipe | 10/28/2008 1435 | 10/28/2008 1600 |
| 720-16651-4 | HOIST B | Wipe | 10/28/2008 1435 | 10/28/2008 1600 |
| 720-16651-5 | RING ROLLER A | Wipe | 10/28/2008 1445 | 10/28/2008 1600 |
| 720-16651-6 | RING ROLLER B | Wipe | 10/28/2008 1445 | 10/28/2008 1600 |
| 720-16651-7 | BLANK SAMPLE | Wipe | 10/28/2008 0000 | 10/28/2008 1600 |
| 720-16651-8 | BLANK SAMPLE | Wipe | 10/28/2008 0000 | 10/28/2008 1600 |

Client: Chemical Data Management

Job Number: 720-16651-1

**Client Sample ID: ELECTRICAL BOX A**

Lab Sample ID: 720-16651-1
Client Matrix: Wipe

Date Sampled: 10/28/2008 1430
Date Received: 10/28/2008 1600

**6010B Metals (ICP)**

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/04/2008 0951
Date Prepared: 11/03/2008 1105

Analysis Batch: 720-43345
Prep Batch: 720-43295

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 Wipe
Final Weight/Volume: 50 mL

| Analyte | Result (mg/wipe) | Qualifier | RL |
|---|---|---|---|
| Cadmium | 0.0052 | | 0.0050 |
| Chromium | 0.16 | | 0.0050 |
| Nickel | 2.2 | | 0.0050 |
| Lead | 0.052 | | 0.0050 |

Method: 6010B
Preparation: 3050B
Dilution: 10
Date Analyzed: 11/04/2008 1032
Date Prepared: 11/03/2008 1105

Analysis Batch: 720-43345
Prep Batch: 720-43295

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 Wipe
Final Weight/Volume: 50 mL

| Analyte | Result (mg/wipe) | Qualifier | RL |
|---|---|---|---|
| Zinc | 5.2 | | 0.050 |

Client: Chemical Data Management

Job Number: 720-16651-1

**Client Sample ID: HOIST A**

Lab Sample ID: 720-16651-3
Client Matrix: Wipe

Date Sampled: 10/28/2008 1435
Date Received: 10/28/2008 1600

**6010B Metals (ICP)**

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/04/2008 0955
Date Prepared: 11/03/2008 1105

Analysis Batch: 720-43345
Prep Batch: 720-43295

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 Wipe
Final Weight/Volume: 50 mL

| Analyte | Result (mg/wipe) | Qualifier | RL |
|---|---|---|---|
| Cadmium | ND | | 0.0050 |
| Chromium | 0.36 | | 0.0050 |
| Nickel | 2.3 | | 0.0050 |
| Lead | 0.51 | | 0.0050 |
| Zinc | 1.8 | | 0.0050 |

Client: Chemical Data Management

Job Number: 720-16651-1

**Client Sample ID: RING ROLLER A**

Lab Sample ID: 720-16651-5
Client Matrix: Wipe

Date Sampled: 10/28/2008 1445
Date Received: 10/28/2008 1600

**6010B Metals (ICP)**

| | | | |
|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-43345 | Instrument ID: Varian ICP |
| Preparation: | 3050B | Prep Batch: 720-43295 | Lab File ID: N/A |
| Dilution: | 1.0 | | Initial Weight/Volume: 1 Wipe |
| Date Analyzed: | 11/04/2008 0959 | | Final Weight/Volume: 50 mL |
| Date Prepared: | 11/03/2008 1105 | | |

| Analyte | Result (mg/wipe) | Qualifier | RL |
|---|---|---|---|
| Cadmium | ND | | 0.0050 |
| Chromium | 0.29 | | 0.0050 |
| Lead | 0.27 | | 0.0050 |
| Zinc | 0.60 | | 0.0050 |

| | | | |
|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-43345 | Instrument ID: Varian ICP |
| Preparation: | 3050B | Prep Batch: 720-43295 | Lab File ID: N/A |
| Dilution: | 10 | | Initial Weight/Volume: 1 Wipe |
| Date Analyzed: | 11/04/2008 1036 | | Final Weight/Volume: 50 mL |
| Date Prepared: | 11/03/2008 1105 | | |

| Analyte | Result (mg/wipe) | Qualifier | RL |
|---|---|---|---|
| Nickel | 3.0 | | 0.050 |

Client: Chemical Data Management

Job Number: 720-16651-1

**Client Sample ID: BLANK SAMPLE**

Lab Sample ID: 720-16651-8
Client Matrix: Wipe

Date Sampled: 10/28/2008 0000
Date Received: 10/28/2008 1600

**6010B Metals (ICP)**

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/04/2008 1002
Date Prepared: 11/03/2008 1105

Analysis Batch: 720-43345
Prep Batch: 720-43295

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 Wipe
Final Weight/Volume: 50 mL

| Analyte | Result (mg/wipe) | Qualifier | RL |
|---|---|---|---|
| Cadmium | ND | | 0.0050 |
| Chromium | ND | | 0.0050 |
| Nickel | ND | | 0.0050 |
| Lead | ND | | 0.0050 |
| Zinc | ND | | 0.0050 |

**General Chemistry**

**Client Sample ID: ELECTRICAL BOX B**

Lab Sample ID: 720-16651-2 Date Sampled: 10/28/2008 1430
Client Matrix: Wipe Date Received: 10/28/2008 1600

| Analyte | Result | Qual | Units | RL | Dil | Method |
|---|---|---|---|---|---|---|
| HEM | ND | | mg/wipe | 5.0 | 1.0 | 9071B |
| | Anly Batch: 720-43202 | | Date Analyzed 10/30/2008 1447 | | | |
| | Prep Batch: 720-43194 | | Date Prepared: 10/30/2008 1412 | | | |

**Client Sample ID: HOIST B**

Lab Sample ID: 720-16651-4 Date Sampled: 10/28/2008 1435
Client Matrix: Wipe Date Received: 10/28/2008 1600

| Analyte | Result | Qual | Units | RL | Dil | Method |
|---|---|---|---|---|---|---|
| HEM | ND | | mg/wipe | 5.0 | 1.0 | 9071B |
| | Anly Batch: 720-43202 | | Date Analyzed 10/30/2008 1447 | | | |
| | Prep Batch: 720-43194 | | Date Prepared: 10/30/2008 1412 | | | |

**Client Sample ID: RING ROLLER B**

Lab Sample ID: 720-16651-6 Date Sampled: 10/28/2008 1445
Client Matrix: Wipe Date Received: 10/28/2008 1600

| Analyte | Result | Qual | Units | RL | Dil | Method |
|---|---|---|---|---|---|---|
| HEM | ND | | mg/wipe | 5.0 | 1.0 | 9071B |
| | Anly Batch: 720-43202 | | Date Analyzed 10/30/2008 1447 | | | |
| | Prep Batch: 720-43194 | | Date Prepared: 10/30/2008 1412 | | | |

**Client Sample ID: BLANK SAMPLE**

Lab Sample ID: 720-16651-7 Date Sampled: 10/28/2008 0000
Client Matrix: Wipe Date Received: 10/28/2008 1600

| Analyte | Result | Qual | Units | RL | Dil | Method |
|---|---|---|---|---|---|---|
| HEM | ND | | mg/wipe | 5.0 | 1.0 | 9071B |
| | Anly Batch: 720-43202 | | Date Analyzed 10/30/2008 1447 | | | |
| | Prep Batch: 720-43194 | | Date Prepared: 10/30/2008 1412 | | | |

# DATA REPORTING QUALIFIERS

| Lab Section | Qualifier | Description |
|---|---|---|

Client: Chemical Data Management Job Number: 720-16651-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **Metals** | | | | | |
| **Prep Batch: 720-43295** | | | | | |
| LCS 720-43295/2-A | Lab Control Spike | T | Wipe | 3050B | |
| LCSD 720-43295/3-A | Lab Control Spike Duplicate | T | Wipe | 3050B | |
| MB 720-43295/1-A | Method Blank | T | Wipe | 3050B | |
| 720-16651-1 | ELECTRICAL BOX A | T | Wipe | 3050B | |
| 720-16651-3 | HOIST A | T | Wipe | 3050B | |
| 720-16651-5 | RING ROLLER A | T | Wipe | 3050B | |
| 720-16651-8 | BLANK SAMPLE | T | Wipe | 3050B | |
| **Analysis Batch:720-43345** | | | | | |
| LCS 720-43295/2-A | Lab Control Spike | T | Wipe | 6010B | 720-43295 |
| LCSD 720-43295/3-A | Lab Control Spike Duplicate | T | Wipe | 6010B | 720-43295 |
| MB 720-43295/1-A | Method Blank | T | Wipe | 6010B | 720-43295 |
| 720-16651-1 | ELECTRICAL BOX A | T | Wipe | 6010B | 720-43295 |
| 720-16651-3 | HOIST A | T | Wipe | 6010B | 720-43295 |
| 720-16651-5 | RING ROLLER A | T | Wipe | 6010B | 720-43295 |
| 720-16651-8 | BLANK SAMPLE | T | Wipe | 6010B | 720-43295 |

**Report Basis**
T = Total

| | | | | | |
|---|---|---|---|---|---|
| **General Chemistry** | | | | | |
| **Prep Batch: 720-43194** | | | | | |
| LCS 720-43194/2-A | Lab Control Spike | T | Wipe | 9071B | |
| LCSD 720-43194/3-A | Lab Control Spike Duplicate | T | Wipe | 9071B | |
| MB 720-43194/1-A | Method Blank | T | Wipe | 9071B | |
| 720-16651-2 | ELECTRICAL BOX B | T | Wipe | 9071B | |
| 720-16651-4 | HOIST B | T | Wipe | 9071B | |
| 720-16651-6 | RING ROLLER B | T | Wipe | 9071B | |
| 720-16651-7 | BLANK SAMPLE | T | Wipe | 9071B | |
| **Analysis Batch:720-43202** | | | | | |
| LCS 720-43194/2-A | Lab Control Spike | T | Wipe | 9071B | 720-43194 |
| LCSD 720-43194/3-A | Lab Control Spike Duplicate | T | Wipe | 9071B | 720-43194 |
| MB 720-43194/1-A | Method Blank | T | Wipe | 9071B | 720-43194 |
| 720-16651-2 | ELECTRICAL BOX B | T | Wipe | 9071B | 720-43194 |
| 720-16651-4 | HOIST B | T | Wipe | 9071B | 720-43194 |
| 720-16651-6 | RING ROLLER B | T | Wipe | 9071B | 720-43194 |
| 720-16651-7 | BLANK SAMPLE | T | Wipe | 9071B | 720-43194 |

**Report Basis**
T = Total

Client: Chemical Data Management

Job Number: 720-16651-1

**Method Blank - Batch: 720-43295**

**Method: 6010B**
**Preparation: 3050B**

Lab Sample ID: MB 720-43295/1-A
Client Matrix: Wipe
Dilution: 1.0
Date Analyzed: 11/04/2008 0940
Date Prepared: 11/03/2008 1105

Analysis Batch: 720-43345
Prep Batch: 720-43295
Units: mg/wipe

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 Wipe
Final Weight/Volume: 50 mL

| Analyte | Result | Qual | RL |
|---|---|---|---|
| Cadmium | ND | | 0.0050 |
| Chromium | ND | | 0.0050 |
| Nickel | ND | | 0.0050 |
| Lead | ND | | 0.0050 |
| Zinc | ND | | 0.0050 |

**Lab Control Spike/**
**Lab Control Spike Duplicate Recovery Report - Batch: 720-43295**

**Method: 6010B**
**Preparation: 3050B**

LCS Lab Sample ID: LCS 720-43295/2-A
Client Matrix: Wipe
Dilution: 1.0
Date Analyzed: 11/04/2008 0943
Date Prepared: 11/03/2008 1105

Analysis Batch: 720-43345
Prep Batch: 720-43295
Units: mg/wipe

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 Wipe
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-43295/3-A
Client Matrix: Wipe
Dilution: 1.0
Date Analyzed: 11/04/2008 0947
Date Prepared: 11/03/2008 1105

Analysis Batch: 720-43345
Prep Batch: 720-43295
Units: mg/wipe

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 Wipe
Final Weight/Volume: 50 mL

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | LCS | LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
| Cadmium | 98 | 98 | 80 - 120 | 0 | 20 | | |
| Chromium | 100 | 100 | 80 - 120 | 0 | 20 | | |
| Nickel | 98 | 98 | 80 - 120 | 0 | 20 | | |
| Lead | 99 | 99 | 80 - 120 | 0 | 20 | | |
| Zinc | 94 | 94 | 80 - 120 | 0 | 20 | | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Chemical Data Management

Job Number: 720-16651-1

**Method Blank - Batch: 720-43194**

**Method: 9071B**
**Preparation: 9071B**

Lab Sample ID: MB 720-43194/1-A
Client Matrix: Wipe
Dilution: 1.0
Date Analyzed: 10/30/2008 1447
Date Prepared: 10/30/2008 1412

Analysis Batch: 720-43202
Prep Batch: 720-43194
Units: mg/wipe

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 1 mL

| Analyte | Result | Qual | RL |
|---|---|---|---|
| HEM | ND | | 5.0 |

**Lab Control Spike/**
**Lab Control Spike Duplicate Recovery Report - Batch: 720-43194**

**Method: 9071B**
**Preparation: 9071B**

LCS Lab Sample ID: LCS 720-43194/2-A
Client Matrix: Wipe
Dilution: 1.0
Date Analyzed: 10/30/2008 1447
Date Prepared: 10/30/2008 1412

Analysis Batch: 720-43202
Prep Batch: 720-43194
Units: mg/wipe

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 1 mL

LCSD Lab Sample ID: LCSD 720-43194/3-A
Client Matrix: Wipe
Dilution: 1.0
Date Analyzed: 10/30/2008 1447
Date Prepared: 10/30/2008 1412

Analysis Batch: 720-43202
Prep Batch: 720-43194
Units: mg/wipe

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 1 mL

| Analyte | % Rec. LCS | % Rec. LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
|---|---|---|---|---|---|---|---|
| HEM | 94 | 94 | 70 - 120 | 0 | 25 | | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Login Sample Receipt Check List

Client: Chemical Data Management

Job Number: 720-16651-1

**Login Number: 16651**

**List Source: TestAmerica San Francisco**

**Creator: Bullock, Tracy**

**List Number: 1**

| Question | T / F/ NA | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| The cooler's custody seal, if present, is intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |

## D. November 24, 2008 (Sampling Event November 14, 2008)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

Job Number: 720-16931-1

Job Description: Western Forge, Albany

For:
Chemical Data Management
6515 Trinity Court
Suite 201
Dublin, CA 94568-2665

Attention: Mr. James Carro

Approved for release.
Melissa Brewer
Project Manager I
11/24/2008 9:19 AM

Melissa Brewer
Project Manager I
melissa.brewer@testamericainc.com
11/24/2008

**Comments**
C19-C36 = Hydraulic Oil

No additional comments.

**Receipt**
Hold analysis until Monday for client confirmation regarding Silica Gel Cleanup. Felicia confirmed that Silica Gel cleanup required on 11/17/08.

Water samples were logged in for Dissolved Metals and Dissolved TEPH, although the samples were received preserved with acid.

All other samples were received in good condition within temperature requirements.

**GC Semi VOA**
Method 8015B: Surrogate recovery for the following sample was outside control limits: W-101 (720-16931-19). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

**Metals**
No analytical or quality issues were noted.

**Organic Prep**
No analytical or quality issues were noted.

# EXECUTIVE SUMMARY - Detections

Client: Chemical Data Management Job Number: 720-16931-1

| Lab Sample ID / Analyte | Client Sample ID | Result / Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|
| **720-16931-1** | **SB-101 3'-4'** | | | | |
| Chromium | | 17 | 0.95 | mg/Kg | 6010B |
| Nickel | | 22 | 0.95 | mg/Kg | 6010B |
| Lead | | 12 | 0.95 | mg/Kg | 6010B |
| Zinc | | 26 | 0.95 | mg/Kg | 6010B |
| *Silica Gel Cleanup* | | | | | |
| Diesel Range Organics [C10-C28] | | 85 | 1.0 | mg/Kg | 8015B |
| Motor Oil Range Organics [C24-C36] | | 58 | 50 | mg/Kg | 8015B |
| C19-C36 | | 150 | 50 | mg/Kg | 8015B |
| **720-16931-2** | **SB-101 7'-8'** | | | | |
| Chromium | | 14 | 0.98 | mg/Kg | 6010B |
| Nickel | | 8.2 | 0.98 | mg/Kg | 6010B |
| Lead | | 5.2 | 0.98 | mg/Kg | 6010B |
| Zinc | | 9.4 | 0.98 | mg/Kg | 6010B |
| **720-16931-3** | **SB-101 11'-12'** | | | | |
| Chromium | | 8.8 | 0.95 | mg/Kg | 6010B |
| Nickel | | 10 | 0.95 | mg/Kg | 6010B |
| Lead | | 3.7 | 0.95 | mg/Kg | 6010B |
| Zinc | | 14 | 0.95 | mg/Kg | 6010B |
| **720-16931-4** | **SB-101 15'-16'** | | | | |
| Chromium | | 16 | 1.0 | mg/Kg | 6010B |
| Nickel | | 20 | 1.0 | mg/Kg | 6010B |
| Lead | | 6.2 | 1.0 | mg/Kg | 6010B |
| Zinc | | 23 | 1.0 | mg/Kg | 6010B |
| **720-16931-5** | **SB-102 3'-4'** | | | | |
| Chromium | | 45 | 1.0 | mg/Kg | 6010B |
| Nickel | | 60 | 1.0 | mg/Kg | 6010B |
| Lead | | 15 | 1.0 | mg/Kg | 6010B |
| Zinc | | 33 | 1.0 | mg/Kg | 6010B |

## EXECUTIVE SUMMARY - Detections

Client: Chemical Data Management Job Number: 720-16931-1

| Lab Sample ID / Analyte | Client Sample ID | Result / Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|
| **720-16931-6** | **SB-102 7'-8'** | | | | |
| Chromium | | 16 | 1.0 | mg/Kg | 6010B |
| Nickel | | 7.8 | 1.0 | mg/Kg | 6010B |
| Lead | | 110 | 1.0 | mg/Kg | 6010B |
| Zinc | | 70 | 1.0 | mg/Kg | 6010B |
| ***Silica Gel Cleanup*** | | | | | |
| Diesel Range Organics [C10-C28] | | 13 | 1.0 | mg/Kg | 8015B |
| C19-C36 | | 52 | 50 | mg/Kg | 8015B |
| **720-16931-7** | **SB-102 11'-12'** | | | | |
| Chromium | | 13 | 1.0 | mg/Kg | 6010B |
| Nickel | | 9.4 | 1.0 | mg/Kg | 6010B |
| Lead | | 5.0 | 1.0 | mg/Kg | 6010B |
| Zinc | | 13 | 1.0 | mg/Kg | 6010B |
| **720-16931-8** | **SB-102 15'-16'** | | | | |
| Chromium | | 11 | 0.96 | mg/Kg | 6010B |
| Nickel | | 15 | 0.96 | mg/Kg | 6010B |
| Lead | | 7.1 | 0.96 | mg/Kg | 6010B |
| Zinc | | 26 | 0.96 | mg/Kg | 6010B |
| ***Silica Gel Cleanup*** | | | | | |
| Diesel Range Organics [C10-C28] | | 4.9 | 0.99 | mg/Kg | 8015B |
| **720-16931-9** | **SB-103 3'-4'** | | | | |
| Chromium | | 67 | 1.1 | mg/Kg | 6010B |
| Nickel | | 85 | 1.1 | mg/Kg | 6010B |
| Lead | | 11 | 1.1 | mg/Kg | 6010B |
| Zinc | | 52 | 1.1 | mg/Kg | 6010B |
| ***Silica Gel Cleanup*** | | | | | |
| Diesel Range Organics [C10-C28] | | 46 | 2.0 | mg/Kg | 8015B |
| Motor Oil Range Organics [C24-C36] | | 180 | 99 | mg/Kg | 8015B |
| C19-C36 | | 210 | 99 | mg/Kg | 8015B |

## EXECUTIVE SUMMARY - Detections

Client: Chemical Data Management Job Number: 720-16931-1

| Lab Sample ID / Analyte | Client Sample ID | Result / Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|
| **720-16931-10** | **SB-103 7'-8'** | | | | |
| Chromium | | 18 | 1.0 | mg/Kg | 6010B |
| Nickel | | 9.7 | 1.0 | mg/Kg | 6010B |
| Lead | | 150 | 1.0 | mg/Kg | 6010B |
| Zinc | | 110 | 1.0 | mg/Kg | 6010B |
| ***Silica Gel Cleanup*** | | | | | |
| Diesel Range Organics [C10-C28] | | 23 | 1.0 | mg/Kg | 8015B |
| Motor Oil Range Organics [C24-C36] | | 94 | 50 | mg/Kg | 8015B |
| C19-C36 | | 110 | 50 | mg/Kg | 8015B |
| **720-16931-11** | **SB-103 11'-12'** | | | | |
| Chromium | | 18 | 0.96 | mg/Kg | 6010B |
| Nickel | | 23 | 0.96 | mg/Kg | 6010B |
| Lead | | 3.7 | 0.96 | mg/Kg | 6010B |
| Zinc | | 12 | 0.96 | mg/Kg | 6010B |
| **720-16931-12** | **SB-103 15'-16'** | | | | |
| Chromium | | 18 | 1.0 | mg/Kg | 6010B |
| Nickel | | 23 | 1.0 | mg/Kg | 6010B |
| Lead | | 3.9 | 1.0 | mg/Kg | 6010B |
| Zinc | | 12 | 1.0 | mg/Kg | 6010B |
| **720-16931-13** | **SB-111 0'-1'** | | | | |
| Chromium | | 37 | 1.0 | mg/Kg | 6010B |
| Nickel | | 180 | 1.0 | mg/Kg | 6010B |
| Lead | | 19 | 1.0 | mg/Kg | 6010B |
| Zinc | | 920 | 10 | mg/Kg | 6010B |
| ***Silica Gel Cleanup*** | | | | | |
| Diesel Range Organics [C10-C28] | | 68 | 0.99 | mg/Kg | 8015B |
| Motor Oil Range Organics [C24-C36] | | 310 | 49 | mg/Kg | 8015B |
| C19-C36 | | 360 | 49 | mg/Kg | 8015B |

# EXECUTIVE SUMMARY - Detections

Client: Chemical Data Management Job Number: 720-16931-1

| Lab Sample ID / Analyte | Client Sample ID | Result / Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|
| **720-16931-14** | **SB-111 3'-4'** | | | | |
| Chromium | | 50 | 0.99 | mg/Kg | 6010B |
| Nickel | | 69 | 0.99 | mg/Kg | 6010B |
| Lead | | 6.6 | 0.99 | mg/Kg | 6010B |
| Zinc | | 44 | 0.99 | mg/Kg | 6010B |
| ***Silica Gel Cleanup*** | | | | | |
| Diesel Range Organics [C10-C28] | | 8.6 | 0.98 | mg/Kg | 8015B |
| Motor Oil Range Organics [C24-C36] | | 55 | 49 | mg/Kg | 8015B |
| C19-C36 | | 60 | 49 | mg/Kg | 8015B |
| **720-16931-15** | **SB-111 5'-6'** | | | | |
| Chromium | | 26 | 0.97 | mg/Kg | 6010B |
| Nickel | | 21 | 0.97 | mg/Kg | 6010B |
| Lead | | 29 | 0.97 | mg/Kg | 6010B |
| Zinc | | 62 | 0.97 | mg/Kg | 6010B |
| ***Silica Gel Cleanup*** | | | | | |
| Diesel Range Organics [C10-C28] | | 3.6 | 0.99 | mg/Kg | 8015B |
| **720-16931-16** | **SB-111 7'-8'** | | | | |
| Chromium | | 15 | 1.0 | mg/Kg | 6010B |
| Nickel | | 12 | 1.0 | mg/Kg | 6010B |
| Lead | | 49 | 1.0 | mg/Kg | 6010B |
| Zinc | | 50 | 1.0 | mg/Kg | 6010B |
| ***Silica Gel Cleanup*** | | | | | |
| Diesel Range Organics [C10-C28] | | 23 | 1.0 | mg/Kg | 8015B |
| Motor Oil Range Organics [C24-C36] | | 70 | 50 | mg/Kg | 8015B |
| C19-C36 | | 87 | 50 | mg/Kg | 8015B |
| **720-16931-17** | **SB-111 9'-10'** | | | | |
| Chromium | | 14 | 1.0 | mg/Kg | 6010B |
| Nickel | | 8.8 | 1.0 | mg/Kg | 6010B |
| Lead | | 10 | 1.0 | mg/Kg | 6010B |
| Zinc | | 13 | 1.0 | mg/Kg | 6010B |

## EXECUTIVE SUMMARY - Detections

Client: Chemical Data Management Job Number: 720-16931-1

| Lab Sample ID / Analyte | Client Sample ID | Result / Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|
| **720-16931-18** | **SB-112 3'-4'** | | | | |
| Chromium | | 13 | 0.99 | mg/Kg | 6010B |
| Nickel | | 26 | 0.99 | mg/Kg | 6010B |
| Lead | | 13 | 0.99 | mg/Kg | 6010B |
| Zinc | | 29 | 0.99 | mg/Kg | 6010B |
| ***Silica Gel Cleanup*** | | | | | |
| Diesel Range Organics [C10-C28] | | 16 | 0.99 | mg/Kg | 8015B |
| Motor Oil Range Organics [C24-C36] | | 51 | 50 | mg/Kg | 8015B |
| C19-C36 | | 63 | 50 | mg/Kg | 8015B |
| **720-16931-19** | **W-101** | | | | |
| ***Dissolved*** | | | | | |
| Diesel Range Organics [C10-C28] | | 58 | 50 | ug/L | 8015B |
| Nickel | | 0.12 | 0.0050 | mg/L | 6010B |
| Lead | | 0.0065 | 0.0050 | mg/L | 6010B |
| Zinc | | 0.056 | 0.010 | mg/L | 6010B |
| **720-16931-20** | **W-102** | | | | |
| ***Dissolved*** | | | | | |
| Diesel Range Organics [C10-C28] | | 54 | 50 | ug/L | 8015B |
| Chromium | | 0.014 | 0.0050 | mg/L | 6010B |
| Nickel | | 0.14 | 0.0050 | mg/L | 6010B |
| Lead | | 0.77 | 0.0050 | mg/L | 6010B |
| Zinc | | 1.2 | 0.010 | mg/L | 6010B |
| **720-16931-21** | **W-103** | | | | |
| ***Dissolved*** | | | | | |
| Diesel Range Organics [C10-C28] | | 74 | 50 | ug/L | 8015B |
| Chromium | | 0.026 | 0.0050 | mg/L | 6010B |
| Nickel | | 0.38 | 0.0050 | mg/L | 6010B |
| Lead | | 0.061 | 0.0050 | mg/L | 6010B |
| Zinc | | 1.4 | 0.010 | mg/L | 6010B |
| **720-16931-22** | **W-111** | | | | |
| ***Dissolved*** | | | | | |
| Diesel Range Organics [C10-C28] | | 91 | 50 | ug/L | 8015B |
| Nickel | | 0.42 | 0.0050 | mg/L | 6010B |
| Zinc | | 8.4 | 0.010 | mg/L | 6010B |

## EXECUTIVE SUMMARY - Detections

Client: Chemical Data Management Job Number: 720-16931-1

| Lab Sample ID / Analyte | Client Sample ID | Result / Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|
| **720-16931-23** | **SB-112 7'-8'** | | | | |
| Chromium | | 70 | 0.96 | mg/Kg | 6010B |
| Nickel | | 86 | 0.96 | mg/Kg | 6010B |
| Lead | | 7.7 | 0.96 | mg/Kg | 6010B |
| Zinc | | 42 | 0.96 | mg/Kg | 6010B |
| ***Silica Gel Cleanup*** | | | | | |
| Diesel Range Organics [C10-C28] | | 2.2 | 1.0 | mg/Kg | 8015B |

# METHOD SUMMARY

Client: Chemical Data Management | Job Number: 720-16931-1

| Description | Lab Location | Method | Preparation Method |
|---|---|---|---|
| **Matrix: Solid** | | | |
| Diesel Range Organics (DRO) (GC) | TAL SF | SW846 8015B | |
| Ultrasonic Extraction | TAL SF | | SW846 3550B |
| Metals (ICP) | TAL SF | SW846 6010B | |
| Preparation, Metals | TAL SF | | SW846 3050B |
| **Matrix: Water** | | | |
| Diesel Range Organics (DRO) (GC) | TAL SF | SW846 8015B | |
| Sample Filtration | TAL SF | | FILTRATION |
| Liquid-Liquid Extraction (Separatory Funnel) | TAL SF | | SW846 3510C SGC |
| Metals (ICP) | TAL SF | SW846 6010B | |
| Sample Filtration | TAL SF | | FILTRATION |
| Preparation, Soluble | TAL SF | | Soluble Metals |

**Lab References:**

TAL SF = TestAmerica San Francisco

**Method References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

# SAMPLE SUMMARY

Client: Chemical Data Management Job Number: 720-16931-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---|---|---|---|---|
| 720-16931-1 | SB-101 3'-4' | Solid | 11/14/2008 1200 | 11/14/2008 1735 |
| 720-16931-2 | SB-101 7'-8' | Solid | 11/14/2008 1200 | 11/14/2008 1735 |
| 720-16931-3 | SB-101 11'-12' | Solid | 11/14/2008 1200 | 11/14/2008 1735 |
| 720-16931-4 | SB-101 15'-16' | Solid | 11/14/2008 1200 | 11/14/2008 1735 |
| 720-16931-5 | SB-102 3'-4' | Solid | 11/14/2008 1250 | 11/14/2008 1735 |
| 720-16931-6 | SB-102 7'-8' | Solid | 11/14/2008 1250 | 11/14/2008 1735 |
| 720-16931-7 | SB-102 11'-12' | Solid | 11/14/2008 1250 | 11/14/2008 1735 |
| 720-16931-8 | SB-102 15'-16' | Solid | 11/14/2008 1250 | 11/14/2008 1735 |
| 720-16931-9 | SB-103 3'-4' | Solid | 11/14/2008 1400 | 11/14/2008 1735 |
| 720-16931-10 | SB-103 7'-8' | Solid | 11/14/2008 1400 | 11/14/2008 1735 |
| 720-16931-11 | SB-103 11'-12' | Solid | 11/14/2008 1400 | 11/14/2008 1735 |
| 720-16931-12 | SB-103 15'-16' | Solid | 11/14/2008 1400 | 11/14/2008 1735 |
| 720-16931-13 | SB-111 0'-1' | Solid | 11/14/2008 1510 | 11/14/2008 1735 |
| 720-16931-14 | SB-111 3'-4' | Solid | 11/14/2008 1510 | 11/14/2008 1735 |
| 720-16931-15 | SB-111 5'-6' | Solid | 11/14/2008 1510 | 11/14/2008 1735 |
| 720-16931-16 | SB-111 7'-8' | Solid | 11/14/2008 1510 | 11/14/2008 1735 |
| 720-16931-17 | SB-111 9'-10' | Solid | 11/14/2008 1510 | 11/14/2008 1735 |
| 720-16931-18 | SB-112 3'-4' | Solid | 11/14/2008 1555 | 11/14/2008 1735 |
| 720-16931-19 | W-101 | Water | 11/14/2008 1200 | 11/14/2008 1735 |
| 720-16931-20 | W-102 | Water | 11/14/2008 1250 | 11/14/2008 1735 |
| 720-16931-21 | W-103 | Water | 11/14/2008 1445 | 11/14/2008 1735 |
| 720-16931-22 | W-111 | Water | 11/14/2008 1545 | 11/14/2008 1735 |
| 720-16931-23 | SB-112 7'-8' | Solid | 11/14/2008 1555 | 11/14/2008 1735 |

Client: Chemical Data Management | Job Number: 720-16931-1

**Client Sample ID: SB-101 3'-4'**

Lab Sample ID: 720-16931-1 | Date Sampled: 11/14/2008 1200
Client Matrix: Solid | Date Received: 11/14/2008 1735

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B | Analysis Batch: 720-44103 | Instrument ID: HP DRO5
Preparation: 3550B | Prep Batch: 720-43962 | Lab File ID: N/A
Dilution: 1.0 | Initial Weight/Volume: 30.03 g
Date Analyzed: 11/19/2008 1113 | Final Weight/Volume: 5 mL
Date Prepared: 11/18/2008 1212 | Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 85 | | 1.0 |
| Motor Oil Range Organics [C24-C36] | | 58 | | 50 |
| C19-C36 | | 150 | | 50 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 1 | 0 - 5 |
| p-Terphenyl | 70 | 41 - 105 |

Client: Chemical Data Management | Job Number: 720-16931-1

**Client Sample ID: SB-101 7'-8'**

Lab Sample ID: 720-16931-2 | Date Sampled: 11/14/2008 1200
Client Matrix: Solid | Date Received: 11/14/2008 1735

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B | Analysis Batch: 720-44103 | Instrument ID: HP DRO5
Preparation: 3550B | Prep Batch: 720-43962 | Lab File ID: N/A
Dilution: 1.0 | Initial Weight/Volume: 30.41 g
Date Analyzed: 11/19/2008 1139 | Final Weight/Volume: 5 mL
Date Prepared: 11/18/2008 1212 | Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | ND | | 0.99 |
| Motor Oil Range Organics [C24-C36] | | ND | | 49 |
| C19-C36 | | ND | | 49 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 77 | 41 - 105 |

Client: Chemical Data Management | Job Number: 720-16931-1

**Client Sample ID: SB-101 11'-12'**

Lab Sample ID: 720-16931-3 | Date Sampled: 11/14/2008 1200
Client Matrix: Solid | Date Received: 11/14/2008 1735

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B | Analysis Batch: 720-44103 | Instrument ID: HP DRO5
Preparation: 3550B | Prep Batch: 720-43962 | Lab File ID: N/A
Dilution: 1.0 | Initial Weight/Volume: 30.12 g
Date Analyzed: 11/19/2008 1206 | Final Weight/Volume: 5 mL
Date Prepared: 11/18/2008 1212 | Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | ND | | 1.0 |
| Motor Oil Range Organics [C24-C36] | | ND | | 50 |
| C19-C36 | | ND | | 50 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 83 | 41 - 105 |

Client: Chemical Data Management | Job Number: 720-16931-1

**Client Sample ID: SB-101 15'-16'**

Lab Sample ID: 720-16931-4 | Date Sampled: 11/14/2008 1200
Client Matrix: Solid | Date Received: 11/14/2008 1735

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B | Analysis Batch: 720-44103 | Instrument ID: HP DRO5
Preparation: 3550B | Prep Batch: 720-43962 | Lab File ID: N/A
Dilution: 1.0 | Initial Weight/Volume: 30.08 g
Date Analyzed: 11/19/2008 1233 | Final Weight/Volume: 5 mL
Date Prepared: 11/18/2008 1212 | Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | ND | | 1.0 |
| Motor Oil Range Organics [C24-C36] | | ND | | 50 |
| C19-C36 | | ND | | 50 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 86 | 41 - 105 |

Client: Chemical Data Management

Job Number: 720-16931-1

**Client Sample ID: SB-102 3'-4'**

Lab Sample ID: 720-16931-5
Client Matrix: Solid

Date Sampled: 11/14/2008 1250
Date Received: 11/14/2008 1735

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/19/2008 1300
Date Prepared: 11/18/2008 1212

Analysis Batch: 720-44103
Prep Batch: 720-43962

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.07 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | ND | | 1.0 |
| Motor Oil Range Organics [C24-C36] | | ND | | 50 |
| C19-C36 | | ND | | 50 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 72 | 41 - 105 |

Client: Chemical Data Management

Job Number: 720-16931-1

**Client Sample ID:** **SB-102 7'-8'**

Lab Sample ID: 720-16931-6
Client Matrix: Solid

Date Sampled: 11/14/2008 1250
Date Received: 11/14/2008 1735

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/19/2008 1327
Date Prepared: 11/18/2008 1212

Analysis Batch: 720-44103
Prep Batch: 720-43962

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.02 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 13 | | 1.0 |
| Motor Oil Range Organics [C24-C36] | | ND | | 50 |
| C19-C36 | | 52 | | 50 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 79 | 41 - 105 |

Client: Chemical Data Management | Job Number: 720-16931-1

**Client Sample ID: SB-102 11'-12'**

Lab Sample ID: 720-16931-7 | Date Sampled: 11/14/2008 1250
Client Matrix: Solid | Date Received: 11/14/2008 1735

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B | Analysis Batch: 720-44103 | Instrument ID: HP DRO5
Preparation: 3550B | Prep Batch: 720-43962 | Lab File ID: N/A
Dilution: 1.0 | Initial Weight/Volume: 30.24 g
Date Analyzed: 11/19/2008 1354 | Final Weight/Volume: 5 mL
Date Prepared: 11/18/2008 1212 | Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | ND | | 0.99 |
| Motor Oil Range Organics [C24-C36] | | ND | | 50 |
| C19-C36 | | ND | | 50 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 85 | 41 - 105 |

Client: Chemical Data Management | Job Number: 720-16931-1

**Client Sample ID: SB-102 15'-16'**

Lab Sample ID: 720-16931-8 | Date Sampled: 11/14/2008 1250
Client Matrix: Solid | Date Received: 11/14/2008 1735

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B | Analysis Batch: 720-44103 | Instrument ID: HP DRO5
Preparation: 3550B | Prep Batch: 720-43962 | Lab File ID: N/A
Dilution: 1.0 | Initial Weight/Volume: 30.39 g
Date Analyzed: 11/19/2008 2038 | Final Weight/Volume: 5 mL
Date Prepared: 11/18/2008 1212 | Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 4.9 | | 0.99 |
| Motor Oil Range Organics [C24-C36] | | ND | | 49 |
| C19-C36 | | ND | | 49 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 88 | 41 - 105 |

Client: Chemical Data Management | Job Number: 720-16931-1

**Client Sample ID: SB-103 3'-4'**

Lab Sample ID: 720-16931-9 | Date Sampled: 11/14/2008 1400
Client Matrix: Solid | Date Received: 11/14/2008 1735

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B | Analysis Batch: 720-44103 | Instrument ID: HP DRO5
Preparation: 3550B | Prep Batch: 720-43962 | Lab File ID: N/A
Dilution: 2.0 | Initial Weight/Volume: 30.43 g
Date Analyzed: 11/19/2008 0925 | Final Weight/Volume: 5 mL
Date Prepared: 11/18/2008 1212 | Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 46 | | 2.0 |
| Motor Oil Range Organics [C24-C36] | | 180 | | 99 |
| C19-C36 | | 210 | | 99 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 73 | 41 - 105 |

Client: Chemical Data Management

Job Number: 720-16931-1

**Client Sample ID: SB-103 7'-8'**

Lab Sample ID: 720-16931-10
Client Matrix: Solid

Date Sampled: 11/14/2008 1400
Date Received: 11/14/2008 1735

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/19/2008 1728
Date Prepared: 11/18/2008 1212

Analysis Batch: 720-44103
Prep Batch: 720-43962

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.11 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 23 | | 1.0 |
| Motor Oil Range Organics [C24-C36] | | 94 | | 50 |
| C19-C36 | | 110 | | 50 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 77 | 41 - 105 |

Client: Chemical Data Management | Job Number: 720-16931-1

**Client Sample ID: SB-103 11'-12'**

Lab Sample ID: 720-16931-11 | Date Sampled: 11/14/2008 1400
Client Matrix: Solid | Date Received: 11/14/2008 1735

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B | Analysis Batch: 720-44103 | Instrument ID: HP DRO5
Preparation: 3550B | Prep Batch: 720-43962 | Lab File ID: N/A
Dilution: 1.0 | Initial Weight/Volume: 30.27 g
Date Analyzed: 11/19/2008 2105 | Final Weight/Volume: 5 mL
Date Prepared: 11/18/2008 1212 | Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | ND | | 0.99 |
| Motor Oil Range Organics [C24-C36] | | ND | | 50 |
| C19-C36 | | ND | | 50 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 80 | 41 - 105 |

Client: Chemical Data Management

Job Number: 720-16931-1

**Client Sample ID: SB-103 15'-16'**

Lab Sample ID: 720-16931-12
Client Matrix: Solid

Date Sampled: 11/14/2008 1400
Date Received: 11/14/2008 1735

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/19/2008 2132
Date Prepared: 11/18/2008 1212

Analysis Batch: 720-44103
Prep Batch: 720-43962

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.22 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | ND | | 0.99 |
| Motor Oil Range Organics [C24-C36] | | ND | | 50 |
| C19-C36 | | ND | | 50 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 86 | 41 - 105 |

Client: Chemical Data Management | Job Number: 720-16931-1

**Client Sample ID: SB-111 0'-1'**

Lab Sample ID: 720-16931-13 | Date Sampled: 11/14/2008 1510
Client Matrix: Solid | Date Received: 11/14/2008 1735

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B | Analysis Batch: 720-44103 | Instrument ID: HP DRO5
Preparation: 3550B | Prep Batch: 720-43962 | Lab File ID: N/A
Dilution: 1.0 | Initial Weight/Volume: 30.42 g
Date Analyzed: 11/19/2008 1635 | Final Weight/Volume: 5 mL
Date Prepared: 11/18/2008 1212 | Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 68 | | 0.99 |
| Motor Oil Range Organics [C24-C36] | | 310 | | 49 |
| C19-C36 | | 360 | | 49 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 1 | 0 - 5 |
| p-Terphenyl | 77 | 41 - 105 |

Client: Chemical Data Management | Job Number: 720-16931-1

**Client Sample ID: SB-111 3'-4'**

Lab Sample ID: 720-16931-14 | Date Sampled: 11/14/2008 1510
Client Matrix: Solid | Date Received: 11/14/2008 1735

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 720-44103 | | Instrument ID: | HP DRO5 |
| Preparation: | 3550B | Prep Batch: 720-43962 | | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.48 g |
| Date Analyzed: | 11/19/2008 1755 | | | Final Weight/Volume: | 5 mL |
| Date Prepared: | 11/18/2008 1212 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 8.6 | | 0.98 |
| Motor Oil Range Organics [C24-C36] | | 55 | | 49 |
| C19-C36 | | 60 | | 49 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 81 | 41 - 105 |

Client: Chemical Data Management | Job Number: 720-16931-1

**Client Sample ID: SB-111 5'-6'**

Lab Sample ID: 720-16931-15 | Date Sampled: 11/14/2008 1510
Client Matrix: Solid | Date Received: 11/14/2008 1735

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B | Analysis Batch: 720-44103 | Instrument ID: HP DRO5
Preparation: 3550B | Prep Batch: 720-43962 | Lab File ID: N/A
Dilution: 1.0 | Initial Weight/Volume: 30.44 g
Date Analyzed: 11/19/2008 1822 | Final Weight/Volume: 5 mL
Date Prepared: 11/18/2008 1212 | Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 3.6 | | 0.99 |
| Motor Oil Range Organics [C24-C36] | | ND | | 49 |
| C19-C36 | | ND | | 49 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 78 | 41 - 105 |

Client: Chemical Data Management | Job Number: 720-16931-1

**Client Sample ID:** **SB-111 7'-8'**

Lab Sample ID: 720-16931-16 | Date Sampled: 11/14/2008 1510
Client Matrix: Solid | Date Received: 11/14/2008 1735

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B | Analysis Batch: 720-44103 | Instrument ID: HP DRO5
Preparation: 3550B | Prep Batch: 720-43962 | Lab File ID: N/A
Dilution: 1.0 | Initial Weight/Volume: 30.05 g
Date Analyzed: 11/19/2008 1849 | Final Weight/Volume: 5 mL
Date Prepared: 11/18/2008 1212 | Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 23 | | 1.0 |
| Motor Oil Range Organics [C24-C36] | | 70 | | 50 |
| C19-C36 | | 87 | | 50 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 84 | 41 - 105 |

Client: Chemical Data Management | Job Number: 720-16931-1

**Client Sample ID: SB-111 9'-10'**

Lab Sample ID: 720-16931-17 | Date Sampled: 11/14/2008 1510
Client Matrix: Solid | Date Received: 11/14/2008 1735

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B | Analysis Batch: 720-44103 | Instrument ID: HP DRO5
Preparation: 3550B | Prep Batch: 720-43962 | Lab File ID: N/A
Dilution: 1.0 | Initial Weight/Volume: 30.39 g
Date Analyzed: 11/19/2008 2159 | Final Weight/Volume: 5 mL
Date Prepared: 11/18/2008 1212 | Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | ND | | 0.99 |
| Motor Oil Range Organics [C24-C36] | | ND | | 49 |
| C19-C36 | | ND | | 49 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 79 | 41 - 105 |

Client: Chemical Data Management | Job Number: 720-16931-1

**Client Sample ID:** **SB-112 3'-4'**

Lab Sample ID: 720-16931-18 | Date Sampled: 11/14/2008 1555
Client Matrix: Solid | Date Received: 11/14/2008 1735

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B | Analysis Batch: 720-44103 | Instrument ID: HP DRO5
Preparation: 3550B | Prep Batch: 720-43962 | Lab File ID: N/A
Dilution: 1.0 | Initial Weight/Volume: 30.24 g
Date Analyzed: 11/19/2008 1916 | Final Weight/Volume: 5 mL
Date Prepared: 11/18/2008 1212 | Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 16 | | 0.99 |
| Motor Oil Range Organics [C24-C36] | | 51 | | 50 |
| C19-C36 | | 63 | | 50 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 69 | 41 - 105 |

Client: Chemical Data Management

Job Number: 720-16931-1

**Client Sample ID: W-101**

Lab Sample ID: 720-16931-19
Client Matrix: Water

Date Sampled: 11/14/2008 1200
Date Received: 11/14/2008 1735

**8015B Diesel Range Organics (DRO) (GC)-Dissolved**

Method: 8015B
Preparation: 3510C SGC
Dilution: 1.0
Date Analyzed: 11/20/2008 1921
Date Prepared: 11/17/2008 1744

Analysis Batch: 720-44141
Prep Batch: 720-43948

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Diesel Range Organics [C10-C28] | 58 | | 50 |
| Motor Oil Range Organics [C24-C36] | ND | | 500 |
| C19-C36 | ND | | 500 |

| Surrogate | %Rec | | Acceptance Limits |
|---|---|---|---|
| Capric Acid (Surr) | 0 | | 0 - 5 |
| p-Terphenyl | 44 | X | 46 - 114 |

Client: Chemical Data Management

Job Number: 720-16931-1

**Client Sample ID: W-102**

Lab Sample ID: 720-16931-20
Client Matrix: Water

Date Sampled: 11/14/2008 1250
Date Received: 11/14/2008 1735

**8015B Diesel Range Organics (DRO) (GC)-Dissolved**

Method: 8015B
Preparation: 3510C SGC
Dilution: 1.0
Date Analyzed: 11/20/2008 1948
Date Prepared: 11/17/2008 1744

Analysis Batch: 720-44141
Prep Batch: 720-43948

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Diesel Range Organics [C10-C28] | 54 | | 50 |
| Motor Oil Range Organics [C24-C36] | ND | | 500 |
| C19-C36 | ND | | 500 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 63 | 46 - 114 |

Client: Chemical Data Management

Job Number: 720-16931-1

**Client Sample ID: W-103**

Lab Sample ID: 720-16931-21
Client Matrix: Water

Date Sampled: 11/14/2008 1445
Date Received: 11/14/2008 1735

**8015B Diesel Range Organics (DRO) (GC)-Dissolved**

Method: 8015B
Preparation: 3510C SGC
Dilution: 1.0
Date Analyzed: 11/20/2008 2015
Date Prepared: 11/17/2008 1744

Analysis Batch: 720-44141
Prep Batch: 720-43948

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Diesel Range Organics [C10-C28] | 74 | | 50 |
| Motor Oil Range Organics [C24-C36] | ND | | 500 |
| C19-C36 | ND | | 500 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 47 | 46 - 114 |

Client: Chemical Data Management

Job Number: 720-16931-1

**Client Sample ID: W-111**

Lab Sample ID: 720-16931-22
Client Matrix: Water

Date Sampled: 11/14/2008 1545
Date Received: 11/14/2008 1735

**8015B Diesel Range Organics (DRO) (GC)-Dissolved**

Method: 8015B
Preparation: 3510C SGC
Dilution: 1.0
Date Analyzed: 11/20/2008 2042
Date Prepared: 11/17/2008 1744

Analysis Batch: 720-44141
Prep Batch: 720-43948

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Diesel Range Organics [C10-C28] | 91 | | 50 |
| Motor Oil Range Organics [C24-C36] | ND | | 500 |
| C19-C36 | ND | | 500 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 50 | 46 - 114 |

Client: Chemical Data Management

Job Number: 720-16931-1

**Client Sample ID:** **SB-112 7'-8'**

Lab Sample ID: 720-16931-23
Client Matrix: Solid

Date Sampled: 11/14/2008 1555
Date Received: 11/14/2008 1735

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/19/2008 1943
Date Prepared: 11/18/2008 1212

Analysis Batch: 720-44103
Prep Batch: 720-43962

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.04 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 2.2 | | 1.0 |
| Motor Oil Range Organics [C24-C36] | | ND | | 50 |
| C19-C36 | | ND | | 50 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 79 | 41 - 105 |

Client: Chemical Data Management

Job Number: 720-16931-1

**Client Sample ID: SB-101 3'-4'**

Lab Sample ID: 720-16931-1
Client Matrix: Solid

Date Sampled: 11/14/2008 1200
Date Received: 11/14/2008 1735

**6010B Metals (ICP)**

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/19/2008 1330
Date Prepared: 11/18/2008 0922

Analysis Batch: 720-44062
Prep Batch: 720-43961

Instrument ID: Thermo 6500 ICP
Lab File ID: N/A
Initial Weight/Volume: 1.05 g
Final Weight/Volume: 50 mL

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.48 |
| Chromium | | 17 | | 0.95 |
| Nickel | | 22 | | 0.95 |
| Lead | | 12 | | 0.95 |
| Zinc | | 26 | | 0.95 |

Client: Chemical Data Management

Job Number: 720-16931-1

**Client Sample ID: SB-101 7'-8'**

Lab Sample ID: 720-16931-2
Client Matrix: Solid

Date Sampled: 11/14/2008 1200
Date Received: 11/14/2008 1735

**6010B Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-44062 | | Instrument ID: | Thermo 6500 ICP |
| Preparation: | 3050B | Prep Batch: 720-43961 | | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.02 g |
| Date Analyzed: | 11/19/2008 1333 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/18/2008 0922 | | | | |

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.49 |
| Chromium | | 14 | | 0.98 |
| Nickel | | 8.2 | | 0.98 |
| Lead | | 5.2 | | 0.98 |
| Zinc | | 9.4 | | 0.98 |

Client: Chemical Data Management

Job Number: 720-16931-1

**Client Sample ID: SB-101 11'-12'**

Lab Sample ID: 720-16931-3
Client Matrix: Solid

Date Sampled: 11/14/2008 1200
Date Received: 11/14/2008 1735

**6010B Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-44062 | | Instrument ID: | Thermo 6500 ICP |
| Preparation: | 3050B | Prep Batch: 720-43961 | | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.05 g |
| Date Analyzed: | 11/19/2008 1337 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/18/2008 0922 | | | | |

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.48 |
| Chromium | | 8.8 | | 0.95 |
| Nickel | | 10 | | 0.95 |
| Lead | | 3.7 | | 0.95 |
| Zinc | | 14 | | 0.95 |

Client: Chemical Data Management

Job Number: 720-16931-1

**Client Sample ID: SB-101 15'-16'**

Lab Sample ID: 720-16931-4
Client Matrix: Solid

Date Sampled: 11/14/2008 1200
Date Received: 11/14/2008 1735

**6010B Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-44062 | | Instrument ID: | Thermo 6500 ICP |
| Preparation: | 3050B | Prep Batch: 720-43961 | | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | .97 g |
| Date Analyzed: | 11/19/2008 1340 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/18/2008 0922 | | | | |

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.52 |
| Chromium | | 16 | | 1.0 |
| Nickel | | 20 | | 1.0 |
| Lead | | 6.2 | | 1.0 |
| Zinc | | 23 | | 1.0 |

Client: Chemical Data Management

Job Number: 720-16931-1

**Client Sample ID: SB-102 3'-4'**

Lab Sample ID: 720-16931-5
Client Matrix: Solid

Date Sampled: 11/14/2008 1250
Date Received: 11/14/2008 1735

**6010B Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-44062 | | Instrument ID: | Thermo 6500 ICP |
| Preparation: | 3050B | Prep Batch: 720-43961 | | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | .99 g |
| Date Analyzed: | 11/19/2008 1343 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/18/2008 0922 | | | | |

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.51 |
| Chromium | | 45 | | 1.0 |
| Nickel | | 60 | | 1.0 |
| Lead | | 15 | | 1.0 |
| Zinc | | 33 | | 1.0 |

Client: Chemical Data Management

Job Number: 720-16931-1

**Client Sample ID: SB-102 7'-8'**

Lab Sample ID: 720-16931-6
Client Matrix: Solid

Date Sampled: 11/14/2008 1250
Date Received: 11/14/2008 1735

**6010B Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-44062 | | Instrument ID: | Thermo 6500 ICP |
| Preparation: | 3050B | Prep Batch: 720-43961 | | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.00 g |
| Date Analyzed: | 11/19/2008 1347 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/18/2008 0922 | | | | |

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.50 |
| Chromium | | 16 | | 1.0 |
| Nickel | | 7.8 | | 1.0 |
| Lead | | 110 | | 1.0 |
| Zinc | | 70 | | 1.0 |

Client: Chemical Data Management

Job Number: 720-16931-1

**Client Sample ID: SB-102 11'-12'**

Lab Sample ID: 720-16931-7
Client Matrix: Solid

Date Sampled: 11/14/2008 1250
Date Received: 11/14/2008 1735

**6010B Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-44062 | | Instrument ID: | Thermo 6500 ICP |
| Preparation: | 3050B | Prep Batch: 720-43961 | | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.00 g |
| Date Analyzed: | 11/19/2008 1351 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/18/2008 0922 | | | | |

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.50 |
| Chromium | | 13 | | 1.0 |
| Nickel | | 9.4 | | 1.0 |
| Lead | | 5.0 | | 1.0 |
| Zinc | | 13 | | 1.0 |

Client: Chemical Data Management

Job Number: 720-16931-1

**Client Sample ID: SB-102 15'-16'**

Lab Sample ID: 720-16931-8
Client Matrix: Solid

Date Sampled: 11/14/2008 1250
Date Received: 11/14/2008 1735

**6010B Metals (ICP)**

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/19/2008 1354
Date Prepared: 11/18/2008 0922

Analysis Batch: 720-44062
Prep Batch: 720-43961

Instrument ID: Thermo 6500 ICP
Lab File ID: N/A
Initial Weight/Volume: 1.04 g
Final Weight/Volume: 50 mL

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.48 |
| Chromium | | 11 | | 0.96 |
| Nickel | | 15 | | 0.96 |
| Lead | | 7.1 | | 0.96 |
| Zinc | | 26 | | 0.96 |

Client: Chemical Data Management

Job Number: 720-16931-1

**Client Sample ID: SB-103 3'-4'**

Lab Sample ID: 720-16931-9
Client Matrix: Solid

Date Sampled: 11/14/2008 1400
Date Received: 11/14/2008 1735

**6010B Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-44062 | | Instrument ID: | Thermo 6500 ICP |
| Preparation: | 3050B | Prep Batch: 720-43961 | | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | .95 g |
| Date Analyzed: | 11/19/2008 1357 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/18/2008 0922 | | | | |

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.53 |
| Chromium | | 67 | | 1.1 |
| Nickel | | 85 | | 1.1 |
| Lead | | 11 | | 1.1 |
| Zinc | | 52 | | 1.1 |

Client: Chemical Data Management

Job Number: 720-16931-1

**Client Sample ID: SB-103 7'-8'**

Lab Sample ID: 720-16931-10
Client Matrix: Solid

Date Sampled: 11/14/2008 1400
Date Received: 11/14/2008 1735

**6010B Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-44062 | | Instrument ID: | Thermo 6500 ICP |
| Preparation: | 3050B | Prep Batch: 720-43961 | | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | .96 g |
| Date Analyzed: | 11/19/2008 1412 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/18/2008 0922 | | | | |

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.52 |
| Chromium | | 18 | | 1.0 |
| Nickel | | 9.7 | | 1.0 |
| Lead | | 150 | | 1.0 |
| Zinc | | 110 | | 1.0 |

Client: Chemical Data Management

Job Number: 720-16931-1

**Client Sample ID: SB-103 11'-12'**

Lab Sample ID: 720-16931-11
Client Matrix: Solid

Date Sampled: 11/14/2008 1400
Date Received: 11/14/2008 1735

**6010B Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-44062 | | Instrument ID: | Thermo 6500 ICP |
| Preparation: | 3050B | Prep Batch: 720-43961 | | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.04 g |
| Date Analyzed: | 11/19/2008 1415 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/18/2008 0922 | | | | |

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.48 |
| Chromium | | 18 | | 0.96 |
| Nickel | | 23 | | 0.96 |
| Lead | | 3.7 | | 0.96 |
| Zinc | | 12 | | 0.96 |

Client: Chemical Data Management

Job Number: 720-16931-1

**Client Sample ID: SB-103 15'-16'**

Lab Sample ID: 720-16931-12
Client Matrix: Solid

Date Sampled: 11/14/2008 1400
Date Received: 11/14/2008 1735

**6010B Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-44062 | | Instrument ID: | Thermo 6500 ICP |
| Preparation: | 3050B | Prep Batch: 720-43961 | | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.00 g |
| Date Analyzed: | 11/19/2008 1419 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/18/2008 0922 | | | | |

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.50 |
| Chromium | | 18 | | 1.0 |
| Nickel | | 23 | | 1.0 |
| Lead | | 3.9 | | 1.0 |
| Zinc | | 12 | | 1.0 |

Client: Chemical Data Management

Job Number: 720-16931-1

**Client Sample ID: SB-111 0'-1'**

Lab Sample ID: 720-16931-13
Client Matrix: Solid

Date Sampled: 11/14/2008 1510
Date Received: 11/14/2008 1735

**6010B Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-44062 | | Instrument ID: | Thermo 6500 ICP |
| Preparation: | 3050B | Prep Batch: 720-43961 | | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | .96 g |
| Date Analyzed: | 11/19/2008 1422 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/18/2008 0922 | | | | |

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.52 |
| Chromium | | 37 | | 1.0 |
| Nickel | | 180 | | 1.0 |
| Lead | | 19 | | 1.0 |

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-44130 | | Instrument ID: | Thermo 6500 ICP |
| Preparation: | 3050B | Prep Batch: 720-43961 | | Lab File ID: | N/A |
| Dilution: | 10 | | | Initial Weight/Volume: | .96 g |
| Date Analyzed: | 11/21/2008 0921 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/18/2008 0922 | | | | |

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Zinc | | 920 | | 10 |

Client: Chemical Data Management

Job Number: 720-16931-1

**Client Sample ID: SB-111 3'-4'**

Lab Sample ID: 720-16931-14
Client Matrix: Solid

Date Sampled: 11/14/2008 1510
Date Received: 11/14/2008 1735

**6010B Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-44062 | | Instrument ID: | Thermo 6500 ICP |
| Preparation: | 3050B | Prep Batch: 720-43961 | | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.01 g |
| Date Analyzed: | 11/19/2008 1426 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/18/2008 0922 | | | | |

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.50 |
| Chromium | | 50 | | 0.99 |
| Nickel | | 69 | | 0.99 |
| Lead | | 6.6 | | 0.99 |
| Zinc | | 44 | | 0.99 |

Client: Chemical Data Management

Job Number: 720-16931-1

**Client Sample ID: SB-111 5'-6'**

Lab Sample ID: 720-16931-15
Client Matrix: Solid

Date Sampled: 11/14/2008 1510
Date Received: 11/14/2008 1735

**6010B Metals (ICP)**

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/19/2008 1432
Date Prepared: 11/18/2008 0922

Analysis Batch: 720-44062
Prep Batch: 720-43961

Instrument ID: Thermo 6500 ICP
Lab File ID: N/A
Initial Weight/Volume: 1.03 g
Final Weight/Volume: 50 mL

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.49 |
| Chromium | | 26 | | 0.97 |
| Nickel | | 21 | | 0.97 |
| Lead | | 29 | | 0.97 |
| Zinc | | 62 | | 0.97 |

Client: Chemical Data Management

Job Number: 720-16931-1

**Client Sample ID: SB-111 7'-8'**

Lab Sample ID: 720-16931-16
Client Matrix: Solid

Date Sampled: 11/14/2008 1510
Date Received: 11/14/2008 1735

**6010B Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-44062 | | Instrument ID: | Thermo 6500 ICP |
| Preparation: | 3050B | Prep Batch: 720-43961 | | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | .96 g |
| Date Analyzed: | 11/19/2008 1436 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/18/2008 0922 | | | | |

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.52 |
| Chromium | | 15 | | 1.0 |
| Nickel | | 12 | | 1.0 |
| Lead | | 49 | | 1.0 |
| Zinc | | 50 | | 1.0 |

Client: Chemical Data Management

Job Number: 720-16931-1

**Client Sample ID: SB-111 9'-10'**

Lab Sample ID: 720-16931-17
Client Matrix: Solid

Date Sampled: 11/14/2008 1510
Date Received: 11/14/2008 1735

**6010B Metals (ICP)**

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/19/2008 1439
Date Prepared: 11/18/2008 0922

Analysis Batch: 720-44062
Prep Batch: 720-43961

Instrument ID: Thermo 6500 ICP
Lab File ID: N/A
Initial Weight/Volume: .96 g
Final Weight/Volume: 50 mL

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.52 |
| Chromium | | 14 | | 1.0 |
| Nickel | | 8.8 | | 1.0 |
| Lead | | 10 | | 1.0 |
| Zinc | | 13 | | 1.0 |

Client: Chemical Data Management

Job Number: 720-16931-1

**Client Sample ID: SB-112 3'-4'**

Lab Sample ID: 720-16931-18
Client Matrix: Solid

Date Sampled: 11/14/2008 1555
Date Received: 11/14/2008 1735

**6010B Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-44062 | | Instrument ID: | Thermo 6500 ICP |
| Preparation: | 3050B | Prep Batch: 720-43961 | | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.01 g |
| Date Analyzed: | 11/19/2008 1443 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/18/2008 0922 | | | | |

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.50 |
| Chromium | | 13 | | 0.99 |
| Nickel | | 26 | | 0.99 |
| Lead | | 13 | | 0.99 |
| Zinc | | 29 | | 0.99 |

Client: Chemical Data Management

Job Number: 720-16931-1

**Client Sample ID: W-101**

Lab Sample ID: 720-16931-19
Client Matrix: Water

Date Sampled: 11/14/2008 1200
Date Received: 11/14/2008 1735

**6010B Metals (ICP)-Dissolved**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-44094 | | Instrument ID: | Varian ICP |
| Preparation: | Soluble Metals | Prep Batch: 720-44081 | | Lab File ID: | N/A |
| Dilution: | 1.07 | | | Initial Weight/Volume: | |
| Date Analyzed: | 11/20/2008 1153 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 11/20/2008 1034 | | | | |

| Analyte | Result (mg/L) | Qualifier | RL |
|---|---|---|---|
| Cadmium | ND | | 0.0020 |
| Chromium | ND | | 0.0050 |
| Nickel | 0.12 | | 0.0050 |
| Lead | 0.0065 | | 0.0050 |
| Zinc | 0.056 | | 0.010 |

Client: Chemical Data Management

Job Number: 720-16931-1

**Client Sample ID: W-102**

Lab Sample ID: 720-16931-20
Client Matrix: Water

Date Sampled: 11/14/2008 1250
Date Received: 11/14/2008 1735

**6010B Metals (ICP)-Dissolved**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-44094 | | Instrument ID: | Varian ICP |
| Preparation: | Soluble Metals | Prep Batch: 720-44081 | | Lab File ID: | N/A |
| Dilution: | 1.07 | | | Initial Weight/Volume: | |
| Date Analyzed: | 11/20/2008 1157 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 11/20/2008 1034 | | | | |

| Analyte | Result (mg/L) | Qualifier | RL |
|---|---|---|---|
| Cadmium | ND | | 0.0020 |
| Chromium | 0.014 | | 0.0050 |
| Nickel | 0.14 | | 0.0050 |
| Lead | 0.77 | | 0.0050 |
| Zinc | 1.2 | | 0.010 |

Client: Chemical Data Management

Job Number: 720-16931-1

**Client Sample ID: W-103**

Lab Sample ID: 720-16931-21
Client Matrix: Water

Date Sampled: 11/14/2008 1445
Date Received: 11/14/2008 1735

**6010B Metals (ICP)-Dissolved**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-44094 | | Instrument ID: | Varian ICP |
| Preparation: | Soluble Metals | Prep Batch: 720-44081 | | Lab File ID: | N/A |
| Dilution: | 1.07 | | | Initial Weight/Volume: | |
| Date Analyzed: | 11/20/2008 1201 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 11/20/2008 1034 | | | | |

| Analyte | Result (mg/L) | Qualifier | RL |
|---|---|---|---|
| Cadmium | ND | | 0.0020 |
| Chromium | 0.026 | | 0.0050 |
| Nickel | 0.38 | | 0.0050 |
| Lead | 0.061 | | 0.0050 |
| Zinc | 1.4 | | 0.010 |

Client: Chemical Data Management

Job Number: 720-16931-1

**Client Sample ID: W-111**

Lab Sample ID: 720-16931-22
Client Matrix: Water

Date Sampled: 11/14/2008 1545
Date Received: 11/14/2008 1735

**6010B Metals (ICP)-Dissolved**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-44094 | | Instrument ID: | Varian ICP |
| Preparation: | Soluble Metals | Prep Batch: 720-44081 | | Lab File ID: | N/A |
| Dilution: | 1.07 | | | Initial Weight/Volume: | |
| Date Analyzed: | 11/20/2008 1204 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 11/20/2008 1034 | | | | |

| Analyte | Result (mg/L) | Qualifier | RL |
|---|---|---|---|
| Cadmium | ND | | 0.0020 |
| Chromium | ND | | 0.0050 |
| Nickel | 0.42 | | 0.0050 |
| Lead | ND | | 0.0050 |
| Zinc | 8.4 | | 0.010 |

Client: Chemical Data Management

Job Number: 720-16931-1

**Client Sample ID: SB-112 7'-8'**

Lab Sample ID: 720-16931-23
Client Matrix: Solid

Date Sampled: 11/14/2008 1555
Date Received: 11/14/2008 1735

**6010B Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-44062 | | Instrument ID: | Thermo 6500 ICP |
| Preparation: | 3050B | Prep Batch: 720-43961 | | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.04 g |
| Date Analyzed: | 11/19/2008 1446 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/18/2008 0922 | | | | |

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.48 |
| Chromium | | 70 | | 0.96 |
| Nickel | | 86 | | 0.96 |
| Lead | | 7.7 | | 0.96 |
| Zinc | | 42 | | 0.96 |

# DATA REPORTING QUALIFIERS

Client: Chemical Data Management Job Number: 720-16931-1

| Lab Section | Qualifier | Description |
|---|---|---|
| GC Semi VOA | | |
| | X | Surrogate exceeds the control limits |

Client: Chemical Data Management Job Number: 720-16931-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **GC Semi VOA** | | | | | |
| **Prep Batch: 720-43948** | | | | | |
| LCS 720-43947/2-B | Lab Control Spike | D | Water | 3510C SGC | |
| LCSD 720-43947/3-B | Lab Control Spike Duplicate | D | Water | 3510C SGC | |
| MB 720-43947/1-B | Method Blank | D | Water | 3510C SGC | |
| 720-16931-19 | W-101 | D | Water | 3510C SGC | |
| 720-16931-20 | W-102 | D | Water | 3510C SGC | |
| 720-16931-21 | W-103 | D | Water | 3510C SGC | |
| 720-16931-22 | W-111 | D | Water | 3510C SGC | |
| **Prep Batch: 720-43962** | | | | | |
| MB 720-43962/1-A | Method Blank | A | Solid | 3550B | |
| 720-16931-1 | SB-101 3'-4' | A | Solid | 3550B | |
| 720-16931-2 | SB-101 7'-8' | A | Solid | 3550B | |
| 720-16931-3 | SB-101 11'-12' | A | Solid | 3550B | |
| 720-16931-3MS | Matrix Spike | A | Solid | 3550B | |
| 720-16931-3MSD | Matrix Spike Duplicate | A | Solid | 3550B | |
| 720-16931-4 | SB-101 15'-16' | A | Solid | 3550B | |
| 720-16931-5 | SB-102 3'-4' | A | Solid | 3550B | |
| 720-16931-6 | SB-102 7'-8' | A | Solid | 3550B | |
| 720-16931-7 | SB-102 11'-12' | A | Solid | 3550B | |
| 720-16931-8 | SB-102 15'-16' | A | Solid | 3550B | |
| 720-16931-9 | SB-103 3'-4' | A | Solid | 3550B | |
| 720-16931-10 | SB-103 7'-8' | A | Solid | 3550B | |
| 720-16931-11 | SB-103 11'-12' | A | Solid | 3550B | |
| 720-16931-12 | SB-103 15'-16' | A | Solid | 3550B | |
| 720-16931-13 | SB-111 0'-1' | A | Solid | 3550B | |
| 720-16931-14 | SB-111 3'-4' | A | Solid | 3550B | |
| 720-16931-15 | SB-111 5'-6' | A | Solid | 3550B | |
| 720-16931-16 | SB-111 7'-8' | A | Solid | 3550B | |
| 720-16931-17 | SB-111 9'-10' | A | Solid | 3550B | |
| 720-16931-18 | SB-112 3'-4' | A | Solid | 3550B | |
| 720-16931-23 | SB-112 7'-8' | A | Solid | 3550B | |

Client: Chemical Data Management Job Number: 720-16931-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **GC Semi VOA** | | | | | |
| **Analysis Batch:720-44103** | | | | | |
| MB 720-43962/1-A | Method Blank | A | Solid | 8015B | 720-43962 |
| 720-16931-1 | SB-101 3'-4' | A | Solid | 8015B | 720-43962 |
| 720-16931-2 | SB-101 7'-8' | A | Solid | 8015B | 720-43962 |
| 720-16931-3 | SB-101 11'-12' | A | Solid | 8015B | 720-43962 |
| 720-16931-3MS | Matrix Spike | A | Solid | 8015B | 720-43962 |
| 720-16931-3MSD | Matrix Spike Duplicate | A | Solid | 8015B | 720-43962 |
| 720-16931-4 | SB-101 15'-16' | A | Solid | 8015B | 720-43962 |
| 720-16931-5 | SB-102 3'-4' | A | Solid | 8015B | 720-43962 |
| 720-16931-6 | SB-102 7'-8' | A | Solid | 8015B | 720-43962 |
| 720-16931-7 | SB-102 11'-12' | A | Solid | 8015B | 720-43962 |
| 720-16931-8 | SB-102 15'-16' | A | Solid | 8015B | 720-43962 |
| 720-16931-9 | SB-103 3'-4' | A | Solid | 8015B | 720-43962 |
| 720-16931-10 | SB-103 7'-8' | A | Solid | 8015B | 720-43962 |
| 720-16931-11 | SB-103 11'-12' | A | Solid | 8015B | 720-43962 |
| 720-16931-12 | SB-103 15'-16' | A | Solid | 8015B | 720-43962 |
| 720-16931-13 | SB-111 0'-1' | A | Solid | 8015B | 720-43962 |
| 720-16931-14 | SB-111 3'-4' | A | Solid | 8015B | 720-43962 |
| 720-16931-15 | SB-111 5'-6' | A | Solid | 8015B | 720-43962 |
| 720-16931-16 | SB-111 7'-8' | A | Solid | 8015B | 720-43962 |
| 720-16931-17 | SB-111 9'-10' | A | Solid | 8015B | 720-43962 |
| 720-16931-18 | SB-112 3'-4' | A | Solid | 8015B | 720-43962 |
| 720-16931-23 | SB-112 7'-8' | A | Solid | 8015B | 720-43962 |
| **Analysis Batch:720-44141** | | | | | |
| LCS 720-43947/2-B | Lab Control Spike | D | Water | 8015B | 720-43948 |
| LCSD 720-43947/3-B | Lab Control Spike Duplicate | D | Water | 8015B | 720-43948 |
| MB 720-43947/1-B | Method Blank | D | Water | 8015B | 720-43948 |
| 720-16931-19 | W-101 | D | Water | 8015B | 720-43948 |
| 720-16931-20 | W-102 | D | Water | 8015B | 720-43948 |
| 720-16931-21 | W-103 | D | Water | 8015B | 720-43948 |
| 720-16931-22 | W-111 | D | Water | 8015B | 720-43948 |

**Report Basis**
D = Dissolved
A = Silica Gel Cleanup

Client: Chemical Data Management Job Number: 720-16931-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **Metals** | | | | | |
| **Prep Batch: 720-43961** | | | | | |
| LCS 720-43961/2-A | Lab Control Spike | T | Solid | 3050B | |
| LCSD 720-43961/3-A | Lab Control Spike Duplicate | T | Solid | 3050B | |
| LCSSRM 720-43961/26-A | LCS-Standard Reference Material | T | Solid | 3050B | |
| MB 720-43961/1-A | Method Blank | T | Solid | 3050B | |
| 720-16931-1 | SB-101 3'-4' | T | Solid | 3050B | |
| 720-16931-2 | SB-101 7'-8' | T | Solid | 3050B | |
| 720-16931-3 | SB-101 11'-12' | T | Solid | 3050B | |
| 720-16931-4 | SB-101 15'-16' | T | Solid | 3050B | |
| 720-16931-5 | SB-102 3'-4' | T | Solid | 3050B | |
| 720-16931-6 | SB-102 7'-8' | T | Solid | 3050B | |
| 720-16931-7 | SB-102 11'-12' | T | Solid | 3050B | |
| 720-16931-8 | SB-102 15'-16' | T | Solid | 3050B | |
| 720-16931-9 | SB-103 3'-4' | T | Solid | 3050B | |
| 720-16931-10 | SB-103 7'-8' | T | Solid | 3050B | |
| 720-16931-11 | SB-103 11'-12' | T | Solid | 3050B | |
| 720-16931-12 | SB-103 15'-16' | T | Solid | 3050B | |
| 720-16931-13 | SB-111 0'-1' | T | Solid | 3050B | |
| 720-16931-14 | SB-111 3'-4' | T | Solid | 3050B | |
| 720-16931-15 | SB-111 5'-6' | T | Solid | 3050B | |
| 720-16931-16 | SB-111 7'-8' | T | Solid | 3050B | |
| 720-16931-17 | SB-111 9'-10' | T | Solid | 3050B | |
| 720-16931-18 | SB-112 3'-4' | T | Solid | 3050B | |
| 720-16931-23 | SB-112 7'-8' | T | Solid | 3050B | |

Client: Chemical Data Management Job Number: 720-16931-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **Metals** | | | | | |
| **Analysis Batch:720-44062** | | | | | |
| LCS 720-43961/2-A | Lab Control Spike | T | Solid | 6010B | 720-43961 |
| LCSD 720-43961/3-A | Lab Control Spike Duplicate | T | Solid | 6010B | 720-43961 |
| LCSSRM 720-43961/26-A | LCS-Standard Reference Material | T | Solid | 6010B | 720-43961 |
| MB 720-43961/1-A | Method Blank | T | Solid | 6010B | 720-43961 |
| 720-16931-1 | SB-101 3'-4' | T | Solid | 6010B | 720-43961 |
| 720-16931-2 | SB-101 7'-8' | T | Solid | 6010B | 720-43961 |
| 720-16931-3 | SB-101 11'-12' | T | Solid | 6010B | 720-43961 |
| 720-16931-4 | SB-101 15'-16' | T | Solid | 6010B | 720-43961 |
| 720-16931-5 | SB-102 3'-4' | T | Solid | 6010B | 720-43961 |
| 720-16931-6 | SB-102 7'-8' | T | Solid | 6010B | 720-43961 |
| 720-16931-7 | SB-102 11'-12' | T | Solid | 6010B | 720-43961 |
| 720-16931-8 | SB-102 15'-16' | T | Solid | 6010B | 720-43961 |
| 720-16931-9 | SB-103 3'-4' | T | Solid | 6010B | 720-43961 |
| 720-16931-10 | SB-103 7'-8' | T | Solid | 6010B | 720-43961 |
| 720-16931-11 | SB-103 11'-12' | T | Solid | 6010B | 720-43961 |
| 720-16931-12 | SB-103 15'-16' | T | Solid | 6010B | 720-43961 |
| 720-16931-13 | SB-111 0'-1' | T | Solid | 6010B | 720-43961 |
| 720-16931-14 | SB-111 3'-4' | T | Solid | 6010B | 720-43961 |
| 720-16931-15 | SB-111 5'-6' | T | Solid | 6010B | 720-43961 |
| 720-16931-16 | SB-111 7'-8' | T | Solid | 6010B | 720-43961 |
| 720-16931-17 | SB-111 9'-10' | T | Solid | 6010B | 720-43961 |
| 720-16931-18 | SB-112 3'-4' | T | Solid | 6010B | 720-43961 |
| 720-16931-23 | SB-112 7'-8' | T | Solid | 6010B | 720-43961 |
| **Prep Batch: 720-44081** | | | | | |
| LCS 720-44081/2-A | Lab Control Spike | S | Water | Soluble Metals | |
| LCSD 720-44081/3-A | Lab Control Spike Duplicate | S | Water | Soluble Metals | |
| MB 720-43953/1-B | Method Blank | D | Water | Soluble Metals | |
| 720-16931-19 | W-101 | D | Water | Soluble Metals | |
| 720-16931-19MS | Matrix Spike | D | Water | Soluble Metals | |
| 720-16931-19MSD | Matrix Spike Duplicate | D | Water | Soluble Metals | |
| 720-16931-20 | W-102 | D | Water | Soluble Metals | |
| 720-16931-21 | W-103 | D | Water | Soluble Metals | |
| 720-16931-22 | W-111 | D | Water | Soluble Metals | |
| **Analysis Batch:720-44094** | | | | | |
| LCS 720-44081/2-A | Lab Control Spike | S | Water | 6010B | 720-44081 |
| LCSD 720-44081/3-A | Lab Control Spike Duplicate | S | Water | 6010B | 720-44081 |
| MB 720-43953/1-B | Method Blank | D | Water | 6010B | 720-44081 |
| 720-16931-19 | W-101 | D | Water | 6010B | 720-44081 |
| 720-16931-19MS | Matrix Spike | D | Water | 6010B | 720-44081 |
| 720-16931-19MSD | Matrix Spike Duplicate | D | Water | 6010B | 720-44081 |
| 720-16931-20 | W-102 | D | Water | 6010B | 720-44081 |
| 720-16931-21 | W-103 | D | Water | 6010B | 720-44081 |
| 720-16931-22 | W-111 | D | Water | 6010B | 720-44081 |

Client: Chemical Data Management Job Number: 720-16931-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **Metals** | | | | | |
| **Analysis Batch:720-44130** | | | | | |
| 720-16931-13 | SB-111 0'-1' | T | Solid | 6010B | 720-43961 |

**Report Basis**
D = Dissolved
S = Soluble
T = Total

Client: Chemical Data Management

Job Number: 720-16931-1

**Method Blank - Batch: 720-43948**

**Method: 8015B**
**Preparation: 3510C SGC Dissolved**

Lab Sample ID: MB 720-43947/1-B
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/20/2008 1853
Date Prepared: 11/17/2008 1744

Analysis Batch: 720-44141
Prep Batch: 720-43948
Units: ug/L

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | Result | Qual | RL |
|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 50 |
| Motor Oil Range Organics [C24-C36] | ND | | 500 |
| C19-C36 | ND | | 500 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 68 | 46 - 114 |

**Lab Control Spike/**
**Lab Control Spike Duplicate Recovery Report - Batch: 720-43948**

**Method: 8015B**
**Preparation: 3510C SGC Dissolved**

LCS Lab Sample ID: LCS 720-43947/2-B
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/20/2008 1759
Date Prepared: 11/17/2008 1744

Analysis Batch: 720-44141
Prep Batch: 720-43948
Units: ug/L

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-43947/3-B
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/20/2008 1826
Date Prepared: 11/17/2008 1744

Analysis Batch: 720-44141
Prep Batch: 720-43948
Units: ug/L

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | % Rec. LCS | LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 71 | 71 | 41 - 103 | 0 | 30 | | |

| Surrogate | LCS % Rec | LCSD % Rec | Acceptance Limits |
|---|---|---|---|
| p-Terphenyl | 81 | 80 | 46 - 114 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

**Method Blank - Batch: 720-43962**

**Method: 8015B**
**Preparation: 3550B**
**Silica Gel Cleanup**

Lab Sample ID: MB 720-43962/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/19/2008 1046
Date Prepared: 11/18/2008 1212

Analysis Batch: 720-44103
Prep Batch: 720-43962
Units: mg/Kg

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.26 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | Result | Qual | RL |
|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 0.99 |
| Motor Oil Range Organics [C24-C36] | ND | | 50 |
| C19-C36 | ND | | 50 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 95 | 41 - 105 |

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 720-43962**

**Method: 8015B**
**Preparation: 3550B**
**Silica Gel Cleanup**

MS Lab Sample ID: 720-16931-3
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/19/2008 2226
Date Prepared: 11/18/2008 1212

Analysis Batch: 720-44103
Prep Batch: 720-43962

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.15 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

MSD Lab Sample ID: 720-16931-3
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/19/2008 2253
Date Prepared: 11/18/2008 1212

Analysis Batch: 720-44103
Prep Batch: 720-43962

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.27 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | % Rec. MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 75 | 79 | 50 - 130 | 4 | 30 | | |

| Surrogate | MS % Rec | MSD % Rec | Acceptance Limits |
|---|---|---|---|
| p-Terphenyl | 89 | 90 | 41 - 105 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Chemical Data Management

Job Number: 720-16931-1

**Method Blank - Batch: 720-43961**

**Method: 6010B**
**Preparation: 3050B**

Lab Sample ID: MB 720-43961/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/19/2008 1557
Date Prepared: 11/18/2008 0922

Analysis Batch: 720-44062
Prep Batch: 720-43961
Units: mg/Kg

Instrument ID: Thermo 6500 ICP
Lab File ID: N/A
Initial Weight/Volume: 1.01 g
Final Weight/Volume: 50 mL

| Analyte | Result | Qual | RL |
|---|---|---|---|
| Cadmium | ND | | 0.50 |
| Chromium | ND | | 0.99 |
| Nickel | ND | | 0.99 |
| Lead | ND | | 0.99 |
| Zinc | ND | | 0.99 |

**LCS-Standard Reference Material - Batch: 720-43961**

**Method: 6010B**
**Preparation: 3050B**

Lab Sample ID: LCSSRM 720-43961/26-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/19/2008 1537
Date Prepared: 11/18/2008 0922

Analysis Batch: 720-44062
Prep Batch: 720-43961
Units: mg/Kg

Instrument ID: Thermo 6500 ICP
Lab File ID: N/A
Initial Weight/Volume: 1.02 g
Final Weight/Volume: 50 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Cadmium | 42.2 | 37.7 | 89 | 67 - 118 | |
| Chromium | 246 | 220 | 89 | 67 - 121 | |
| Nickel | 96.8 | 84.8 | 88 | 65 - 117 | |
| Lead | 44.1 | 36.9 | 84 | 62 - 113 | |
| Zinc | 44.0 | 37.3 | 85 | 62 - 110 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Chemical Data Management

Job Number: 720-16931-1

**Lab Control Spike/**
**Lab Control Spike Duplicate Recovery Report - Batch: 720-43961**

**Method: 6010B**
**Preparation: 3050B**

LCS Lab Sample ID: LCS 720-43961/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/19/2008 1601
Date Prepared: 11/18/2008 0922

Analysis Batch: 720-44062
Prep Batch: 720-43961
Units: mg/Kg

Instrument ID: Thermo 6500 ICP
Lab File ID: N/A
Initial Weight/Volume: .99 g
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-43961/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/19/2008 1604
Date Prepared: 11/18/2008 0922

Analysis Batch: 720-44062
Prep Batch: 720-43961
Units: mg/Kg

Instrument ID: Thermo 6500 ICP
Lab File ID: N/A
Initial Weight/Volume: 1.04 g
Final Weight/Volume: 50 mL

| Analyte | % Rec. LCS | % Rec. LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
|---|---|---|---|---|---|---|---|
| Cadmium | 93 | 95 | 80 - 120 | 3 | 20 | | |
| Chromium | 98 | 100 | 80 - 120 | 3 | 20 | | |
| Nickel | 95 | 96 | 80 - 120 | 3 | 20 | | |
| Lead | 94 | 95 | 80 - 120 | 3 | 20 | | |
| Zinc | 95 | 96 | 80 - 120 | 4 | 20 | | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Chemical Data Management

Job Number: 720-16931-1

**Method Blank - Batch: 720-44081**

**Method: 6010B**
**Preparation: Soluble Metals Dissolved**

Lab Sample ID: MB 720-43953/1-B
Client Matrix: Water
Dilution: 1.07
Date Analyzed: 11/20/2008 1211
Date Prepared: 11/20/2008 1034

Analysis Batch: 720-44094
Prep Batch: 720-44081
Units: mg/L

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

| Analyte | Result | Qual | RL |
|---|---|---|---|
| Cadmium | ND | | 0.0020 |
| Chromium | ND | | 0.0050 |
| Nickel | ND | | 0.0050 |
| Lead | ND | | 0.0050 |
| Zinc | ND | | 0.010 |

**Lab Control Spike/**
**Lab Control Spike Duplicate Recovery Report - Batch: 720-44081**

**Method: 6010B**
**Preparation: Soluble Metals Soluble**

LCS Lab Sample ID: LCS 720-44081/2-A
Client Matrix: Water
Dilution: 1.07
Date Analyzed: 11/20/2008 1138
Date Prepared: 11/20/2008 1034

Analysis Batch: 720-44094
Prep Batch: 720-44081
Units: mg/L

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

LCSD Lab Sample ID: LCSD 720-44081/3-A
Client Matrix: Water
Dilution: 1.07
Date Analyzed: 11/20/2008 1142
Date Prepared: 11/20/2008 1034

Analysis Batch: 720-44094
Prep Batch: 720-44081
Units: mg/L

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | LCS | LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
| Cadmium | 97 | 98 | 80 - 120 | 1 | 20 | | |
| Chromium | 100 | 101 | 80 - 120 | 1 | 20 | | |
| Nickel | 98 | 99 | 80 - 120 | 1 | 20 | | |
| Lead | 99 | 100 | 80 - 120 | 1 | 20 | | |
| Zinc | 96 | 97 | 80 - 120 | 1 | 20 | | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Chemical Data Management

Job Number: 720-16931-1

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 720-44081**

**Method: 6010B**
**Preparation: Soluble Metals Dissolved**

| | | | |
|---|---|---|---|
| MS Lab Sample ID: | 720-16931-19 | Analysis Batch: 720-44094 | Instrument ID: Varian ICP |
| Client Matrix: | Water | Prep Batch: 720-44081 | Lab File ID: N/A |
| Dilution: | 1.07 | | Initial Weight/Volume: |
| Date Analyzed: | 11/20/2008 1145 | | Final Weight/Volume: 1.0 mL |
| Date Prepared: | 11/20/2008 1034 | | |

| | | | |
|---|---|---|---|
| MSD Lab Sample ID: | 720-16931-19 | Analysis Batch: 720-44094 | Instrument ID: Varian ICP |
| Client Matrix: | Water | Prep Batch: 720-44081 | Lab File ID: N/A |
| Dilution: | 1.07 | | Initial Weight/Volume: |
| Date Analyzed: | 11/20/2008 1149 | | Final Weight/Volume: 1.0 mL |
| Date Prepared: | 11/20/2008 1034 | | |

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
| Cadmium | 92 | 92 | 75 - 125 | 1 | 20 | | |
| Chromium | 98 | 99 | 75 - 125 | 1 | 20 | | |
| Nickel | 93 | 94 | 75 - 125 | 1 | 20 | | |
| Lead | 93 | 94 | 75 - 125 | 1 | 20 | | |
| Zinc | 88 | 90 | 75 - 125 | 3 | 20 | | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Brewer, Melissa

**From:** Felicia Aristakumara [felicia@cdms.com]
**Sent:** Monday, November 17, 2008 1:27 PM
**To:** Brewer, Melissa
**Cc:** Jim Carro
**Subject:** Re: Silica gel cleanup
**Importance:** High

Hi Melissa,

Yes, I think we would like to go ahead and filter anyway, for both TEPH and Metals.
Thanks for confirming.

Felicia-

On Nov 17, 2008, at 1:15 PM, Brewer, Melissa wrote:

> I'm glad you mentioned the filtering. Our normal Sample Control employee is gone and the person who logged it in didn't notice your note. I didn't notice it either! I understand that Surinder mentioned that we don't normally filter if the sample is preserved. I assume that you decided to go ahead and filter it anyway?? Surinder is not here right now, so I can't ask her about the conversation.
>
> Also, I assume that you want the Metals bottle filtered as well. The woman in Sample Control thought it was only the Diesel bottles, but I think she might have misunderstood. Our computer will report it as "Dissolved Metals" or "Dissolved TEPH" although it is not really dissolved since the acid could have dissolved something that might normally be filterable.
>
> **MELISSA BREWER**
> Project Manager
>
> (new email address melissa.brewer@testamericainc.com)
>
> Test America
> THE LEADER IN ENVIRONMENTAL TESTING
>
> 1220 Quarry Lane
> Pleasanton, Ca 94566
> Tel 925.484.1919 | Fax 925.600.3002
> www.testamericainc.com
>
> -----Original Message-----
> **From:** Felicia Aristakumara [mailto:felicia@cdms.com]
> **Sent:** Monday, November 17, 2008 1:00 PM
> **To:** Brewer, Melissa
> **Subject:** Silica gel cleanup
>
> Hi Melissa,

720-16931

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

**TESTAMERICA San Francisco Chain of Custody**

1220 Quarry Lane • Pleasanton CA 94566-4756

Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 113411

Date 11/14/08 Page 1 of 3

11/24/2008

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## Report To

Attn: JIM CARRO

Company: CDMS

Address:

Phone: Email:

Bill To: Sampled By:

Attn: Phone:

## Analysis Request

| Sample ID | Date | Time | Matrix | Preserv. | TPH EPA - ☐ 8015/8021 ☐ 8260B ☐ Gas w/ ☐ BTEX ☐ MTBE | Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B | TEPH EPA 8015M* ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other Hold | Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Five Oxygenates ☐ DCA, EDB ☐ Ethanol | Purgeable Halocarbons (HVOCs) EPA 8021 by 8260B | Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624 | Semivolatiles GC/MS ☐ EPA 8270 ☐ 625 | Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total | Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608 | PNAs by ☐ 8270 ☐ 8310 | CAM17 Metals (EPA 6010/7470/7471) | Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: | Low Level Metals by EPA 200.8/6020 (ICP-MS): | ☐ W.E.T (STLC) ☐ TCLP | Hexavalent Chromium ☐ pH (24h hold time for $H_2O$) | ☐ Spec Cond. ☐ Alkalinity ☐ TSS ☐ TDS | Anions: ☐ Cl ☐ $SO_4$ ☐ $NO_3$ ☐ F ☐ Br ☐ $NO_2$ ☐ $PO_4$ | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. SB-101 3'-4' | 11/14 | 12:00 | S | | | | X | | | | | | | | | X | | | | | | | | | |
| 2. SB-101 7'-8' | | | | | | | X | | | | | | | | | X | | | | | | | | | |
| 3. SB-101 11'-12' | | | | | | | X | | | | | | | | | X | | | | | | | | | |
| 4. SB-101 15'-16' | | | | | | | X | | | | | | | | | X | | | | | | | | | |
| 5. SB-102 3'-4' | | 12:50 | | | | | X | | | | | | | | | X | | | | | | | | | |
| 6. SB-102 7'-8' | | | | | | | X | | | | | | | | | X | | | | | | | | | |
| 7. SB-102 11'-12' | | | | | | | X | | | | | | | | | X | | | | | | | | | |
| 8. SB-102 15'-16' | | | | | | | X | | | | | | | | | X | | | | | | | | | |
| 9. SB-103 3'-4' | | 2:00 | | | | | X | | | | | | | | | X | | | | | | | | | |
| 10. SB-103 7'-8' | | | | | | | X | | | | | | | | | X | | | | | | | | | |

## Project Info.

Project Name: Western Forge

Project#:

PO#: 102730

Credit Card#:

## Sample Receipt

# of Containers:

Head Space:

Temp: 3.7°C

Conforms to record:

TAT: (5 Day) 72h 48h 24h Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF

Special Instructions / Comments: ☐ Global ID

Hold til Monday (confirm on silica gel)

*See Terms and Conditions on reverse*

*TestAmerica SF reports 8015M from $C_9$-$C_{24}$ (industry norm). Default for 8015B is $C_{10}$-$C_{28}$

| 1) Relinquished by: | 2) Relinquished by: | 3) Relinquished by: |
|---|---|---|
| Signature: [signature] Time: 5:35 PM | Signature: Time: | Signature: Time: |
| Printed Name: FELICIA ARISTAKUMARA Date: 11/14/08 | Printed Name: Date: | Printed Name: Date: |
| Company: CDMS | Company: | Company: |
| **1) Received by:** | **2) Received by:** | **3) Received by:** |
| Signature: [signature] Time: 17:35 | Signature: Time: | Signature: Time: |
| Printed Name: T Bulkca Date: 11/14/08 | Printed Name: Date: | Printed Name: Date: |
| Company: TAL-SF | Company: | Company: |

Rev 08/04

720-16931

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## TESTAMERICA San Francisco Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 11341

Date 11/14/08 Page 2 of 3

11/24/2008

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### Report To

Attn: JIM CARRO
Company:
Address:
Phone: Email:
Bill To: Sampled By:
Attn: Phone:

### Analysis Request

| | Sample ID | Date | Time | Matrix | Pres erv. | TPH EPA - ☐ 8015/8021 ☐ 8260B ☐ Gas w/ ☐ BTEX ☐ MTBE | Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B | TEPH EPA 8015M* ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other Hyd. | Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Five Oxygenates ☐ DCA, EDB ☐ Diesel | Purgeable Halocarbons (HVOCs) EPA 8021 by 8260B | Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624 | Semivolatiles GC/MS ☐ EPA 8270 ☐ 625 | Oil and Grease ☐ Petroleum (EPA 1664 ) ☐ Total | Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608 | PNAs by ☐ 8270 ☐ 8310 | CAM17 Metals (EPA 6010/7470/7471) | Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: | Low Level Metals by EPA 200.8/6020 (ICP-MS): | W.E.T (STLC) ☐ TCLP | Hexavalent Chromium pH (24h hold time for $H_2O$) | Spec Cond. ☐ Alkalinity ☐ TSS ☐ TDS ☐ | Anions : ☐ Cl ☐ $SO_4$ ☐ $NO_3$ ☐ F ☐ Br ☐ $NO_2$ ☐ $PO_4$ | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10. | SB-103 11'-12' | 11/14/08 | 2:00 | S | | | | X | | | | | | | | X | | | | | | | | | | |
| 11. | SB-103 15'-16' | | 5 | | | | | X | | | | | | | | X | | | | | | | | | | |
| 12. | SB-111 0'-1' | | 3:10 | | | | | X | | | | | | | | X | | | | | | | | | | |
| 13. | SB-111 3'-4' | | 3:10 | | | | | X | | | | | | | | X | | | | | | | | | | |
| 14. | SB-111 5'-6' | | 3:10 | | | | | X | | | | | | | | X | | | | | | | | | | |
| 15. | SB-111 7'-8' | | 3:10 | | | | | X | | | | | | | | X | | | | | | | | | | |
| 16. | SB-111 9'-10' | | 3:10 | | | | | X | | | | | | | | X | | | | | | | | | | |
| 17. | SB-112 3'-4' | | 3:51 | | | | | X | | | | | | | | X | | | | | | | | | | |
| 18. | SB-112 7'-8' | | 3:51 | | | | | X | | | | | | | | X | | | | | | | | | | |

### Project Info.

Project Name: Western Forge
Project#:
PO#:
Credit Card#:

TAT: (5 Day) 72h 48h 24h Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF ☐ Global ID

Special Instructions / Comments:

* Hold til Monday (confirm on silica gel)

*See Terms and Conditions on reverse*

*TestAmerica SF reports 8015M from $C_9$-$C_{24}$ (industry norm). Default for 8015B is $C_{10}$-$C_{28}$

### Sample Receipt

# of Containers:
Head Space:
Temp:
Conforms to record:

| | 1) Relinquished by: | 2) Relinquished by: | 3) Relinquished by: |
|---|---|---|---|
| Signature | 5:35PM | | |
| Time | | | |
| Printed Name | FELICIA AFLSTAKUHARA 11/14/08 | | |
| Date | | | |
| Company | CPMS | | |

| | 1) Received by: | 2) Received by: | 3) Received by: |
|---|---|---|---|
| Signature | 1735 | | |
| Time | | | |
| Printed Name | T Bulloch 11/14/08 | | |
| Date | | | |
| Company | TAL-SF | | |

Rev 06/04

720-16931

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## TESTAMERICA San Francisco Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 113411

Date 11/14/08 Page 3 of 3

11/24/2008

### Report To

Attn: JIM CARRO
Company: CPMS
Address:
Phone: Email:
Bill To: Sampled By:
Attn: Phone:

### Analysis Request

| Sample ID | Date | Time | Matrix | Pres. | TPH EPA - ☐ 8015/8021 ☐ 8260B ☐ Gas w/ ☐ BTEX ☐ MTBE | Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B | TEPH EPA 8015M* ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other: | Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Five Oxygenates ☐ DCA, EDB ☐ | Purgeable Halocarbons (HVOCs) EPA 8021 by 8260B | Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624 | Semivolatiles GC/MS ☐ EPA 8270 ☐ 625 | Oil and Grease ☐ Petroleum (EPA 1664 ) ☐ Total | Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608 | PNAs by ☐ 8270 ☐ 8310 | CAM17 Metals (EPA 6010/7470/7471) | Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: | Low Level Metals by EPA 200.8/6020 (ICP-MS): | ☐ W.E.T (STLC) ☐ TCLP | Hexavalent Chromium ☐ ☐ pH (24h hold time for $H_2O$) | Spec Cond. ☐ Alkalinity ☐ TSS ☐ TDS ☐ | Anions : ☐ Cl ☐ $SO_4$ ☐ $NO_3$ ☐ F ☐ Br ☐ $NO_2$ ☐ $PO_4$ | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19. W-101 | 11/14 | 12:00 | W | | | | X | | | | | | | | | X | | | | | | | | | | |
| 20. W-102 | " | 12:50 | W | | | | X | | | | | | | | | X | | | | | | | | | | |
| 21. W-103 | " | 2:45 | W | | | | X | | | | | | | | | X | | | | | | | | | | |
| 22. W-111 | " | 3:45 | W | | | | X | | | | | | | | | X | | | | | | | | | | |
| | | | | | | | | | | | | | | | | X | | | | | | | | | | |

### Project Info.

Project Name: Weber Forge
Project#:
PO#:
Credit Card#:

TAT: 5 Day | 72h | 48h | 24h

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF ☐ Global ID

Special Instructions / Comments:
* Please filter the samples.
* Hold til Monday (confirm on silica gel)

See Terms and Conditions on reverse

*TestAmerica SF reports 8015M from $C_5$-$C_{24}$ (industry norm). Default for 8015B is $C_{10}$-$C_{28}$

### Sample Receipt

# of Containers:
Head Space:
Temp:
Conforms to record:
Other:

| 1) Relinquished by: | 2) Relinquished by: | 3) Relinquished by: |
|---|---|---|
| Signature 5:35PM Time | Signature Time | Signature Time |
| FELICIA ARISTAHUAMAN 11/14/08 Printed Name Date | Printed Name Date | Printed Name Date |
| CPMS Company | Company | Company |

| 1) Received by: | 2) Received by: | 3) Received by: |
|---|---|---|
| Signature 1735 Time | Signature Time | Signature Time |
| T Bullock 11/14/08 Printed Name Date | Printed Name Date | Printed Name Date |
| TAL-SF Company | Company | Company |

Rev 06/04

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# Login Sample Receipt Check List

Client: Chemical Data Management

Job Number: 720-16931-1

**Login Number: 16931**
**List Source: TestAmerica San Francisco**
**Creator: Bullock, Tracy**
**List Number: 1**

| Question | T / F/ NA | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| The cooler's custody seal, if present, is intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | False | SEE NARRATIVE |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |

## E. December 2, 2008 (Sampling Event November 21, 2008)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

Job Number: 720-17028-1

Job Description: Western Forge, Albany

For:
Chemical Data Management
6515 Trinity Court
Suite 201
Dublin, CA 94568-2665

Attention: Mr. James Carro

Approved for release.
Melissa Brewer
Project Manager I
12/2/2008 9:43 AM

Melissa Brewer
Project Manager I
melissa.brewer@testamericainc.com
12/02/2008

**Job Narrative**
**720-J17028-1**

**Comments**
No additional comments.

**Receipt**
The following samples were collected in an improper preserved containers: W-107,W-108,W-09 and W-105. Client requested samples be filtered even though they were collected in preserved containers.

All other samples were received in good condition within temperature requirements.

**GC Semi VOA**
Method 8015B: Surrogate recovery for the following sample was outside control limits: SB-108 4'-5' (720-17028-17). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

**Metals**
No analytical or quality issues were noted.

**Organic Prep**
No analytical or quality issues were noted.

# EXECUTIVE SUMMARY - Detections

Client: Chemical Data Management Job Number: 720-17028-1

| Lab Sample ID / Analyte | Client Sample ID | Result / Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|
| **720-17028-1** | **SB-104 1'-2'** | | | | |
| Chromium | | 32 | 1.0 | mg/Kg | 6010B |
| Nickel | | 35 | 1.0 | mg/Kg | 6010B |
| Lead | | 10 | 1.0 | mg/Kg | 6010B |
| Zinc | | 34 | 1.0 | mg/Kg | 6010B |
| ***Silica Gel Cleanup*** | | | | | |
| Diesel Range Organics [C10-C28] | | 2.2 | 1.0 | mg/Kg | 8015B |
| **720-17028-2** | **SB-104 3'-4'** | | | | |
| Chromium | | 16 | 0.98 | mg/Kg | 6010B |
| Nickel | | 11 | 0.98 | mg/Kg | 6010B |
| Lead | | 75 | 0.98 | mg/Kg | 6010B |
| Zinc | | 120 | 0.98 | mg/Kg | 6010B |
| ***Silica Gel Cleanup*** | | | | | |
| Diesel Range Organics [C10-C28] | | 6.1 | 1.0 | mg/Kg | 8015B |
| **720-17028-3** | **SB-104 7'-8'** | | | | |
| Chromium | | 12 | 1.0 | mg/Kg | 6010B |
| Nickel | | 8.3 | 1.0 | mg/Kg | 6010B |
| Lead | | 13 | 1.0 | mg/Kg | 6010B |
| Zinc | | 17 | 1.0 | mg/Kg | 6010B |
| **720-17028-4** | **SB-105 1'-2'** | | | | |
| Chromium | | 70 | 1.0 | mg/Kg | 6010B |
| Nickel | | 82 | 1.0 | mg/Kg | 6010B |
| Lead | | 9.0 | 1.0 | mg/Kg | 6010B |
| Zinc | | 62 | 1.0 | mg/Kg | 6010B |
| **720-17028-5** | **SB-105 3'-4'** | | | | |
| Chromium | | 17 | 0.96 | mg/Kg | 6010B |
| Nickel | | 12 | 0.96 | mg/Kg | 6010B |
| Lead | | 44 | 0.96 | mg/Kg | 6010B |
| Zinc | | 62 | 0.96 | mg/Kg | 6010B |
| ***Silica Gel Cleanup*** | | | | | |
| Diesel Range Organics [C10-C28] | | 3.4 | 1.0 | mg/Kg | 8015B |

## EXECUTIVE SUMMARY - Detections

Client: Chemical Data Management Job Number: 720-17028-1

| Lab Sample ID / Analyte | Client Sample ID | Result / Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|
| **720-17028-6** | **SB-105 7'-8'** | | | | |
| Chromium | | 14 | 0.98 | mg/Kg | 6010B |
| Nickel | | 10 | 0.98 | mg/Kg | 6010B |
| Lead | | 17 | 0.98 | mg/Kg | 6010B |
| Zinc | | 35 | 0.98 | mg/Kg | 6010B |
| **720-17028-7** | **SB-106 1'6"-2'6"** | | | | |
| Chromium | | 53 | 1.1 | mg/Kg | 6010B |
| Nickel | | 64 | 1.1 | mg/Kg | 6010B |
| Lead | | 11 | 1.1 | mg/Kg | 6010B |
| Zinc | | 46 | 1.1 | mg/Kg | 6010B |
| **720-17028-8** | **SB-106 4'-5'** | | | | |
| Chromium | | 54 | 1.0 | mg/Kg | 6010B |
| Nickel | | 79 | 1.0 | mg/Kg | 6010B |
| Lead | | 31 | 1.0 | mg/Kg | 6010B |
| Zinc | | 67 | 1.0 | mg/Kg | 6010B |
| ***Silica Gel Cleanup*** | | | | | |
| Diesel Range Organics [C10-C28] | | 1100 | 10 | mg/Kg | 8015B |
| Motor Oil Range Organics [C24-C36] | | 1900 | 500 | mg/Kg | 8015B |
| C19-C36 | | 2800 | 500 | mg/Kg | 8015B |
| **720-17028-9** | **SB-106 7'-8'** | | | | |
| Chromium | | 12 | 0.97 | mg/Kg | 6010B |
| Nickel | | 24 | 0.97 | mg/Kg | 6010B |
| Lead | | 210 | 0.97 | mg/Kg | 6010B |
| Zinc | | 200 | 0.97 | mg/Kg | 6010B |
| ***Silica Gel Cleanup*** | | | | | |
| Diesel Range Organics [C10-C28] | | 2.8 | 1.0 | mg/Kg | 8015B |
| **720-17028-10** | **SB-109 1'-2'** | | | | |
| Chromium | | 14 | 0.96 | mg/Kg | 6010B |
| Nickel | | 12 | 0.96 | mg/Kg | 6010B |
| Lead | | 160 | 0.96 | mg/Kg | 6010B |
| Zinc | | 210 | 0.96 | mg/Kg | 6010B |
| ***Silica Gel Cleanup*** | | | | | |
| Diesel Range Organics [C10-C28] | | 7.6 | 1.0 | mg/Kg | 8015B |

# EXECUTIVE SUMMARY - Detections

Client: Chemical Data Management Job Number: 720-17028-1

| Lab Sample ID / Analyte | Client Sample ID | Result / Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|
| **720-17028-11** | **SB-109 4'-5'** | | | | |
| Chromium | | 19 | 0.95 | mg/Kg | 6010B |
| Nickel | | 14 | 0.95 | mg/Kg | 6010B |
| Lead | | 120 | 0.95 | mg/Kg | 6010B |
| Zinc | | 200 | 0.95 | mg/Kg | 6010B |
| ***Silica Gel Cleanup*** | | | | | |
| Diesel Range Organics [C10-C28] | | 8.4 | 1.0 | mg/Kg | 8015B |
| **720-17028-12** | **SB-109 7'-8'** | | | | |
| Chromium | | 13 | 0.95 | mg/Kg | 6010B |
| Nickel | | 10 | 0.95 | mg/Kg | 6010B |
| Lead | | 4.8 | 0.95 | mg/Kg | 6010B |
| Zinc | | 10 | 0.95 | mg/Kg | 6010B |
| **720-17028-13** | **SB-110 1'-2'** | | | | |
| Chromium | | 25 | 0.98 | mg/Kg | 6010B |
| Nickel | | 19 | 0.98 | mg/Kg | 6010B |
| Lead | | 87 | 0.98 | mg/Kg | 6010B |
| Zinc | | 290 | 0.98 | mg/Kg | 6010B |
| ***Silica Gel Cleanup*** | | | | | |
| Diesel Range Organics [C10-C28] | | 1.5 | 1.0 | mg/Kg | 8015B |
| **720-17028-14** | **SB-110 4'-5'** | | | | |
| Chromium | | 17 | 0.98 | mg/Kg | 6010B |
| Nickel | | 11 | 0.98 | mg/Kg | 6010B |
| Lead | | 10 | 0.98 | mg/Kg | 6010B |
| Zinc | | 26 | 0.98 | mg/Kg | 6010B |
| **720-17028-15** | **SB-110 7'-8'** | | | | |
| Chromium | | 13 | 0.96 | mg/Kg | 6010B |
| Nickel | | 8.4 | 0.96 | mg/Kg | 6010B |
| Lead | | 5.3 | 0.96 | mg/Kg | 6010B |
| Zinc | | 7.8 | 0.96 | mg/Kg | 6010B |

## EXECUTIVE SUMMARY - Detections

Client: Chemical Data Management Job Number: 720-17028-1

| Lab Sample ID / Analyte | Client Sample ID | Result / Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|
| **720-17028-16** | **SB-108 1'-2'** | | | | |
| Chromium | | 52 | 0.96 | mg/Kg | 6010B |
| Nickel | | 59 | 0.96 | mg/Kg | 6010B |
| Lead | | 12 | 0.96 | mg/Kg | 6010B |
| Zinc | | 41 | 0.96 | mg/Kg | 6010B |
| ***Silica Gel Cleanup*** | | | | | |
| Diesel Range Organics [C10-C28] | | 2.6 | 1.0 | mg/Kg | 8015B |
| **720-17028-17** | **SB-108 4'-5'** | | | | |
| Chromium | | 25 | 0.95 | mg/Kg | 6010B |
| Nickel | | 24 | 0.95 | mg/Kg | 6010B |
| Lead | | 65 | 0.95 | mg/Kg | 6010B |
| Zinc | | 100 | 0.95 | mg/Kg | 6010B |
| ***Silica Gel Cleanup*** | | | | | |
| Diesel Range Organics [C10-C28] | | 49 | 1.0 | mg/Kg | 8015B |
| Motor Oil Range Organics [C24-C36] | | 110 | 50 | mg/Kg | 8015B |
| C19-C36 | | 150 | 50 | mg/Kg | 8015B |
| **720-17028-18** | **SB-108 7'-8'** | | | | |
| Chromium | | 14 | 0.99 | mg/Kg | 6010B |
| Nickel | | 10 | 0.99 | mg/Kg | 6010B |
| Lead | | 4.8 | 0.99 | mg/Kg | 6010B |
| Zinc | | 9.3 | 0.99 | mg/Kg | 6010B |
| **720-17028-19** | **SB-107 1'-2'** | | | | |
| Cadmium | | 1.3 | 0.52 | mg/Kg | 6010B |
| Chromium | | 72 | 1.0 | mg/Kg | 6010B |
| Nickel | | 72 | 1.0 | mg/Kg | 6010B |
| Lead | | 260 | 1.0 | mg/Kg | 6010B |
| Zinc | | 580 | 1.0 | mg/Kg | 6010B |
| ***Silica Gel Cleanup*** | | | | | |
| Diesel Range Organics [C10-C28] | | 5500 | 50 | mg/Kg | 8015B |
| Motor Oil Range Organics [C24-C36] | | 11000 | 2500 | mg/Kg | 8015B |
| C19-C36 | | 15000 | 2500 | mg/Kg | 8015B |

# EXECUTIVE SUMMARY - Detections

Client: Chemical Data Management Job Number: 720-17028-1

| Lab Sample ID / Analyte | Client Sample ID | Result / Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|
| **720-17028-20** | **SB-107 3'-4'** | | | | |
| Chromium | | 14 | 1.0 | mg/Kg | 6010B |
| Nickel | | 10 | 1.0 | mg/Kg | 6010B |
| Lead | | 23 | 1.0 | mg/Kg | 6010B |
| Zinc | | 49 | 1.0 | mg/Kg | 6010B |
| ***Silica Gel Cleanup*** | | | | | |
| Diesel Range Organics [C10-C28] | | 230 | 5.0 | mg/Kg | 8015B |
| Motor Oil Range Organics [C24-C36] | | 520 | 250 | mg/Kg | 8015B |
| C19-C36 | | 700 | 250 | mg/Kg | 8015B |
| **720-17028-21** | **SB-107 7'-8'** | | | | |
| Chromium | | 14 | 0.95 | mg/Kg | 6010B |
| Nickel | | 11 | 0.95 | mg/Kg | 6010B |
| Lead | | 5.2 | 0.95 | mg/Kg | 6010B |
| Zinc | | 12 | 0.95 | mg/Kg | 6010B |
| **720-17028-22** | **W-107** | | | | |
| ***Dissolved*** | | | | | |
| Diesel Range Organics [C10-C28] | | 62 | 50 | ug/L | 8015B |
| Cadmium | | 0.0031 | 0.0020 | mg/L | 6010B |
| Chromium | | 0.022 | 0.0050 | mg/L | 6010B |
| Nickel | | 0.48 | 0.0050 | mg/L | 6010B |
| Lead | | 0.12 | 0.0050 | mg/L | 6010B |
| Zinc | | 1.3 | 0.010 | mg/L | 6010B |
| **720-17028-23** | **W-108** | | | | |
| ***Dissolved*** | | | | | |
| Diesel Range Organics [C10-C28] | | 58 | 50 | ug/L | 8015B |
| Cadmium | | 0.0022 | 0.0020 | mg/L | 6010B |
| Chromium | | 0.025 | 0.0050 | mg/L | 6010B |
| Nickel | | 0.076 | 0.0050 | mg/L | 6010B |
| Lead | | 5.6 | 0.0050 | mg/L | 6010B |
| Zinc | | 0.97 | 0.010 | mg/L | 6010B |
| **720-17028-24** | **W-109** | | | | |
| ***Dissolved*** | | | | | |
| Zinc | | 0.018 | 0.010 | mg/L | 6010B |

# EXECUTIVE SUMMARY - Detections

Client: Chemical Data Management Job Number: 720-17028-1

| Lab Sample ID / Analyte | Client Sample ID | Result / Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|
| **720-17028-25** | **W-105** | | | | |
| ***Dissolved*** | | | | | |
| Diesel Range Organics [C10-C28] | | 52 | 50 | ug/L | 8015B |
| Nickel | | 0.052 | 0.0050 | mg/L | 6010B |
| Lead | | 0.0094 | 0.0050 | mg/L | 6010B |
| Zinc | | 0.93 | 0.010 | mg/L | 6010B |

# METHOD SUMMARY

Client: Chemical Data Management | Job Number: 720-17028-1

| Description | Lab Location | Method | Preparation Method |
|---|---|---|---|
| **Matrix: Solid** | | | |
| Diesel Range Organics (DRO) (GC) | TAL SF | SW846 8015B | |
| Ultrasonic Extraction | TAL SF | | SW846 3550B |
| Metals (ICP) | TAL SF | SW846 6010B | |
| Preparation, Metals | TAL SF | | SW846 3050B |
| **Matrix: Water** | | | |
| Diesel Range Organics (DRO) (GC) | TAL SF | SW846 8015B | |
| Sample Filtration | TAL SF | | FILTRATION |
| Liquid-Liquid Extraction (Separatory Funnel) | TAL SF | | SW846 3510C SGC |
| Metals (ICP) | TAL SF | SW846 6010B | |
| Sample Filtration | TAL SF | | FILTRATION |
| Preparation, Soluble | TAL SF | | Soluble Metals |

**Lab References:**

TAL SF = TestAmerica San Francisco

**Method References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

# SAMPLE SUMMARY

Client: Chemical Data Management Job Number: 720-17028-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---|---|---|---|---|
| 720-17028-1 | SB-104 1'-2' | Solid | 11/21/2008 1030 | 11/21/2008 1520 |
| 720-17028-2 | SB-104 3'-4' | Solid | 11/21/2008 1030 | 11/21/2008 1520 |
| 720-17028-3 | SB-104 7'-8' | Solid | 11/21/2008 1030 | 11/21/2008 1520 |
| 720-17028-4 | SB-105 1'-2' | Solid | 11/21/2008 1025 | 11/21/2008 1520 |
| 720-17028-5 | SB-105 3'-4' | Solid | 11/21/2008 1025 | 11/21/2008 1520 |
| 720-17028-6 | SB-105 7'-8' | Solid | 11/21/2008 1025 | 11/21/2008 1520 |
| 720-17028-7 | SB-106 1'6"-2'6" | Solid | 11/21/2008 0945 | 11/21/2008 1520 |
| 720-17028-8 | SB-106 4'-5' | Solid | 11/21/2008 0945 | 11/21/2008 1520 |
| 720-17028-9 | SB-106 7'-8' | Solid | 11/21/2008 0945 | 11/21/2008 1520 |
| 720-17028-10 | SB-109 1'-2' | Solid | 11/21/2008 0930 | 11/21/2008 1520 |
| 720-17028-11 | SB-109 4'-5' | Solid | 11/21/2008 0930 | 11/21/2008 1520 |
| 720-17028-12 | SB-109 7'-8' | Solid | 11/21/2008 0930 | 11/21/2008 1520 |
| 720-17028-13 | SB-110 1'-2' | Solid | 11/21/2008 0915 | 11/21/2008 1520 |
| 720-17028-14 | SB-110 4'-5' | Solid | 11/21/2008 0915 | 11/21/2008 1520 |
| 720-17028-15 | SB-110 7'-8' | Solid | 11/21/2008 0915 | 11/21/2008 1520 |
| 720-17028-16 | SB-108 1'-2' | Solid | 11/21/2008 0900 | 11/21/2008 1520 |
| 720-17028-17 | SB-108 4'-5' | Solid | 11/21/2008 0900 | 11/21/2008 1520 |
| 720-17028-18 | SB-108 7'-8' | Solid | 11/21/2008 0900 | 11/21/2008 1520 |
| 720-17028-19 | SB-107 1'-2' | Solid | 11/21/2008 0830 | 11/21/2008 1520 |
| 720-17028-20 | SB-107 3'-4' | Solid | 11/21/2008 0830 | 11/21/2008 1520 |
| 720-17028-21 | SB-107 7'-8' | Solid | 11/21/2008 0830 | 11/21/2008 1520 |
| 720-17028-22 | W-107 | Water | 11/21/2008 0945 | 11/21/2008 1520 |
| 720-17028-23 | W-108 | Water | 11/21/2008 1000 | 11/21/2008 1520 |
| 720-17028-24 | W-109 | Water | 11/21/2008 1010 | 11/21/2008 1520 |
| 720-17028-25 | W-105 | Water | 11/21/2008 1145 | 11/21/2008 1520 |

Client: Chemical Data Management | Job Number: 720-17028-1

**Client Sample ID: SB-104 1'-2'**

Lab Sample ID: 720-17028-1 | Date Sampled: 11/21/2008 1030
Client Matrix: Solid | Date Received: 11/21/2008 1520

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B | Analysis Batch: 720-44490 | Instrument ID: HP DRO5
Preparation: 3550B | Prep Batch: 720-44391 | Lab File ID: N/A
Dilution: 1.0 | Initial Weight/Volume: 30.04 g
Date Analyzed: 11/28/2008 2114 | Final Weight/Volume: 5 mL
Date Prepared: 11/26/2008 1826 | Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 2.2 | | 1.0 |
| Motor Oil Range Organics [C24-C36] | | ND | | 50 |
| C19-C36 | | ND | | 50 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 85 | 41 - 105 |

Client: Chemical Data Management | Job Number: 720-17028-1

**Client Sample ID: SB-104 3'-4'**

Lab Sample ID: 720-17028-2 | Date Sampled: 11/21/2008 1030
Client Matrix: Solid | Date Received: 11/21/2008 1520

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B | Analysis Batch: 720-44490 | Instrument ID: HP DRO5
Preparation: 3550B | Prep Batch: 720-44391 | Lab File ID: N/A
Dilution: 1.0 | Initial Weight/Volume: 30.08 g
Date Analyzed: 11/29/2008 0141 | Final Weight/Volume: 5 mL
Date Prepared: 11/26/2008 1826 | Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 6.1 | | 1.0 |
| Motor Oil Range Organics [C24-C36] | | ND | | 50 |
| C19-C36 | | ND | | 50 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 71 | 41 - 105 |

Client: Chemical Data Management | Job Number: 720-17028-1

**Client Sample ID: SB-104 7'-8'**

Lab Sample ID: 720-17028-3 | Date Sampled: 11/21/2008 1030
Client Matrix: Solid | Date Received: 11/21/2008 1520

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B | Analysis Batch: 720-44490 | Instrument ID: HP DRO5
Preparation: 3550B | Prep Batch: 720-44391 | Lab File ID: N/A
Dilution: 1.0 | Initial Weight/Volume: 30.01 g
Date Analyzed: 11/29/2008 0540 | Final Weight/Volume: 5 mL
Date Prepared: 11/26/2008 1826 | Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | ND | | 1.0 |
| Motor Oil Range Organics [C24-C36] | | ND | | 50 |
| C19-C36 | | ND | | 50 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 84 | 41 - 105 |

Client: Chemical Data Management | Job Number: 720-17028-1

**Client Sample ID: SB-105 1'-2'**

Lab Sample ID: 720-17028-4 | Date Sampled: 11/21/2008 1025
Client Matrix: Solid | Date Received: 11/21/2008 1520

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B | Analysis Batch: 720-44490 | Instrument ID: HP DRO5
Preparation: 3550B | Prep Batch: 720-44391 | Lab File ID: N/A
Dilution: 1.0 | Initial Weight/Volume: 30.01 g
Date Analyzed: 11/29/2008 0607 | Final Weight/Volume: 5 mL
Date Prepared: 11/26/2008 1826 | Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | ND | | 1.0 |
| Motor Oil Range Organics [C24-C36] | | ND | | 50 |
| C19-C36 | | ND | | 50 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 80 | 41 - 105 |

Client: Chemical Data Management | Job Number: 720-17028-1

**Client Sample ID: SB-105 3'-4'**

Lab Sample ID: 720-17028-5 | Date Sampled: 11/21/2008 1025
Client Matrix: Solid | Date Received: 11/21/2008 1520

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B | Analysis Batch: 720-44490 | Instrument ID: HP DRO5
Preparation: 3550B | Prep Batch: 720-44391 | Lab File ID: N/A
Dilution: 1.0 | Initial Weight/Volume: 30.06 g
Date Analyzed: 11/29/2008 0207 | Final Weight/Volume: 5 mL
Date Prepared: 11/26/2008 1826 | Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 3.4 | | 1.0 |
| Motor Oil Range Organics [C24-C36] | | ND | | 50 |
| C19-C36 | | ND | | 50 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 79 | 41 - 105 |

Client: Chemical Data Management | Job Number: 720-17028-1

**Client Sample ID: SB-105 7'-8'**

Lab Sample ID: 720-17028-6 | Date Sampled: 11/21/2008 1025
Client Matrix: Solid | Date Received: 11/21/2008 1520

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B | Analysis Batch: 720-44490 | Instrument ID: HP DRO5
Preparation: 3550B | Prep Batch: 720-44391 | Lab File ID: N/A
Dilution: 1.0 | Initial Weight/Volume: 30.08 g
Date Analyzed: 11/29/2008 0633 | Final Weight/Volume: 5 mL
Date Prepared: 11/26/2008 1826 | Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | ND | | 1.0 |
| Motor Oil Range Organics [C24-C36] | | ND | | 50 |
| C19-C36 | | ND | | 50 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 83 | 41 - 105 |

Client: Chemical Data Management | Job Number: 720-17028-1

**Client Sample ID:** **SB-106 1'6"-2'6"**

Lab Sample ID: 720-17028-7 | Date Sampled: 11/21/2008 0945
Client Matrix: Solid | Date Received: 11/21/2008 1520

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B | Analysis Batch: 720-44490 | Instrument ID: HP DRO5
Preparation: 3550B | Prep Batch: 720-44391 | Lab File ID: N/A
Dilution: 1.0 | Initial Weight/Volume: 30.05 g
Date Analyzed: 11/29/2008 0700 | Final Weight/Volume: 5 mL
Date Prepared: 11/26/2008 1826 | Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | ND | | 1.0 |
| Motor Oil Range Organics [C24-C36] | | ND | | 50 |
| C19-C36 | | ND | | 50 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 84 | 41 - 105 |

Client: Chemical Data Management | Job Number: 720-17028-1

**Client Sample ID: SB-106 4'-5'**

Lab Sample ID: 720-17028-8 | Date Sampled: 11/21/2008 0945
Client Matrix: Solid | Date Received: 11/21/2008 1520

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B | Analysis Batch: 720-44490 | Instrument ID: HP DRO5
Preparation: 3550B | Prep Batch: 720-44391 | Lab File ID: N/A
Dilution: 10 | Initial Weight/Volume: 30.03 g
Date Analyzed: 12/01/2008 1436 | Final Weight/Volume: 5 mL
Date Prepared: 11/26/2008 1826 | Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 1100 | | 10 |
| Motor Oil Range Organics [C24-C36] | | 1900 | | 500 |
| C19-C36 | | 2800 | | 500 |

| Surrogate | %Rec | | Acceptance Limits |
|---|---|---|---|
| Capric Acid (Surr) | 0 | | 0 - 5 |
| p-Terphenyl | 0 | D | 41 - 105 |

Client: Chemical Data Management | Job Number: 720-17028-1

**Client Sample ID: SB-106 7'-8'**

Lab Sample ID: 720-17028-9 | Date Sampled: 11/21/2008 0945
Client Matrix: Solid | Date Received: 11/21/2008 1520

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B | Analysis Batch: 720-44490 | Instrument ID: HP DRO5
Preparation: 3550B | Prep Batch: 720-44391 | Lab File ID: N/A
Dilution: 1.0 | Initial Weight/Volume: 30.07 g
Date Analyzed: 12/01/2008 1221 | Final Weight/Volume: 5 mL
Date Prepared: 11/26/2008 1826 | Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 2.8 | | 1.0 |
| Motor Oil Range Organics [C24-C36] | | ND | | 50 |
| C19-C36 | | ND | | 50 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 58 | 41 - 105 |

Client: Chemical Data Management | Job Number: 720-17028-1

**Client Sample ID:** **SB-109 1'-2'**

Lab Sample ID: 720-17028-10 | Date Sampled: 11/21/2008 0930
Client Matrix: Solid | Date Received: 11/21/2008 1520

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 720-44490 | | Instrument ID: | HP DRO5 |
| Preparation: | 3550B | Prep Batch: 720-44391 | | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.08 g |
| Date Analyzed: | 12/01/2008 1315 | | | Final Weight/Volume: | 5 mL |
| Date Prepared: | 11/26/2008 1826 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 7.6 | | 1.0 |
| Motor Oil Range Organics [C24-C36] | | ND | | 50 |
| C19-C36 | | ND | | 50 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 57 | 41 - 105 |

Client: Chemical Data Management | Job Number: 720-17028-1

**Client Sample ID: SB-109 4'-5'**

Lab Sample ID: 720-17028-11 | Date Sampled: 11/21/2008 0930
Client Matrix: Solid | Date Received: 11/21/2008 1520

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B | Analysis Batch: 720-44490 | Instrument ID: HP DRO5
Preparation: 3550B | Prep Batch: 720-44391 | Lab File ID: N/A
Dilution: 1.0 | Initial Weight/Volume: 30.10 g
Date Analyzed: 11/29/2008 0354 | Final Weight/Volume: 5 mL
Date Prepared: 11/26/2008 1826 | Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 8.4 | | 1.0 |
| Motor Oil Range Organics [C24-C36] | | ND | | 50 |
| C19-C36 | | ND | | 50 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 74 | 41 - 105 |

Client: Chemical Data Management

Job Number: 720-17028-1

**Client Sample ID: SB-109 7'-8'**

Lab Sample ID: 720-17028-12
Client Matrix: Solid

Date Sampled: 11/21/2008 0930
Date Received: 11/21/2008 1520

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/29/2008 0726
Date Prepared: 11/26/2008 1826

Analysis Batch: 720-44490
Prep Batch: 720-44391

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.05 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | ND | | 1.0 |
| Motor Oil Range Organics [C24-C36] | | ND | | 50 |
| C19-C36 | | ND | | 50 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 94 | 41 - 105 |

Client: Chemical Data Management

Job Number: 720-17028-1

**Client Sample ID: SB-110 1'-2'**

Lab Sample ID: 720-17028-13
Client Matrix: Solid

Date Sampled: 11/21/2008 0915
Date Received: 11/21/2008 1520

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/29/2008 0753
Date Prepared: 11/26/2008 1826

Analysis Batch: 720-44490
Prep Batch: 720-44391

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.03 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 1.5 | | 1.0 |
| Motor Oil Range Organics [C24-C36] | | ND | | 50 |
| C19-C36 | | ND | | 50 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 78 | 41 - 105 |

Client: Chemical Data Management

Job Number: 720-17028-1

**Client Sample ID: SB-110 4'-5'**

Lab Sample ID: 720-17028-14
Client Matrix: Solid

Date Sampled: 11/21/2008 0915
Date Received: 11/21/2008 1520

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/29/2008 0820
Date Prepared: 11/26/2008 1826

Analysis Batch: 720-44490
Prep Batch: 720-44391

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.01 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | ND | | 1.0 |
| Motor Oil Range Organics [C24-C36] | | ND | | 50 |
| C19-C36 | | ND | | 50 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 94 | 41 - 105 |

Client: Chemical Data Management | Job Number: 720-17028-1

**Client Sample ID: SB-110 7'-8'**

Lab Sample ID: 720-17028-15 | Date Sampled: 11/21/2008 0915
Client Matrix: Solid | Date Received: 11/21/2008 1520

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B | Analysis Batch: 720-44490 | Instrument ID: HP DRO5
Preparation: 3550B | Prep Batch: 720-44391 | Lab File ID: N/A
Dilution: 1.0 | Initial Weight/Volume: 30.04 g
Date Analyzed: 11/29/2008 0847 | Final Weight/Volume: 5 mL
Date Prepared: 11/26/2008 1826 | Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | ND | | 1.0 |
| Motor Oil Range Organics [C24-C36] | | ND | | 50 |
| C19-C36 | | ND | | 50 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 85 | 41 - 105 |

Client: Chemical Data Management

Job Number: 720-17028-1

**Client Sample ID: SB-108 1'-2'**

Lab Sample ID: 720-17028-16
Client Matrix: Solid

Date Sampled: 11/21/2008 0900
Date Received: 11/21/2008 1520

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/29/2008 1129
Date Prepared: 11/26/2008 1826

Analysis Batch: 720-44490
Prep Batch: 720-44391

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.07 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 2.6 | | 1.0 |
| Motor Oil Range Organics [C24-C36] | | ND | | 50 |
| C19-C36 | | ND | | 50 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 62 | 41 - 105 |

Client: Chemical Data Management | Job Number: 720-17028-1

**Client Sample ID: SB-108 4'-5'**

Lab Sample ID: 720-17028-17 | Date Sampled: 11/21/2008 0900
Client Matrix: Solid | Date Received: 11/21/2008 1520

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B | Analysis Batch: 720-44490 | Instrument ID: HP DRO5
Preparation: 3550B | Prep Batch: 720-44391 | Lab File ID: N/A
Dilution: 1.0 | Initial Weight/Volume: 30.04 g
Date Analyzed: 12/01/2008 1342 | Final Weight/Volume: 5 mL
Date Prepared: 11/26/2008 1826 | Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 49 | | 1.0 |
| Motor Oil Range Organics [C24-C36] | | 110 | | 50 |
| C19-C36 | | 150 | | 50 |

| Surrogate | %Rec | | Acceptance Limits |
|---|---|---|---|
| Capric Acid (Surr) | 0 | | 0 - 5 |
| p-Terphenyl | 39 | X | 41 - 105 |

Client: Chemical Data Management

Job Number: 720-17028-1

**Client Sample ID: SB-108 7'-8'**

Lab Sample ID: 720-17028-18
Client Matrix: Solid

Date Sampled: 11/21/2008 0900
Date Received: 11/21/2008 1520

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/29/2008 1156
Date Prepared: 11/26/2008 1826

Analysis Batch: 720-44490
Prep Batch: 720-44391

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.05 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | ND | | 1.0 |
| Motor Oil Range Organics [C24-C36] | | ND | | 50 |
| C19-C36 | | ND | | 50 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 1 | 0 - 5 |
| p-Terphenyl | 83 | 41 - 105 |

Client: Chemical Data Management | Job Number: 720-17028-1

**Client Sample ID: SB-107 1'-2'**

Lab Sample ID: 720-17028-19 | Date Sampled: 11/21/2008 0830
Client Matrix: Solid | Date Received: 11/21/2008 1520

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B | Analysis Batch: 720-44490 | Instrument ID: HP DRO5
Preparation: 3550B | Prep Batch: 720-44391 | Lab File ID: N/A
Dilution: 50 | Initial Weight/Volume: 30.08 g
Date Analyzed: 12/01/2008 1503 | Final Weight/Volume: 5 mL
Date Prepared: 11/26/2008 1826 | Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 5500 | | 50 |
| Motor Oil Range Organics [C24-C36] | | 11000 | | 2500 |
| C19-C36 | | 15000 | | 2500 |

| Surrogate | %Rec | | Acceptance Limits |
|---|---|---|---|
| Capric Acid (Surr) | 0 | | 0 - 5 |
| p-Terphenyl | 0 | D | 41 - 105 |

Client: Chemical Data Management | Job Number: 720-17028-1

**Client Sample ID: SB-107 3'-4'**

Lab Sample ID: 720-17028-20 | Date Sampled: 11/21/2008 0830
Client Matrix: Solid | Date Received: 11/21/2008 1520

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B | Analysis Batch: 720-44490 | Instrument ID: HP DRO5
Preparation: 3550B | Prep Batch: 720-44391 | Lab File ID: N/A
Dilution: 5.0 | Initial Weight/Volume: 30.02 g
Date Analyzed: 12/01/2008 1409 | Final Weight/Volume: 5 mL
Date Prepared: 11/26/2008 1826 | Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 230 | | 5.0 |
| Motor Oil Range Organics [C24-C36] | | 520 | | 250 |
| C19-C36 | | 700 | | 250 |

| Surrogate | %Rec | | Acceptance Limits |
|---|---|---|---|
| Capric Acid (Surr) | 0 | | 0 - 5 |
| p-Terphenyl | 0 | D | 41 - 105 |

Client: Chemical Data Management | Job Number: 720-17028-1

**Client Sample ID: SB-107 7'-8'**

Lab Sample ID: 720-17028-21 | Date Sampled: 11/21/2008 0830
Client Matrix: Solid | Date Received: 11/21/2008 1520

**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method: 8015B | Analysis Batch: 720-44448 | Instrument ID: HP DRO5
Preparation: 3550B | Prep Batch: 720-44354 | Lab File ID: N/A
Dilution: 1.0 | Initial Weight/Volume: 30.06 g
Date Analyzed: 11/29/2008 0207 | Final Weight/Volume: 5 mL
Date Prepared: 11/26/2008 2006 | Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | ND | | 1.0 |
| Motor Oil Range Organics [C24-C36] | | ND | | 50 |
| C19-C36 | | ND | | 50 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 88 | 41 - 105 |

Client: Chemical Data Management

Job Number: 720-17028-1

**Client Sample ID:** **W-107**

Lab Sample ID: 720-17028-22
Client Matrix: Water

Date Sampled: 11/21/2008 0945
Date Received: 11/21/2008 1520

**8015B Diesel Range Organics (DRO) (GC)-Dissolved**

Method: 8015B
Preparation: 3510C SGC
Dilution: 1.0
Date Analyzed: 11/26/2008 2044
Date Prepared: 11/24/2008 1910

Analysis Batch: 720-44424
Prep Batch: 720-44226

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Diesel Range Organics [C10-C28] | 62 | | 50 |
| Motor Oil Range Organics [C24-C36] | ND | | 500 |
| C19-C36 | ND | | 500 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 2 | 0 - 5 |
| p-Terphenyl | 51 | 46 - 114 |

Client: Chemical Data Management

Job Number: 720-17028-1

**Client Sample ID: W-108**

Lab Sample ID: 720-17028-23
Client Matrix: Water

Date Sampled: 11/21/2008 1000
Date Received: 11/21/2008 1520

**8015B Diesel Range Organics (DRO) (GC)-Dissolved**

Method: 8015B
Preparation: 3510C SGC
Dilution: 1.0
Date Analyzed: 11/26/2008 2112
Date Prepared: 11/24/2008 1910

Analysis Batch: 720-44424
Prep Batch: 720-44226

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Diesel Range Organics [C10-C28] | 58 | | 50 |
| Motor Oil Range Organics [C24-C36] | ND | | 500 |
| C19-C36 | ND | | 500 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 2 | 0 - 5 |
| p-Terphenyl | 47 | 46 - 114 |

Client: Chemical Data Management

Job Number: 720-17028-1

**Client Sample ID: W-109**

Lab Sample ID: 720-17028-24
Client Matrix: Water

Date Sampled: 11/21/2008 1010
Date Received: 11/21/2008 1520

**8015B Diesel Range Organics (DRO) (GC)-Dissolved**

Method: 8015B
Preparation: 3510C SGC
Dilution: 1.0
Date Analyzed: 11/26/2008 2138
Date Prepared: 11/24/2008 1910

Analysis Batch: 720-44424
Prep Batch: 720-44226

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 50 |
| Motor Oil Range Organics [C24-C36] | ND | | 500 |
| C19-C36 | ND | | 500 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 49 | 46 - 114 |

Client: Chemical Data Management

Job Number: 720-17028-1

**Client Sample ID: W-105**

Lab Sample ID: 720-17028-25
Client Matrix: Water

Date Sampled: 11/21/2008 1145
Date Received: 11/21/2008 1520

**8015B Diesel Range Organics (DRO) (GC)-Dissolved**

Method: 8015B
Preparation: 3510C SGC
Dilution: 1.0
Date Analyzed: 11/26/2008 2206
Date Prepared: 11/24/2008 1910

Analysis Batch: 720-44424
Prep Batch: 720-44226

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | Result (ug/L) | Qualifier | RL |
|---|---|---|---|
| Diesel Range Organics [C10-C28] | 52 | | 50 |
| Motor Oil Range Organics [C24-C36] | ND | | 500 |
| C19-C36 | ND | | 500 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 1 | 0 - 5 |
| p-Terphenyl | 60 | 46 - 114 |

Client: Chemical Data Management

Job Number: 720-17028-1

**Client Sample ID: SB-104 1'-2'**

Lab Sample ID: 720-17028-1
Client Matrix: Solid

Date Sampled: 11/21/2008 1030
Date Received: 11/21/2008 1520

**6010B Metals (ICP)**

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/26/2008 1128
Date Prepared: 11/25/2008 1303

Analysis Batch: 720-44353
Prep Batch: 720-44282

Instrument ID: Thermo 6500 ICP
Lab File ID: N/A
Initial Weight/Volume: 0.98 g
Final Weight/Volume: 50 mL

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.51 |
| Chromium | | 32 | | 1.0 |
| Nickel | | 35 | | 1.0 |
| Lead | | 10 | | 1.0 |
| Zinc | | 34 | | 1.0 |

Client: Chemical Data Management

Job Number: 720-17028-1

**Client Sample ID: SB-104 3'-4'**

Lab Sample ID: 720-17028-2
Client Matrix: Solid

Date Sampled: 11/21/2008 1030
Date Received: 11/21/2008 1520

**6010B Metals (ICP)**

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/26/2008 1131
Date Prepared: 11/25/2008 1303

Analysis Batch: 720-44353
Prep Batch: 720-44282

Instrument ID: Thermo 6500 ICP
Lab File ID: N/A
Initial Weight/Volume: 1.02 g
Final Weight/Volume: 50 mL

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.49 |
| Chromium | | 16 | | 0.98 |
| Nickel | | 11 | | 0.98 |
| Lead | | 75 | | 0.98 |
| Zinc | | 120 | | 0.98 |

Client: Chemical Data Management

Job Number: 720-17028-1

**Client Sample ID: SB-104 7'-8'**

Lab Sample ID: 720-17028-3
Client Matrix: Solid

Date Sampled: 11/21/2008 1030
Date Received: 11/21/2008 1520

**6010B Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-44353 | | Instrument ID: | Thermo 6500 ICP |
| Preparation: | 3050B | Prep Batch: 720-44282 | | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 0.97 g |
| Date Analyzed: | 11/26/2008 1142 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/25/2008 1303 | | | | |

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.52 |
| Chromium | | 12 | | 1.0 |
| Nickel | | 8.3 | | 1.0 |
| Lead | | 13 | | 1.0 |
| Zinc | | 17 | | 1.0 |

Client: Chemical Data Management

Job Number: 720-17028-1

**Client Sample ID: SB-105 1'-2'**

Lab Sample ID: 720-17028-4
Client Matrix: Solid

Date Sampled: 11/21/2008 1025
Date Received: 11/21/2008 1520

**6010B Metals (ICP)**

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/26/2008 1146
Date Prepared: 11/25/2008 1303

Analysis Batch: 720-44353
Prep Batch: 720-44282

Instrument ID: Thermo 6500 ICP
Lab File ID: N/A
Initial Weight/Volume: 0.98 g
Final Weight/Volume: 50 mL

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.51 |
| Chromium | | 70 | | 1.0 |
| Nickel | | 82 | | 1.0 |
| Lead | | 9.0 | | 1.0 |
| Zinc | | 62 | | 1.0 |

Client: Chemical Data Management

Job Number: 720-17028-1

**Client Sample ID: SB-105 3'-4'**

Lab Sample ID: 720-17028-5
Client Matrix: Solid

Date Sampled: 11/21/2008 1025
Date Received: 11/21/2008 1520

**6010B Metals (ICP)**

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/26/2008 1149
Date Prepared: 11/25/2008 1303

Analysis Batch: 720-44353
Prep Batch: 720-44282

Instrument ID: Thermo 6500 ICP
Lab File ID: N/A
Initial Weight/Volume: 1.04 g
Final Weight/Volume: 50 mL

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.48 |
| Chromium | | 17 | | 0.96 |
| Nickel | | 12 | | 0.96 |
| Lead | | 44 | | 0.96 |
| Zinc | | 62 | | 0.96 |

Client: Chemical Data Management

Job Number: 720-17028-1

**Client Sample ID: SB-105 7'-8'**

Lab Sample ID: 720-17028-6
Client Matrix: Solid

Date Sampled: 11/21/2008 1025
Date Received: 11/21/2008 1520

**6010B Metals (ICP)**

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/26/2008 1153
Date Prepared: 11/25/2008 1303

Analysis Batch: 720-44353
Prep Batch: 720-44282

Instrument ID: Thermo 6500 ICP
Lab File ID: N/A
Initial Weight/Volume: 1.02 g
Final Weight/Volume: 50 mL

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.49 |
| Chromium | | 14 | | 0.98 |
| Nickel | | 10 | | 0.98 |
| Lead | | 17 | | 0.98 |
| Zinc | | 35 | | 0.98 |

Client: Chemical Data Management

Job Number: 720-17028-1

**Client Sample ID: SB-106 1'6"-2'6"**

Lab Sample ID: 720-17028-7
Client Matrix: Solid

Date Sampled: 11/21/2008 0945
Date Received: 11/21/2008 1520

**6010B Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-44353 | | Instrument ID: | Thermo 6500 ICP |
| Preparation: | 3050B | Prep Batch: 720-44282 | | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 0.95 g |
| Date Analyzed: | 11/26/2008 1156 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/25/2008 1303 | | | | |

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.53 |
| Chromium | | 53 | | 1.1 |
| Nickel | | 64 | | 1.1 |
| Lead | | 11 | | 1.1 |
| Zinc | | 46 | | 1.1 |

Client: Chemical Data Management

Job Number: 720-17028-1

**Client Sample ID: SB-106 4'-5'**

Lab Sample ID: 720-17028-8
Client Matrix: Solid

Date Sampled: 11/21/2008 0945
Date Received: 11/21/2008 1520

**6010B Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-44353 | | Instrument ID: | Thermo 6500 ICP |
| Preparation: | 3050B | Prep Batch: 720-44282 | | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 0.97 g |
| Date Analyzed: | 11/26/2008 1200 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/25/2008 1303 | | | | |

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.52 |
| Chromium | | 54 | | 1.0 |
| Nickel | | 79 | | 1.0 |
| Lead | | 31 | | 1.0 |
| Zinc | | 67 | | 1.0 |

Client: Chemical Data Management

Job Number: 720-17028-1

**Client Sample ID: SB-106 7'-8'**

Lab Sample ID: 720-17028-9
Client Matrix: Solid

Date Sampled: 11/21/2008 0945
Date Received: 11/21/2008 1520

**6010B Metals (ICP)**

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/26/2008 1204
Date Prepared: 11/25/2008 1303

Analysis Batch: 720-44353
Prep Batch: 720-44282

Instrument ID: Thermo 6500 ICP
Lab File ID: N/A
Initial Weight/Volume: 1.03 g
Final Weight/Volume: 50 mL

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.49 |
| Chromium | | 12 | | 0.97 |
| Nickel | | 24 | | 0.97 |
| Lead | | 210 | | 0.97 |
| Zinc | | 200 | | 0.97 |

Client: Chemical Data Management

Job Number: 720-17028-1

**Client Sample ID: SB-109 1'-2'**

Lab Sample ID: 720-17028-10
Client Matrix: Solid

Date Sampled: 11/21/2008 0930
Date Received: 11/21/2008 1520

**6010B Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-44353 | | Instrument ID: | Thermo 6500 ICP |
| Preparation: | 3050B | Prep Batch: 720-44282 | | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.04 g |
| Date Analyzed: | 11/26/2008 1207 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/25/2008 1303 | | | | |

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.48 |
| Chromium | | 14 | | 0.96 |
| Nickel | | 12 | | 0.96 |
| Lead | | 160 | | 0.96 |
| Zinc | | 210 | | 0.96 |

Client: Chemical Data Management

Job Number: 720-17028-1

**Client Sample ID: SB-109 4'-5'**

Lab Sample ID: 720-17028-11
Client Matrix: Solid

Date Sampled: 11/21/2008 0930
Date Received: 11/21/2008 1520

**6010B Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-44353 | | Instrument ID: | Thermo 6500 ICP |
| Preparation: | 3050B | Prep Batch: 720-44282 | | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.05 g |
| Date Analyzed: | 11/26/2008 1211 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/25/2008 1304 | | | | |

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.48 |
| Chromium | | 19 | | 0.95 |
| Nickel | | 14 | | 0.95 |
| Lead | | 120 | | 0.95 |
| Zinc | | 200 | | 0.95 |

Client: Chemical Data Management

Job Number: 720-17028-1

**Client Sample ID: SB-109 7'-8'**

Lab Sample ID: 720-17028-12
Client Matrix: Solid

Date Sampled: 11/21/2008 0930
Date Received: 11/21/2008 1520

**6010B Metals (ICP)**

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/26/2008 1215
Date Prepared: 11/25/2008 1304

Analysis Batch: 720-44353
Prep Batch: 720-44282

Instrument ID: Thermo 6500 ICP
Lab File ID: N/A
Initial Weight/Volume: 1.05 g
Final Weight/Volume: 50 mL

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.48 |
| Chromium | | 13 | | 0.95 |
| Nickel | | 10 | | 0.95 |
| Lead | | 4.8 | | 0.95 |
| Zinc | | 10 | | 0.95 |

Client: Chemical Data Management

Job Number: 720-17028-1

**Client Sample ID: SB-110 1'-2'**

Lab Sample ID: 720-17028-13
Client Matrix: Solid

Date Sampled: 11/21/2008 0915
Date Received: 11/21/2008 1520

**6010B Metals (ICP)**

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/26/2008 1225
Date Prepared: 11/25/2008 1304

Analysis Batch: 720-44353
Prep Batch: 720-44282

Instrument ID: Thermo 6500 ICP
Lab File ID: N/A
Initial Weight/Volume: 1.02 g
Final Weight/Volume: 50 mL

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.49 |
| Chromium | | 25 | | 0.98 |
| Nickel | | 19 | | 0.98 |
| Lead | | 87 | | 0.98 |
| Zinc | | 290 | | 0.98 |

Client: Chemical Data Management

Job Number: 720-17028-1

**Client Sample ID: SB-110 4'-5'**

Lab Sample ID: 720-17028-14
Client Matrix: Solid

Date Sampled: 11/21/2008 0915
Date Received: 11/21/2008 1520

**6010B Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-44353 | | Instrument ID: | Thermo 6500 ICP |
| Preparation: | 3050B | Prep Batch: 720-44282 | | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.02 g |
| Date Analyzed: | 11/26/2008 1229 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/25/2008 1304 | | | | |

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.49 |
| Chromium | | 17 | | 0.98 |
| Nickel | | 11 | | 0.98 |
| Lead | | 10 | | 0.98 |
| Zinc | | 26 | | 0.98 |

Client: Chemical Data Management

Job Number: 720-17028-1

**Client Sample ID: SB-110 7'-8'**

Lab Sample ID: 720-17028-15
Client Matrix: Solid

Date Sampled: 11/21/2008 0915
Date Received: 11/21/2008 1520

**6010B Metals (ICP)**

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/26/2008 1706
Date Prepared: 11/26/2008 0855

Analysis Batch: 720-44392
Prep Batch: 720-44334

Instrument ID: Thermo 6500 ICP
Lab File ID: N/A
Initial Weight/Volume: 1.04 g
Final Weight/Volume: 50 mL

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.48 |
| Chromium | | 13 | | 0.96 |
| Nickel | | 8.4 | | 0.96 |
| Lead | | 5.3 | | 0.96 |
| Zinc | | 7.8 | | 0.96 |

Client: Chemical Data Management

Job Number: 720-17028-1

**Client Sample ID: SB-108 1'-2'**

Lab Sample ID: 720-17028-16
Client Matrix: Solid

Date Sampled: 11/21/2008 0900
Date Received: 11/21/2008 1520

**6010B Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-44392 | | Instrument ID: | Thermo 6500 ICP |
| Preparation: | 3050B | Prep Batch: 720-44334 | | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.04 g |
| Date Analyzed: | 11/26/2008 1709 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/26/2008 0855 | | | | |

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.48 |
| Chromium | | 52 | | 0.96 |
| Nickel | | 59 | | 0.96 |
| Lead | | 12 | | 0.96 |
| Zinc | | 41 | | 0.96 |

Client: Chemical Data Management

Job Number: 720-17028-1

**Client Sample ID: SB-108 4'-5'**

Lab Sample ID: 720-17028-17
Client Matrix: Solid

Date Sampled: 11/21/2008 0900
Date Received: 11/21/2008 1520

**6010B Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-44392 | | Instrument ID: | Thermo 6500 ICP |
| Preparation: | 3050B | Prep Batch: 720-44334 | | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.05 g |
| Date Analyzed: | 11/26/2008 1713 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/26/2008 0855 | | | | |

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.48 |
| Chromium | | 25 | | 0.95 |
| Nickel | | 24 | | 0.95 |
| Lead | | 65 | | 0.95 |
| Zinc | | 100 | | 0.95 |

Client: Chemical Data Management

Job Number: 720-17028-1

**Client Sample ID: SB-108 7'-8'**

Lab Sample ID: 720-17028-18
Client Matrix: Solid

Date Sampled: 11/21/2008 0900
Date Received: 11/21/2008 1520

**6010B Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-44392 | | Instrument ID: | Thermo 6500 ICP |
| Preparation: | 3050B | Prep Batch: 720-44334 | | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1.01 g |
| Date Analyzed: | 11/26/2008 1717 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 11/26/2008 0855 | | | | |

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.50 |
| Chromium | | 14 | | 0.99 |
| Nickel | | 10 | | 0.99 |
| Lead | | 4.8 | | 0.99 |
| Zinc | | 9.3 | | 0.99 |

Client: Chemical Data Management

Job Number: 720-17028-1

**Client Sample ID: SB-107 1'-2'**

Lab Sample ID: 720-17028-19
Client Matrix: Solid

Date Sampled: 11/21/2008 0830
Date Received: 11/21/2008 1520

**6010B Metals (ICP)**

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/26/2008 1720
Date Prepared: 11/26/2008 0855

Analysis Batch: 720-44392
Prep Batch: 720-44334

Instrument ID: Thermo 6500 ICP
Lab File ID: N/A
Initial Weight/Volume: 0.96 g
Final Weight/Volume: 50 mL

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | 1.3 | | 0.52 |
| Chromium | | 72 | | 1.0 |
| Nickel | | 72 | | 1.0 |
| Lead | | 260 | | 1.0 |
| Zinc | | 580 | | 1.0 |

Client: Chemical Data Management

Job Number: 720-17028-1

**Client Sample ID: SB-107 3'-4'**

Lab Sample ID: 720-17028-20
Client Matrix: Solid

Date Sampled: 11/21/2008 0830
Date Received: 11/21/2008 1520

**6010B Metals (ICP)**

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/26/2008 1724
Date Prepared: 11/26/2008 0855

Analysis Batch: 720-44392
Prep Batch: 720-44334

Instrument ID: Thermo 6500 ICP
Lab File ID: N/A
Initial Weight/Volume: 0.98 g
Final Weight/Volume: 50 mL

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.51 |
| Chromium | | 14 | | 1.0 |
| Nickel | | 10 | | 1.0 |
| Lead | | 23 | | 1.0 |
| Zinc | | 49 | | 1.0 |

Client: Chemical Data Management

Job Number: 720-17028-1

**Client Sample ID: SB-107 7'-8'**

Lab Sample ID: 720-17028-21
Client Matrix: Solid

Date Sampled: 11/21/2008 0830
Date Received: 11/21/2008 1520

**6010B Metals (ICP)**

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 11/26/2008 1727
Date Prepared: 11/26/2008 0855

Analysis Batch: 720-44392
Prep Batch: 720-44334

Instrument ID: Thermo 6500 ICP
Lab File ID: N/A
Initial Weight/Volume: 1.05 g
Final Weight/Volume: 50 mL

| Analyte | DryWt Corrected: N | Result (mg/Kg) | Qualifier | RL |
|---|---|---|---|---|
| Cadmium | | ND | | 0.48 |
| Chromium | | 14 | | 0.95 |
| Nickel | | 11 | | 0.95 |
| Lead | | 5.2 | | 0.95 |
| Zinc | | 12 | | 0.95 |

Client: Chemical Data Management

Job Number: 720-17028-1

**Client Sample ID: W-107**

Lab Sample ID: 720-17028-22
Client Matrix: Water

Date Sampled: 11/21/2008 0945
Date Received: 11/21/2008 1520

**6010B Metals (ICP)-Dissolved**

Method: 6010B
Preparation: Soluble Metals
Dilution: 1.07
Date Analyzed: 11/28/2008 1015
Date Prepared: 11/28/2008 0528

Analysis Batch: 720-44410
Prep Batch: 720-44395

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

| Analyte | Result (mg/L) | Qualifier | RL |
|---|---|---|---|
| Cadmium | 0.0031 | | 0.0020 |
| Chromium | 0.022 | | 0.0050 |
| Nickel | 0.48 | | 0.0050 |
| Lead | 0.12 | | 0.0050 |
| Zinc | 1.3 | | 0.010 |

Client: Chemical Data Management

Job Number: 720-17028-1

**Client Sample ID: W-108**

Lab Sample ID: 720-17028-23
Client Matrix: Water

Date Sampled: 11/21/2008 1000
Date Received: 11/21/2008 1520

**6010B Metals (ICP)-Dissolved**

Method: 6010B
Preparation: Soluble Metals
Dilution: 1.07
Date Analyzed: 11/28/2008 1019
Date Prepared: 11/28/2008 0528

Analysis Batch: 720-44410
Prep Batch: 720-44395

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

| Analyte | Result (mg/L) | Qualifier | RL |
|---|---|---|---|
| Cadmium | 0.0022 | | 0.0020 |
| Chromium | 0.025 | | 0.0050 |
| Nickel | 0.076 | | 0.0050 |
| Lead | 5.6 | | 0.0050 |
| Zinc | 0.97 | | 0.010 |

Client: Chemical Data Management

Job Number: 720-17028-1

**Client Sample ID: W-109**

Lab Sample ID: 720-17028-24
Client Matrix: Water

Date Sampled: 11/21/2008 1010
Date Received: 11/21/2008 1520

**6010B Metals (ICP)-Dissolved**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-44410 | | Instrument ID: | Varian ICP |
| Preparation: | Soluble Metals | Prep Batch: 720-44395 | | Lab File ID: | N/A |
| Dilution: | 1.07 | | | Initial Weight/Volume: | |
| Date Analyzed: | 11/28/2008 1023 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 11/28/2008 0528 | | | | |

| Analyte | Result (mg/L) | Qualifier | RL |
|---|---|---|---|
| Cadmium | ND | | 0.0020 |
| Chromium | ND | | 0.0050 |
| Nickel | ND | | 0.0050 |
| Lead | ND | | 0.0050 |
| Zinc | 0.018 | | 0.010 |

Client: Chemical Data Management

Job Number: 720-17028-1

**Client Sample ID: W-105**

Lab Sample ID: 720-17028-25
Client Matrix: Water

Date Sampled: 11/21/2008 1145
Date Received: 11/21/2008 1520

**6010B Metals (ICP)-Dissolved**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-44410 | | Instrument ID: | Varian ICP |
| Preparation: | Soluble Metals | Prep Batch: 720-44395 | | Lab File ID: | N/A |
| Dilution: | 1.07 | | | Initial Weight/Volume: | |
| Date Analyzed: | 11/28/2008 1027 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 11/28/2008 0528 | | | | |

| Analyte | Result (mg/L) | Qualifier | RL |
|---|---|---|---|
| Cadmium | ND | | 0.0020 |
| Chromium | ND | | 0.0050 |
| Nickel | 0.052 | | 0.0050 |
| Lead | 0.0094 | | 0.0050 |
| Zinc | 0.93 | | 0.010 |

# DATA REPORTING QUALIFIERS

Client: Chemical Data Management Job Number: 720-17028-1

| Lab Section | Qualifier | Description |
|---|---|---|
| GC Semi VOA | | |
| | X | Surrogate exceeds the control limits |
| | D | Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D. |

Client: Chemical Data Management Job Number: 720-17028-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **GC Semi VOA** | | | | | |
| **Prep Batch: 720-44226** | | | | | |
| LCS 720-44218/2-B | Lab Control Spike | D | Water | 3510C SGC | |
| LCSD 720-44218/3-B | Lab Control Spike Duplicate | D | Water | 3510C SGC | |
| MB 720-44218/1-B | Method Blank | D | Water | 3510C SGC | |
| 720-17028-22 | W-107 | D | Water | 3510C SGC | |
| 720-17028-23 | W-108 | D | Water | 3510C SGC | |
| 720-17028-24 | W-109 | D | Water | 3510C SGC | |
| 720-17028-25 | W-105 | D | Water | 3510C SGC | |
| **Prep Batch: 720-44354** | | | | | |
| LCS 720-44354/2-A | Lab Control Spike | A | Solid | 3550B | |
| LCSD 720-44354/3-A | Lab Control Spike Duplicate | A | Solid | 3550B | |
| MB 720-44354/1-A | Method Blank | A | Solid | 3550B | |
| 720-17028-21 | SB-107 7'-8' | A | Solid | 3550B | |
| **Prep Batch: 720-44391** | | | | | |
| LCS 720-44391/2-A | Lab Control Spike | A | Solid | 3550B | |
| LCSD 720-44391/3-A | Lab Control Spike Duplicate | A | Solid | 3550B | |
| MB 720-44391/1-A | Method Blank | A | Solid | 3550B | |
| 720-17028-1 | SB-104 1'-2' | A | Solid | 3550B | |
| 720-17028-1MS | Matrix Spike | A | Solid | 3550B | |
| 720-17028-1MSD | Matrix Spike Duplicate | A | Solid | 3550B | |
| 720-17028-2 | SB-104 3'-4' | A | Solid | 3550B | |
| 720-17028-3 | SB-104 7'-8' | A | Solid | 3550B | |
| 720-17028-4 | SB-105 1'-2' | A | Solid | 3550B | |
| 720-17028-5 | SB-105 3'-4' | A | Solid | 3550B | |
| 720-17028-6 | SB-105 7'-8' | A | Solid | 3550B | |
| 720-17028-7 | SB-106 1'6"-2'6" | A | Solid | 3550B | |
| 720-17028-8 | SB-106 4'-5' | A | Solid | 3550B | |
| 720-17028-9 | SB-106 7'-8' | A | Solid | 3550B | |
| 720-17028-10 | SB-109 1'-2' | A | Solid | 3550B | |
| 720-17028-11 | SB-109 4'-5' | A | Solid | 3550B | |
| 720-17028-12 | SB-109 7'-8' | A | Solid | 3550B | |
| 720-17028-13 | SB-110 1'-2' | A | Solid | 3550B | |
| 720-17028-14 | SB-110 4'-5' | A | Solid | 3550B | |
| 720-17028-15 | SB-110 7'-8' | A | Solid | 3550B | |
| 720-17028-16 | SB-108 1'-2' | A | Solid | 3550B | |
| 720-17028-17 | SB-108 4'-5' | A | Solid | 3550B | |
| 720-17028-18 | SB-108 7'-8' | A | Solid | 3550B | |
| 720-17028-19 | SB-107 1'-2' | A | Solid | 3550B | |
| 720-17028-20 | SB-107 3'-4' | A | Solid | 3550B | |

Client: Chemical Data Management Job Number: 720-17028-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **GC Semi VOA** | | | | | |
| **Analysis Batch:720-44424** | | | | | |
| LCS 720-44218/2-B | Lab Control Spike | D | Water | 8015B | 720-44226 |
| LCSD 720-44218/3-B | Lab Control Spike Duplicate | D | Water | 8015B | 720-44226 |
| MB 720-44218/1-B | Method Blank | D | Water | 8015B | 720-44226 |
| 720-17028-22 | W-107 | D | Water | 8015B | 720-44226 |
| 720-17028-23 | W-108 | D | Water | 8015B | 720-44226 |
| 720-17028-24 | W-109 | D | Water | 8015B | 720-44226 |
| 720-17028-25 | W-105 | D | Water | 8015B | 720-44226 |
| **Analysis Batch:720-44448** | | | | | |
| LCS 720-44354/2-A | Lab Control Spike | A | Solid | 8015B | 720-44354 |
| LCSD 720-44354/3-A | Lab Control Spike Duplicate | A | Solid | 8015B | 720-44354 |
| MB 720-44354/1-A | Method Blank | A | Solid | 8015B | 720-44354 |
| 720-17028-21 | SB-107 7'-8' | A | Solid | 8015B | 720-44354 |
| **Analysis Batch:720-44490** | | | | | |
| LCS 720-44391/2-A | Lab Control Spike | A | Solid | 8015B | 720-44391 |
| LCSD 720-44391/3-A | Lab Control Spike Duplicate | A | Solid | 8015B | 720-44391 |
| MB 720-44391/1-A | Method Blank | A | Solid | 8015B | 720-44391 |
| 720-17028-1 | SB-104 1'-2' | A | Solid | 8015B | 720-44391 |
| 720-17028-1MS | Matrix Spike | A | Solid | 8015B | 720-44391 |
| 720-17028-1MSD | Matrix Spike Duplicate | A | Solid | 8015B | 720-44391 |
| 720-17028-2 | SB-104 3'-4' | A | Solid | 8015B | 720-44391 |
| 720-17028-3 | SB-104 7'-8' | A | Solid | 8015B | 720-44391 |
| 720-17028-4 | SB-105 1'-2' | A | Solid | 8015B | 720-44391 |
| 720-17028-5 | SB-105 3'-4' | A | Solid | 8015B | 720-44391 |
| 720-17028-6 | SB-105 7'-8' | A | Solid | 8015B | 720-44391 |
| 720-17028-7 | SB-106 1'6"-2'6" | A | Solid | 8015B | 720-44391 |
| 720-17028-8 | SB-106 4'-5' | A | Solid | 8015B | 720-44391 |
| 720-17028-9 | SB-106 7'-8' | A | Solid | 8015B | 720-44391 |
| 720-17028-10 | SB-109 1'-2' | A | Solid | 8015B | 720-44391 |
| 720-17028-11 | SB-109 4'-5' | A | Solid | 8015B | 720-44391 |
| 720-17028-12 | SB-109 7'-8' | A | Solid | 8015B | 720-44391 |
| 720-17028-13 | SB-110 1'-2' | A | Solid | 8015B | 720-44391 |
| 720-17028-14 | SB-110 4'-5' | A | Solid | 8015B | 720-44391 |
| 720-17028-15 | SB-110 7'-8' | A | Solid | 8015B | 720-44391 |
| 720-17028-16 | SB-108 1'-2' | A | Solid | 8015B | 720-44391 |
| 720-17028-17 | SB-108 4'-5' | A | Solid | 8015B | 720-44391 |
| 720-17028-18 | SB-108 7'-8' | A | Solid | 8015B | 720-44391 |
| 720-17028-19 | SB-107 1'-2' | A | Solid | 8015B | 720-44391 |
| 720-17028-20 | SB-107 3'-4' | A | Solid | 8015B | 720-44391 |

**Report Basis**
D = Dissolved
A = Silica Gel Cleanup

Client: Chemical Data Management Job Number: 720-17028-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **Metals** | | | | | |
| **Prep Batch: 720-44282** | | | | | |
| LCS 720-44282/2-A | Lab Control Spike | T | Solid | 3050B | |
| LCSD 720-44282/3-A | Lab Control Spike Duplicate | T | Solid | 3050B | |
| LCSSRM 720-44282/25-A | LCS-Standard Reference Material | T | Solid | 3050B | |
| MB 720-44282/1-A | Method Blank | T | Solid | 3050B | |
| 720-17028-1 | SB-104 1'-2' | T | Solid | 3050B | |
| 720-17028-2 | SB-104 3'-4' | T | Solid | 3050B | |
| 720-17028-3 | SB-104 7'-8' | T | Solid | 3050B | |
| 720-17028-4 | SB-105 1'-2' | T | Solid | 3050B | |
| 720-17028-5 | SB-105 3'-4' | T | Solid | 3050B | |
| 720-17028-6 | SB-105 7'-8' | T | Solid | 3050B | |
| 720-17028-7 | SB-106 1'6"-2'6" | T | Solid | 3050B | |
| 720-17028-8 | SB-106 4'-5' | T | Solid | 3050B | |
| 720-17028-9 | SB-106 7'-8' | T | Solid | 3050B | |
| 720-17028-10 | SB-109 1'-2' | T | Solid | 3050B | |
| 720-17028-11 | SB-109 4'-5' | T | Solid | 3050B | |
| 720-17028-12 | SB-109 7'-8' | T | Solid | 3050B | |
| 720-17028-13 | SB-110 1'-2' | T | Solid | 3050B | |
| 720-17028-14 | SB-110 4'-5' | T | Solid | 3050B | |
| **Prep Batch: 720-44334** | | | | | |
| LCS 720-44334/2-A | Lab Control Spike | T | Solid | 3050B | |
| LCSD 720-44334/3-A | Lab Control Spike Duplicate | T | Solid | 3050B | |
| LCSSRM 720-44334/25-A | LCS-Standard Reference Material | T | Solid | 3050B | |
| MB 720-44334/1-A | Method Blank | T | Solid | 3050B | |
| 720-17028-15 | SB-110 7'-8' | T | Solid | 3050B | |
| 720-17028-16 | SB-108 1'-2' | T | Solid | 3050B | |
| 720-17028-17 | SB-108 4'-5' | T | Solid | 3050B | |
| 720-17028-18 | SB-108 7'-8' | T | Solid | 3050B | |
| 720-17028-19 | SB-107 1'-2' | T | Solid | 3050B | |
| 720-17028-20 | SB-107 3'-4' | T | Solid | 3050B | |
| 720-17028-21 | SB-107 7'-8' | T | Solid | 3050B | |

Client: Chemical Data Management Job Number: 720-17028-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **Metals** | | | | | |
| **Analysis Batch:720-44353** | | | | | |
| LCS 720-44282/2-A | Lab Control Spike | T | Solid | 6010B | 720-44282 |
| LCSD 720-44282/3-A | Lab Control Spike Duplicate | T | Solid | 6010B | 720-44282 |
| LCSSRM 720-44282/25-A | LCS-Standard Reference Material | T | Solid | 6010B | 720-44282 |
| MB 720-44282/1-A | Method Blank | T | Solid | 6010B | 720-44282 |
| 720-17028-1 | SB-104 1'-2' | T | Solid | 6010B | 720-44282 |
| 720-17028-2 | SB-104 3'-4' | T | Solid | 6010B | 720-44282 |
| 720-17028-3 | SB-104 7'-8' | T | Solid | 6010B | 720-44282 |
| 720-17028-4 | SB-105 1'-2' | T | Solid | 6010B | 720-44282 |
| 720-17028-5 | SB-105 3'-4' | T | Solid | 6010B | 720-44282 |
| 720-17028-6 | SB-105 7'-8' | T | Solid | 6010B | 720-44282 |
| 720-17028-7 | SB-106 1'6"-2'6" | T | Solid | 6010B | 720-44282 |
| 720-17028-8 | SB-106 4'-5' | T | Solid | 6010B | 720-44282 |
| 720-17028-9 | SB-106 7'-8' | T | Solid | 6010B | 720-44282 |
| 720-17028-10 | SB-109 1'-2' | T | Solid | 6010B | 720-44282 |
| 720-17028-11 | SB-109 4'-5' | T | Solid | 6010B | 720-44282 |
| 720-17028-12 | SB-109 7'-8' | T | Solid | 6010B | 720-44282 |
| 720-17028-13 | SB-110 1'-2' | T | Solid | 6010B | 720-44282 |
| 720-17028-14 | SB-110 4'-5' | T | Solid | 6010B | 720-44282 |
| **Analysis Batch:720-44392** | | | | | |
| LCS 720-44334/2-A | Lab Control Spike | T | Solid | 6010B | 720-44334 |
| LCSD 720-44334/3-A | Lab Control Spike Duplicate | T | Solid | 6010B | 720-44334 |
| LCSSRM 720-44334/25-A | LCS-Standard Reference Material | T | Solid | 6010B | 720-44334 |
| MB 720-44334/1-A | Method Blank | T | Solid | 6010B | 720-44334 |
| 720-17028-15 | SB-110 7'-8' | T | Solid | 6010B | 720-44334 |
| 720-17028-16 | SB-108 1'-2' | T | Solid | 6010B | 720-44334 |
| 720-17028-17 | SB-108 4'-5' | T | Solid | 6010B | 720-44334 |
| 720-17028-18 | SB-108 7'-8' | T | Solid | 6010B | 720-44334 |
| 720-17028-19 | SB-107 1'-2' | T | Solid | 6010B | 720-44334 |
| 720-17028-20 | SB-107 3'-4' | T | Solid | 6010B | 720-44334 |
| 720-17028-21 | SB-107 7'-8' | T | Solid | 6010B | 720-44334 |
| **Prep Batch: 720-44395** | | | | | |
| LCS 720-44395/2-A | Lab Control Spike | S | Water | Soluble Metals | |
| LCSD 720-44395/3-A | Lab Control Spike Duplicate | S | Water | Soluble Metals | |
| MB 720-44326/1-C | Method Blank | D | Water | Soluble Metals | |
| 720-17028-22 | W-107 | D | Water | Soluble Metals | |
| 720-17028-22MS | Matrix Spike | D | Water | Soluble Metals | |
| 720-17028-22MSD | Matrix Spike Duplicate | D | Water | Soluble Metals | |
| 720-17028-23 | W-108 | D | Water | Soluble Metals | |
| 720-17028-24 | W-109 | D | Water | Soluble Metals | |
| 720-17028-25 | W-105 | D | Water | Soluble Metals | |

Client: Chemical Data Management Job Number: 720-17028-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **Metals** | | | | | |
| **Analysis Batch:720-44410** | | | | | |
| LCS 720-44395/2-A | Lab Control Spike | S | Water | 6010B | 720-44395 |
| LCSD 720-44395/3-A | Lab Control Spike Duplicate | S | Water | 6010B | 720-44395 |
| MB 720-44326/1-C | Method Blank | D | Water | 6010B | 720-44395 |
| 720-17028-22 | W-107 | D | Water | 6010B | 720-44395 |
| 720-17028-22MS | Matrix Spike | D | Water | 6010B | 720-44395 |
| 720-17028-22MSD | Matrix Spike Duplicate | D | Water | 6010B | 720-44395 |
| 720-17028-23 | W-108 | D | Water | 6010B | 720-44395 |
| 720-17028-24 | W-109 | D | Water | 6010B | 720-44395 |
| 720-17028-25 | W-105 | D | Water | 6010B | 720-44395 |

**Report Basis**
D = Dissolved
S = Soluble
T = Total

Client: Chemical Data Management

Job Number: 720-17028-1

**Method Blank - Batch: 720-44226**

**Method: 8015B**
**Preparation: 3510C SGC**
**Dissolved**

Lab Sample ID: MB 720-44218/1-B
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/26/2008 1707
Date Prepared: 11/24/2008 1549

Analysis Batch: 720-44424
Prep Batch: 720-44226
Units: ug/L

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | Result | Qual | RL |
|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 50 |
| Motor Oil Range Organics [C24-C36] | ND | | 500 |
| C19-C36 | ND | | 500 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 76 | 46 - 114 |

**Lab Control Spike/**
**Lab Control Spike Duplicate Recovery Report - Batch: 720-44226**

**Method: 8015B**
**Preparation: 3510C SGC**
**Dissolved**

LCS Lab Sample ID: LCS 720-44218/2-B
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/26/2008 1613
Date Prepared: 11/24/2008 1549

Analysis Batch: 720-44424
Prep Batch: 720-44226
Units: ug/L

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-44218/3-B
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/26/2008 1640
Date Prepared: 11/24/2008 1549

Analysis Batch: 720-44424
Prep Batch: 720-44226
Units: ug/L

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | % Rec. LCS | LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 59 | 53 | 41 - 103 | 11 | 30 | | |

| Surrogate | LCS % Rec | LCSD % Rec | Acceptance Limits |
|---|---|---|---|
| p-Terphenyl | 64 | 67 | 46 - 114 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Chemical Data Management

Job Number: 720-17028-1

**Method Blank - Batch: 720-44354**

**Method: 8015B**
**Preparation: 3550B**
**Silica Gel Cleanup**

Lab Sample ID: MB 720-44354/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/27/2008 0546
Date Prepared: 11/26/2008 1252

Analysis Batch: 720-44448
Prep Batch: 720-44354
Units: mg/Kg

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.09 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | Result | Qual | RL |
|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 1.0 |
| Motor Oil Range Organics [C24-C36] | ND | | 50 |
| C19-C36 | ND | | 50 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 94 | 41 - 105 |

**Lab Control Spike/**
**Lab Control Spike Duplicate Recovery Report - Batch: 720-44354**

**Method: 8015B**
**Preparation: 3550B**
**Silica Gel Cleanup**

LCS Lab Sample ID: LCS 720-44354/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/27/2008 0452
Date Prepared: 11/26/2008 1252

Analysis Batch: 720-44448
Prep Batch: 720-44354
Units: mg/Kg

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.08 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-44354/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/27/2008 0519
Date Prepared: 11/26/2008 1252

Analysis Batch: 720-44448
Prep Batch: 720-44354
Units: mg/Kg

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.09 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | % Rec. LCS | % Rec. LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 77 | 74 | 50 - 130 | 4 | 30 | | |

| Surrogate | LCS % Rec | LCSD % Rec | Acceptance Limits |
|---|---|---|---|
| p-Terphenyl | 89 | 89 | 41 - 105 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Chemical Data Management

Job Number: 720-17028-1

**Method Blank - Batch: 720-44391**

**Method: 8015B**
**Preparation: 3550B**
**Silica Gel Cleanup**

Lab Sample ID: MB 720-44391/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/28/2008 2354
Date Prepared: 11/26/2008 1826

Analysis Batch: 720-44490
Prep Batch: 720-44391
Units: mg/Kg

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.02 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | Result | Qual | RL |
|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 1.0 |
| Motor Oil Range Organics [C24-C36] | ND | | 50 |
| C19-C36 | ND | | 50 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| Capric Acid (Surr) | 0 | 0 - 5 |
| p-Terphenyl | 90 | 41 - 105 |

**Lab Control Spike/**
**Lab Control Spike Duplicate Recovery Report - Batch: 720-44391**

**Method: 8015B**
**Preparation: 3550B**
**Silica Gel Cleanup**

LCS Lab Sample ID: LCS 720-44391/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/28/2008 2301
Date Prepared: 11/26/2008 1826

Analysis Batch: 720-44490
Prep Batch: 720-44391
Units: mg/Kg

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.04 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-44391/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/28/2008 2327
Date Prepared: 11/26/2008 1826

Analysis Batch: 720-44490
Prep Batch: 720-44391
Units: mg/Kg

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.03 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | % Rec. LCS | % Rec. LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 80 | 74 | 50 - 130 | 7 | 30 | | |

| Surrogate | LCS % Rec | LCSD % Rec | Acceptance Limits |
|---|---|---|---|
| p-Terphenyl | 83 | 78 | 41 - 105 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Chemical Data Management

Job Number: 720-17028-1

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 720-44391**

**Method: 8015B**
**Preparation: 3550B**
**Silica Gel Cleanup**

| | | | |
|---|---|---|---|
| MS Lab Sample ID: | 720-17028-1 | Analysis Batch: 720-44490 | Instrument ID: HP DRO5 |
| Client Matrix: | Solid | Prep Batch: 720-44391 | Lab File ID: N/A |
| Dilution: | 1.0 | | Initial Weight/Volume: 30.01 g |
| Date Analyzed: | 11/28/2008 2140 | | Final Weight/Volume: 5 mL |
| Date Prepared: | 11/26/2008 1826 | | Injection Volume: |
| | | | Column ID: PRIMARY |
| MSD Lab Sample ID: | 720-17028-1 | Analysis Batch: 720-44490 | Instrument ID: HP DRO5 |
| Client Matrix: | Solid | Prep Batch: 720-44391 | Lab File ID: N/A |
| Dilution: | 1.0 | | Initial Weight/Volume: 30.07 g |
| Date Analyzed: | 11/28/2008 2207 | | Final Weight/Volume: 5 mL |
| Date Prepared: | 11/26/2008 1826 | | Injection Volume: |
| | | | Column ID: PRIMARY |

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
| Diesel Range Organics [C10-C28] | 70 | 58 | 50 - 130 | 17 | 30 | | |

| Surrogate | MS % Rec | MSD % Rec | Acceptance Limits |
|---|---|---|---|
| p-Terphenyl | 82 | 70 | 41 - 105 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Chemical Data Management

Job Number: 720-17028-1

**Method Blank - Batch: 720-44282**

**Method: 6010B**
**Preparation: 3050B**

Lab Sample ID: MB 720-44282/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/26/2008 1042
Date Prepared: 11/25/2008 1303

Analysis Batch: 720-44353
Prep Batch: 720-44282
Units: mg/Kg

Instrument ID: Thermo 6500 ICP
Lab File ID: N/A
Initial Weight/Volume: 0.96 g
Final Weight/Volume: 50 mL

| Analyte | Result | Qual | RL |
|---|---|---|---|
| Cadmium | ND | | 0.52 |
| Chromium | ND | | 1.0 |
| Nickel | ND | | 1.0 |
| Lead | ND | | 1.0 |
| Zinc | ND | | 1.0 |

**LCS-Standard Reference Material - Batch: 720-44282**

**Method: 6010B**
**Preparation: 3050B**

Lab Sample ID: LCSSRM 720-44282/25-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/26/2008 1232
Date Prepared: 11/25/2008 1304

Analysis Batch: 720-44353
Prep Batch: 720-44282
Units: mg/Kg

Instrument ID: Thermo 6500 ICP
Lab File ID: N/A
Initial Weight/Volume: 1.01 g
Final Weight/Volume: 50 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Cadmium | 42.2 | 39.5 | 94 | 67 - 118 | |
| Chromium | 246 | 227 | 92 | 67 - 121 | |
| Nickel | 96.8 | 90.7 | 94 | 65 - 117 | |
| Lead | 44.1 | 40.0 | 91 | 62 - 113 | |
| Zinc | 44.0 | 39.0 | 89 | 62 - 110 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Chemical Data Management

Job Number: 720-17028-1

**Lab Control Spike/**
**Lab Control Spike Duplicate Recovery Report - Batch: 720-44282**

**Method: 6010B**
**Preparation: 3050B**

LCS Lab Sample ID: LCS 720-44282/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/26/2008 1046
Date Prepared: 11/25/2008 1303

Analysis Batch: 720-44353
Prep Batch: 720-44282
Units: mg/Kg

Instrument ID: Thermo 6500 ICP
Lab File ID: N/A
Initial Weight/Volume: 0.95 g
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-44282/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/26/2008 1058
Date Prepared: 11/25/2008 1303

Analysis Batch: 720-44353
Prep Batch: 720-44282
Units: mg/Kg

Instrument ID: Thermo 6500 ICP
Lab File ID: N/A
Initial Weight/Volume: 1.00 g
Final Weight/Volume: 50 mL

| Analyte | % Rec. LCS | % Rec. LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
|---|---|---|---|---|---|---|---|
| Cadmium | 96 | 95 | 80 - 120 | 6 | 20 | | |
| Chromium | 96 | 95 | 80 - 120 | 6 | 20 | | |
| Nickel | 97 | 96 | 80 - 120 | 6 | 20 | | |
| Lead | 96 | 96 | 80 - 120 | 6 | 20 | | |
| Zinc | 97 | 96 | 80 - 120 | 7 | 20 | | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Chemical Data Management

Job Number: 720-17028-1

**Method Blank - Batch: 720-44334**

**Method: 6010B**
**Preparation: 3050B**

Lab Sample ID: MB 720-44334/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/26/2008 1618
Date Prepared: 11/26/2008 0855

Analysis Batch: 720-44392
Prep Batch: 720-44334
Units: mg/Kg

Instrument ID: Thermo 6500 ICP
Lab File ID: N/A
Initial Weight/Volume: 1.04 g
Final Weight/Volume: 50 mL

| Analyte | Result | Qual | RL |
|---|---|---|---|
| Cadmium | ND | | 0.48 |
| Chromium | ND | | 0.96 |
| Nickel | ND | | 0.96 |
| Lead | ND | | 0.96 |
| Zinc | ND | | 0.96 |

**LCS-Standard Reference Material - Batch: 720-44334**

**Method: 6010B**
**Preparation: 3050B**

Lab Sample ID: LCSSRM 720-44334/25-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/26/2008 1800
Date Prepared: 11/26/2008 0855

Analysis Batch: 720-44392
Prep Batch: 720-44334
Units: mg/Kg

Instrument ID: Thermo 6500 ICP
Lab File ID: N/A
Initial Weight/Volume: 1.00 g
Final Weight/Volume: 50 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Cadmium | 42.2 | 40.1 | 95 | 67 - 118 | |
| Chromium | 246 | 248 | 101 | 67 - 121 | |
| Nickel | 96.8 | 91.5 | 95 | 65 - 117 | |
| Lead | 44.1 | 41.4 | 94 | 62 - 113 | |
| Zinc | 44.0 | 38.6 | 88 | 62 - 110 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Chemical Data Management

Job Number: 720-17028-1

**Lab Control Spike/**
**Lab Control Spike Duplicate Recovery Report - Batch: 720-44334**

**Method: 6010B**
**Preparation: 3050B**

| | | | |
|---|---|---|---|
| LCS Lab Sample ID: | LCS 720-44334/2-A | Analysis Batch: 720-44392 | Instrument ID: Thermo 6500 ICP |
| Client Matrix: | Solid | Prep Batch: 720-44334 | Lab File ID: N/A |
| Dilution: | 1.0 | Units: mg/Kg | Initial Weight/Volume: 1.04 g |
| Date Analyzed: | 11/26/2008 1621 | | Final Weight/Volume: 50 mL |
| Date Prepared: | 11/26/2008 0855 | | |

| | | | |
|---|---|---|---|
| LCSD Lab Sample ID: | LCSD 720-44334/3-A | Analysis Batch: 720-44392 | Instrument ID: Thermo 6500 ICP |
| Client Matrix: | Solid | Prep Batch: 720-44334 | Lab File ID: N/A |
| Dilution: | 1.0 | Units: mg/Kg | Initial Weight/Volume: 0.97 g |
| Date Analyzed: | 11/26/2008 1625 | | Final Weight/Volume: 50 mL |
| Date Prepared: | 11/26/2008 0855 | | |

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | LCS | LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
| Cadmium | 90 | 92 | 80 - 120 | 9 | 20 | | |
| Chromium | 91 | 95 | 80 - 120 | 11 | 20 | | |
| Nickel | 91 | 93 | 80 - 120 | 8 | 20 | | |
| Lead | 90 | 92 | 80 - 120 | 9 | 20 | | |
| Zinc | 91 | 92 | 80 - 120 | 8 | 20 | | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Chemical Data Management

Job Number: 720-17028-1

**Method Blank - Batch: 720-44395**

**Method: 6010B**
**Preparation: Soluble Metals Dissolved**

Lab Sample ID: MB 720-44326/1-C
Client Matrix: Water
Dilution: 1.07
Date Analyzed: 11/28/2008 0952
Date Prepared: 11/28/2008 0528

Analysis Batch: 720-44410
Prep Batch: 720-44395
Units: mg/L

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

| Analyte | Result | Qual | RL |
|---|---|---|---|
| Cadmium | ND | | 0.0020 |
| Chromium | ND | | 0.0050 |
| Nickel | ND | | 0.0050 |
| Lead | ND | | 0.0050 |
| Zinc | ND | | 0.010 |

**Lab Control Spike/**
**Lab Control Spike Duplicate Recovery Report - Batch: 720-44395**

**Method: 6010B**
**Preparation: Soluble Metals Soluble**

LCS Lab Sample ID: LCS 720-44395/2-A
Client Matrix: Water
Dilution: 1.07
Date Analyzed: 11/28/2008 1000
Date Prepared: 11/28/2008 0528

Analysis Batch: 720-44410
Prep Batch: 720-44395
Units: mg/L

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

LCSD Lab Sample ID: LCSD 720-44395/3-A
Client Matrix: Water
Dilution: 1.07
Date Analyzed: 11/28/2008 1004
Date Prepared: 11/28/2008 0528

Analysis Batch: 720-44410
Prep Batch: 720-44395
Units: mg/L

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

| Analyte | % Rec. LCS | % Rec. LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
|---|---|---|---|---|---|---|---|
| Cadmium | 98 | 98 | 80 - 120 | 0 | 20 | | |
| Chromium | 100 | 100 | 80 - 120 | 0 | 20 | | |
| Nickel | 97 | 97 | 80 - 120 | 0 | 20 | | |
| Lead | 99 | 99 | 80 - 120 | 0 | 20 | | |
| Zinc | 98 | 98 | 80 - 120 | 0 | 20 | | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Chemical Data Management

Job Number: 720-17028-1

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 720-44395**

**Method: 6010B**
**Preparation: Soluble Metals Dissolved**

| | | | |
|---|---|---|---|
| MS Lab Sample ID: | 720-17028-22 | Analysis Batch: 720-44410 | Instrument ID: Varian ICP |
| Client Matrix: | Water | Prep Batch: 720-44395 | Lab File ID: N/A |
| Dilution: | 1.07 | | Initial Weight/Volume: |
| Date Analyzed: | 11/28/2008 1008 | | Final Weight/Volume: 1.0 mL |
| Date Prepared: | 11/28/2008 0528 | | |

| | | | |
|---|---|---|---|
| MSD Lab Sample ID: | 720-17028-22 | Analysis Batch: 720-44410 | Instrument ID: Varian ICP |
| Client Matrix: | Water | Prep Batch: 720-44395 | Lab File ID: N/A |
| Dilution: | 1.07 | | Initial Weight/Volume: |
| Date Analyzed: | 11/28/2008 1012 | | Final Weight/Volume: 1.0 mL |
| Date Prepared: | 11/28/2008 0528 | | |

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
| Cadmium | 90 | 90 | 75 - 125 | 0 | 20 | | |
| Chromium | 95 | 95 | 75 - 125 | 0 | 20 | | |
| Nickel | 88 | 88 | 75 - 125 | 0 | 20 | | |
| Lead | 90 | 90 | 75 - 125 | 0 | 20 | | |
| Zinc | 85 | 85 | 75 - 125 | 0 | 20 | | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Login Sample Receipt Check List

Client: Chemical Data Management

Job Number: 720-17028-1

**Login Number: 17028**

**List Source: TestAmerica San Francisco**

**Creator: Caparas, Criselda**

**List Number: 1**

| Question | T / F/ NA | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| The cooler's custody seal, if present, is intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | False | See Narrative |
| Sample bottles are completely filled. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |

## F. March 26, 2009 (Sampling Event March 18, 2009)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

Job Number: 720-18578-1

Job Description: Western Forge, Albany

For:
Chemical Data Management
6515 Trinity Court
Suite 201
Dublin, CA 94568-2665

Attention: Mr. Jamie Hernandez

Approved for release.
Dimple Sharma
Project Manager I
3/26/2009 4:36 PM

Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com
03/26/2009

**Comments**
No additional comments.

**Receipt**
All samples were received in good condition within temperature requirements.

**Metals**
Method(s) 6010B: The laboratory control sample (LCS) for batch 47899 recovered outside acceptance limits for all analytes. There was insufficient sample to perform a re-extraction or re-analysis; therefore, the data have been reported. The data reported is estimated based on EPA guidelines.
No other analytical or quality issues were noted.

**Organic Prep**
No analytical or quality issues were noted.

# EXECUTIVE SUMMARY - Detections

Client: Chemical Data Management Job Number: 720-18578-1

| Lab Sample ID<br>Analyte | Client Sample ID | Result / Qualifier | | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **720-18578-1** | **S-1** | | | | | |
| Chromium | | 0.35 | * | 0.0050 | mg/wipe | 6010B |
| Nickel | | 3.4 | * | 0.050 | mg/wipe | 6010B |
| Lead | | 0.24 | * | 0.0050 | mg/wipe | 6010B |
| Zinc | | 0.68 | * | 0.0050 | mg/wipe | 6010B |
| **720-18578-2** | **S-2** | | | | | |
| Chromium | | 0.10 | * | 0.0050 | mg/wipe | 6010B |
| Nickel | | 0.76 | * | 0.0050 | mg/wipe | 6010B |
| Lead | | 0.033 | * | 0.0050 | mg/wipe | 6010B |
| Zinc | | 0.15 | * | 0.0050 | mg/wipe | 6010B |
| **720-18578-3** | **S-3** | | | | | |
| Nickel | | 0.011 | * | 0.0050 | mg/wipe | 6010B |
| Zinc | | 0.12 | * | 0.0050 | mg/wipe | 6010B |

# METHOD SUMMARY

Client: Chemical Data Management

Job Number: 720-18578-1

| Description | Lab Location | Method | Preparation Method |
|---|---|---|---|
| **Matrix: Wipe** | | | |
| Metals (ICP) | TAL SF | SW846 6010B | |
| Preparation, Metals | TAL SF | | SW846 3050B |
| HEM | TAL SF | SW846 9071B | |
| HEM | TAL SF | | SW846 9071B |

**Lab References:**

TAL SF = TestAmerica San Francisco

**Method References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

# SAMPLE SUMMARY

Client: Chemical Data Management

Job Number: 720-18578-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---|---|---|---|---|
| 720-18578-1 | S-1 | Wipe | 03/18/2009 1124 | 03/18/2009 1500 |
| 720-18578-2 | S-2 | Wipe | 03/18/2009 1135 | 03/18/2009 1500 |
| 720-18578-3 | S-3 | Wipe | 03/18/2009 1147 | 03/18/2009 1500 |
| 720-18578-4 | BLANK | Wipe | 03/18/2009 0000 | 03/18/2009 1500 |

Client: Chemical Data Management

Job Number: 720-18578-1

**Client Sample ID: S-1**

Lab Sample ID: 720-18578-1
Client Matrix: Wipe

Date Sampled: 03/18/2009 1124
Date Received: 03/18/2009 1500

**6010B Metals (ICP)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-47990 | | Instrument ID: | Varian ICP |
| Preparation: | 3050B | Prep Batch: 720-47899 | | Lab File ID: | N/A |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 1 Wipe |
| Date Analyzed: | 03/24/2009 1835 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 03/23/2009 0958 | | | | |

| Analyte | Result (mg/wipe) | Qualifier | RL |
|---|---|---|---|
| Cadmium | ND | * | 0.0050 |
| Chromium | 0.35 | * | 0.0050 |
| Lead | 0.24 | * | 0.0050 |
| Zinc | 0.68 | * | 0.0050 |

| | | | | | |
|---|---|---|---|---|---|
| Method: | 6010B | Analysis Batch: 720-48003 | | Instrument ID: | Varian ICP |
| Preparation: | 3050B | Prep Batch: 720-47899 | | Lab File ID: | N/A |
| Dilution: | 10 | | | Initial Weight/Volume: | 1 Wipe |
| Date Analyzed: | 03/25/2009 1420 | | | Final Weight/Volume: | 50 mL |
| Date Prepared: | 03/23/2009 0958 | | | | |

| Analyte | Result (mg/wipe) | Qualifier | RL |
|---|---|---|---|
| Nickel | 3.4 | * | 0.050 |

Client: Chemical Data Management

Job Number: 720-18578-1

**Client Sample ID: S-2**

Lab Sample ID: 720-18578-2
Client Matrix: Wipe

Date Sampled: 03/18/2009 1135
Date Received: 03/18/2009 1500

**6010B Metals (ICP)**

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/24/2009 1839
Date Prepared: 03/23/2009 0958

Analysis Batch: 720-47990
Prep Batch: 720-47899

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 Wipe
Final Weight/Volume: 50 mL

| Analyte | Result (mg/wipe) | Qualifier | RL |
|---|---|---|---|
| Cadmium | ND | * | 0.0050 |
| Chromium | 0.10 | * | 0.0050 |
| Nickel | 0.76 | * | 0.0050 |
| Lead | 0.033 | * | 0.0050 |
| Zinc | 0.15 | * | 0.0050 |

Client: Chemical Data Management

Job Number: 720-18578-1

**Client Sample ID: S-3**

Lab Sample ID: 720-18578-3
Client Matrix: Wipe

Date Sampled: 03/18/2009 1147
Date Received: 03/18/2009 1500

**6010B Metals (ICP)**

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/24/2009 1842
Date Prepared: 03/23/2009 0958

Analysis Batch: 720-47990
Prep Batch: 720-47899

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 Wipe
Final Weight/Volume: 50 mL

| Analyte | Result (mg/wipe) | Qualifier | RL |
|---|---|---|---|
| Cadmium | ND | * | 0.0050 |
| Chromium | ND | * | 0.0050 |
| Nickel | 0.011 | * | 0.0050 |
| Lead | ND | * | 0.0050 |
| Zinc | 0.12 | * | 0.0050 |

Client: Chemical Data Management

Job Number: 720-18578-1

**Client Sample ID: BLANK**

Lab Sample ID: 720-18578-4
Client Matrix: Wipe

Date Sampled: 03/18/2009 0000
Date Received: 03/18/2009 1500

**6010B Metals (ICP)**

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/24/2009 1846
Date Prepared: 03/23/2009 0958

Analysis Batch: 720-47990
Prep Batch: 720-47899

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 Wipe
Final Weight/Volume: 50 mL

| Analyte | Result (mg/wipe) | Qualifier | RL |
|---|---|---|---|
| Cadmium | ND | * | 0.0050 |
| Chromium | ND | * | 0.0050 |
| Nickel | ND | * | 0.0050 |
| Lead | ND | * | 0.0050 |
| Zinc | ND | * | 0.0050 |

**General Chemistry**

**Client Sample ID: S-1**

Lab Sample ID: 720-18578-1 Date Sampled: 03/18/2009 1124
Client Matrix: Wipe Date Received: 03/18/2009 1500

| Analyte | Result | Qual | Units | RL | Dil | Method |
|---|---|---|---|---|---|---|
| HEM | ND | | mg/wipe | 5.0 | 1.0 | 9071B |
| | Anly Batch: 720-47909 | | Date Analyzed 03/23/2009 1145 | | | |
| | Prep Batch: 720-47906 | | Date Prepared: 03/23/2009 1134 | | | |

**Client Sample ID: S-2**

Lab Sample ID: 720-18578-2 Date Sampled: 03/18/2009 1135
Client Matrix: Wipe Date Received: 03/18/2009 1500

| Analyte | Result | Qual | Units | RL | Dil | Method |
|---|---|---|---|---|---|---|
| HEM | ND | | mg/wipe | 5.0 | 1.0 | 9071B |
| | Anly Batch: 720-47909 | | Date Analyzed 03/23/2009 1145 | | | |
| | Prep Batch: 720-47906 | | Date Prepared: 03/23/2009 1134 | | | |

**Client Sample ID: S-3**

Lab Sample ID: 720-18578-3 Date Sampled: 03/18/2009 1147
Client Matrix: Wipe Date Received: 03/18/2009 1500

| Analyte | Result | Qual | Units | RL | Dil | Method |
|---|---|---|---|---|---|---|
| HEM | ND | | mg/wipe | 5.0 | 1.0 | 9071B |
| | Anly Batch: 720-47909 | | Date Analyzed 03/23/2009 1145 | | | |
| | Prep Batch: 720-47906 | | Date Prepared: 03/23/2009 1134 | | | |

**Client Sample ID: BLANK**

Lab Sample ID: 720-18578-4 Date Sampled: 03/18/2009 0000
Client Matrix: Wipe Date Received: 03/18/2009 1500

| Analyte | Result | Qual | Units | RL | Dil | Method |
|---|---|---|---|---|---|---|
| HEM | ND | | mg/wipe | 5.0 | 1.0 | 9071B |
| | Anly Batch: 720-47909 | | Date Analyzed 03/23/2009 1145 | | | |
| | Prep Batch: 720-47906 | | Date Prepared: 03/23/2009 1134 | | | |

# DATA REPORTING QUALIFIERS

Client: Chemical Data Management Job Number: 720-18578-1

| Lab Section | Qualifier | Description |
|---|---|---|
| Metals | | |
| | * | LCS or LCSD exceeds the control limits |

Client: Chemical Data Management

Job Number: 720-18578-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **Metals** | | | | | |
| **Prep Batch: 720-47899** | | | | | |
| LCS 720-47899/2-A | Lab Control Spike | T | Wipe | 3050B | |
| LCSD 720-47899/3-A | Lab Control Spike Duplicate | T | Wipe | 3050B | |
| MB 720-47899/1-A | Method Blank | T | Wipe | 3050B | |
| 720-18578-1 | S-1 | T | Wipe | 3050B | |
| 720-18578-2 | S-2 | T | Wipe | 3050B | |
| 720-18578-3 | S-3 | T | Wipe | 3050B | |
| 720-18578-4 | BLANK | T | Wipe | 3050B | |
| **Analysis Batch:720-47990** | | | | | |
| LCS 720-47899/2-A | Lab Control Spike | T | Wipe | 6010B | 720-47899 |
| LCSD 720-47899/3-A | Lab Control Spike Duplicate | T | Wipe | 6010B | 720-47899 |
| MB 720-47899/1-A | Method Blank | T | Wipe | 6010B | 720-47899 |
| 720-18578-1 | S-1 | T | Wipe | 6010B | 720-47899 |
| 720-18578-2 | S-2 | T | Wipe | 6010B | 720-47899 |
| 720-18578-3 | S-3 | T | Wipe | 6010B | 720-47899 |
| 720-18578-4 | BLANK | T | Wipe | 6010B | 720-47899 |
| **Analysis Batch:720-48003** | | | | | |
| 720-18578-1 | S-1 | T | Wipe | 6010B | 720-47899 |

**Report Basis**
T = Total

Client: Chemical Data Management

Job Number: 720-18578-1

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **General Chemistry** | | | | | |
| **Prep Batch: 720-47906** | | | | | |
| LCS 720-47906/2-A | Lab Control Spike | T | Wipe | 9071B | |
| LCSD 720-47906/3-A | Lab Control Spike Duplicate | T | Wipe | 9071B | |
| MB 720-47906/1-A | Method Blank | T | Wipe | 9071B | |
| 720-18578-1 | S-1 | T | Wipe | 9071B | |
| 720-18578-2 | S-2 | T | Wipe | 9071B | |
| 720-18578-3 | S-3 | T | Wipe | 9071B | |
| 720-18578-4 | BLANK | T | Wipe | 9071B | |
| **Analysis Batch:720-47909** | | | | | |
| LCS 720-47906/2-A | Lab Control Spike | T | Wipe | 9071B | 720-47906 |
| LCSD 720-47906/3-A | Lab Control Spike Duplicate | T | Wipe | 9071B | 720-47906 |
| MB 720-47906/1-A | Method Blank | T | Wipe | 9071B | 720-47906 |
| 720-18578-1 | S-1 | T | Wipe | 9071B | 720-47906 |
| 720-18578-2 | S-2 | T | Wipe | 9071B | 720-47906 |
| 720-18578-3 | S-3 | T | Wipe | 9071B | 720-47906 |
| 720-18578-4 | BLANK | T | Wipe | 9071B | 720-47906 |

**Report Basis**
T = Total

Client: Chemical Data Management

Job Number: 720-18578-1

**Method Blank - Batch: 720-47899**

**Method: 6010B**
**Preparation: 3050B**

Lab Sample ID: MB 720-47899/1-A
Client Matrix: Wipe
Dilution: 1.0
Date Analyzed: 03/24/2009 1824
Date Prepared: 03/23/2009 0958

Analysis Batch: 720-47990
Prep Batch: 720-47899
Units: mg/wipe

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 Wipe
Final Weight/Volume: 50 mL

| Analyte | Result | Qual | RL |
|---|---|---|---|
| Cadmium | ND | | 0.0050 |
| Chromium | ND | | 0.0050 |
| Nickel | ND | | 0.0050 |
| Lead | ND | | 0.0050 |
| Zinc | ND | | 0.0050 |

**Lab Control Spike/**
**Lab Control Spike Duplicate Recovery Report - Batch: 720-47899**

**Method: 6010B**
**Preparation: 3050B**

LCS Lab Sample ID: LCS 720-47899/2-A
Client Matrix: Wipe
Dilution: 1.0
Date Analyzed: 03/24/2009 1827
Date Prepared: 03/23/2009 0958

Analysis Batch: 720-47990
Prep Batch: 720-47899
Units: mg/wipe

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 Wipe
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 720-47899/3-A
Client Matrix: Wipe
Dilution: 1.0
Date Analyzed: 03/24/2009 1831
Date Prepared: 03/23/2009 0958

Analysis Batch: 720-47990
Prep Batch: 720-47899
Units: mg/wipe

Instrument ID: Varian ICP
Lab File ID: N/A
Initial Weight/Volume: 1 Wipe
Final Weight/Volume: 50 mL

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | LCS | LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
| Cadmium | 74 | 83 | 80 - 120 | 12 | 20 | * | |
| Chromium | 76 | 86 | 80 - 120 | 12 | 20 | * | |
| Nickel | 74 | 83 | 80 - 120 | 11 | 20 | * | |
| Lead | 73 | 82 | 80 - 120 | 12 | 20 | * | |
| Zinc | 74 | 83 | 80 - 120 | 12 | 20 | * | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Chemical Data Management

Job Number: 720-18578-1

**Method Blank - Batch: 720-47906**

**Method: 9071B**
**Preparation: 9071B**

Lab Sample ID: MB 720-47906/1-A
Client Matrix: Wipe
Dilution: 1.0
Date Analyzed: 03/23/2009 1145
Date Prepared: 03/23/2009 1134

Analysis Batch: 720-47909
Prep Batch: 720-47906
Units: mg/wipe

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1 Wipe
Final Weight/Volume: 1 Wipe

| Analyte | Result | Qual | RL |
|---|---|---|---|
| HEM | ND | | 5.0 |

**Lab Control Spike/**
**Lab Control Spike Duplicate Recovery Report - Batch: 720-47906**

**Method: 9071B**
**Preparation: 9071B**

LCS Lab Sample ID: LCS 720-47906/2-A
Client Matrix: Wipe
Dilution: 1.0
Date Analyzed: 03/23/2009 1145
Date Prepared: 03/23/2009 1134

Analysis Batch: 720-47909
Prep Batch: 720-47906
Units: mg/wipe

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1 Wipe
Final Weight/Volume: 1 Wipe

LCSD Lab Sample ID: LCSD 720-47906/3-A
Client Matrix: Wipe
Dilution: 1.0
Date Analyzed: 03/23/2009 1145
Date Prepared: 03/23/2009 1134

Analysis Batch: 720-47909
Prep Batch: 720-47906
Units: mg/wipe

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1 Wipe
Final Weight/Volume: 1 Wipe

| Analyte | % Rec. LCS | % Rec. LCSD | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
|---|---|---|---|---|---|---|---|
| HEM | 96 | 96 | 70 - 120 | 0 | 25 | | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

720-18578

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

**TESTAMERICA San Francisco Chain of Custody**
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 115080

Date 3/18/09 Page ____ of ____

## Report To

Attn: Jamie Hernandez
Company: CDMS
Address: 6515 Trinity Ct, Dublin, CA
Phone: 925-551-7700 Email: Jamie@CDMS.com
Bill To: CDMS
Sampled By: Jamie H.
Attn: Raschelle
Phone:

## Analysis Request

| Sample ID | Date | Time | Matrix | Preserv. | TPH EPA - ☐ 8015/8021 ☐ 8260B ☐ Gas w/ ☐ BTEX ☐ MTBE | Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B | TEPH EPA 8015M* ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___ | Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Five Oxygenates ☐ DCA, EDB ☐ Ethanol | Purgeable Halocarbons (HVOCs) EPA 8021 by 8260B | Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624 | Semivolatiles GC/MS ☐ EPA 8270 ☐ 625 | Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total | Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608 | PNAs by ☐ 8270 ☐ 8310 | CAM17 Metals (EPA 6010/7470/7471) | Metals: ☒ Lead ☐ LUFT ☐ RCRA ☒ Other: Cd, Ni, Cr, Zn | Low Level Metals by EPA 200.8/6020 (ICP-MS): ___ | W.E.T (STLC) ☐ TCLP | Hexavalent Chromium pH (24h hold time for $H_2O$) ☐ ☐ | Spec Cond. ☐ Alkalinity ☐ TSS ☐ TDS ☐ | Anions : ☐ Cl ☐ $SO_4$ ☐ $NO_3$ ☐ F ☐ Br ☐ $NO_2$ ☐ $PO_4$ | | | | Number of Containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S-1 | 3/18/09 | 11:24 | SW | — | | | | | | | | X | | | | X | | | | | | | | | | 2 |
| S-2 | ↓ | 11:35 | SW | — | | | | | | | | X | | | | X | | | | | | | | | | 2 |
| S-3 | ↓ | 11:47 | SW | — | | | | | | | | X | | | | X | | | | | | | | | | 2 |
| Blank | ↓ | | SW | — | | | | | | | | X | | | | X | | | | | | | | | | 2 |

## Project Info.

Project Name: WFF-Albany
Project#: 102730
PO#: ~~102730~~ 102730
Credit Card#:

## Sample Receipt

# of Containers: 8 Bags (wipes)
Head Space:
Temp: 24° <4hrs
Conforms to record:

TAT: (5 Day) 72h 48h 24h Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF
Special Instructions / Comments: ☐ Global ID ____

*See Terms and Conditions on reverse*
*TestAmerica SF reports 8015M from $C_9$-$C_{24}$ (industry norm). Default for 8015B is $C_{10}$-$C_{28}$

| 1) Relinquished by: | 2) Relinquished by: | 3) Relinquished by: |
|---|---|---|
| Signature 3:00PM Time | Signature Time | Signature Time |
| Jamie Hernandez 3/18/09 Printed Name Date | Printed Name Date | Printed Name Date |
| Company | Company | Company |

| 1) Received by: | 2) Received by: | 3) Received by: |
|---|---|---|
| John Muller 1500 Signature Time | Signature Time | Signature Time |
| John Muller 3-18-09 Printed Name Date | Printed Name Date | Printed Name Date |
| test America Company | Company | Company |

Rev02/09

# Login Sample Receipt Check List

Client: Chemical Data Management

Job Number: 720-18578-1

**Login Number: 18578**
**List Source: TestAmerica San Francisco**
**Creator: Mullen, Joan**
**List Number: 1**

| Question | T / F/ NA | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| The cooler's custody seal, if present, is intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |

## VIII. References

Brown and Caldwell. 1984. Western Forge and flange, Albany Facility – Problem Definition Report. Submitted to Western Forge and Flange on July 10, 1984

Hoffman. 2008. Data Evaluation of Materials Related to the Subsurface Environmental Closure of Western Forge & Flange, 540 Cleveland Ave., Albany CA. Prepared for Chemical Data Management Systems, Inc., Dublin, CA (CDMS). December 18, 2008

## A. Brown and Caldwell Report. 1984.

## B. Fred Hoffman Geological Evaluation. 2008.

**Data Evaluation of Materials Related to the Subsurface Environmental Closure of Western Forge & Flange, 540 Cleveland Ave., Albany CA**

Prepared for Chemical Data Management Systems, Inc., Dublin, CA (CDMS)
December 18, 2008
Fredric Hoffman
CA Professional Geologist No. 3929
CA Certified Hydrogeologist No. 83

This evaluation is based on the review of documentation of a 1985 investigation and cleanup of the Western Forge and Flange (WFF) facility in Albany, CA found on the California Department of Toxic Substances Control (CADTSC) Envirostor Website, a Brown and Caldwell report from 1984, and on the geologic and chemical information from 17 hydropunch borings performed in October and November 2008.

## Executive Summary

In the early 1980s Western Forge and Flange process cooling water and storm water runoff containing metals and oils contaminated the shallow subsurface and was discharging to a nearby storm drain. In response and in consort with the environmental regulatory agencies, WFF sampled and removed 200 cubic yards of contaminated sediment from inside and outside the facility and instituted engineering controls at the surface and on their roof to prevent a reoccurrence. (CADOHS. 1987) Verification sampling in January 1985 demonstrated that remaining contaminants in the sediments were below residential standards. (CADTSC. 2002).

In October and November of 2008, CDMS sampled the shallow subsurface both inside and outside the building at 17 locations approved by the Alameda County Environmental Health Department. This investigation found that there is a shallow perched water bearing clay zone beginning between 4 and 6 feet below ground surface (bgs) perched on a dense clay at 10 to 12 feet bgs. This clay is underlain by a dry poorly cemented sand at approximately15 feet bgs. Samples of soil and the perched water were analyzed for metals and total petroleum hydrocarbons (residual fuels) and were found to be very similar to the verification levels found in 1985. There is one relatively small shallow area in the southwestern portion of the building where single samples in two borings exceed the SFRWQCB Environmental Screening Levels in soil for TPH and is a candidate for additional cleanup.

## 1983 Environmental Release

In September 1983, a Department of Fish and Game Pollution Warden reported oil on the ground at WFF and in water discharging to a storm drain. The CA Department of Health Services (CADOHS), the predecessor of the CADTSC, began an enforcement action and Western Forge contracted with Brown and Caldwell to conduct their investigation. Sampling at the site revealed elevated concentrations of lead, nickel, copper, zinc, and oil and grease in soils outside the building and on the floor of the interior. WFF was fined for the discharge, agreed to cleanup the site, and agreed to a corrective action plan that included cleanup and engineering controls on its process. (CADOHS. 1987).

The Brown and Caldwell subsurface investigation found that the local stratigraphy beneath the site consists of a sandstone that slopes from the east to the west and is overlain by a one foot thick clay bed east of the site and thickening to 14 feet to the west. Water levels, beneath the western part of the facility, were at 5 to 6 feet below ground surface. (Brown and Caldwell. 1984).

Cleanup consisted of the sampling, excavation, and removal of 200 cubic yards of contaminated sediments. Engineering controls included surface and roof collection of contaminated process water and berms and gutters to segregate clean storm runoff from process water. A steam trap and condenser was mounted on the roof, condensate was directed to a separator, and waste oil was collected for disposal. (CADOHS. 1987)

Following the cleanup, sediment verification sampling was conducted in January 1985. The results of this sampling are included in Table 1, which was extracted from (CADOHS. 1987).

Table 1 Western Forge & Flange Albany Site Verification Sample Results, Concentration in Milligrams per Kilogram

| Sample number | Sample depth, inches | Copper | Lead | Nickel | Oil and grease |
|---|---|---|---|---|---|
| Inside soils | | | | | |
| V1 | 18 - 24 | 20 | 17 | 15 | <50 |
| V2 | 6 - 12 | 66 | 240 | 48 | 240 |
| V3 | 12 - 18 | 62 | 14 | 95 | <50 |
| V4 | 6 - 12 | 75 | 38 | 88 | 380 |
| V5 | 6 - 12 | 42 | 64 | 51 | 2,180 |
| V8 | 12 - 18 | 470 | 100 | 820 | 3,510 |
| V9 | 16 - 22 | 140 | 97 | 350 | 1,290 |
| V13 | 24 - 30 | - | - | - | 170 |
| V6 | 6 - 12 | 110 | 150 | 130 | 640 |
| V7 | 6 - 12 | 240 | 99 | 560 | <50 |
| V10 | 10 - 16 | 320 | 87 | 210 | 120 |
| V11 | 10 - 16 | 2,000 | 82 | 2,100 | 10,700 |
| V15 | 10 - 24 | 150 | 37 | 460 | 240 |
| V12 | 10 - 16 | 580 | 50 | 190 | <50 |
| V14 | 10 - 16 | 300 | 180 | 250 | 240 |
| V16 | 18 - 24 | 27 | <13 | 100 | 120 |
| V17 | 6 - 12 | 110 | 18 | 1,900 | 2,470 |
| Outside soils | | | | | |
| SV1 | 12 - 18 | 8.7 | 13 | 32 | 270 |
| SV2 | 12 - 18 | 22 | 23 | 63 | 94 |
| SV3 | 17 - 23 | 32 | 22 | 210 | <50 |
| SV4 | 6 - 12 | 29 | 40 | 58 | <50 |
| SV5 | 24 - 30 | 26 | 15 | 62 | 133 |
| TTLC[a] | | 2,500 | 1,000 | 2,000 | - |
| Cleanup level[b] | | 1,250 | 500 | 1,000 | 1,000 |

[a]Total threshold limit concentration in milligrams per kilogram 22 CAC 66699 January 11, 1985.
[b]Approved by State.

Note: Underline indicates concentration exceeding cleanup level.

On August 16, 1985, upon review of the verification sampling report, the San Francisco Bay Regional Water Quality Control Board (SFRWQCB) expressed their satisfaction with the soil cleanup activities. In addition, their review of ground water data

from up and down-gradient monitor wells concluded that WFF had not had a significant impact on the underlying shallow aquifer and therefore no further ground water monitoring was needed. In the same letter, the Regional Board also commended WFF for its plan to prevent future releases of waste oil and other contaminants. (CADOHS. 1987)

In a letter dated January 15, 1986, to WFF, the SFRWQCB reiterated their conclusion that the shallow perched groundwater at the site is too saline to be of beneficial use, that the low permeability of the clays containing the ground water would limit the spread of any pollutants, that the pollution problem has been adequately mitigated, and that the site does not pose a significant threat to the beneficial uses of the waters of the State. (SFRWQCB. 1984). In 1987, the CADOHS also concluded that no further removal/remedial action is necessary. (CADOHS. 1987).

Finally, in 2002, in what appears to be a review of the cleanup and ongoing operations by WFF, CADTSC specified the cleanup levels for the site at that time as 1250 ppm for copper, 500 ppm for lead, 1000 ppm for nickel, 2500 ppm for zinc, and 1000ppm for oil and grease. They also indicated that these cleanup levels were below residential standards. This report also indicated that the site then generated waste oil and sludge with metals and was regularly inspected by the Alameda County Environmental Health Department. (CADTSC. 2002).

**Current (2008) Investigation**

Within the past year, WFF suspended its operations at its Albany facility and removed all of its equipment from the building and the site. The Alameda County Environmental Health Department is currently overseeing the investigation of the site to determine is suitability for sale.

WFF has contracted with CDMS to manage the environmental investigation, mange any necessary cleanup, and to shepherd the site through the environmental certification process. At the time of this writing, CDMS has conducted some cleaning of the building and has completed the subsurface investigation.

The sampling locations were established in collaboration with representatives of the Alameda County Environmental Health Department (Figure 1). There are several concrete and steel lined pits at the facility that extend to 10 feet below the ground surface, and served as foundations for large hydraulic metal working hammers, rollers, and presses. The County was concerned that the pits could be a source of release of hydraulic fluids. Sample locations were established around each of the pits jointly by a representative of Alameda County Environmental Health Department and CDMS, and at additional locations selected by CDMS based upon surface staining and the locations of other operations. Four inch holes were sawn through the 6 – 9 inches of concrete, and the samples were taken with a hydropunch rig. Core tubes were lined with clear liners and were advanced three feet at a time. At water sampling locations, slotted PVC well screens were inserted into the borehole, and water samples were taken with a bailer. Cement grout was tremied through the well screens to seal the holes upon completion.

The first two borings were made around the pit on the north side of the building (SB101 & SB102). The initial intent was to advance the borings to below the bottom of the pits. After penetrating the initial 6 -9 inches of concrete, the cone penetrometer moved through unsaturated sediment and encountered ground water in a dark gray plastic clay 4-6 feet below ground surface (bgs). At 12 to 14 bgs a dense dry clay marked the

bottom of the perched water zone. The clay was underlain at 14 to 16 feet by a dry poorly cemented tan-colored sand. The third boring was pushed in the southwest corner of the building (SB103) and the same materials were encountered at about the same depths. Water samples were bailed from these three borings and in each case, water level recovery was very slow indicating that the saturated clay has a low hydraulic conductivity.

From the data from these three borings and the information from the Brown and Caldwell investigation (Brown and Caldwell. 1984), it is clear that the site is underlain by a low permeability clay saturated above a dry dense clay above a poorly cemented sand. The clay contains a thin perched ground water zone between 6 to 12 feet below the ground surface in the southwestern portion of the facility. Since the concrete and steel lined pits are all dry, extend well below the perched water bearing zone, and no water is seeping into the pits, it is also reasonable to conclude that no liquid contaminants would have seeped out of the pits to the subsurface environment.

The remaining borings were advanced only to nine feet bgs to avoid any further penetration of the dry clay responsible for the perched water zone and for the protection of the deeper aquifer.

Soil sample analyses are included in Table 2A and water sample analyses are in Table 2B. (TestAmerica. 2008a, 2008b, and 2008c).

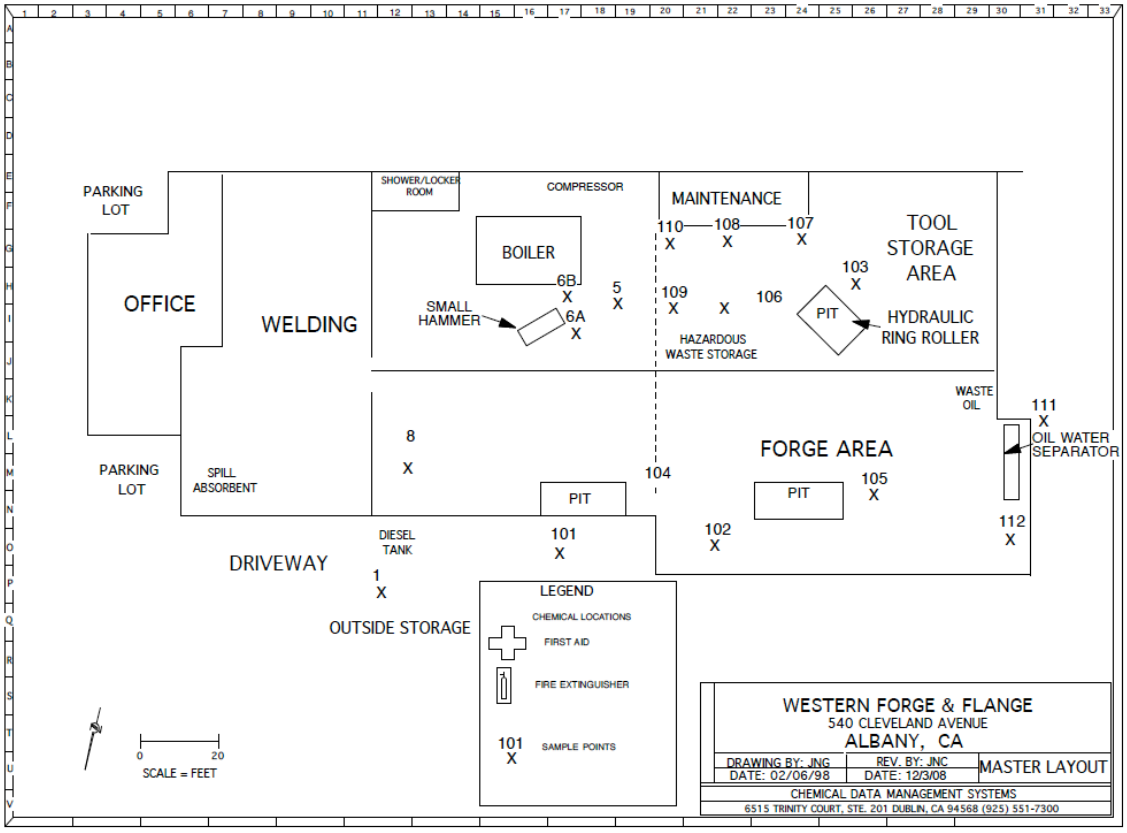


Figure 1. Location of 2008 subsurface sampling events.

| **Table 2A WFF Data** | | **Soil in mg/kg** | | | | |
|---|---|---|---|---|---|---|
| Boring # | Depth (Center) ft | Cr | Ni | Pb | Zn | TPH (Residual Fuels) |
| SB101 | 3.5 | 17 | 22 | 12 | 26 | 150 |
| | 7.5 | 14 | 8.2 | 5.2 | 9.4 | ND |
| | 11.5 | 8.8 | 10 | 3.7 | 14 | ND |
| | 15.5 | 16 | 20 | 6.2 | 23 | ND |
| SB102 | 3.5 | 45 | 60 | 15 | 33 | ND |
| | 7.5 | 16 | 7.8 | 110 | 70 | 52 |
| | 11.5 | 13 | 9.4 | 5.0 | 13 | ND |
| | 15.5 | 11 | 15 | 7.1 | 26 | ND |
| SB103 | 3.5 | 67 | 85 | 11 | 52 | 210 |
| | 7.5 | 18 | 9.7 | 150 | 110 | 110 |
| | 11.5 | 18 | 23 | 3.7 | 12 | ND |
| | 15.5 | 18 | 23 | 3.9 | 12 | ND |
| SB104 | 1.5 | 32 | 35 | 10 | 34 | ND |
| | 3.5 | 16 | 11 | 75 | 120 | ND |
| | 7.5 | 12 | 8.3 | 13 | 17 | ND |
| SB105 | 1.5 | 70 | 82 | 9.0 | 62 | ND |
| | 3.5 | 17 | 12 | 44 | 62 | ND |
| | 7.5 | 14 | 10 | 17 | 35 | ND |
| SB106 | 2 | 53 | 64 | 11 | 46 | ND |
| | 4.5 | 54 | 79 | 31 | 67 | 2800 |
| | 7.5 | 12 | 24 | 210 | 200 | ND |
| SB107 | 1.5 | 72 | 72 | 260 | 580 | 15000 |
| | 3.5 | 14 | 10 | 23 | 49 | 700 |
| | 7.8 | 14 | 11 | 5.2 | 12 | ND |
| SB108 | 1.5 | 52 | 59 | 12 | 41 | ND |
| | 4.5 | 25 | 24 | 65 | 100 | 150 |
| | 7.5 | 14 | 10 | 4.8 | 9.3 | ND |
| SB109 | 1.5 | 14 | 12 | 160 | 210 | ND |
| | 4.5 | 19 | 14 | 120 | 200 | ND |
| | 7.5 | 13 | 10 | 4.8 | 10 | ND |
| SB110 | 1.5 | 25 | 19 | 87 | 290 | ND |
| | 4.5 | 17 | 11 | 10 | 26 | ND |
| | 7.5 | 13 | 8.4 | 5.3 | 7.8 | ND |
| SB111 | 0.5 | 37 | 180 | 19 | 920 | 360 |
| | 3.5 | 50 | 69 | 6.6 | 44 | 60 |
| | 5.5 | 26 | 21 | 29 | 62 | ND |
| | 7.5 | 15 | 12 | 49 | 50 | 87 |
| | 9.5 | 14 | 8.8 | 10 | 13 | ND |
| SB112 | 3.5 | 13 | 26 | 13 | 29 | 63 |
| | 7.5 | 70 | 86 | 7.7 | 42 | ND |
| #5 | 0.75 | 51 | 140 | 30 | 73 | |
| | 3.5 | 16 | 20 | 81 | 110 | |

| **Table 2A (cont) WFF Data** | **Soil in mg/kg** | | | | | |
|---|---|---|---|---|---|---|
| Boring # | Depth (Center) ft | Cr | Ni | Pb | Zn | TPH (Residual Fuels) |
| #6A | 2.75 | 54 | 67 | 110 | 140 | |
| | 3.5 | 14 | 8.3 | 7.1 | 16 | |
| #6B | 2 | 5.2 | 83 | 7.9 | 81 | |
| | 3.75 | 15 | 9.2 | 56 | 76 | |
| #8 | 1.25 | 18 | 14 | 180 | 130 | |
| | 3.5 | 73 | 180 | 140 | 90 | |
| #9 | 1 | 15 | 14 | 23 | 56 | |
| | 3.5 | 20 | 24 | 15 | 29 | |

| **Table 2B WFF Perched Water Data ug/L** Boring # | Cr | Ni | Pb | Zn | TPH (Residual Fuels) |
|---|---|---|---|---|---|
| SB101 | ND | 120 | 6.5 | 56 | ND |
| SB102 | 14 | 140 | 770 | 1200 | ND |
| SB103 | 26 | 380 | 61 | 1400 | ND |
| SB105 | ND | 52 | 9.4 | 930 | ND |
| SB107 | 22 | 480 | 120 | 1300 | ND |
| SB108 | 25 | 76 | 5600 | 970 | ND |
| SB109 | ND | ND | ND | 18 | ND |
| SB111 | ND | 420 | ND | 8400 | ND |
| 1-6 (unfiltered) | 1100 | 5800 | 1100 | 1900 | |

**Interpretation of Chemical Data**

With the exception of the two shallow soil samples in SB106 and SB107 all of the soil samples are very similar and in most cases lower than the concentrations that were certified as being below residential standards in 1985. This would indicate that the engineering controls WFF installed in 1985 were successful in preventing any further releases of contaminants to the ground. While there is no information as to the origin of the contaminants in the soil in the small area of the southwest corner of the building where SB106 and SB107 are located, this area is a candidate for some additional contaminated soil removal.

In addition to comparing the 2008 analytical results to the 1985 verification results and cleanup standards, the results were also compared to the 2008 Environmental Screening Levels (ESL) established by the SFRWQCB and accepted by the California State Water Resources Control Board. To select the appropriate ESL, the land use was considered Commercial or Industrial, the Depth to Impacted Soil was Shallow Soil, and the Groundwater use of the regional Aquifer was considered a Drinking Water Resource. Because the exterior soil had been replaced with clean soil in 1985 and the interior of the building has 6 to 9 inches of concrete over the soil, there is an assumption of no direct exposure, and no terrestrial ecological impacts. Given these assumptions the appropriate Soil Tier 1 ESL is the Gross Contamination ESL. For water, the contaminants are in a shallow perched zone, are not in the regional shallow aquifer, and there are no impacts to aquatic organisms. For Groundwater Tier 1 the Gross Contamination is the appropriate ESL. The selected appropriate ESLs for the contaminants of concern are shown in Table 3. (SFRWQCB. 2008).

**Table 3** Environmental Screening Levels for Gross Contamination

| | Soil mg/kg | Water ug/L |
|---|---|---|
| Cr (Total) | 2,500 | 50,000 |
| Ni | 2,500 | 50,000 |
| Pb | 2,500 | 50,000 |
| Zn | 2,500 | 5,000 |
| TPH (Residual Fuels) | 2,500 | 1,000 |

**Conclusions**

With the exception of the two shallow soil samples taken from SB106 and SB107 in the southwest portion of the building, all soil and water samples taken in the 2008 subsurface investigation are below the SFRWQCB's 2008 Environmental Screening Levels and below the more stringent cleanup levels prescribed in 1985. The soil concentrations are also very similar to the concentrations that caused the regulatory agencies to declare the pollution at the site adequately mitigated in the mid 1980s. Upon cleanup of the area including the SB106 and SB107 locations and verification sampling, the WFF Albany site will be ready for certification as meeting the appropriate environmental conditions for no further cleanup action.

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12/18/08

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## iii. Recommendations/Conclusions

Since the relocation of the Western Forge and Flange Co. facility from Albany to Texas, extensive activities have occurred at this site to achieve closure and remediate any contamination that resulted from past manufacturing processes.

**Above Ground**

Multiple rounds of aggressive decontamination of the rafters, control panels and structural elements, most of which are between 15 and 45 feet above ground level, have reduced the concentrations of residual contaminants on those surfaces. Verification sampling has shown fluctuating levels of contaminants between sampling locations, most of which are located between 15 and 45- feet above ground level. Results have shown however, that some of these locations continue to exceed the ESLs for the majority of the analytes (metals) even after multiple cleanings.

Wipe sample S-3, at approximately 8 feet above ground level, tested non-detect for all of the analytes, except for nickel. The value of S-3 is 11ug/100cm$^3$ for nickel. The guidelines suggest an environmental screening level of 10 ug/100cm$^3$. S-3 in this respects shows a slight deviation to the ESL for nickel.

The floors of the production area, shipping and welding area have been swept multiple times and triple rinsed using hot pressurized water. All hazardous waste generated from the closure activities has been hauled off site by a licensed hazardous waste hauler to an approved waste treament facility. Hazardous materials used during the manufacturing processes were relocated to the Texas facility prior to the start of the closure activities.

All of the items identified in the closure plan and required by the Alameda County Department of Environmental Health (ACDEH) have been addressed. At this time CDMS believes that due diligence has been served in decontaminating the above ground portions of the facility to the fullest extent possible at the Western Forge and Flange Co. facility in Albany, with the guidance of ACDEH. A final walkthrough with ACDEH is scheduled for July 1$^{st}$, 2009. The purpose of this final walkthrough is to confirm all the items as recommended and required by ACDEH have been addressed.

Western Forge and Flange Co. is currently in the process of selling their property at 540 Cleveland Ave, Albany CA. ACDEH has recommended disclosing the current above ground contamination at the site to any potential buyer prior to selling the property. ACDEH has also decided to transfer this case over to the Alameda County Site Mitigation/Local Oversight Program for the evaluation of the subsurface issues.

**Subsurface**

The site is underlain by a low permeability clay saturated above a dry dense clay above a poorly cemented sand. The clay contains a thin perched ground water zone between 6 to 12 feet below the ground surface, which rose to within a foot below ground surface during the 2008-2009 wet season.

Several subsurface investigations and sampling events occurred during the hazardous material closure in an effort to evaluate the presence or absence of contamination at the site. Subsurface investigations led to excavations of contaminated soil in several locations (5, 6B, SB106, SB107). Excavation also occurred in suspect areas around Pit 1, Pit 2, and in two other locations near the northwest walls where etching was visible. No indication of contamination was observed at these locations. (Fig. 2, Closure Report).

Subsurface sampling results indicated elevated levels of metals at various sample locations for groundwater when using the criteria provided by ACDEH. (Table 2B, Table 5B, and Table 6B).

Additional results also indicated elevated levels of oil and grease (shown as TPH in the analytical report) and TPH (residual fuel) for soil samples at sample locations 5, 6B, SB106, and SB107. (Table 2A and Table 6A). Further investigation occurred at those locations, and the contaminated soil was ultimately removed during several soil cleanup excavations. As a result of the soil cleanup excavations, TPH (residual fuel) contamination has been eliminated at soil sampling locations 5, 6B, and SB107.

In addition, oil was discovered during the soil cleanup excavation of soil sample location SB106 and several oil cleanup efforts have been conducted. During the soil cleanup excavation of soil sample location SB106, perched water was encountered, and eventually the oil and water mixed together. Several efforts to removal the oil from the surface of the water at soil sample location SB 106 have have greatly reduced the amount of oil in the excavation.

Most recently, remediation efforts included the introduction of RegenOx®, an advanced chemical oxidation designed to treat organic contaminants, that destroys petroleum contaminants, enhances subsequent bioremediation, and avoids detrimental impact to groundwater aquifers.

The introduction of this chemical to the soil sample location SB 106 has been followed with continuous skimming of the water surface to further remove oil The goal of this remediation practice is to reduce the concentration of petroleum hydrocarbons from this excavation below that of the ESL.

Currently, the remedial activities at WFF-Albany have come to a halt, pending an evaluation by the Alameda County Site Mitigation/Local Oversight Program.

As mentioned above, this case is being transferred to the Alameda County Site Mitigation/Local Oversight Program to address the subsurface issues and concerns of this closure.