

NORTH TRUCKEE DRAIN REALIGNMENT

Soil and Groundwater Management Plan

February 2013



US Army Corps of Engineers



HDR

2365 IRON POINT ROAD, SUITE 300
FOLSOM, CA 95630

Table of Contents

| | | |
|-------|--|----|
| 1.0 | INTRODUCTION | 1 |
| 1.1 | Site Description..... | 1 |
| 1.2 | Purpose and Objectives..... | 1 |
| 1.3 | Plan Organization | 1 |
| 2.0 | BACKGROUND | 2 |
| 2.1 | Subsurface Conditions | 2 |
| 2.2 | Previous Investigations | 2 |
| 2.3 | Summary of Current Environmental Contamination | 3 |
| 2.3.1 | Contaminated Soil Definitions..... | 3 |
| 2.3.2 | Nature and Extent of Soil Contamination..... | 3 |
| 2.3.3 | Nature and Extent of Groundwater Contamination | 4 |
| 2.3.4 | Nature and Extent of Sediment Contamination | 4 |
| 3.0 | SOIL MANAGEMENT MEASURES | 4 |
| 3.1 | Soil Characterization..... | 4 |
| 3.1.1 | Waste Disposal Characterization | 5 |
| 3.1.2 | Discovery of Unknown Impact..... | 5 |
| 3.1.3 | Chemical Analysis Methods | 5 |
| 3.2 | Soil Transportation Modes..... | 6 |
| 3.2.1 | On-Site Transportation | 6 |
| 3.2.2 | Off-Site Transportation..... | 6 |
| 3.2.3 | Potential Destinations | 6 |
| 3.2.4 | Transportation Record Keeping..... | 7 |
| 3.3 | Soil Stockpiling..... | 7 |
| 3.3.1 | Soil Stockpile Location..... | 8 |
| 3.3.2 | Stockpile Location Security..... | 8 |
| 3.3.3 | Stockpiling Procedures | 8 |
| 3.4 | Soil Reuse | 9 |
| 4.0 | GROUNDWATER MANAGEMENT MEASURES | 10 |
| 4.1 | Groundwater Characterization | 10 |
| 4.2 | Groundwater Treatment and Discharge | 10 |
| 4.3 | Groundwater Reuse..... | 11 |
| 5.0 | PROJECT OVERSIGHT AND REPORTING REQUIREMENTS | 11 |
| 5.1 | Environmental Specialist | 11 |
| 5.2 | Contaminant Management Reporting..... | 12 |
| 6.0 | REFERENCES | 12 |

List of Tables

- Table 1: Soil Analytical Results – Total Metals
Table 2: Soil Analytical Results – Petroleum Hydrocarbons, VOCs, and pH
Table 3: Groundwater Analytical Results – Petroleum Hydrocarbons, General Chemistry, VOCs, and SVOCs
Table 4: Groundwater Analytical Results – Total Metals
Table 5: Sediment Analytical Results

List of Figures

- Figure 1: Site Vicinity Map
Figure 2: Plan View and Cross-Section
Figure 3: Background Arsenic Concentrations

List of Appendices

- Appendix A: NDEP Draft Guidelines for Discovery Events
Appendix B: Laboratory Analytical Reports
Appendix C: Disposal Facility Letters of Acceptance
Appendix D: Dewatering Estimates Technical Memorandum

Acronyms and Abbreviations

| | |
|----------|--|
| amsl | above mean sea level |
| AST | above ground storage tank |
| bgs | below ground surface |
| BMPs | best management practices |
| City | The City of Sparks |
| CFR | Code of Federal Regulations |
| Cy | cubic yards |
| DTW | depth to water |
| EPA | US Environmental protection Agency |
| FEMA | Federal Emergency Management Agency |
| HDR | HDR Environmental, Operations and Construction, Inc. |
| HDPE | high density polyethylene |
| I-80 | Interstate 80 |
| NDEP | Nevada Department of Environmental Protection |
| NAC | Nevada Administrative Code |
| NPDES | National Pollution Discharge Elimination System |
| NRS | Nevada Revised Statutes |
| NTD | North Truckee Drain |
| O&M | Operation and Maintenance |
| RCRA | Resource Conservation Recovery Act |
| Soil RCs | Soil Reportable Concentrations |
| SVOCs | semivolatile organic compounds |
| TPH-d | total petroleum hydrocarbons as diesel |
| TPH-g | total petroleum hydrocarbons as gasoline |
| TPH-o | total petroleum hydrocarbons as oil |
| TPH | total petroleum hydrocarbons |
| UPRR | Union Pacific Rail Road |
| USGS | United States Geological Survey |
| UST | underground storage tank |
| VOCs | volatile organic compounds |
| WQS | water quality standard |

1.0 INTRODUCTION

The City of Sparks (City) is planning to realign the existing drainage of the North Truckee Drain (NTD) by installing approximately one mile of concrete box culverts from immediately south of Interstate 80 (I-80) east of Sparks Boulevard to the Truckee River (Figure 1). The purpose of the NTD realignment project is to reduce flooding in the industrial park area adjacent to the NTD south of I-80 and along the Truckee River upstream of the waste water treatment plant.

This Soil and Groundwater Management Plan (Plan) was prepared by HDR Environmental, Operations and Construction, Inc. (HDR), on behalf of the City, to document the type/volume of contaminated soil and groundwater in the proposed NTD cut area and to identify management procedures and present options for the disposal of contaminated soil and groundwater generated during this project.

1.1 Site Description

The subject site consists of a 6,000 foot long proposed NTD realignment and associated construction easement, referred to in this report as “Site”. The Site extends from approximately Sparks Boulevard and I-80, through east Greg Street and terminates into the Truckee River east of Larkin Circle (Figure 1). Facilities on-site or adjacent to the Site include warehouses, a current service station, commercial vehicle repair facilities, construction yards, transportation facilities, and a chemical distribution facility.

The Site is located on portions of 13 individual parcels; seven additional parcels are affected by the construction easements or have a potential impact to the Site. The proposed improvement also includes crossings of I-80 and the Union Pacific Rail Road (UPRR) Right of Way. While no significant disturbance is proposed, property edges will be traversed by the alignment and drains from the named properties will be tied into.

1.2 Purpose and Objectives

The purpose of this Plan is to present procedures for the disposition of contaminated soil and groundwater in the NTD realignment which is anticipated to be encountered during construction and present options for the management, disposal and reuse of this material. This Plan integrates the following key objectives:

- Identify the various scenarios under which large volumes of soil generated during construction can be safely reused,
- Identify sampling and analysis, stockpiling, transportation, and other procedures by which soil and groundwater must be managed in order to meet safety, regulatory, and other standards,
- Define how groundwater encountered during construction will be characterized, properly treated, and discharged.

1.3 Plan Organization

Section 2.0 – Background: Summarizes the results from soil and groundwater sampling events.

Section 3.0 – Soil Management Measures: Proposes methods where soil can be reused within the Site, areas where contaminated soil can be properly disposed, and areas where clean soil can be disposed.

Section 4.0 – Groundwater Management Measures: Presents methods for the disposal of groundwater encountered during construction activities.

Section 5.0 – Project Oversight and Reporting: Presents the project oversight and minimum reporting requirements for the contractor.

Section 6.0 – References: Lists reference documents used to prepare this Plan.

2.0 BACKGROUND

This section summarizes the subsurface characteristics of the Site with respect to soil lithology encountered during previous investigations, chemical concentrations in soil and groundwater, and presents construction dewatering estimates.

2.1 Subsurface Conditions

The following description of subsurface conditions at the Site are based on results from the soil, sediment, and groundwater investigation activities conducted in May 2010, and documented in the *Report of Sampling and Analysis* (Phase II) (HDR, 2010a).

Soil types encountered during the Phase II investigation were generally sands and silts. Shallow soil consists primarily of sandy silty gravel (fill) to approximately 4 feet below ground surface (bgs). This is underlain with low plasticity silt and sandy silt to approximately 17 feet bgs, generally consistent with the alluvial flood plain soils expected to be present in this area. Heaving sands were encountered at approximately 10 feet bgs at boring SB-3 and extended to approximately 17.5 feet bgs. Fill soil was encountered in all borings except SB-3. Where encountered, the fill soil generally extended to a maximum depth of approximately 6 feet bgs. Laboratory analysis of soil samples collected during the Phase II indicates the presence of arsenic, boron, barium, cadmium, cyanide, chromium, copper, iron, manganese, sodium, nickel, lead, selenium, zinc, total petroleum hydrocarbons as diesel (TPH-d), and total petroleum hydrocarbons as oil (TPH-o). Soil contamination is described in more detail later in Section 2.3.2 of this Plan.

Groundwater was encountered at approximately 8 feet bgs in borings advanced in the western portion of the Site. In the eastern portion of the Site, groundwater in soil borings was encountered at approximately 10 feet bgs. During the NTD realignment construction, the box culverts will be installed approximately 10 to 20 feet bgs (varying on surface topography) with excavation depths ranging from 4,375 to 4,379 feet above mean sea level (amsl). Review of quarterly groundwater monitoring reports prepared by Broadbent and Associates (BAI, 2008) for the Washoe County School District site located at 1850 Kleppe Lane indicated a maximum groundwater elevation of 4,386.57 feet amsl in January 2008 and minimum groundwater elevation of 4,379.37 feet amsl in November 2003. The table below presents the depth to water (DTW) and groundwater surface elevation over one hydrogeologic cycle as observed in well MW-4 at the Washoe County School District site.

| December 2006 | | March 2007 | | June 2007 | | September 2007 | | January 2008 | |
|---------------|----------|------------|----------|-----------|----------|----------------|----------|--------------|----------|
| DTW | Elev. | DTW | Elev. | DTW | Elev. | DTW | Elev. | DTW | Elev. |
| 9.68 | 4,380.51 | 10.31 | 4,379.88 | 9.59 | 4,380.60 | 9.02 | 4,381.17 | 2.25 | 4,387.94 |

Notes: DTW = depth to water in feet, Elev. = groundwater surface elevation in feet above mean sea level

Based on local groundwater elevation and the proposed excavation depth, dewatering will likely be necessary to facilitate construction (HDR, 2011). A discussion of analytes detected in groundwater is presented Section 2.3.3 of this Plan.

2.2 Previous Investigations

In May 2010, HDR prepared a *Phase I Environmental Site Assessment* (Phase 1) (HDR, 2010b) which reviewed current and historical land uses to identify practices which may have contributed to soil and groundwater contamination at the Site. Phase I findings included documented releases of petroleum hydrocarbons from underground storage tanks (USTs) and aboveground storage tanks (ASTs). To evaluate their impact on soil and groundwater along the Site an investigation was performed which

included soil and groundwater sampling from nine borings advanced along the excavation area. Results from this field investigation were documented in HDR's Phase II report (HDR, 2010a).

2.3 Summary of Current Environmental Contamination

2.3.1 Contaminated Soil Definitions

The following two categories are used herein to describe the nature and extent of contamination in Site soils: (1) Contaminated Materials and (2) non-Contaminated Materials. Contaminated Materials contained chemicals and elements at concentrations greater than were posted in January 28, 2009 version of the Nevada Division of Environmental Protection NDEP Draft Guidelines for Discovery Events (Soil Reportable Concentrations [Soil RCs]) (Appendix A). Non-Contaminated Materials contained chemical or elemental concentrations less than the concentrations presented in the Soil RCs. Soil RC values are presented on Table 1 and Table 2.

Contaminated materials are subdivided into two categories which include: (1) Regulated Materials and (2) Hazardous Waste. Regulated Materials consist of materials that are either regulated by the local or state government. Hazardous Waste consists of material that is regulated by the federal government. These two subcategories are further described below.

Regulated Materials are subject to local and state guidelines if they exceed the requirements for non-Contaminated Materials (Soil RCs) and do not exceed the Hazardous Waste limits in 40 CFR 261. While soils within this category do not meet the regulatory definition of Hazardous Waste, they still may require special handling and disposal at a state-regulated landfill.

A Hazardous Waste is a solid waste that must be managed (treated, stored, transported, and disposed) in accordance with the federal requirements of subtitle C of the Resource Conservation and Recovery Act (RCRA) and Chapter 459 of the Nevada Revised Statutes (NRS). The regulations implementing RCRA (40 CFR 261) identify four characteristics of hazardous waste: ignitable, corrosive, reactive, or toxic. Although no Hazardous Waste was identified during the Phase II or is suspected to be encountered during construction of the NTD realignment; soil characterized as Hazardous Waste must be transported with a hazardous waste manifest and disposed of in a Class I Hazardous Waste Landfill.

2.3.2 Nature and Extent of Soil Contamination

Laboratory analysis of soil samples collected during the Phase II indicates the presence of arsenic, boron, barium, cadmium, cyanide, chromium, copper, iron, manganese, sodium, nickel, lead, selenium, zinc, TPH-d, and TPH-o. Due to Site access limitations soil between Station 45+00 and 52+50 could not be characterized.

2.3.2.1 Metals in Soil

As listed on Table 1, metals were detected in all soil samples collected at the Site. In many of the soil samples collected during the Phase II, arsenic was detected above the Soil RCs. However, according to the US Geological Survey (USGS) estimates in the *Element Concentrations in Soils and Other Surficial Materials of the Conterminous United States* (USGS, 1984) and the *Geochemical Landscapes of the Conterminous United States-New Map Presentations for 22 Elements* (USGS, 2001) it is likely that the arsenic in this area is naturally occurring. As illustrated on Figure 3, the USGS estimates a background arsenic concentration of approximately 10 mg/Kg; therefore, it is the opinion of HDR that arsenic detected in soil samples collected from soil borings along the proposed NTD alignment is naturally occurring as the Phase I did not indicate an anthropogenic source. The table below presents the minimum, maximum, and mean arsenic concentrations from the soil samples collected during the Phase II investigation.

| Arsenic Concentration (mg/Kg) | |
|-------------------------------|-----|
| Maximum | 12 |
| Mean | 7.4 |
| Minimum | 2.8 |

2.3.2.2 Petroleum Hydrocarbons in Soil

TPH-d and TPH-o were the only petroleum hydrocarbons detected in soil samples. With the exception of boring SB-3, all soil borings yielded TPH-d and/or TPH-o above the 100 mg/Kg concentration (Action Level) listed in the Soil RCs. The greatest detected concentrations were reported in the shallowest samples collected from 2 feet bgs. The greatest concentration of TPH-d was 340 mg/Kg (2 feet bgs at SB-01). The greatest concentration of TPH-o was 4,200 mg/Kg (2 feet bgs at SB-08). Soil sample analytical results and the Soil RCs are presented on Table 1 and Table 2 as well as in the laboratory analytical reports provided in Appendix B.

2.3.3 Nature and Extent of Groundwater Contamination

Laboratory analysis of groundwater samples from borings within the project corridor indicated the presence of nitrogen, sulfate, chloride, ammonia, fluoride, phosphorous, total dissolved solids, alkalinity, and many metals above the laboratory reporting limits. These analytical results are summarized in Tables 3 and 4 as well as in the laboratory analytical reports provided in Appendix B.

Groundwater samples were collected from four soil borings as part of the Phase II investigation and from three existing groundwater monitoring wells. Groundwater samples collected were analyzed for the constituents listed in the NAC 445A.1688 (Truckee Region: Truckee River at Lockwood Bridge). These Water Quality Standards (WQS) are established to protect the Truckee River. Groundwater samples collected from the soil borings and groundwater monitoring wells exceeded the WQS limits for many of the analytes as indicated on Table 3 and Table 4.

2.3.4 Nature and Extent of Sediment Contamination

On May 25, 2010, sediment samples were collected from the NTD channel bottom by HDR. Sampling activities are described in more detail in HDR's *Report of Sampling and Analysis*, (Phase II) July 2010. TPH-o and arsenic were the only analytes detected above the Action Level and background concentration for naturally occurring metals. However, as presented on Figure 3, HDR assumes that arsenic at or less than 10 mg/Kg is naturally occurring as the Phase I did not indicate an anthropogenic source. The laboratory results from the sediment sample analysis are presented on Table 5 and the laboratory analytical reports are presented in Appendix B.

3.0 SOIL MANAGEMENT MEASURES

This section presents methods to characterize, manage, dispose, and reuse soil excavated during construction. During earth disturbing activities excavated soil will be managed and characterized through sampling. The purpose of the characterization is to evaluate chemical and elemental concentrations of the soil so that it can be profiled for disposal or reuse. Details on these measures are provided below.

3.1 Soil Characterization

As discussed in the Background section of this document, a number of soil samples have been collected which may be used by the contractor for a general understanding of the type and volume of Regulated Material likely to be encountered during construction. Due to the age of the samples it is possible that soil requiring off-site disposal may require re-characterization (sampling and chemical analysis) for the purpose of landfill profiling. It is possible that the landfill may accept existing sample analytical results if the City can demonstrate that the chemical concentrations in the soil have not increased, for example, land

use in the area has not changed since the samples have been collected and the NDEP is not aware of any new releases of chemicals. Should additional sampling be required, samples will be collected in-situ prior to construction activities or ex-situ from soil stockpiles. Field characterization work will be completed in accordance with appropriate health and safety standards, including Title 29 Code of Federal Regulations (CFR) 1910.120, Hazardous Waste Operations and Emergency Response. A sampling strategy is detailed in the following sections.

3.1.1 Waste Disposal Characterization

Excavated soil intended for off-site disposal, which has not been previously characterized to the satisfaction of the disposal facility, will be characterized through sampling. Soil characterization should be performed in accordance with receiving facility requirements. General receiving facility requirements are presented below with specific receiving facility requirements identified in disposal facility letters presented in Appendix C.

- In-situ reconnaissance testing of soil by sampling within the proposed construction area at the minimum frequency required by the disposal facility, often one boring advanced per 1,000 linear feet. Sampling will occur at depths within specific stratigraphic intervals such that representative samples are collected throughout the construction depth interval; or
- Collection of four-point composite samples from excavated and stockpiled soil. Samples will be collected at the minimum frequency required by the disposal facility, which is typically one four-point composite sample for every 1,000 to 1,500 cubic yards (cy) of stockpiled material.

Waste disposal characterization will include additional chemical analyses, with the specific analyses and frequencies dependent on the requirements of the off-site disposal facilities under consideration. Should soil contain elemental or chemical concentrations above the Soil RCs, the NDEP has requested that the contractor present the NDEP and Washoe County Health Department with plans for soil disposition for their review and approval.

3.1.2 Discovery of Unknown Impact

Care will be taken during construction activities to note any stained, discolored, or odorous soils. If such soils are encountered, work will be stopped and the on-site Environmental Specialist will be consulted. In the case of discolored soils, if the Environmental Specialist decides that there is significant cause, the soil will be sampled for TPH-d (or any other suspected contaminant) and RCRA 8 metals. In the case of strong odors or visual indications, the soil will be sampled for TPH-g, TPH-d, TPH-o, metals, volatile organic compounds (VOCs), and/or semi-volatile organic compounds (SVOCs). No further work will be conducted with the impacted soil until analytical results have been received and reviewed, and either the soil has been found not to contain hazardous substances or engineering controls have been implemented to minimize exposure to potential hazardous substances.

Hazardous Waste was not identified during the Phase II nor is Hazardous Waste expected to be encountered during construction of the NTD realignment. However, if unexpected Hazardous Waste is encountered during construction, the soil characterized as Hazardous Waste must be transported with a hazardous waste manifest and disposed of in a Class I Hazardous Waste Landfill in accordance with Chapter 459 of the NRS. Hazardous waste is defined in Section 2.3.1 of this report.

3.1.3 Chemical Analysis Methods

Soil samples will be submitted to a Nevada state-certified analytical laboratory for chemical analysis. Based on the historical land use, the laboratory analysis for the following constituents shall be performed at a minimum:

- RCRA 8 metals (including lead and arsenic) using US EPA Method 6000/7000;

- VOCs using US EPA Method 8260B;
- TPH-g using US EPA Method 8260B; and
- TPH-d and TPH-o using EPA Method 8015.

3.2 Soil Transportation Modes

Both on-site transportation and off-site transportation may be performed using either trucks or railcars. Material to be transported by truck will be loaded into end-dump trucks or transfer trailer trucks with a capacity up to 16 cy (combined). Material to be delivered by rail will be loaded into UPRR railcars with a 100-ton capacity. All loads will be covered and contained on all sides.

3.2.1 On-Site Transportation

Some of the soil excavated during NTD project construction may be reused on-site. On-site transportation is defined as the shipment of material from one portion of the project Site to another, without crossing the borders of the property, or by only crossing a road dividing property owned by the City and/or temporary construction easements for the project. The transportation of excavated material along public streets, highways, or freeways is prohibited unless the material has been properly characterized.

3.2.2 Off-Site Transportation

Off-site transportation is defined as the shipment of material in a manner which requires travel along a public or private right-of-way. Off-site transportation will occur when a material is being properly shipped for off-site disposal. In some cases, off-site transportation may also be used to transfer material from one discontinuous portion of the project area to another, if the material has been characterized sufficiently for waste classification purposes and determined not to be a hazardous waste.

Whatever the purpose, off-site transportation of waste materials will be conducted in accordance with all federal, state, and local statutes, regulations, and ordinances, including the following: 40 CFR Parts 261 to 265; 29 CFR Part 1910.120; 49 CFR Parts 100 to 199.

3.2.3 Potential Destinations

Current estimates indicate that approximately 44,000 cubic yards of soil exceed the Soil RCs and therefore must be transported off-site to a Class II landfill for disposal or treated to reduce TPH below the Action Level. Due to site access limitations, a portion of the alignment from approximately Station 45+00 to 52+50 was not characterized and therefore an estimate of the volume of contaminated material in this area was not provided. Current estimates indicate that approximately 31,000 cubic yards of soil do not contain chemical concentrations above the Soil RCs or arsenic above the background concentration and can therefore be reused on-site or disposed of at a landfill. Based on available soil analytical data collected during the Phase II investigation the Regulated Soil has been tentatively approved for disposal at the following facilities:

Lockwood Landfill
2401 Canyon Way
Sparks, NV 89434

Altamont Landfill
10840 Altamont Pass Road
Livermore CA, 94551

Anderson Landfill
18703 Cambridge Road
Anderson, CA 96007

Ostrom Road Landfill
5900 Ostrom Road
Wheatland, CA 95692

The contractor will be responsible for final approval of the waste intended for landfill disposal. Tentative acceptance letters are presented in Appendix C. The Lockwood Landfill bioremediation cells are limited

to 11,000 cubic yards per year of soil with total petroleum hydrocarbon concentrations greater than 600 mg/Kg. This available volume is subject to change. Due to the age of the data, Recology Environmental Solutions, Inc. which operates Ostrom Road Landfill, would require additional testing to validate the data which has exceeded the age restrictions.

In the event that Lockwood landfill can not accept TPH impacted soil due to capacity of the bioremediation cells, thermal treatment of the soil could be performed to reduce TPH to below Action Levels making the soil applicable for unrestricted reuse or direct bury at Lockwood Landfill. The following thermal treatment facility is located approximately 10 miles away from the Site and has the ability to treat TPH impacted soil at their facility:

Nevada Thermal Services, LLC
2600 Mustang Road
Sparks, NV 89434

3.2.4 Transportation Record Keeping

Daily field notes will be kept by the contractor's project manager or designee. For each shipment of impacted material, documentation in the daily log will include:

- Source location of the soil;
- Date and time of loading for each truck or railcar;
- Transport company and unique truck/railcar identifier (e.g., truck license plate number or railcar number);
- Approximate volume of each truck or railcar load; and
- Destination of the soil.

For each shipment to another on-site location, documentation in the daily log will also include:

- Date of unloading.

For each shipment to an off-site location, documentation retained by the contractor will also include:

- Load-specific shipping papers (e.g., bill of lading, non-hazardous waste manifest or hazardous waste manifest).

For each shipment of hazardous waste to an off-site facility, documentation retained by the contractor will include:

- Uniform Hazardous Waste Manifest (U.S. EPA Form 8700-22 DHS 8022A), completed in full in accordance with the hazardous waste classification assigned to the material on the disposal facility's waste profile. Prior to shipment, the Uniform Hazardous Waste Manifest will be signed by a City representative (as the Generator) or the Cities' designee and the driver for the licensed transporter. Upon arrival at the disposal facility, the manifest for the load will be signed by a representative of the disposal facility.

3.3 Soil Stockpiling

Due to physical space limitations, the sequencing of work, and/or the net balance of the fill/cut of a given area, material from the project area may be removed from and transported to a stockpile location within the project boundary while awaiting either reuse or off-site disposal. It is the responsibility of the

contractor to identify and propose soil stockpile locations for approval by the City prior to their use. However, consistent with Federal Emergency Management Agency (FEMA) requirements the temporary or permanent stockpiling of material within the FEMA floodway is not authorized. If the material has not been adequately characterized, or has been shown to contain chemicals of concern such that it is not suitable for reuse, the material will be handled using the procedures in this section.

Limitations on stockpiling are discussed in the following subsections. These limitations are not intended to apply in the following circumstances:

- Material which has been adequately characterized and found suitable for unrestricted on-site or off-site reuse, which may be placed in any portion of the project site acceptable to the City.
- Smaller volumes of soil approved for reuse which are temporarily placed beside their reuse location. Note that this is considered part of the fill process, instead of stockpiling.
- Small, temporary windrows associated with grading or utility work within the immediate vicinity of an excavation or work area. Note that these are considered part of the grading or trenching activity, instead of stockpiling.
- Imported clean fill material.

3.3.1 Soil Stockpile Location

Contaminated material may be temporarily stockpiled at Horseman's Park with written permission by the City. After completion of the NTD project all material must be removed from Horseman's Park and be properly disposed of to the satisfaction of the City. Horseman's Park is located off of Loop Road in Sparks Nevada (Figure 1).

3.3.2 Stockpile Location Security

The soil stockpiling locations will be fenced to discourage public access. Chain link fencing will be used along the portions of the Site facing public streets, while either chain link fencing or plastic snow fencing will be used as needed along the currently open Site boundaries adjacent to private properties. Signs prohibiting trespassing will be posted at public entrance points. The signs will contain the name and number to contact in the event of an emergency, a representative of the construction contractor firm.

3.3.3 Stockpiling Procedures

One key procedure during stockpiling is that material from separate data populations not be mixed unless the material has been fully characterized and shown to be equivalent for the purposes of reuse or disposal.

A second key procedure is that a stockpile record keeping system will be used for all stockpiled material. The stockpile record keeping system will include:

- The approximate quantity (volume) of the material;
- Documentation of where the material was excavated from (by Station and elevation) and the laboratory analytical results used to profile the excavated material;
- Any possible previous temporary stockpile locations for the material; and
- The ultimate reuse or disposal location, based on the characterization results.

For stockpiled material intended for off-site disposal the stockpile record keeping system will also include the analytical results for samples used to profile the material for off-site disposal.

Additional stockpiling procedures include the following:

- Stockpile erosion and run-on/runoff will be managed using standard best management practices (BMPs) to avoid migration of sediment into the storm drains or surface waters.
- The soil will be stockpiled in a manner that facilitates the segregation of 1,000 cy subsections.
- A silt fence will be constructed around the perimeter of the stockpile area to mitigate migration of sediment into the storm drains or surface waters.
- The stockpiled soil will not contain free liquids.
- The soil will be placed on 10-mil high-density polyethylene (HDPE).
- A commercial, non-petroleum-based dust palliative or hydroseeding will be applied to stockpiles within 30 days of placement to minimize the migration of airborne dust.
- After receipt of sample results, separate stockpiles may be consolidated into larger piles consistent with potential reuse criteria and space constraints.
- The dimensions of any single soil stockpile will be not greater than 1,000 feet long by 50 feet wide and 15 feet high.
- The stockpile Site will be inspected weekly and after storms to ensure that the controls for windblown dispersion and precipitation runoff and run-on are functioning properly.

Uncharacterized waste may be temporarily stockpiled on-site in a lined bin while waiting for laboratory analytical results or disposal. Soil stockpiling procedures will be conducted in accordance with the methods presented above and in accordance with Chapter 459 of the NAC and/or FEMA regulations where applicable.

3.4 Soil Reuse

As depicted on Figure 2, some soil segments contain chemical or elemental concentrations less than the Soil RCs or naturally occurring background concentrations; therefore this material can be reused on-site. Opportunities for reuse may include backfilling of the existing North Truckee Drain, as backfill adjacent to and on top of box culverts, or reused as needed off-site by the contractor for unrelated construction projects. It should be noted however, that although soil segments have been identified for reuse, the reuse of this material must meet Project geotechnical requirements.

| Soils Management Plan – Re-Use/Disposal Matrix | | | | |
|---|--|---|---|---|
| Soil Classification | Soil Management Unit | Description of Work | | |
| | | Re-Use | Solid Waste Disposal | Hazardous Waste Disposal |
| Non-contaminated Material | Unregulated Material (Below NDEP Soil RCs or Within Normal Background Range) | (e.g., Unrestricted Re-Use On- or Off-Site) | (e.g., Lockwood Facility as Construction Waste) | |
| Contaminated Material | Regulated Material (Above NDEP Soil RCs) | | (e.g., Lockwood Facility as Non-RCRA Special Waste) | |
| | Hazardous Waste | | | Unknown Quantity (Not Anticipated to be Encountered) |

4.0 GROUNDWATER MANAGEMENT MEASURES

In general, if groundwater is encountered during construction the recommended groundwater mitigation measure is to dewater, treat, and discharge to the Truckee River under the authority of the Division of Environmental Protection Bureau of Water Pollution Control, under a National Pollutant Discharge Elimination System (NPDES) general permit. HDR estimates that 12 extraction wells operating at flow rate of approximately 250,000 gallons per well per day would be required to lower the groundwater surface to below the proposed excavation depth (HDR, 2011) (Appendix D).

Groundwater encountered during excavation activities will contain contaminants that will require remediation prior to discharge in order to meet requirements of the NPDES permit. Laboratory analysis of water samples collected from monitoring wells installed adjacent to and in the proposed alignment indicate the presence of nitrate, nitrite, sulfite, chloride, ammonia, phosphorous, sodium, total dissolved solids, and total suspended solids. The detected analytes are presented in the *Dewatering Estimates* Technical Memorandum presented in Appendix D.

4.1 Groundwater Characterization

The mobility and lateral variation of groundwater contamination will not allow the anticipated dewatering mechanisms to adequately segregate clean groundwater from contaminated groundwater. Therefore, all extracted groundwater should be considered as potentially impacted and thus will require characterization to determine the appropriate treatment requirements for discharge/disposal. Groundwater characterization will be performed in accordance with the NPDES discharge permit requirements or off-site facility acceptance requirements, depending on the method selected for discharge (see Section 4.2 below). The City is currently preparing a NPDES permit application to permit the discharge of extracted groundwater to the Truckee River. After contract award, the contractor will be responsible for coordinating with the City, and the NDEP, to transfer the NPDES permit to the contractor. The NDEP has indicated that before the NPDES permit can be transferred from the City to the contractor, the contractor will be required to specify the treatment technology and provide a treatment system operations and maintenance (O&M) manual report for review by the NDEP to verify that the treatment technology is sufficient to meet NPDES discharge requirements. Groundwater analytical results collected from soil borings along the proposed alignment in 2010 are presented in Tables 3 and 4. Sediment sample analytical results collected from the existing North Truckee Drain are presented on Table 5.

4.2 Groundwater Treatment and Discharge

Generally, large volumes of groundwater extracted by the dewatering system will be treated by an above-ground on-site treatment system, such as by gravity sedimentation followed by granulated activated carbon adsorption, and ion exchange prior to discharge to the Truckee River. Small volumes of groundwater, or as an alternative to meeting the NPDES discharge requirements of the Truckee River, may be transported to an off-site permitted disposal facility. In this case, a licensed contractor will be used to transport the groundwater off-site with proper transportation permits and documentation, such as bill of lading and nonhazardous waste manifest, depending on the extracted groundwater characterization. Groundwater generated during the construction activities will be disposed using one of the following methods:

- Discharge to the Truckee River under NPDES permit; and/or
- Contain and dispose at an appropriately permitted off-site facility.

Discharge of groundwater to the Truckee Meadows Water Reclamation Facility is not authorized. Discharge of treated dewatering groundwater to the storm drain system is regulated by the NDEP, under a NPDES general permit; however discharge to the storm drains during storm events may not be available

due to capacity limitations. The contractor will also meet the substantive requirements for discharge of storm water runoff associated with construction activity. This includes the preparation of a Storm Water Pollution Prevention Plan with associated BMPs, in compliance with US EPA regulations at 40 CFR Section 122.226(b) (14). Solids and spent carbon generated from the dewatering system must be handled and disposed of in accordance with appropriate and relevant state and federal regulations. The contractor will be responsible for system design, construction, operation, maintenance, sampling and reporting as required by the NPDES permit.

The contractor will be responsible for preparing all the reports related to dewatering system operations in compliance with permit requirements. The reports include, but are not limited to, dewatering system O&M manual, startup report, and self monitoring reports for the treatment system(s).

The NDEP has agreed to issue a NPDES permit to the City which will identify discharge and monitoring requirements for the Project. Prior to discharge, the contractor will be responsible for preparing a document, to include a treatment system O&M report, which proposes a treatment method capable of meeting the Project needs while adhering to the NPDES permit requirements. This document will be submitted to the NDEP for review and approval. Once approved, the NDEP will transfer the NPDES permit from the City to the contractor and authorize the discharge.

4.3 Groundwater Reuse

Reuse of extracted groundwater may be performed to mitigate dust generation, to aid in soil compaction, or in concrete manufacturing. Should the contractor intend to reuse extracted groundwater, the groundwater must not contain chemicals or elements at concentrations greater than the limits posted in Profile 1 Analysis List and the Toxic Materials list referenced in the NDEP Groundwater Discharge Permits on the NDEP Permits Forms and Fee Schedules webpage.

5.0 PROJECT OVERSIGHT AND REPORTING REQUIREMENTS

Proper recordkeeping, reporting, and oversight will be used to document and ensure that soil and groundwater removed from the project area is transported, disposed, or reused in accordance with local, State, and Federal laws. The following are required to meet the reporting and oversight requirements of this project.

5.1 Environmental Specialist

The contractor shall employ or otherwise engage the services of an Environmental Specialist (Certified Environmental Manager) to implement this Plan. The Environmental Specialist is responsible for being knowledgeable of the environmental conditions within the construction areas and for all reporting and documentation aspects of this Plan. The Environmental Specialist is responsible for producing a final report which documents the methods used to characterize waste for disposal, the disposition of excavated material and extracted groundwater. The duties of the Environmental Specialist include but are not limited to:

- Conduct in-situ characterization of all excavated material if identified for immediate disposal after excavation,
- Ensure compliance with requirements of this Plan and all applicable regulations and permits,
- Verify or conduct soil sampling where necessary, to support in-situ characterization or comply with landfill disposal requirements,
- Verify or conduct sampling and analysis of excavated soils,
- Verify or conduct sampling and analysis of extracted groundwater, and

- Oversee loading, prepare manifests, and implement waste tracking procedures for wastes taken to permitted landfills or other disposal facilities.

The Environmental Specialist is responsible for preparing monthly reports for submittal to the City. These reports are intended to document the disposition of contaminated material and the sampling, analysis and management of previously undiscovered contamination. These monthly reports should contain the following, at a minimum:

- Nonhazardous disposal manifests,
- The station location of any samples collected,
- Laboratory analytical results,
- A table summarizing the laboratory analytical results, and
- A summary of the volume of contaminated material excavated and the disposition of this material.

5.2 Contaminant Management Reporting

Upon completion of the project the Environmental Specialist is required to prepare and submit a Contaminant Management Report to the City. The purpose of the Contaminant Management Report is to document the characterization of excavated material, the location of any previously undiscovered waste, and the disposition of all material disturbed as part of this Project. The Contaminant Management Report shall contain the following, at a minimum:

- Daily field logs,
- All laboratory results with sample locations,
- Waste disposal manifests and tracking information, and
- Location of all excavated soil by station number.

The City or the City's agent will review the Contaminant Management Report within a reasonable amount of time to ensure that excavated material reached the intended destination. Should the City determine that contaminated material did not reach the intended destination it is the responsibility of the Contractor to remove and/or remediate the misplaced material to the satisfaction of the City. The City reserves the right to withhold final payment from the Contractor until it has been demonstrated that all material has been disposed of properly and legally.

6.0 REFERENCES

40 CFR 261. Identification and listing of Hazardous Waste, September 21, 1984.

HDR, 2010a. Report of Sampling and Analysis, HDR, July 2010.

HDR, 2010b. Phase I Environmental Site Assessment for the North Truckee Drain Realignment, Sparks Nevada, HDR, May 2010.

HDR, 2011. "Discharge Approval for North Truckee Drain Realignment Dewatering". Letter to Mr. Toby Ebens, The City of Sparks, January 6, 2011.

NAC 445A.1688. Truckee River at Lockwood Bridge, Standards of Water Quality, Nevada Administrative Code.

Title 13 § 36.090. Limitations on Wastewater Strength, Nevada State Municipal Code.

- USEPA, 2010. Regional Screening Levels (RSL) for Chemical Contaminants at Superfund Sites, United States Environmental Protection Agency, May 2010.
- USGS, 1984. Shacklette, Hansford T., Boerngen, Josephine G. Element Concentrations in Soil and Other Surficial Materials of the Conterminous United States, United States Geophysical Survey. P. 1270, p. 105
- USGS, 2001. Gustavsson N., Bolviken B., Smith D.B., Severson R.C. Geochemical Landscapes of the Conterminous United States-New Map Presentations for 22 Elements, United States Geophysical Survey, P 1648, p. 38.
- NDEP, 2009. Bureau of Corrective Actions Notification Requirements Guidance for Soil Excavation During Initial Abatement or Workplan Changes in Scope, Nevada Division of Environmental Protection January 2009.

Table 1
Soil Analytical Results - Total Metals
North Truckee Drain Realignment
Sparks, Nevada

| Boring ID | Sample Date | Sample Depth (fbgs) | Ag | As | Ba | Cd | Cr | Hg | Pb | Se |
|--------------------------|-------------|---------------------|-------|-------|---------|-------|-------|-------|-------|-------|
| Units | | | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| SB-01 | 05/26/10 | 2 | <1.0 | 4.8 | 110 | <1.0 | 13 | <0.20 | 7.0 | <1.0 |
| SB-01 | 05/26/10 | 8 | <1.0 | 5.5 | 240 | <1.0 | 17 | <0.20 | 11 | <1.0 |
| SB-01 | 05/26/10 | 13 | <1.0 | 2.8 | 150 | <1.0 | 15 | <0.20 | 8.8 | <1.0 |
| SB-02 | 05/26/10 | 2 | <1.0 | 10.0 | 170 | <1.0 | 16 | <0.20 | 7.3 | <1.0 |
| SB-02 | 05/26/10 | 8 | <1.0 | 7.4 | 150 | <1.0 | 15 | <0.20 | 8.2 | <1.0 |
| SB-02 | 05/26/10 | 15 | <1.0 | 7.3 | 170 | <1.0 | 13 | <0.20 | 8.6 | <1.0 |
| SB-03 | 05/25/10 | 2 | <1.0 | 12 | 270 | <1.0 | 19 | <0.20 | 9.0 | <1.0 |
| SB-03 | 05/25/10 | 13 | <1.0 | 5.4 | 190 | <1.0 | 18 | <0.20 | 13 | <1.0 |
| SB-03 | 05/25/10 | 17 | <1.0 | 7.3 | 52 | <1.0 | 21 | <0.20 | 4.5 | <1.0 |
| SB-04 | 05/26/10 | 1 | <1.0 | 12 | 140 | <1.0 | 19 | <0.20 | 8.5 | <1.0 |
| SB-04 | 05/26/10 | 10 | <1.0 | 8.9 | 140 | <1.0 | 20 | <0.20 | 11 | <1.0 |
| SB-04 | 05/26/10 | 17 | <1.0 | 7.0 | 260 | <1.0 | 23 | <0.20 | 36 | <1.0 |
| SB-05 | 05/26/10 | 2 | <1.0 | 9.6 | 180 | <1.0 | 17 | <0.20 | 9.9 | 1.1 |
| SB-05 | 05/26/10 | 10 | <1.0 | 8.7 | 190 | <1.0 | 24 | <0.20 | 9.0 | <1.0 |
| SB-05 | 05/26/10 | 17 | <1.0 | 7.2 | 160 | <1.0 | 19 | <0.20 | 7.4 | <1.0 |
| SB-07 | 05/26/10 | 2 | <1.0 | 11 | 390 | <1.0 | 18 | <0.20 | 6.2 | 6.2 |
| SB-07 | 05/26/10 | 10 | <1.0 | 3.0 | 86 | <1.0 | 11 | <0.20 | 4.7 | <1.0 |
| SB-07 | 05/26/10 | 17 | <1.0 | 5.5 | 120 | <1.0 | 15 | <0.20 | 5.2 | <1.0 |
| SB-08 | 05/27/10 | 10 | <1.0 | 11 | 47 | <1.0 | 7.8 | <0.20 | 2.8 | <1.0 |
| SB-09 | 05/27/10 | 10 | <1.0 | 3.6 | 160 | <1.0 | 15 | <0.20 | 4.7 | <1.0 |
| SB-10 | 05/27/10 | 10 | <1.0 | 5.4 | 140 | <1.0 | 17 | <0.20 | 4.5 | <1.0 |
| NDEP Soil RCs | | | 340 | 0.39 | NE | 8 | 38 | 6.7 | 400 | 5 |
| RSL (Residential) | | | 390 | 0.39 | 15,000 | 70 | NE | 5.6 | 400 | 390 |
| RSL (Industrial) | | | 5,100 | 1.6 | 190,000 | 800 | NE | 34 | 800 | 5,100 |
| Background | | | NE | 10 | 580 | NE | 41 | 0.046 | 17 | 0.23 |

Notes:

mg/Kg = micrograms per kilogram

fbgs = feet below ground surface

Samples analyzed by EPA Method SW6020/SW6020A

NE = Not Established

As=Arsenic

Cr = Chromium

Ag=Silver

Hg=Mercury

Ba=Barium

Pb=Lead

Cd=Cadmium

Se=Selenium

RSL = Regional Screening Levels, EPA Region 9, May 2010

Background concentrations based on Element Concentrations in

Soils and Other Surficial Materials of the Conterminous United States, USGS, 1984

< = Less than reporting limit

Table 2
Soil Analytical Results - Petroleum Hydrocarbons, VOCs, and pH
North Truckee Drain Realignment
Sparks, Nevada

| Sample ID | Sample Date | Sample Depth (fbgs) | TPH-d | TPH-o | TPH-g | VOCs | pH |
|----------------------|-------------|---------------------|-------|-------|-------|-------|-----|
| Units | | | mg/Kg | mg/Kg | mg/Kg | µg/Kg | SU |
| SB-01 | 05/26/10 | 2 | 340 L | 2,800 | <10 | ND | NT |
| SB-01 | 05/26/10 | 8 | 290 L | 2,000 | <10 | ND | 8.0 |
| SB-01 | 05/26/10 | 13 | <10 | <10 | <10 | ND | NT |
| SB-02 | 05/26/10 | 2 | <10 | <10 | <10 | ND | NT |
| SB-02 | 05/26/10 | 8 | 49 L | 180 | <10 | ND | NT |
| SB-02 | 05/26/10 | 15 | <10 | <10 | <10 | ND | NT |
| SB-03 | 05/25/10 | 2 | <10 | 31 | <10 | ND | NT |
| SB-03 | 05/25/10 | 13 | <10 | 15 | <10 | ND | 8.4 |
| SB-03 | 05/25/10 | 17 | <10 | 20 | <10 | ND | NT |
| SB-04 | 05/26/10 | 1 | 220 L | 1,800 | <10 | ND | NT |
| SB-04 | 05/26/10 | 10 | 49 L | 240 | <10 | ND | NT |
| SB-04 | 05/26/10 | 17 | 130 L | 850 | <10 | ND | NT |
| SB-05 | 05/26/10 | 2 | 42 L | 130 | <10 | ND | NT |
| SB-05 | 05/26/10 | 10 | <10 | <10 | <10 | ND | 8.0 |
| SB-05 | 05/26/10 | 17 | <10 | <10 | <10 | ND | NT |
| SB-07 | 05/26/10 | 2 | 260 L | 2,200 | <10 | ND | NT |
| SB-07 | 05/26/10 | 10 | <10 | <10 | <10 | ND | 7.8 |
| SB-07 | 05/26/10 | 17 | <10 | <10 | <10 | ND | NT |
| SB-08 | 05/27/10 | 2 | 250 L | 4,200 | <10 | ND | 8.3 |
| SB-08 | 05/27/10 | 8 | <10 | <10 | <10 | ND | 8.7 |
| SB-08 | 05/27/10 | 10 | <10 | <10 | <10 | ND | 8.6 |
| SB-08 | 05/27/10 | 17 | <10 | <10 | <10 | ND | 8.1 |
| SB-09 | 05/27/10 | 2 | 150 L | 1,900 | <10 | ND | 8.6 |
| SB-09 | 05/27/10 | 10 | 32 L | 450 | <10 | ND | 8.0 |
| SB-09 | 05/27/10 | 17 | <25 | <50 | <10 | ND | 7.5 |
| SB-10 | 05/27/10 | 2 | 37 L | 520 | <10 | ND | 8.5 |
| SB-10 | 05/27/10 | 10 | <10 | <10 | <10 | ND | 7.4 |
| SB-10 | 05/27/10 | 17 | <10 | <10 | <10 | ND | 8.4 |
| NDEP Soil RCs | | | 100 | 100 | 100 | | |

Notes:

mg/Kg = Milligrams per kilogram

NT = Not Tested

fbgs = feet below ground surface

SU = Standard units

< = Less than reporting limit

L = The DRO concentration may include contributions from heavier-end hydrocarbons that elute in the DRO range.

TPH-d = total petroleum hydrocarbons as diesel

TPH-o = total petroleum hydrocarbons as oil

TPH-g = total petroleum hydrocarbons as gasoline

Table 3
Groundwater Analytical Results - Petroleum Hydrocarbons, General Chemistry, VOCs, and SVOCs
North Truckee Drain Realignment
Sparks, Nevada

| Sample ID | Sample Date | TPH-d | TPH-O&G | TPH-o | TPH-g | pH | Total N | Nitrate | Nitrite | Sulfate | Chloride | Ammonia as N | Fluoride | Phosphorus | TDS | Alkalinity | Total Phenolics | Phenol | VOCs | SVOCs |
|---------------------|-------------|-------|---------|-------|-------|---------|---------|---------|---------|---------|----------|--------------|----------|------------|-------|------------|-----------------|--------|------|-------|
| Units | | mg/L | mg/L | mg/L | mg/L | SU | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | µg/L | µg/L | µg/L |
| SB-02 | 05/26/10 | <0.5 | <5.0 | <0.50 | <0.50 | 7.7 | 7.6 | <0.25 | <0.25 | 130 | 58 | 2.3 | <0.25 | 50 | 670 | 370 | <0.005 | <10 | ND | ND |
| SB-03 | 05/25/10 | <0.5 | <5.0 | <0.50 | <0.50 | 7.7 | 0.99 | <0.25 | <0.25 | 160 | 80 | 0.26 | <0.25 | 1.2 | 830 | 440 | <0.005 | <10 | ND | ND |
| SB-07 | 05/26/10 | <0.5 | <5.0 | <0.50 | <0.50 | 7.1 | 1.4 | <0.25 | <0.25 | 810 | 88 | 0.39 | 0.66 | 2.0 | 1,900 | 610 | <0.005 | <10 | ND | ND |
| SB-10 | 05/27/10 | <0.5 | <5.0 | <0.50 | <0.50 | 7.7 | 63 | <0.25 | <0.25 | 41 | 40 | 8.0 | 2.6 | 56 | 1,600 | 590 | <0.005 | <10 | ND | ND |
| WQS - A-Avg. | | NE | NE | NE | NE | NE | 0.76 | NE | NE | ≤ 39 | ≤ 26 | + | NE | ≤ 0.05 | ≤ 210 | ¥ | NE | NE | NE | NE |
| WQS - SV | | NE | NE | NE | NE | 7.1-8.5 | 1.3 B | 2.1 | 0.5 | ≤ 46 | ≤ 30 | + | NE | NE | ≤ 260 | NE | NE | NE | NE | NE |
| TMWRF Limits | | 100 | 100 | 100 | 100 | 5.5-10 | NE | NE | NE | 240 | 110 | NE | 4 | NE | NE | 430 | 0.005 | 2.5 | NE | NE |

Notes:

NE not established
 SU Standard units
 mg/L milligrams per liter
 < Less than reporting limit
Bold Bold values indicate and exceedance of the WQS or TMWRF Limits
 TPH-d total petroleum hydrocarbons as diesel
 TPH-o total petroleum hydrocarbons as oil
 Total N Total Nitrogen
 TDS Total dissolved solids
 VOCs Volatile organic compounds
 ND Analyte not detected above laboratory reporting limit
 SVOCs Semivolatile organic compounds
 TMWRF Limits Truckee Meadows Water Reclamation Facility Limitations on Wastewater Strength SMC Title 13 Section 36

WQS Notes:

SV Single Value
 A-Avg. Annual Average
 WQS NAC 445A.187 Truckee River at Lockwood Bridge
 (NRS 445A.425, 445A.520) Water Quality Standards
 + See NAC 445A.118
 ¥ Less than 25% change from natural conditions. Current natural conditions are unknown and likely vary over time.
 B Total nitrogen also can not exceed the A.-Avg. of 0.75

Table 4
Groundwater Analytical Results - Total Metals
North Truckee Drain Realignment
Sparks, Nevada

| Sample ID | Sample Date | Ag | As | B | Ba | Cd | Cn | Cr | Cu | Fe | Hg | Mn | Na | Ni | Pb | Se | Zn |
|--------------|-------------|--------|------|------|------|--------|--------|------|------|------|--------|------|------|-------|-------|--------|------|
| Units | | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| SB-02 | 05/26/10 | <0.005 | 0.39 | 1.0 | 14 | 0.0087 | <0.005 | 0.61 | 1.6 | 1100 | <0.001 | 27 | 150 | 0.70 | 0.36 | 0.025 | 3.0 |
| SB-03 | 05/25/10 | <0.005 | 0.11 | 0.82 | 1.0 | <0.005 | <0.005 | 0.17 | 0.22 | 140 | <0.001 | 2.8 | 210 | 0.082 | 0.10 | <0.005 | 0.44 |
| SB-07 | 05/26/10 | <0.005 | 0.45 | 1.5 | 2.4 | <0.005 | <0.005 | 0.13 | 0.24 | 230 | <0.001 | 5.5 | 430 | 0.095 | 0.15 | <0.005 | 0.51 |
| SB-10 | 05/27/10 | <0.005 | 0.23 | 1.9 | 6.4 | <0.005 | 0.009 | 0.10 | 0.21 | 400 | <0.001 | 20 | 590 | 0.13 | 0.059 | <0.005 | 0.48 |
| WQS - A-Avg. | | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | 1.5 | NE | NE | NE | NE |
| WQS - SV | | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | 2.0 | NE | NE | NE | NE |
| TMWRF Limits | | 0.05 | 2.00 | 1 | 14.0 | 0.02 | 0.23 | 0.5 | 0.50 | 90 | 0.010 | 1.10 | NE | 1.8 | 0.300 | 0.06 | 1.00 |

Notes:

NE not established
mg/L milligrams per liter
WQS NAC 445A.187 Truckee River at Lockwood Bridge (NRS 445A.425, 445A.520) Water Quality Standards
< Less than reporting limit
TMWRF Limits Truckee Meadows Water Reclamation Facility Limitations on Wastewater Strength SMC Title 13 Section 36

| | |
|-------------|--------------|
| Ag Silver | Fe Iron |
| As Arsenic | Hg Mercury |
| B Boron | Mn Manganese |
| Ba Barium | Na Sodium |
| Cd Cadmium | Ni Nickel |
| Cn Cyanide | Pb Lead |
| Cr Chromium | Se Selenium |
| Cu Copper | Zn Zinc |

WQS Notes:

SV Single Value
A-Avg. Annual Average
* Secondary MCL
^ Action Level

Table 5
Sediment Analytical Results
North Truckee Drain Realignment
Sparks, Nevada

| Sample ID | Sample Date | TPH-d | TPH-o | VOCs | Pesticides | Herbicides | PCBs | SVOCs | Ag | As | Ba | Cd | Cr | Hg | Pb | Se |
|--------------------------|-------------|-------|-------|--------|------------|------------|--------|--------|-------|-------|---------|-------|-----------|-------|-------|-------|
| Units | | mg/Kg | mg/Kg | µg/Kg | µg/Kg | mg/Kg | µg/Kg | µg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| SS-01 | 05/25/10 | 22 | 170 | ND | ND | ND | ND | ND | <1.0 | 5.2 | 63 | <1.0 | 12 | <0.20 | 5.0 | <1.0 |
| SS-02 | 05/25/10 | <10 | <17 | ND | ND | ND | ND | ND | <1.0 | 8.0 | 160 | <1.0 | 16 | <0.20 | 8.7 | <1.0 |
| RSL (Residential) | | NE | NE | Varies | Varies | Varies | Varies | Varies | 390 | 0.39 | 15,000 | 70 | 120,000 | 5.6 | 400 | 390 |
| RSL (Industrial) | | NE | NE | Varies | Varies | Varies | Varies | Varies | 5,100 | 1.6 | 190,000 | 800 | 1,500,000 | 34 | 800 | 5,100 |
| Background | | NE | NE | NE | NE | NE | NE | NE | NE | 10 | 580 | NE | 41 | 0.046 | 17 | 0.23 |

Notes:

mg/kg = milligram per kilogram

µg/Kg = microgram per kilogram

Ag=Silver Cr = Chromium

As=Arsenic Hg=Mercury

Ba=Barium Pb=Lead

Cd=Cadmium Se=Selenium

TPH-d = total petroleum hydrocarbons as diesel

TPH-o = total petroleum hydrocarbons as oil

Pesticides = Organochlorine pesticides

Herbicides = Chlorinated Herbicides

PCBs = Polychlorinated biphenols

SVOCs = Semivolatile organic compounds

ND = Analyte(s) not detected above laboratory reporting limit

NE = Not Established

RSL = Regional Screening Levels, EPA Region 9, May 2010

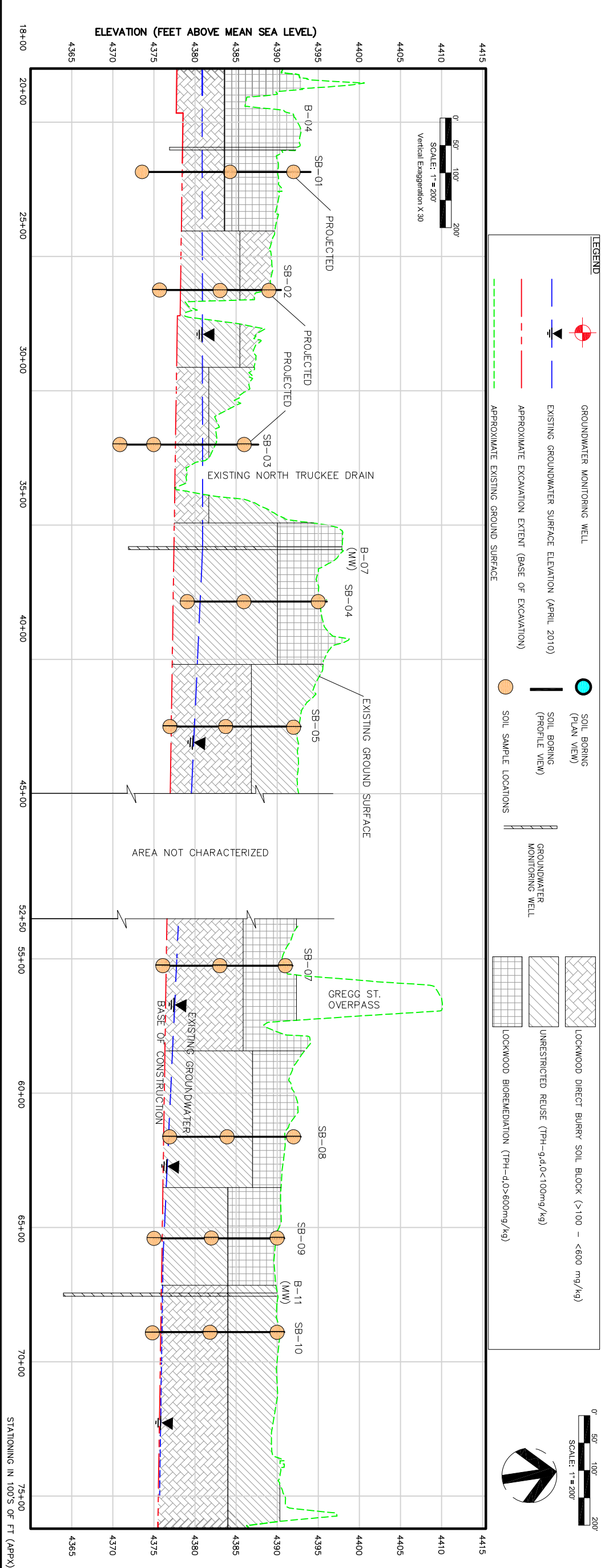
Background concentrations based on Element Concentrations in Soils and Other Surficial Materials of the Conterminous United States, USGS, 1984



SITE VICINITY MAP
 NORTH TRUCKEE
 DRAIN REALIGNMENT
 SPARKS - NV

January 2013

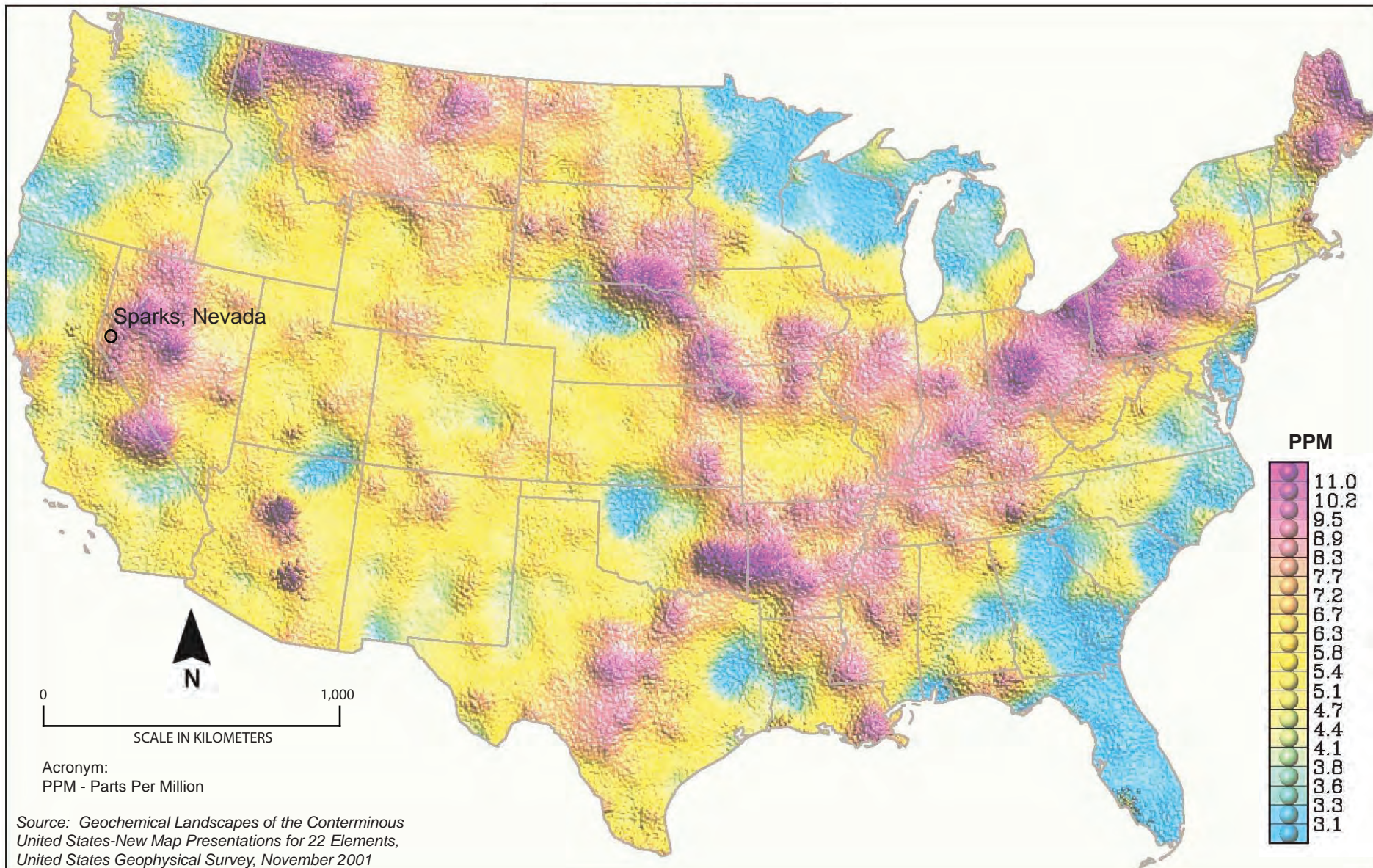
FIGURE:
1



PLAN VIEW AND CROSS SECTION
 NORTH TRUCKEE
 DRAIN REALIGNMENT
 SPARKS - NV

January 2013
 FIGURE:
2





BACKGROUND ARSENIC CONCENTRATIONS

NORTH TRUCKEE
DRAIN REALIGNMENT

SPARKS - NV

January 2013

FIGURE:

3

APPENDIX A

NDEP Draft Guidelines for Discovery Events

NDEP Draft Guidelines for Discovery Events (Soil RCs)

Appendix A2--Full list of Reportable Concentrations in soil

Version: 01/28/2009

| Analyte | CAS No. | Reportable Concentration (mg/kg) | Source |
|-----------------------------|------------|----------------------------------|--|
| Acephate | 30560-19-1 | 5.6E+01 | EPA Regional Screening Level, Residential Soil |
| Acetaldehyde | 75-07-0 | 1.1E+01 | EPA Regional Screening Level, Residential Soil |
| Acetochlor | 34256-82-1 | 1.2E+03 | EPA Regional Screening Level, Residential Soil |
| Acetone | 67-64-1 | 1.6E+01 | Soil Screening Level, DAF 20 |
| Acetone Cyanohydrin | 75-86-5 | 2.0E+02 | EPA Regional Screening Level, Residential Soil |
| Acetonitrile | 75-05-8 | 8.7E+02 | EPA Regional Screening Level, Residential Soil |
| Acetophenone | 98-86-2 | 7.8E+03 | EPA Regional Screening Level, Residential Soil |
| Acrolein | 107-02-8 | 1.6E-01 | EPA Regional Screening Level, Residential Soil |
| Acrylamide | 79-06-1 | 1.1E-01 | EPA Regional Screening Level, Residential Soil |
| Acrylic Acid | 79-10-7 | 3.0E+04 | EPA Regional Screening Level, Residential Soil |
| Acrylonitrile | 107-13-1 | 2.4E-01 | EPA Regional Screening Level, Residential Soil |
| Adiponitrile | 111-69-3 | 8.5E+06 | EPA Regional Screening Level, Residential Soil |
| Alachlor | 15972-60-8 | 8.7E+00 | EPA Regional Screening Level, Residential Soil |
| ALAR | 1596-84-5 | 9.2E+03 | EPA Regional Screening Level, Residential Soil |
| Aldicarb | 116-06-3 | 6.1E+01 | EPA Regional Screening Level, Residential Soil |
| Aldicarb Sulfone | 1646-88-4 | 6.1E+01 | EPA Regional Screening Level, Residential Soil |
| Aldrin | 309-00-2 | 2.9E-02 | EPA Regional Screening Level, Residential Soil |
| Allyl | 74223-64-6 | 1.5E+04 | EPA Regional Screening Level, Residential Soil |
| Allyl Alcohol | 107-18-6 | 3.1E+02 | EPA Regional Screening Level, Residential Soil |
| Allyl Chloride | 107-05-1 | 1.8E+00 | EPA Regional Screening Level, Residential Soil |
| Aluminum | 7429-90-5 | 7.7E+04 | EPA Regional Screening Level, Residential Soil |
| Aluminum Phosphide | 20859-73-8 | 3.1E+01 | EPA Regional Screening Level, Residential Soil |
| Amdro | 67485-29-4 | 1.8E+01 | EPA Regional Screening Level, Residential Soil |
| Ametryn | 834-12-8 | 5.5E+02 | EPA Regional Screening Level, Residential Soil |
| Aminophenol, m- | 591-27-5 | 4.9E+03 | EPA Regional Screening Level, Residential Soil |
| Aminophenol, p- | 123-30-8 | 1.2E+03 | EPA Regional Screening Level, Residential Soil |
| Amitraz | 33089-61-1 | 1.5E+02 | EPA Regional Screening Level, Residential Soil |
| Ammonia | 7664-41-7 | 1.4E+08 | EPA Regional Screening Level, Residential Soil |
| Ammonium Perchlorate | 7790-98-9 | 5.5E+01 | EPA Regional Screening Level, Residential Soil |
| Ammonium Sulfamate | 7773-06-0 | 1.6E+04 | EPA Regional Screening Level, Residential Soil |
| Aniline | 62-53-3 | 8.5E+01 | EPA Regional Screening Level, Residential Soil |
| Antimony (metallic) | 7440-36-0 | 5.0E+00 | Soil Screening Level, DAF 20 |
| Antimony Pentoxide | 1314-60-9 | 3.9E+01 | EPA Regional Screening Level, Residential Soil |
| Antimony Potassium Tartrate | 11071-15-1 | 7.0E+01 | EPA Regional Screening Level, Residential Soil |
| Antimony Tetroxide | 1332-81-6 | 3.1E+01 | EPA Regional Screening Level, Residential Soil |
| Antimony Trioxide | 1309-64-4 | 3.1E+01 | EPA Regional Screening Level, Residential Soil |
| Apollo | 74115-24-5 | 7.9E+02 | EPA Regional Screening Level, Residential Soil |
| Aramite | 140-57-8 | 1.9E+01 | EPA Regional Screening Level, Residential Soil |
| Arsenic, Inorganic | 7440-38-2 | 3.9E-01 | EPA Regional Screening Level, Residential Soil |
| Arsine | 7784-42-1 | 7.1E+04 | EPA Regional Screening Level, Residential Soil |
| Assure | 76578-14-8 | 5.5E+02 | EPA Regional Screening Level, Residential Soil |
| Asulam | 3337-71-1 | 3.1E+03 | EPA Regional Screening Level, Residential Soil |
| Atrazine | 1912-24-9 | 2.1E+00 | EPA Regional Screening Level, Residential Soil |
| Avermectin B1 | 65195-55-3 | 2.4E+01 | EPA Regional Screening Level, Residential Soil |
| Azobenzene | 103-33-3 | 4.9E+00 | EPA Regional Screening Level, Residential Soil |
| Barium | 7440-39-3 | 1.6E+03 | Soil Screening Level, DAF 20 |
| Baygon | 114-26-1 | 2.4E+02 | EPA Regional Screening Level, Residential Soil |
| Bayleton | 43121-43-3 | 1.8E+03 | EPA Regional Screening Level, Residential Soil |
| Baythroid | 68359-37-5 | 1.5E+03 | EPA Regional Screening Level, Residential Soil |
| Benefin | 1861-40-1 | 1.8E+04 | EPA Regional Screening Level, Residential Soil |
| Benomyl | 17804-35-2 | 3.1E+03 | EPA Regional Screening Level, Residential Soil |
| Bentazon | 25057-89-0 | 1.8E+03 | EPA Regional Screening Level, Residential Soil |
| Benzaldehyde | 100-52-7 | 7.8E+03 | EPA Regional Screening Level, Residential Soil |
| Benzene | 71-43-2 | 3.0E-02 | Soil Screening Level, DAF 20 |
| Benzenethiol | 108-98-5 | 7.8E-01 | EPA Regional Screening Level, Residential Soil |
| Benzidine | 92-87-5 | 5.0E-04 | EPA Regional Screening Level, Residential Soil |
| Benzoic Acid | 65-85-0 | 4.0E+02 | Soil Screening Level, DAF 20 |
| Benzotrithloride | 98-07-7 | 4.9E-02 | EPA Regional Screening Level, Residential Soil |
| Benzyl Alcohol | 100-51-6 | 3.1E+04 | EPA Regional Screening Level, Residential Soil |
| Benzyl Chloride | 100-44-7 | 3.8E+00 | EPA Regional Screening Level, Residential Soil |

NDEP Draft Guidelines for Discovery Events (Soil RCs)

Appendix A2--Full list of Reportable Concentrations in soil

Version: 01/28/2009

| Analyte | CAS No. | Reportable Concentration (mg/kg) | Source |
|-----------------------------------|------------|----------------------------------|--|
| Beryllium and compounds | 7440-41-7 | 6.3E+01 | Soil Screening Level, DAF 20 |
| Bidrin | 141-66-2 | 6.1E+00 | EPA Regional Screening Level, Residential Soil |
| Bifenox | 42576-02-3 | 5.5E+02 | EPA Regional Screening Level, Residential Soil |
| Biphenthrin | 82657-04-3 | 9.2E+02 | EPA Regional Screening Level, Residential Soil |
| Biphenyl, 1,1'- | 92-52-4 | 3.9E+03 | EPA Regional Screening Level, Residential Soil |
| Bis(2-chloroethoxy)methane | 111-91-1 | 1.8E+02 | EPA Regional Screening Level, Residential Soil |
| Bis(2-chloroethyl)ether | 111-44-4 | 4.0E-04 | Soil Screening Level, DAF 20 |
| Bis(2-chloro-1-methylethyl) ether | 108-60-1 | 3.5E+00 | EPA Regional Screening Level, Residential Soil |
| Bis(2-ethylhexyl)phthalate | 117-81-7 | 3.5E+01 | EPA Regional Screening Level, Residential Soil |
| Bis(chloromethyl)ether | 542-88-1 | 2.7E-04 | EPA Regional Screening Level, Residential Soil |
| Bisphenol A | 80-05-7 | 3.1E+03 | EPA Regional Screening Level, Residential Soil |
| Boron And Borates Only | 7440-42-8 | 1.6E+04 | EPA Regional Screening Level, Residential Soil |
| Boron Trifluoride | 7637-07-2 | 9.9E+05 | EPA Regional Screening Level, Residential Soil |
| Bromate | 15541-45-4 | 9.1E-01 | EPA Regional Screening Level, Residential Soil |
| Bromobenzene | 108-86-1 | 9.4E+01 | EPA Regional Screening Level, Residential Soil |
| Bromodichloromethane | 75-27-4 | 6.0E-01 | Soil Screening Level, DAF 20 |
| Bromoform | 75-25-2 | 8.0E-01 | Soil Screening Level, DAF 20 |
| Bromomethane | 74-83-9 | 2.0E-01 | Soil Screening Level, DAF 20 |
| Bromophos | 2104-96-3 | 3.1E+02 | EPA Regional Screening Level, Residential Soil |
| Bromoxynil | 1689-84-5 | 1.2E+03 | EPA Regional Screening Level, Residential Soil |
| Bromoxynil Octanoate | 1689-99-2 | 1.2E+03 | EPA Regional Screening Level, Residential Soil |
| Butadiene, 1,3- | 106-99-0 | 7.7E-02 | EPA Regional Screening Level, Residential Soil |
| Butanol, N- | 71-36-3 | 1.7E+01 | Soil Screening Level, DAF 20 |
| Butyl Benzyl Phthlate | 85-68-7 | 2.6E+02 | EPA Regional Screening Level, Residential Soil |
| Butylate | 2008-41-5 | 3.1E+03 | EPA Regional Screening Level, Residential Soil |
| Butylphthalyl Butylglycolate | 85-70-1 | 6.1E+04 | EPA Regional Screening Level, Residential Soil |
| Cacodylic Acid | 75-60-5 | 1.2E+03 | EPA Regional Screening Level, Residential Soil |
| Cadmium (Diet) | 7440-43-9 | 8.0E+00 | Soil Screening Level, DAF 20 |
| Caprolactam | 105-60-2 | 3.1E+04 | EPA Regional Screening Level, Residential Soil |
| Captafol | 2425-06-1 | 3.2E+00 | EPA Regional Screening Level, Residential Soil |
| Captan | 133-06-2 | 2.1E+02 | EPA Regional Screening Level, Residential Soil |
| Carbaryl | 63-25-2 | 6.1E+03 | EPA Regional Screening Level, Residential Soil |
| Carbofuran | 1563-66-2 | 3.1E+02 | EPA Regional Screening Level, Residential Soil |
| Carbon Disulfide | 75-15-0 | 3.2E+01 | Soil Screening Level, DAF 20 |
| Carbon Tetrachloride | 56-23-5 | 7.0E-02 | Soil Screening Level, DAF 20 |
| Carbosulfan | 55285-14-8 | 6.1E+02 | EPA Regional Screening Level, Residential Soil |
| Carboxin | 5234-68-4 | 6.1E+03 | EPA Regional Screening Level, Residential Soil |
| Chloral Hydrate | 302-17-0 | 6.1E+03 | EPA Regional Screening Level, Residential Soil |
| Chloramben | 133-90-4 | 9.2E+02 | EPA Regional Screening Level, Residential Soil |
| Chloranil | 118-75-2 | 1.2E+00 | EPA Regional Screening Level, Residential Soil |
| Chlordane | 12789-03-6 | 1.6E+00 | EPA Regional Screening Level, Residential Soil |
| Chlordecone (Kepone) | 143-50-0 | 3.0E-02 | EPA Regional Screening Level, Residential Soil |
| Chlorimuron, Ethyl- | 90982-32-4 | 1.2E+03 | EPA Regional Screening Level, Residential Soil |
| Chlorine | 7782-50-5 | 7.5E+03 | EPA Regional Screening Level, Residential Soil |
| Chlorine Dioxide | 10049-04-4 | 2.3E+03 | EPA Regional Screening Level, Residential Soil |
| Chlorite (Sodium Salt) | 7758-19-2 | 2.3E+03 | EPA Regional Screening Level, Residential Soil |
| Chloro-1,1-difluoroethane, 1- | 75-68-3 | 5.9E+04 | EPA Regional Screening Level, Residential Soil |
| Chloro-1,3-butadiene, 2- | 126-99-8 | 8.6E+00 | EPA Regional Screening Level, Residential Soil |
| Chloro-2-methylaniline HCl, 4- | 3165-93-3 | 1.1E+00 | EPA Regional Screening Level, Residential Soil |
| Chloro-2-methylaniline, 4- | 95-69-2 | 1.8E+00 | EPA Regional Screening Level, Residential Soil |
| Chloroacetic Acid | 79-11-8 | 1.2E+02 | EPA Regional Screening Level, Residential Soil |
| Chloroacetophenone, 2- | 532-27-4 | 4.3E+04 | EPA Regional Screening Level, Residential Soil |
| Chloroaniline, p- | 106-47-8 | 7.0E-01 | Soil Screening Level, DAF 20 |
| Chlorobenzene | 108-90-7 | 1.0E+00 | Soil Screening Level, DAF 20 |
| Chlorobenzilate | 510-15-6 | 4.4E+00 | EPA Regional Screening Level, Residential Soil |
| Chlorobenzotrifluoride, 4- | 98-56-6 | 2.1E+02 | EPA Regional Screening Level, Residential Soil |
| Chlorobutane, 1- | 109-69-3 | 3.1E+03 | EPA Regional Screening Level, Residential Soil |
| Chlorodifluoromethane | 75-45-6 | 5.3E+04 | EPA Regional Screening Level, Residential Soil |
| Chloroform | 67-66-3 | 3.0E-01 | EPA Regional Screening Level, Residential Soil |
| Chloromethane | 74-87-3 | 1.7E+00 | EPA Regional Screening Level, Residential Soil |

NDEP Draft Guidelines for Discovery Events (Soil RCs)

Appendix A2--Full list of Reportable Concentrations in soil

Version: 01/28/2009

| Analyte | CAS No. | Reportable Concentration (mg/kg) | Source |
|--|------------|----------------------------------|--|
| Chloronaphthalene, Beta- | 91-58-7 | 6.3E+03 | EPA Regional Screening Level, Residential Soil |
| Chloronitrobenzene, o- | 88-73-3 | 5.0E+01 | EPA Regional Screening Level, Residential Soil |
| Chloronitrobenzene, p- | 100-00-5 | 6.1E+01 | EPA Regional Screening Level, Residential Soil |
| Chlorophenol, 2- | 95-57-8 | 4.0E+00 | Soil Screening Level, DAF 20 |
| Chlorothalonil | 1897-45-6 | 1.6E+02 | EPA Regional Screening Level, Residential Soil |
| Chlorotoluene, o- | 95-49-8 | 1.6E+03 | EPA Regional Screening Level, Residential Soil |
| Chlorotoluene, p- | 106-43-4 | 5.5E+03 | EPA Regional Screening Level, Residential Soil |
| Chlorpropham | 101-21-3 | 1.2E+04 | EPA Regional Screening Level, Residential Soil |
| Chlorpyrifos | 2921-88-2 | 1.8E+02 | EPA Regional Screening Level, Residential Soil |
| Chlorpyrifos Methyl | 5598-13-0 | 6.1E+02 | EPA Regional Screening Level, Residential Soil |
| Chlorsulfuron | 64902-72-3 | 3.1E+03 | EPA Regional Screening Level, Residential Soil |
| Chlorthiophos | 60238-56-4 | 4.9E+01 | EPA Regional Screening Level, Residential Soil |
| Chromium (III) (Insoluble Salts) | 16065-83-1 | 1.2E+05 | EPA Regional Screening Level, Residential Soil |
| Chromium VI (particulates) | 18540-29-9 | 3.8E+01 | Soil Screening Level, DAF 20 |
| Chromium, Total (1:6 ratio Cr VI : Cr III) | 7440-47-3 | 3.8E+01 | Soil Screening Level, DAF 20 |
| Cobalt | 7440-48-4 | 2.3E+01 | EPA Regional Screening Level, Residential Soil |
| Coke Oven Emissions | 8007-45-2 | | EPA Regional Screening Level, Residential Soil |
| Copper | 7440-50-8 | 3.1E+03 | EPA Regional Screening Level, Residential Soil |
| Cresol, m- | 108-39-4 | 3.1E+03 | EPA Regional Screening Level, Residential Soil |
| Cresol, o- | 95-48-7 | 3.1E+03 | EPA Regional Screening Level, Residential Soil |
| Cresol, p- | 106-44-5 | 3.1E+02 | EPA Regional Screening Level, Residential Soil |
| Crotonaldehyde, trans- | 123-73-9 | 3.4E-01 | EPA Regional Screening Level, Residential Soil |
| Cumene | 98-82-8 | 2.2E+03 | EPA Regional Screening Level, Residential Soil |
| Cyanazine | 21725-46-2 | 5.8E-01 | EPA Regional Screening Level, Residential Soil |
| Cyclohexane | 110-82-7 | 7.2E+03 | EPA Regional Screening Level, Residential Soil |
| Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro- | 87-84-3 | 2.1E+01 | EPA Regional Screening Level, Residential Soil |
| Cyclohexanone | 108-94-1 | 3.1E+05 | EPA Regional Screening Level, Residential Soil |
| Cyclohexylamine | 108-91-8 | 1.2E+04 | EPA Regional Screening Level, Residential Soil |
| Cyhalothrin/karate | 68085-85-8 | 3.1E+02 | EPA Regional Screening Level, Residential Soil |
| Cypermethrin | 52315-07-8 | 6.1E+02 | EPA Regional Screening Level, Residential Soil |
| Cyromazine | 66215-27-8 | 4.6E+02 | EPA Regional Screening Level, Residential Soil |
| Cyanides | | | |
| Calcium Cyanide | 592-01-8 | 3.1E+03 | EPA Regional Screening Level, Residential Soil |
| Copper Cyanide | 544-92-3 | 3.9E+02 | EPA Regional Screening Level, Residential Soil |
| Cyanide (CN-) | 57-12-5 | 1.6E+03 | EPA Regional Screening Level, Residential Soil |
| Cyanogen | 460-19-5 | 3.1E+03 | EPA Regional Screening Level, Residential Soil |
| Cyanogen Bromide | 506-68-3 | 7.0E+03 | EPA Regional Screening Level, Residential Soil |
| Cyanogen Chloride | 506-77-4 | 3.9E+03 | EPA Regional Screening Level, Residential Soil |
| Hydrogen Cyanide | 74-90-8 | 1.6E+03 | EPA Regional Screening Level, Residential Soil |
| Potassium Cyanide | 151-50-8 | 3.9E+03 | EPA Regional Screening Level, Residential Soil |
| Potassium Silver Cyanide | 506-61-6 | 1.6E+04 | EPA Regional Screening Level, Residential Soil |
| Silver Cyanide | 506-64-9 | 7.8E+03 | EPA Regional Screening Level, Residential Soil |
| Sodium Cyanide | 143-33-9 | 3.1E+03 | EPA Regional Screening Level, Residential Soil |
| Thiocyanate | 463-56-9 | 1.6E+01 | EPA Regional Screening Level, Residential Soil |
| Zinc Cyanide | 557-21-1 | 3.9E+03 | EPA Regional Screening Level, Residential Soil |
| Dacthal | 1861-32-1 | 6.1E+02 | EPA Regional Screening Level, Residential Soil |
| Dalapon | 75-99-0 | 1.8E+03 | EPA Regional Screening Level, Residential Soil |
| DDD | 72-54-8 | 2.0E+00 | EPA Regional Screening Level, Residential Soil |
| DDE, p,p'- | 72-55-9 | 1.4E+00 | EPA Regional Screening Level, Residential Soil |
| DDT | 50-29-3 | 1.7E+00 | EPA Regional Screening Level, Residential Soil |
| Decabromodiphenyl ether, 2,2',3,3',4,4',5,5',6,6'- (BDE-209) | 1163-19-5 | 4.3E+02 | EPA Regional Screening Level, Residential Soil |
| Demeton | 8065-48-3 | 2.4E+00 | EPA Regional Screening Level, Residential Soil |
| Di(2-ethylhexyl)adipate | 103-23-1 | 4.0E+02 | EPA Regional Screening Level, Residential Soil |
| Diallate | 2303-16-4 | 8.0E+00 | EPA Regional Screening Level, Residential Soil |
| Diazinon | 333-41-5 | 5.5E+01 | EPA Regional Screening Level, Residential Soil |
| Dibromo-3-chloropropane, 1,2- | 96-12-8 | 5.6E-03 | EPA Regional Screening Level, Residential Soil |
| Dibromobenzene, 1,4- | 106-37-6 | 6.1E+02 | EPA Regional Screening Level, Residential Soil |
| Dibromochloromethane | 124-48-1 | 4.0E-01 | Soil Screening Level, DAF 20 |
| Dibromoethane, 1,2- (EDB) | 106-93-4 | 3.4E-02 | EPA Regional Screening Level, Residential Soil |
| Dibromomethane (Methylene Bromide) | 74-95-3 | 7.8E+02 | EPA Regional Screening Level, Residential Soil |

NDEP Draft Guidelines for Discovery Events (Soil RCs)

Appendix A2--Full list of Reportable Concentrations in soil

Version: 01/28/2009

| Analyte | CAS No. | Reportable Concentration (mg/kg) | Source |
|--|------------|----------------------------------|--|
| Dibutyl Phthalate | 84-74-2 | 2.3E+03 | Soil Screening Level, DAF 20 |
| Dibutyltin Compounds | NA | 1.8E+01 | EPA Regional Screening Level, Residential Soil |
| Dicamba | 1918-00-9 | 1.8E+03 | EPA Regional Screening Level, Residential Soil |
| Dichloro-2-butene, 1,4- | 764-41-0 | 3.2E-03 | EPA Regional Screening Level, Residential Soil |
| Dichloroacetic Acid | 79-43-6 | 9.7E+00 | EPA Regional Screening Level, Residential Soil |
| Dichlorobenzene, 1,2- | 95-50-1 | 1.7E+01 | Soil Screening Level, DAF 20 |
| Dichlorobenzene, 1,4- | 106-46-7 | 2.0E+00 | Soil Screening Level, DAF 20 |
| Dichlorobenzidine, 3,3'- | 91-94-1 | 7.0E-03 | Soil Screening Level, DAF 20 |
| Dichlorodifluoromethane | 75-71-8 | 1.9E+02 | EPA Regional Screening Level, Residential Soil |
| Dichloroethane, 1,1- | 75-34-3 | 3.4E+00 | EPA Regional Screening Level, Residential Soil |
| Dichloroethane, 1,2- (EDC) | 107-06-2 | 2.0E-02 | Soil Screening Level, DAF 20 |
| Dichloroethylene, 1,1- | 75-35-4 | 6.0E-02 | Soil Screening Level, DAF 20 |
| Dichloroethylene, 1,2- (Mixed Isomers) | 540-59-0 | 7.0E+02 | EPA Regional Screening Level, Residential Soil |
| Dichloroethylene, 1,2-cis- | 156-59-2 | 4.0E-01 | Soil Screening Level, DAF 20 |
| Dichloroethylene, 1,2-trans- | 156-60-5 | 7.0E-01 | Soil Screening Level, DAF 20 |
| Dichlorophenol, 2,4- | 120-83-2 | 1.0E+00 | Soil Screening Level, DAF 20 |
| Dichlorophenoxy Acetic Acid, 2,4- | 94-75-7 | 6.9E+02 | EPA Regional Screening Level, Residential Soil |
| Dichlorophenoxy)butyric Acid, 4-(2,4- | 94-82-6 | 4.9E+02 | EPA Regional Screening Level, Residential Soil |
| Dichloropropane, 1,2- | 78-87-5 | 3.0E-02 | Soil Screening Level, DAF 20 |
| Dichloropropane, 1,3- | 142-28-9 | 1.6E+03 | EPA Regional Screening Level, Residential Soil |
| Dichloropropanol, 2,3- | 616-23-9 | 1.8E+02 | EPA Regional Screening Level, Residential Soil |
| Dichloropropene, 1,3- | 542-75-6 | 4.0E-03 | Soil Screening Level, DAF 20 |
| Dichlorvos | 62-73-7 | 1.7E+00 | EPA Regional Screening Level, Residential Soil |
| Dicyclopentadiene | 77-73-6 | 2.9E+01 | EPA Regional Screening Level, Residential Soil |
| Dieldrin | 60-57-1 | 4.0E-03 | Soil Screening Level, DAF 20 |
| Diethyl Phthalate | 84-66-2 | 4.9E+04 | EPA Regional Screening Level, Residential Soil |
| Diethylene Glycol Monobutyl Ether | 112-34-5 | 6.1E+02 | EPA Regional Screening Level, Residential Soil |
| Diethylene Glycol Monoethyl Ether | 111-90-0 | 3.7E+03 | EPA Regional Screening Level, Residential Soil |
| Diethylformamide | 617-84-5 | 6.1E+01 | EPA Regional Screening Level, Residential Soil |
| Diethylstilbestrol | 56-53-1 | 1.4E-03 | EPA Regional Screening Level, Residential Soil |
| Difenzoquat | 43222-48-6 | 4.9E+03 | EPA Regional Screening Level, Residential Soil |
| Diflubenzuron | 35367-38-5 | 1.2E+03 | EPA Regional Screening Level, Residential Soil |
| Difluoroethane, 1,1- | 75-37-6 | 5.3E+04 | EPA Regional Screening Level, Residential Soil |
| Diisopropyl Ether (DIPE) | 108-20-3 | 1.2E+03 | EPA Regional Screening Level, Residential Soil |
| Diisopropyl Methylphosphonate | 1445-75-6 | 6.3E+03 | EPA Regional Screening Level, Residential Soil |
| Dimethipin | 55290-64-7 | 1.2E+03 | EPA Regional Screening Level, Residential Soil |
| Dimethoate | 60-51-5 | 1.2E+01 | EPA Regional Screening Level, Residential Soil |
| Dimethoxybenzidine, 3,3'- | 119-90-4 | 3.5E+01 | EPA Regional Screening Level, Residential Soil |
| Dimethyl methylphosphonate | 756-79-6 | 2.9E+02 | EPA Regional Screening Level, Residential Soil |
| Dimethylaniline HCl, 2,4- | 21436-96-4 | 8.4E-01 | EPA Regional Screening Level, Residential Soil |
| Dimethylaniline, 2,4- | 95-68-1 | 6.5E-01 | EPA Regional Screening Level, Residential Soil |
| Dimethylaniline, N,N- | 121-69-7 | 1.6E+02 | EPA Regional Screening Level, Residential Soil |
| Dimethylbenzidine, 3,3'- | 119-93-7 | 4.4E-02 | EPA Regional Screening Level, Residential Soil |
| Dimethylformamide | 68-12-2 | 6.1E+03 | EPA Regional Screening Level, Residential Soil |
| Dimethylphenol, 2,4- | 105-67-9 | 9.0E+00 | Soil Screening Level, DAF 20 |
| Dimethylphenol, 2,6- | 576-26-1 | 3.7E+01 | EPA Regional Screening Level, Residential Soil |
| Dimethylphenol, 3,4- | 95-65-8 | 6.1E+01 | EPA Regional Screening Level, Residential Soil |
| Dimethylterephthalate | 120-61-6 | 7.8E+03 | EPA Regional Screening Level, Residential Soil |
| Dinitro-o-cresol, 4,6- | 534-52-1 | 6.1E+00 | EPA Regional Screening Level, Residential Soil |
| Dinitro-o-cyclohexyl Phenol, 4,6- | 131-89-5 | 1.2E+02 | EPA Regional Screening Level, Residential Soil |
| Dinitrobenzene, 1,2- | 528-29-0 | 6.1E+00 | EPA Regional Screening Level, Residential Soil |
| Dinitrobenzene, 1,3- | 99-65-0 | 6.1E+00 | EPA Regional Screening Level, Residential Soil |
| Dinitrobenzene, 1,4- | 100-25-4 | 6.1E+00 | EPA Regional Screening Level, Residential Soil |
| Dinitrophenol, 2,4- | 51-28-5 | 3.0E-01 | Soil Screening Level, DAF 20 |
| Dinitrotoluene Mixture, 2,4/2,6- | 25321-14-6 | 8.0E-04 | Soil Screening Level, DAF 20 |
| Dinitrotoluene, 2,4- | 121-14-2 | 8.0E-04 | Soil Screening Level, DAF 20 |
| Dinitrotoluene, 2,6- | 606-20-2 | 7.0E-04 | Soil Screening Level, DAF 20 |
| Dinitrotoluene, 2-Amino-4,6- | 35572-78-2 | 1.5E+02 | EPA Regional Screening Level, Residential Soil |
| Dinitrotoluene, 4-Amino-2,6- | 19406-51-0 | 1.5E+02 | EPA Regional Screening Level, Residential Soil |
| Dinoseb | 88-85-7 | 6.1E+01 | EPA Regional Screening Level, Residential Soil |

NDEP Draft Guidelines for Discovery Events (Soil RCs)

Appendix A2--Full list of Reportable Concentrations in soil

Version: 01/28/2009

| Analyte | CAS No. | Reportable Concentration (mg/kg) | Source |
|-------------------------------------|-------------|----------------------------------|--|
| Dioxane, 1,4- | 123-91-1 | 4.4E+01 | EPA Regional Screening Level, Residential Soil |
| Diphenamid | 957-51-7 | 1.8E+03 | EPA Regional Screening Level, Residential Soil |
| Diphenyl Sulfone | 127-63-9 | 1.8E+02 | EPA Regional Screening Level, Residential Soil |
| Diphenylamine | 122-39-4 | 1.5E+03 | EPA Regional Screening Level, Residential Soil |
| Diphenylhydrazine, 1,2- | 122-66-7 | 6.1E-01 | EPA Regional Screening Level, Residential Soil |
| Diquat | 85-00-7 | 1.3E+02 | EPA Regional Screening Level, Residential Soil |
| Direct Black 38 | 1937-37-7 | 6.6E-02 | EPA Regional Screening Level, Residential Soil |
| Direct Blue 6 | 2602-46-2 | 6.6E-02 | EPA Regional Screening Level, Residential Soil |
| Direct Brown 95 | 16071-86-6 | 7.2E-02 | EPA Regional Screening Level, Residential Soil |
| Disulfoton | 298-04-4 | 2.4E+00 | EPA Regional Screening Level, Residential Soil |
| Dithiane, 1,4- | 505-29-3 | 6.1E+02 | EPA Regional Screening Level, Residential Soil |
| Diuron | 330-54-1 | 1.2E+02 | EPA Regional Screening Level, Residential Soil |
| Dodine | 2439-10-3 | 2.4E+02 | EPA Regional Screening Level, Residential Soil |
| Dioxins | | | |
| Hexachlorodibenzo-p-dioxin | 34465-46-8 | 4.5E-05 | EPA Regional Screening Level, Residential Soil |
| Hexachlorodibenzo-p-dioxin, Mixture | 19408-74-3 | 9.4E-05 | EPA Regional Screening Level, Residential Soil |
| HpCDD, 2,3,7,8- | 37871-00-4 | 4.5E-04 | EPA Regional Screening Level, Residential Soil |
| OCDD | 3268-87-9 | 1.5E-02 | EPA Regional Screening Level, Residential Soil |
| PeCDD, 2,3,7,8- | 36088-22-9 | 4.5E-06 | EPA Regional Screening Level, Residential Soil |
| TCDD, 2,3,7,8- | 1746-01-6 | 4.5E-06 | EPA Regional Screening Level, Residential Soil |
| Endosulfan | 115-29-7 | 1.8E+01 | Soil Screening Level, DAF 20 |
| Endothall | 145-73-3 | 1.2E+03 | EPA Regional Screening Level, Residential Soil |
| Endrin | 72-20-8 | 1.0E+00 | Soil Screening Level, DAF 20 |
| Epichlorohydrin | 106-89-8 | 1.8E+01 | EPA Regional Screening Level, Residential Soil |
| Epoxybutane, 1,2- | 106-88-7 | 1.5E+02 | EPA Regional Screening Level, Residential Soil |
| EPTC | 759-94-4 | 2.0E+03 | EPA Regional Screening Level, Residential Soil |
| Ethephon | 16672-87-0 | 3.1E+02 | EPA Regional Screening Level, Residential Soil |
| Ethion | 563-12-2 | 3.1E+01 | EPA Regional Screening Level, Residential Soil |
| Ethoxyethanol Acetate, 2- | 111-15-9 | 1.8E+04 | EPA Regional Screening Level, Residential Soil |
| Ethoxyethanol, 2- | 110-80-5 | 2.4E+04 | EPA Regional Screening Level, Residential Soil |
| Ethyl Acetate | 141-78-6 | 7.0E+04 | EPA Regional Screening Level, Residential Soil |
| Ethyl Acrylate | 140-88-5 | 1.3E+01 | EPA Regional Screening Level, Residential Soil |
| Ethyl Chloride | 75-00-3 | 1.5E+04 | EPA Regional Screening Level, Residential Soil |
| Ethyl Ether | 60-29-7 | 1.6E+04 | EPA Regional Screening Level, Residential Soil |
| Ethyl Methacrylate | 97-63-2 | 7.0E+03 | EPA Regional Screening Level, Residential Soil |
| Ethyl-p-nitrophenyl Phosphonate | 2104-64-5 | 6.1E-01 | EPA Regional Screening Level, Residential Soil |
| Ethylbenzene | 100-41-4 | 5.7E+00 | EPA Regional Screening Level, Residential Soil |
| Ethylene Cyanohydrin | 109-78-4 | 1.8E+03 | EPA Regional Screening Level, Residential Soil |
| Ethylene Diamine | 107-15-3 | 5.5E+03 | EPA Regional Screening Level, Residential Soil |
| Ethylene Glycol | 107-21-1 | 1.2E+05 | EPA Regional Screening Level, Residential Soil |
| Ethylene Glycol Monobutyl Ether | 111-76-2 | 3.1E+04 | EPA Regional Screening Level, Residential Soil |
| Ethylene Oxide | 75-21-8 | 1.6E-01 | EPA Regional Screening Level, Residential Soil |
| Ethylene Thiourea | 96-45-7 | 4.9E+00 | EPA Regional Screening Level, Residential Soil |
| Ethylphthalyl Ethyl Glycolate | 84-72-0 | 1.8E+05 | EPA Regional Screening Level, Residential Soil |
| Express | 101200-48-0 | 4.9E+02 | EPA Regional Screening Level, Residential Soil |
| Fenamiphos | 22224-92-6 | 1.5E+01 | EPA Regional Screening Level, Residential Soil |
| Fenpropathrin | 39515-41-8 | 1.5E+03 | EPA Regional Screening Level, Residential Soil |
| Fluometuron | 2164-17-2 | 7.9E+02 | EPA Regional Screening Level, Residential Soil |
| Fluorine (Soluble Fluoride) | 7782-41-4 | 4.7E+03 | EPA Regional Screening Level, Residential Soil |
| Fluridone | 59756-60-4 | 4.9E+03 | EPA Regional Screening Level, Residential Soil |
| Flurprimidol | 56425-91-3 | 1.2E+03 | EPA Regional Screening Level, Residential Soil |
| Flutolanil | 66332-96-5 | 3.7E+03 | EPA Regional Screening Level, Residential Soil |
| Fluvalinate | 69409-94-5 | 6.1E+02 | EPA Regional Screening Level, Residential Soil |
| Folpet | 133-07-3 | 1.4E+02 | EPA Regional Screening Level, Residential Soil |
| Fomesafen | 72178-02-0 | 2.6E+00 | EPA Regional Screening Level, Residential Soil |
| Fonofos | 944-22-9 | 1.2E+02 | EPA Regional Screening Level, Residential Soil |
| Formaldehyde | 50-00-0 | 1.2E+04 | EPA Regional Screening Level, Residential Soil |
| Formic Acid | 64-18-6 | 1.2E+05 | EPA Regional Screening Level, Residential Soil |
| Fosetyl-AL | 39148-24-8 | 1.8E+05 | EPA Regional Screening Level, Residential Soil |
| Furazolidone | 67-45-8 | 1.3E-01 | EPA Regional Screening Level, Residential Soil |

NDEP Draft Guidelines for Discovery Events (Soil RCs)

Appendix A2--Full list of Reportable Concentrations in soil

Version: 01/28/2009

| Analyte | CAS No. | Reportable Concentration (mg/kg) | Source |
|--|------------|----------------------------------|--|
| Furfural | 98-01-1 | 1.8E+02 | EPA Regional Screening Level, Residential Soil |
| Furium | 531-82-8 | 3.2E-01 | EPA Regional Screening Level, Residential Soil |
| Furmecycloz | 60568-05-0 | 1.6E+01 | EPA Regional Screening Level, Residential Soil |
| Furans | | | |
| Furan | 110-00-9 | 7.8E+01 | EPA Regional Screening Level, Residential Soil |
| HpCDF, 2,3,7,8- | 38998-75-3 | 3.7E-04 | EPA Regional Screening Level, Residential Soil |
| HxCDF, 2,3,7,8- | 55684-94-1 | 3.7E-05 | EPA Regional Screening Level, Residential Soil |
| OCDF | 39001-02-0 | 1.2E-02 | EPA Regional Screening Level, Residential Soil |
| PeCDF, 1,2,3,7,8- | 57117-41-6 | 1.2E-04 | EPA Regional Screening Level, Residential Soil |
| PeCDF, 2,3,4,7,8- | 57117-31-4 | 1.2E-05 | EPA Regional Screening Level, Residential Soil |
| TCDF, 2,3,7,8- | 51207-31-9 | 3.7E-05 | EPA Regional Screening Level, Residential Soil |
| Glufosinate, Ammonium | 77182-82-2 | 2.4E+01 | EPA Regional Screening Level, Residential Soil |
| Glycidyl | 765-34-4 | 2.4E+01 | EPA Regional Screening Level, Residential Soil |
| Glyphosate | 1071-83-6 | 6.1E+03 | EPA Regional Screening Level, Residential Soil |
| Goal | 42874-03-3 | 1.8E+02 | EPA Regional Screening Level, Residential Soil |
| Haloxypop, Methyl | 69806-40-2 | 3.1E+00 | EPA Regional Screening Level, Residential Soil |
| Harmony | 79277-27-3 | 7.9E+02 | EPA Regional Screening Level, Residential Soil |
| Heptachlor | 76-44-8 | 1.1E-01 | EPA Regional Screening Level, Residential Soil |
| Heptachlor Epoxide | 1024-57-3 | 5.3E-02 | EPA Regional Screening Level, Residential Soil |
| Hexabromobenzene | 87-82-1 | 1.2E+02 | EPA Regional Screening Level, Residential Soil |
| Hexachlorobenzene | 118-74-1 | 3.0E-01 | EPA Regional Screening Level, Residential Soil |
| Hexachlorobutadiene | 87-68-3 | 2.0E+00 | Soil Screening Level, DAF 20 |
| Hexachlorocyclohexane, Alpha- | 319-84-6 | 5.0E-04 | Soil Screening Level, DAF 20 |
| Hexachlorocyclohexane, Beta- | 319-85-7 | 3.0E-03 | Soil Screening Level, DAF 20 |
| Hexachlorocyclohexane, Gamma- (Lindane) | 58-89-9 | 9.0E-03 | Soil Screening Level, DAF 20 |
| Hexachlorocyclohexane, Technical | 608-73-1 | 3.0E-03 | Soil Screening Level, DAF 20 |
| Hexachlorocyclopentadiene | 77-47-4 | 3.7E+02 | EPA Regional Screening Level, Residential Soil |
| Hexachloroethane | 67-72-1 | 5.0E-01 | Soil Screening Level, DAF 20 |
| Hexachlorophene | 70-30-4 | 1.8E+01 | EPA Regional Screening Level, Residential Soil |
| Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) | 121-82-4 | 5.5E+00 | EPA Regional Screening Level, Residential Soil |
| Hexamethylene Diisocyanate, 1,6- | 822-06-0 | 3.7E+00 | EPA Regional Screening Level, Residential Soil |
| Hexane, N- | 110-54-3 | 5.7E+02 | EPA Regional Screening Level, Residential Soil |
| Hexanedioic Acid | 124-04-9 | 1.2E+05 | EPA Regional Screening Level, Residential Soil |
| Hexazinone | 51235-04-2 | 2.0E+03 | EPA Regional Screening Level, Residential Soil |
| Hydrazine | 302-01-2 | 2.1E-01 | EPA Regional Screening Level, Residential Soil |
| Hydrazine Sulfate | 10034-93-2 | 2.1E-01 | EPA Regional Screening Level, Residential Soil |
| Hydrogen Chloride | 7647-01-0 | 2.8E+07 | EPA Regional Screening Level, Residential Soil |
| Hydrogen Sulfide | 7783-06-4 | 2.8E+06 | EPA Regional Screening Level, Residential Soil |
| Hydroquinone | 123-31-9 | 8.7E+00 | EPA Regional Screening Level, Residential Soil |
| Hexabromodiphenyl ether, 2,2',4,4',5,5'- (BDE-153) | 68631-49-2 | 1.6E+01 | EPA Regional Screening Level, Residential Soil |
| Imazalil | 35554-44-0 | 7.9E+02 | EPA Regional Screening Level, Residential Soil |
| Imazaquin | 81335-37-7 | 1.5E+04 | EPA Regional Screening Level, Residential Soil |
| Iprodione | 36734-19-7 | 2.4E+03 | EPA Regional Screening Level, Residential Soil |
| Iron | 7439-89-6 | 5.5E+04 | EPA Regional Screening Level, Residential Soil |
| Isobutyl Alcohol | 78-83-1 | 2.3E+04 | EPA Regional Screening Level, Residential Soil |
| Isophorone | 78-59-1 | 5.0E-01 | Soil Screening Level, DAF 20 |
| Isopropalin | 33820-53-0 | 9.2E+02 | EPA Regional Screening Level, Residential Soil |
| Isopropyl Methyl Phosphonic Acid | 1832-54-8 | 6.1E+03 | EPA Regional Screening Level, Residential Soil |
| Isoxaben | 82558-50-7 | 3.1E+03 | EPA Regional Screening Level, Residential Soil |
| Kerb | 23950-58-5 | 4.6E+03 | EPA Regional Screening Level, Residential Soil |
| Lactofen | 77501-63-4 | 1.2E+02 | EPA Regional Screening Level, Residential Soil |
| Linuron | 330-55-2 | 1.2E+02 | EPA Regional Screening Level, Residential Soil |
| Lithium | 7439-93-2 | 1.6E+02 | EPA Regional Screening Level, Residential Soil |
| Lithium Perchlorate | 7791-03-9 | 5.5E+01 | EPA Regional Screening Level, Residential Soil |
| Londax | 83055-99-6 | 1.2E+04 | EPA Regional Screening Level, Residential Soil |
| Lead Compounds | | | |
| Lead and Compounds | 7439-92-1 | 4.0E+02 | EPA Regional Screening Level, Residential Soil |
| Tetraethyl Lead | 78-00-2 | 6.1E-03 | EPA Regional Screening Level, Residential Soil |
| Malathion | 121-75-5 | 1.2E+03 | EPA Regional Screening Level, Residential Soil |
| Maleic Anhydride | 108-31-6 | 6.1E+03 | EPA Regional Screening Level, Residential Soil |

NDEP Draft Guidelines for Discovery Events (Soil RCs)

Appendix A2--Full list of Reportable Concentrations in soil

Version: 01/28/2009

| Analyte | CAS No. | Reportable Concentration (mg/kg) | Source |
|---|------------|----------------------------------|--|
| Maleic Hydrazide | 123-33-1 | 3.1E+04 | EPA Regional Screening Level, Residential Soil |
| Malononitrile | 109-77-3 | 6.1E+00 | EPA Regional Screening Level, Residential Soil |
| Mancozeb | 8018-01-7 | 1.8E+03 | EPA Regional Screening Level, Residential Soil |
| Maneb | 12427-38-2 | 3.1E+02 | EPA Regional Screening Level, Residential Soil |
| Manganese (Water) | 7439-96-5 | 1.8E+03 | EPA Regional Screening Level, Residential Soil |
| MCPA | 94-74-6 | 3.1E+01 | EPA Regional Screening Level, Residential Soil |
| MCPB | 94-81-5 | 6.1E+02 | EPA Regional Screening Level, Residential Soil |
| MCPP | 93-65-2 | 6.1E+01 | EPA Regional Screening Level, Residential Soil |
| Mephosfolan | 950-10-7 | 5.5E+00 | EPA Regional Screening Level, Residential Soil |
| Mepiquat Chloride | 24307-26-4 | 1.8E+03 | EPA Regional Screening Level, Residential Soil |
| Merphos | 150-50-5 | 1.8E+00 | EPA Regional Screening Level, Residential Soil |
| Merphos Oxide | 78-48-8 | 1.8E+00 | EPA Regional Screening Level, Residential Soil |
| Metalaxyl | 57837-19-1 | 3.7E+03 | EPA Regional Screening Level, Residential Soil |
| Methacrylonitrile | 126-98-7 | 3.2E+00 | EPA Regional Screening Level, Residential Soil |
| Methamidophos | 10265-92-6 | 3.1E+00 | EPA Regional Screening Level, Residential Soil |
| Methanol | 67-56-1 | 3.1E+04 | EPA Regional Screening Level, Residential Soil |
| Methidathion | 950-37-8 | 6.1E+01 | EPA Regional Screening Level, Residential Soil |
| Methomyl | 16752-77-5 | 1.5E+03 | EPA Regional Screening Level, Residential Soil |
| Methoxy-5-nitroaniline, 2- | 99-59-2 | 9.9E+00 | EPA Regional Screening Level, Residential Soil |
| Methoxychlor | 72-43-5 | 1.6E+02 | Soil Screening Level, DAF 20 |
| Methoxyethanol Acetate, 2- | 110-49-6 | 1.2E+02 | EPA Regional Screening Level, Residential Soil |
| Methoxyethanol, 2- | 109-86-4 | 1.8E+02 | EPA Regional Screening Level, Residential Soil |
| Methyl Acetate | 79-20-9 | 7.8E+04 | EPA Regional Screening Level, Residential Soil |
| Methyl Acrylate | 96-33-3 | 2.3E+03 | EPA Regional Screening Level, Residential Soil |
| Methyl Ethyl Ketone (2-Butanone) | 78-93-3 | 2.8E+04 | EPA Regional Screening Level, Residential Soil |
| Methyl Isobutyl Ketone (4-methyl-2-pentanone) | 108-10-1 | 5.3E+03 | EPA Regional Screening Level, Residential Soil |
| Methyl Methacrylate | 80-62-6 | 4.7E+03 | EPA Regional Screening Level, Residential Soil |
| Methyl Parathion | 298-00-0 | 1.5E+01 | EPA Regional Screening Level, Residential Soil |
| Methyl Styrene (Mixed Isomers) | 25013-15-4 | 1.9E+02 | EPA Regional Screening Level, Residential Soil |
| Methyl tert-Butyl Ether (MTBE) | 1634-04-4 | 3.9E+01 | NDEP calculated SSL, DAF 20 |
| Methyl-5-Nitroaniline, 2- | 99-55-8 | 1.5E+01 | EPA Regional Screening Level, Residential Soil |
| Methylaniline Hydrochloride, 2- | 636-21-5 | 3.7E+00 | EPA Regional Screening Level, Residential Soil |
| Methylarsonic acid | 124-58-3 | 6.1E+02 | EPA Regional Screening Level, Residential Soil |
| Methylene Chloride | 75-09-2 | 2.0E-02 | Soil Screening Level, DAF 20 |
| Methylene-bis(2-chloroaniline), 4,4' | 101-14-4 | 1.2E+00 | EPA Regional Screening Level, Residential Soil |
| Methylene-bis(N,N-dimethyl) Aniline, 4,4' | 101-61-1 | 1.1E+01 | EPA Regional Screening Level, Residential Soil |
| Methylenebisbenzenamine, 4,4' | 101-77-9 | 3.0E-01 | EPA Regional Screening Level, Residential Soil |
| Methylenediphenyl Diisocyanate | 101-68-8 | 8.5E+05 | EPA Regional Screening Level, Residential Soil |
| Methylstyrene, Alpha- | 98-83-9 | 5.5E+03 | EPA Regional Screening Level, Residential Soil |
| Metolachlor | 51218-45-2 | 9.2E+03 | EPA Regional Screening Level, Residential Soil |
| Metribuzin | 21087-64-9 | 1.5E+03 | EPA Regional Screening Level, Residential Soil |
| Mirex | 2385-85-5 | 2.7E-02 | EPA Regional Screening Level, Residential Soil |
| Molinate | 2212-67-1 | 1.2E+02 | EPA Regional Screening Level, Residential Soil |
| Molybdenum | 7439-98-7 | 3.9E+02 | EPA Regional Screening Level, Residential Soil |
| Monochloramine | 10599-90-3 | 7.8E+03 | EPA Regional Screening Level, Residential Soil |
| Monomethylaniline | 100-61-8 | 1.2E+02 | EPA Regional Screening Level, Residential Soil |
| Mercury Compounds | | | |
| Mercuric Chloride | 7487-94-7 | 2.3E+01 | EPA Regional Screening Level, Residential Soil |
| Mercuric Sulfide | 1344-48-5 | 2.3E+01 | EPA Regional Screening Level, Residential Soil |
| Mercury (elemental) | 7439-97-6 | 6.7E+00 | EPA Regional Screening Level, Residential Soil |
| Mercury, Inorganic Salts | NA | 2.3E+01 | EPA Regional Screening Level, Residential Soil |
| Methyl Mercury | 22967-92-6 | 7.8E+00 | EPA Regional Screening Level, Residential Soil |
| Phenylmercuric Acetate | 62-38-4 | 4.9E+00 | EPA Regional Screening Level, Residential Soil |
| N,N'-Diphenyl-1,4-benzenediamine | 74-31-7 | 1.8E+01 | EPA Regional Screening Level, Residential Soil |
| Naled | 300-76-5 | 1.2E+02 | EPA Regional Screening Level, Residential Soil |
| Napropamide | 15299-99-7 | 6.1E+03 | EPA Regional Screening Level, Residential Soil |
| Nickel Refinery Dust | NA | 1.4E+04 | EPA Regional Screening Level, Residential Soil |
| Nickel Soluble Salts | 7440-02-0 | 1.3E+02 | Soil Screening Level, DAF 20 |
| Nickel Subulfide | 12035-72-2 | 6.9E+03 | EPA Regional Screening Level, Residential Soil |
| Nitrate | 14797-55-8 | 1.3E+05 | EPA Regional Screening Level, Residential Soil |

NDEP Draft Guidelines for Discovery Events (Soil RCs)

Appendix A2--Full list of Reportable Concentrations in soil

Version: 01/28/2009

| Analyte | CAS No. | Reportable Concentration (mg/kg) | Source |
|--|------------|----------------------------------|--|
| Nitrite | 14797-65-0 | 7.8E+03 | EPA Regional Screening Level, Residential Soil |
| Nitroaniline, 3- | 99-09-2 | 1.8E+01 | EPA Regional Screening Level, Residential Soil |
| Nitroaniline, 4- | 100-01-6 | 2.3E+01 | EPA Regional Screening Level, Residential Soil |
| Nitrobenzene | 98-95-3 | 1.0E-01 | Soil Screening Level, DAF 20 |
| Nitrofurantoin | 67-20-9 | 4.3E+03 | EPA Regional Screening Level, Residential Soil |
| Nitrofurazone | 59-87-0 | 3.7E-01 | EPA Regional Screening Level, Residential Soil |
| Nitroglycerin | 55-63-0 | 6.1E+00 | EPA Regional Screening Level, Residential Soil |
| Nitroguanidine | 556-88-7 | 6.1E+03 | EPA Regional Screening Level, Residential Soil |
| Nitromethane | 75-52-5 | 4.7E+00 | EPA Regional Screening Level, Residential Soil |
| Nitropropane, 2- | 79-46-9 | 1.2E-02 | EPA Regional Screening Level, Residential Soil |
| Nitroso-di-N-butylamine, N- | 924-16-3 | 9.3E-02 | EPA Regional Screening Level, Residential Soil |
| Nitroso-di-N-propylamine, N- | 621-64-7 | 5.0E-05 | Soil Screening Level, DAF 20 |
| Nitroso-N-ethylurea, N- | 759-73-9 | 4.3E-03 | EPA Regional Screening Level, Residential Soil |
| Nitrosodiethanolamine, N- | 1116-54-7 | 1.7E-01 | EPA Regional Screening Level, Residential Soil |
| Nitrosodiethylamine, N- | 55-18-5 | 7.7E-04 | EPA Regional Screening Level, Residential Soil |
| Nitrosodimethylamine, N- | 62-75-9 | 2.3E-03 | EPA Regional Screening Level, Residential Soil |
| Nitrosodiphenylamine, N- | 86-30-6 | 1.0E+00 | Soil Screening Level, DAF 20 |
| Nitrosomethylethylamine, N- | 10595-95-6 | 2.2E-02 | EPA Regional Screening Level, Residential Soil |
| Nitrosopyrrolidine, N- | 930-55-2 | 2.3E-01 | EPA Regional Screening Level, Residential Soil |
| Nitrotoluene, m- | 99-08-1 | 1.2E+03 | EPA Regional Screening Level, Residential Soil |
| Nitrotoluene, o- | 88-72-2 | 2.9E+00 | EPA Regional Screening Level, Residential Soil |
| Nitrotoluene, p- | 99-99-0 | 3.0E+01 | EPA Regional Screening Level, Residential Soil |
| Norflurazon | 27314-13-2 | 2.4E+03 | EPA Regional Screening Level, Residential Soil |
| Nustar | 85509-19-9 | 4.3E+01 | EPA Regional Screening Level, Residential Soil |
| Octabromodiphenyl Ether | 32536-52-0 | 1.8E+02 | EPA Regional Screening Level, Residential Soil |
| Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetra (HMX) | 2691-41-0 | 3.8E+03 | EPA Regional Screening Level, Residential Soil |
| Octamethylpyrophosphoramide | 152-16-9 | 1.2E+02 | EPA Regional Screening Level, Residential Soil |
| Oryzalin | 19044-88-3 | 3.1E+03 | EPA Regional Screening Level, Residential Soil |
| Oxadiazon | 19666-30-9 | 3.1E+02 | EPA Regional Screening Level, Residential Soil |
| Oxamyl | 23135-22-0 | 1.5E+03 | EPA Regional Screening Level, Residential Soil |
| Paclobutrazol | 76738-62-0 | 7.9E+02 | EPA Regional Screening Level, Residential Soil |
| Paraquat Dichloride | 1910-42-5 | 2.7E+02 | EPA Regional Screening Level, Residential Soil |
| Parathion | 56-38-2 | 3.7E+02 | EPA Regional Screening Level, Residential Soil |
| Pebulate | 1114-71-2 | 3.1E+03 | EPA Regional Screening Level, Residential Soil |
| Pendimethalin | 40487-42-1 | 2.4E+03 | EPA Regional Screening Level, Residential Soil |
| Pentabromodiphenyl Ether | 32534-81-9 | 1.2E+02 | EPA Regional Screening Level, Residential Soil |
| Pentabromodiphenyl ether, 2,2',4,4',5'- (BDE-99) | 60348-60-9 | 7.8E+00 | EPA Regional Screening Level, Residential Soil |
| Pentachlorobenzene | 608-93-5 | 4.9E+01 | EPA Regional Screening Level, Residential Soil |
| Pentachloroethane | 76-01-7 | 5.4E+00 | EPA Regional Screening Level, Residential Soil |
| Pentachloronitrobenzene | 82-68-8 | 1.9E+00 | EPA Regional Screening Level, Residential Soil |
| Pentachlorophenol | 87-86-5 | 3.0E-02 | Soil Screening Level, DAF 20 |
| Perchlorate and Perchlorate Salts | 14797-73-0 | 5.5E+01 | EPA Regional Screening Level, Residential Soil |
| Permethrin | 52645-53-1 | 3.1E+03 | EPA Regional Screening Level, Residential Soil |
| Phenmedipham | 13684-63-4 | 1.5E+04 | EPA Regional Screening Level, Residential Soil |
| Phenol | 108-95-2 | 1.0E+02 | Soil Screening Level, DAF 20 |
| Phenylenediamine, m- | 108-45-2 | 3.7E+02 | EPA Regional Screening Level, Residential Soil |
| Phenylenediamine, o- | 95-54-5 | 1.0E+01 | EPA Regional Screening Level, Residential Soil |
| Phenylenediamine, p- | 106-50-3 | 1.2E+04 | EPA Regional Screening Level, Residential Soil |
| Phenylphenol, 2- | 90-43-7 | 2.5E+02 | EPA Regional Screening Level, Residential Soil |
| Phorate | 298-02-2 | 1.2E+01 | EPA Regional Screening Level, Residential Soil |
| Phosgene | 75-44-5 | 4.0E-01 | EPA Regional Screening Level, Residential Soil |
| Phosmet | 732-11-6 | 1.2E+03 | EPA Regional Screening Level, Residential Soil |
| Phosphine | 7803-51-2 | 2.3E+01 | EPA Regional Screening Level, Residential Soil |
| Phosphoric Acid | 7664-38-2 | 1.4E+07 | EPA Regional Screening Level, Residential Soil |
| Phosphorus, White | 7723-14-0 | 1.6E+00 | EPA Regional Screening Level, Residential Soil |
| Phthalic Acid, P- | 100-21-0 | 6.1E+04 | EPA Regional Screening Level, Residential Soil |
| Phthalic Anhydride | 85-44-9 | 1.2E+05 | EPA Regional Screening Level, Residential Soil |
| Picloram | 1918-02-1 | 4.3E+03 | EPA Regional Screening Level, Residential Soil |
| Picramic Acid (2-Amino-4,6-dinitrophenol) | 96-91-3 | 1.2E+02 | EPA Regional Screening Level, Residential Soil |
| Pirimiphos, Methyl | 29232-93-7 | 6.1E+02 | EPA Regional Screening Level, Residential Soil |

NDEP Draft Guidelines for Discovery Events (Soil RCs)

Appendix A2--Full list of Reportable Concentrations in soil

Version: 01/28/2009

| Analyte | CAS No. | Reportable Concentration (mg/kg) | Source |
|--|------------|----------------------------------|--|
| Polybrominated Biphenyls | 59536-65-1 | 1.6E-02 | EPA Regional Screening Level, Residential Soil |
| Polymeric Methylene Diphenyl Diisocyanate (PMDI) | 9016-87-9 | 8.5E+05 | EPA Regional Screening Level, Residential Soil |
| Potassium Perchlorate | 7778-74-7 | 5.5E+01 | EPA Regional Screening Level, Residential Soil |
| Prochloraz | 67747-09-5 | 3.2E+00 | EPA Regional Screening Level, Residential Soil |
| Profluralin | 26399-36-0 | 3.7E+02 | EPA Regional Screening Level, Residential Soil |
| Prometon | 1610-18-0 | 9.2E+02 | EPA Regional Screening Level, Residential Soil |
| Prometryn | 2787-19-6 | 2.4E+02 | EPA Regional Screening Level, Residential Soil |
| Propachlor | 1918-16-7 | 7.9E+02 | EPA Regional Screening Level, Residential Soil |
| Propanil | 709-98-8 | 3.1E+02 | EPA Regional Screening Level, Residential Soil |
| Propargite | 2312-35-8 | 1.2E+03 | EPA Regional Screening Level, Residential Soil |
| Propargyl Alcohol | 107-19-7 | 1.2E+02 | EPA Regional Screening Level, Residential Soil |
| Propazine | 139-40-2 | 1.2E+03 | EPA Regional Screening Level, Residential Soil |
| Propham | 122-42-9 | 1.2E+03 | EPA Regional Screening Level, Residential Soil |
| Propiconazole | 60207-90-1 | 7.9E+02 | EPA Regional Screening Level, Residential Soil |
| Propylene Glycol | 57-55-6 | 1.2E+06 | EPA Regional Screening Level, Residential Soil |
| Propylene Glycol Dinitrate | 6423-43-4 | 6.0E+01 | EPA Regional Screening Level, Residential Soil |
| Propylene Glycol Monoethyl Ether | 1569-02-4 | 4.3E+04 | EPA Regional Screening Level, Residential Soil |
| Propylene Glycol Monomethyl Ether | 107-98-2 | 4.3E+04 | EPA Regional Screening Level, Residential Soil |
| Propylene Oxide | 75-56-9 | 1.9E+00 | EPA Regional Screening Level, Residential Soil |
| Pursuit | 81335-77-5 | 1.5E+04 | EPA Regional Screening Level, Residential Soil |
| Pydrin | 51630-58-1 | 1.5E+03 | EPA Regional Screening Level, Residential Soil |
| Pyridine | 110-86-1 | 7.8E+01 | EPA Regional Screening Level, Residential Soil |
| Polychlorinated Biphenyls (PCBs) | | | |
| Aroclor 1016 | 12674-11-2 | 3.9E+00 | EPA Regional Screening Level, Residential Soil |
| Aroclor 1221 | 11104-28-2 | 1.7E-01 | EPA Regional Screening Level, Residential Soil |
| Aroclor 1232 | 11141-16-5 | 1.7E-01 | EPA Regional Screening Level, Residential Soil |
| Aroclor 1242 | 53469-21-9 | 2.2E-01 | EPA Regional Screening Level, Residential Soil |
| Aroclor 1248 | 12672-29-6 | 2.2E-01 | EPA Regional Screening Level, Residential Soil |
| Aroclor 1254 | 11097-69-1 | 2.2E-01 | EPA Regional Screening Level, Residential Soil |
| Aroclor 1260 | 11096-82-5 | 2.2E-01 | EPA Regional Screening Level, Residential Soil |
| Heptachlorobiphenyl, 2,2',3,3',4,4',5- (PCB 170) | 35065-30-6 | 3.4E-02 | EPA Regional Screening Level, Residential Soil |
| Heptachlorobiphenyl, 2,2',3,4,4',5,5'- (PCB 180) | 35065-29-3 | 3.4E-01 | EPA Regional Screening Level, Residential Soil |
| Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189) | 39635-31-9 | 1.1E-01 | EPA Regional Screening Level, Residential Soil |
| Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167) | 52663-72-6 | 1.1E-01 | EPA Regional Screening Level, Residential Soil |
| Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157) | 69782-90-7 | 1.1E-01 | EPA Regional Screening Level, Residential Soil |
| Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156) | 38380-08-4 | 1.1E-01 | EPA Regional Screening Level, Residential Soil |
| Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169) | 32774-16-6 | 1.1E-04 | EPA Regional Screening Level, Residential Soil |
| Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123) | 65510-44-3 | 1.1E-01 | EPA Regional Screening Level, Residential Soil |
| Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118) | 31508-00-6 | 1.1E-01 | EPA Regional Screening Level, Residential Soil |
| Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105) | 32598-14-4 | 1.1E-01 | EPA Regional Screening Level, Residential Soil |
| Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114) | 74472-37-0 | 1.1E-01 | EPA Regional Screening Level, Residential Soil |
| Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126) | 57465-28-8 | 3.4E-05 | EPA Regional Screening Level, Residential Soil |
| Polychlorinated Biphenyls (high risk) | 1336-36-3 | 2.4E-01 | EPA Regional Screening Level, Residential Soil |
| Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77) | 32598-13-3 | 3.4E-02 | EPA Regional Screening Level, Residential Soil |
| Tetrachlorobiphenyl, 3,4,4',5- (PCB 81) | 70362-50-4 | 1.1E-02 | EPA Regional Screening Level, Residential Soil |
| Polynuclear Aromatic Hydrocarbons (PAHs) | | | |
| Acenaphthene | 83-32-9 | 5.7E+02 | Soil Screening Level, DAF 20 |
| Anthracene | 120-12-7 | 1.2E+04 | Soil Screening Level, DAF 20 |
| Benz[a]anthracene | 56-55-3 | 1.5E-01 | EPA Regional Screening Level, Residential Soil |
| Benzo[a]pyrene | 50-32-8 | 1.5E-02 | EPA Regional Screening Level, Residential Soil |
| Benzo[b]fluoranthene | 205-99-2 | 1.5E-01 | EPA Regional Screening Level, Residential Soil |
| Benzo[k]fluoranthene | 207-08-9 | 1.5E+00 | EPA Regional Screening Level, Residential Soil |
| Chrysene | 218-01-9 | 1.5E+01 | EPA Regional Screening Level, Residential Soil |
| Dibenz[a,h]anthracene | 53-70-3 | 1.5E-02 | EPA Regional Screening Level, Residential Soil |
| Fluoranthene | 206-44-0 | 2.3E+03 | EPA Regional Screening Level, Residential Soil |
| Fluorene | 86-73-7 | 5.6E+02 | Soil Screening Level, DAF 20 |
| Indeno[1,2,3-cd]pyrene | 193-39-5 | 1.5E-01 | EPA Regional Screening Level, Residential Soil |
| Methylnaphthalene, 1- | 90-12-0 | 2.2E+01 | EPA Regional Screening Level, Residential Soil |
| Methylnaphthalene, 2- | 91-57-6 | 3.1E+02 | EPA Regional Screening Level, Residential Soil |
| Naphthalene | 91-20-3 | 3.9E+00 | EPA Regional Screening Level, Residential Soil |

NDEP Draft Guidelines for Discovery Events (Soil RCs)

Appendix A2--Full list of Reportable Concentrations in soil

Version: 01/28/2009

| Analyte | CAS No. | Reportable Concentration (mg/kg) | Source |
|---|------------|----------------------------------|--|
| Pyrene | 129-00-0 | 1.7E+03 | EPA Regional Screening Level, Residential Soil |
| Quinalphos | 13593-03-8 | 3.1E+01 | EPA Regional Screening Level, Residential Soil |
| Quinoline | 91-22-5 | 1.6E-01 | EPA Regional Screening Level, Residential Soil |
| Refractory Ceramic Fibers | NA | 4.3E+07 | EPA Regional Screening Level, Residential Soil |
| Resmethrin | 10453-86-8 | 1.8E+03 | EPA Regional Screening Level, Residential Soil |
| Ronnel | 299-84-3 | 3.1E+03 | EPA Regional Screening Level, Residential Soil |
| Rotenone | 83-79-4 | 2.4E+02 | EPA Regional Screening Level, Residential Soil |
| Savey | 78587-05-0 | 1.5E+03 | EPA Regional Screening Level, Residential Soil |
| Selenious Acid | 7783-00-8 | 3.9E+02 | EPA Regional Screening Level, Residential Soil |
| Selenium | 7782-49-2 | 5.0E+00 | Soil Screening Level, DAF 20 |
| Selenourea | 630-10-4 | 3.1E+02 | EPA Regional Screening Level, Residential Soil |
| Sethoxydim | 74051-80-2 | 5.5E+03 | EPA Regional Screening Level, Residential Soil |
| Silver | 7440-22-4 | 3.4E+01 | Soil Screening Level, DAF 20 |
| Simazine | 122-34-9 | 4.0E+00 | EPA Regional Screening Level, Residential Soil |
| Sodium Acifluorfen | 62476-59-9 | 7.9E+02 | EPA Regional Screening Level, Residential Soil |
| Sodium Azide | 26628-22-8 | 3.1E+02 | EPA Regional Screening Level, Residential Soil |
| Sodium Diethyldithiocarbamate | 148-18-5 | 1.8E+00 | EPA Regional Screening Level, Residential Soil |
| Sodium Fluoroacetate | 62-74-8 | 1.2E+00 | EPA Regional Screening Level, Residential Soil |
| Sodium Metavanadate | 13718-26-8 | 7.8E+01 | EPA Regional Screening Level, Residential Soil |
| Sodium Perchlorate | 7601-89-0 | 5.5E+01 | EPA Regional Screening Level, Residential Soil |
| Stirofos (Tetrachlorovinphos) | 961-11-5 | 2.0E+01 | EPA Regional Screening Level, Residential Soil |
| Strontium, Stable | 7440-24-6 | 4.7E+04 | EPA Regional Screening Level, Residential Soil |
| Strychnine | 57-24-9 | 1.8E+01 | EPA Regional Screening Level, Residential Soil |
| Styrene | 100-42-5 | 4.0E+00 | Soil Screening Level, DAF 20 |
| Sulfonylbis(4-chlorobenzene), 1,1'- | 80-07-9 | 3.1E+02 | EPA Regional Screening Level, Residential Soil |
| Systhane | 88671-89-0 | 1.5E+03 | EPA Regional Screening Level, Residential Soil |
| TCMTB | 21564-17-0 | 1.8E+03 | EPA Regional Screening Level, Residential Soil |
| Tebuthiuron | 34014-18-1 | 4.3E+03 | EPA Regional Screening Level, Residential Soil |
| Temephos | 3383-96-8 | 1.2E+03 | EPA Regional Screening Level, Residential Soil |
| Terbacil | 5902-51-2 | 7.9E+02 | EPA Regional Screening Level, Residential Soil |
| Terbufos | 13071-79-9 | 1.5E+00 | EPA Regional Screening Level, Residential Soil |
| Terbutryn | 886-50-0 | 6.1E+01 | EPA Regional Screening Level, Residential Soil |
| Tetrachlorobenzene, 1,2,4,5- | 95-94-3 | 1.8E+01 | EPA Regional Screening Level, Residential Soil |
| Tetrachloroethane, 1,1,1,2- | 630-20-6 | 2.0E+00 | EPA Regional Screening Level, Residential Soil |
| Tetrachloroethane, 1,1,2,2- | 79-34-5 | 3.0E-03 | Soil Screening Level, DAF 20 |
| Tetrachloroethylene (PCE) | 127-18-4 | 6.0E-02 | Soil Screening Level, DAF 20 |
| Tetrachlorophenol, 2,3,4,6- | 58-90-2 | 1.8E+03 | EPA Regional Screening Level, Residential Soil |
| Tetrachlorotoluene, p- alpha, alpha, alpha- | 5216-25-1 | 2.4E-02 | EPA Regional Screening Level, Residential Soil |
| Tetraethyl Dithiopyrophosphate | 3689-24-5 | 3.1E+01 | EPA Regional Screening Level, Residential Soil |
| Tetrafluoroethane, 1,1,1,2- | 811-97-2 | 1.1E+05 | EPA Regional Screening Level, Residential Soil |
| Tetryl (Trinitrophenylmethylnitramine) | 479-45-8 | 2.4E+02 | EPA Regional Screening Level, Residential Soil |
| Thallium (I) Nitrate | 10102-45-1 | 7.0E+00 | EPA Regional Screening Level, Residential Soil |
| Thallium (Soluble Salts) | 7440-28-0 | 5.1E+00 | EPA Regional Screening Level, Residential Soil |
| Thallium Acetate | 563-68-8 | 7.0E+00 | EPA Regional Screening Level, Residential Soil |
| Thallium Carbonate | 6533-73-9 | 6.3E+00 | EPA Regional Screening Level, Residential Soil |
| Thallium Chloride | 7791-12-0 | 6.3E+00 | EPA Regional Screening Level, Residential Soil |
| Thallium Sulfate | 7446-18-6 | 6.3E+00 | EPA Regional Screening Level, Residential Soil |
| Thiobencarb | 28249-77-6 | 6.1E+02 | EPA Regional Screening Level, Residential Soil |
| Thiofanox | 39196-18-4 | 1.8E+01 | EPA Regional Screening Level, Residential Soil |
| Thiophanate, Methyl | 23564-05-8 | 4.9E+03 | EPA Regional Screening Level, Residential Soil |
| Thiram | 137-26-8 | 3.1E+02 | EPA Regional Screening Level, Residential Soil |
| Tin | 7440-31-5 | 4.7E+04 | EPA Regional Screening Level, Residential Soil |
| Toluene | 108-88-3 | 1.2E+01 | Soil Screening Level, DAF 20 |
| Toluene diisocyanate mixture (TDI) | 26471-62-5 | 5.4E+01 | EPA Regional Screening Level, Residential Soil |
| Toluene-2,4-diamine | 95-80-7 | 1.3E-01 | EPA Regional Screening Level, Residential Soil |
| Toluene-2,5-diamine | 95-70-5 | 3.7E+04 | EPA Regional Screening Level, Residential Soil |
| Toluene-2,6-diamine | 823-40-5 | 1.8E+03 | EPA Regional Screening Level, Residential Soil |
| Toluidine, o- (Methylaniline, 2-) | 95-53-4 | 2.7E+00 | EPA Regional Screening Level, Residential Soil |
| Toluidine, p- | 106-49-0 | 2.6E+00 | EPA Regional Screening Level, Residential Soil |
| Total Petroleum Hydrocarbons | | 1.0E+02 | NDEP derived concentration |

NDEP Draft Guidelines for Discovery Events (Soil RCs)

Appendix A2--Full list of Reportable Concentrations in soil

Version: 01/28/2009

| Analyte | CAS No. | Reportable Concentration (mg/kg) | Source |
|---|------------|----------------------------------|--|
| Toxaphene | 8001-35-2 | 4.4E-01 | EPA Regional Screening Level, Residential Soil |
| Tralomethrin | 66841-25-6 | 4.6E+02 | EPA Regional Screening Level, Residential Soil |
| Triallate | 2303-17-5 | 7.9E+02 | EPA Regional Screening Level, Residential Soil |
| Triasulfuron | 82097-50-5 | 6.1E+02 | EPA Regional Screening Level, Residential Soil |
| Tribromobenzene, 1,2,4- | 615-54-3 | 3.1E+02 | EPA Regional Screening Level, Residential Soil |
| Tributyl Phosphate | 126-73-8 | 5.3E+01 | EPA Regional Screening Level, Residential Soil |
| Tributyltin Compounds | NA | 1.8E+01 | EPA Regional Screening Level, Residential Soil |
| Tributyltin Oxide | 56-35-9 | 1.8E+01 | EPA Regional Screening Level, Residential Soil |
| Trichloro-1,2,2-trifluoroethane, 1,1,2- | 76-13-1 | 4.3E+04 | EPA Regional Screening Level, Residential Soil |
| Trichloroaniline HCl, 2,4,6- | 33663-50-2 | 1.7E+01 | EPA Regional Screening Level, Residential Soil |
| Trichloroaniline, 2,4,6- | 634-93-5 | 1.4E+01 | EPA Regional Screening Level, Residential Soil |
| Trichlorobenzene, 1,2,4- | 120-82-1 | 5.0E+00 | Soil Screening Level, DAF 20 |
| Trichloroethane, 1,1,1- | 71-55-6 | 2.0E+00 | Soil Screening Level, DAF 20 |
| Trichloroethane, 1,1,2- | 79-00-5 | 2.0E-02 | Soil Screening Level, DAF 20 |
| Trichloroethylene (TCE) | 79-01-6 | 6.0E-02 | Soil Screening Level, DAF 20 |
| Trichlorofluoromethane | 75-69-4 | 8.0E+02 | EPA Regional Screening Level, Residential Soil |
| Trichlorophenol, 2,4,5- | 95-95-4 | 2.7E+02 | Soil Screening Level, DAF 20 |
| Trichlorophenol, 2,4,6- | 88-06-2 | 2.0E-01 | Soil Screening Level, DAF 20 |
| Trichlorophenoxy Propionic Acid, 2(2,4,5- | 93-72-1 | 4.9E+02 | EPA Regional Screening Level, Residential Soil |
| Trichlorophenoxyacetic Acid, 2,4,5- | 93-76-5 | 6.1E+02 | EPA Regional Screening Level, Residential Soil |
| Trichloropropane, 1,1,2- | 598-77-6 | 3.9E+02 | EPA Regional Screening Level, Residential Soil |
| Trichloropropane, 1,2,3- | 96-18-4 | 9.1E-02 | EPA Regional Screening Level, Residential Soil |
| Trichloropropene, 1,2,3- | 96-19-5 | 2.7E+00 | EPA Regional Screening Level, Residential Soil |
| Tridiphane | 58138-08-2 | 1.8E+02 | EPA Regional Screening Level, Residential Soil |
| Triethylamine | 121-44-8 | 1.7E+02 | EPA Regional Screening Level, Residential Soil |
| Trifluralin | 1582-09-8 | 6.3E+01 | EPA Regional Screening Level, Residential Soil |
| Trimethyl Phosphate | 512-56-1 | 1.3E+01 | EPA Regional Screening Level, Residential Soil |
| Trimethylbenzene, 1,2,4- | 95-63-6 | 6.7E+01 | EPA Regional Screening Level, Residential Soil |
| Trimethylbenzene, 1,3,5- | 108-67-8 | 4.7E+01 | EPA Regional Screening Level, Residential Soil |
| Trinitrobenzene, 1,3,5- | 99-35-4 | 2.2E+03 | EPA Regional Screening Level, Residential Soil |
| Trinitrotoluene, 2,4,6- | 118-96-7 | 1.9E+01 | EPA Regional Screening Level, Residential Soil |
| Triphenylphosphine Oxide | 791-28-6 | 1.2E+03 | EPA Regional Screening Level, Residential Soil |
| Tris(2-chloroethyl)phosphate | 115-96-8 | 3.5E+01 | EPA Regional Screening Level, Residential Soil |
| Tris(2-ethylhexyl)phosphate | 78-42-2 | 1.5E+02 | EPA Regional Screening Level, Residential Soil |
| Tetrabromodiphenyl ether, 2,2',4,4'- (BDE-47) | 5436-43-1 | 7.8E+00 | EPA Regional Screening Level, Residential Soil |
| Tri-n-butyltin | 688-73-3 | 1.8E+01 | EPA Regional Screening Level, Residential Soil |
| Uranium (Soluble Salts) | NA | 2.3E+02 | EPA Regional Screening Level, Residential Soil |
| Vanadium Pentoxide | 1314-62-1 | 4.0E+02 | EPA Regional Screening Level, Residential Soil |
| Vanadium Sulfate | 36907-42-3 | 1.6E+03 | EPA Regional Screening Level, Residential Soil |
| Vanadium and Compounds | NA | 3.9E+02 | EPA Regional Screening Level, Residential Soil |
| Vanadium, Metallic | 7440-62-2 | 5.5E+02 | EPA Regional Screening Level, Residential Soil |
| Vernolate | 1929-77-7 | 6.1E+01 | EPA Regional Screening Level, Residential Soil |
| Vinclozolin | 50471-44-8 | 1.5E+03 | EPA Regional Screening Level, Residential Soil |
| Vinyl Acetate | 108-05-4 | 1.7E+02 | Soil Screening Level, DAF 20 |
| Vinyl Bromide | 593-60-2 | 1.1E-01 | EPA Regional Screening Level, Residential Soil |
| Vinyl Chloride | 75-01-4 | 1.0E-02 | Soil Screening Level, DAF 20 |
| Warfarin | 81-81-2 | 1.8E+01 | EPA Regional Screening Level, Residential Soil |
| Xylene, Mixture | 1330-20-7 | 2.1E+02 | Soil Screening Level, DAF 20 |
| Xylene, P- | 106-42-3 | 2.1E+02 | Soil Screening Level, DAF 20 |
| Xylene, m- | 108-38-3 | 2.1E+02 | Soil Screening Level, DAF 20 |
| Xylene, o- | 95-47-6 | 2.1E+02 | Soil Screening Level, DAF 20 |
| Zinc (Metallic) | 7440-66-6 | 1.2E+04 | Soil Screening Level, DAF 20 |
| Zinc Phosphide | 1314-84-7 | 2.3E+01 | EPA Regional Screening Level, Residential Soil |
| Zineb | 12122-67-7 | 3.1E+03 | EPA Regional Screening Level, Residential Soil |

APPENDIX B

Laboratory Analytical Reports



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052742-11A
Client I.D. Number: SB10GW20052710

Sampled: 05/27/10
Received: 05/27/10

Method Reference : EPA Method 300.0

| Analyte | Result | Reporting Limit | Qual | Units | Date Extracted | Date Analyzed |
|-------------------|--------|-----------------|------|-------|----------------|----------------|
| Fluoride | 2.6 | 0.25 | | mg/L | 05/27/10 11:18 | 05/27/10 19:41 |
| Chloride | 40 | 0.50 | | mg/L | 05/27/10 11:18 | 05/27/10 19:41 |
| Nitrite (NO2) - N | ND | 0.25 | | mg/L | 05/27/10 11:18 | 05/27/10 19:41 |
| Nitrate (NO3) - N | ND | 0.25 | | mg/L | 05/27/10 11:18 | 05/27/10 19:41 |
| Sulfate (SO4) | 41 | 0.50 | | mg/L | 05/27/10 11:18 | 05/27/10 19:41 |

Method Reference : SM4500NORGC / SM4500-NH3D

| Analyte | Result | Reporting Limit | Qual | Units | Date Extracted | Date Analyzed |
|---------------------------|--------|-----------------|------|-------|----------------|---------------|
| Nitrogen, Kjeldahl, Total | 63 | 2.5 | | mg/L | 06/01/10 | 06/01/10 |

Method Reference : Total by Calculation

| Analyte | Result | Reporting Limit | Qual | Units | Date Extracted | Date Analyzed |
|---------------------|--------|-----------------|------|-------|----------------|---------------|
| Total Nitrogen as N | 63 | 2.5 | | mg/L | 06/01/10 | 06/01/10 |

ND = Not Detected

Roger Scholl *Randy Gardner* *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

6/4/10

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 05/27/10

Job: NTD

Alkalinity
SM2320B

| Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed |
|---|---------------|-----------------|----------------|---------------|
| Client ID: SB10GW20052710 | | | | |
| Lab ID : E2M10052742-11A Alkalinity, Total (As CaCO ₃ at pH 4.5) | 590 | 10 mg/L | 06/02/10 | 06/02/10 |
| Date Sampled 05/27/10 08:20 | | | | |

Roger Scholl *Randy Gardner* *Walter Hinchman*

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Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

6/4/10

Report Date



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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 05/27/10

Job: NTD

Ammonia as Nitrogen
SM4500-NH3D

| Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed |
|---|---------------|-----------------|----------------|---------------|
| Client ID: SB10GW20052710 | | | | |
| Lab ID : E2M10052742-11A Nitrogen, Ammonia (As N) | 8.0 | 1.0 mg/L | 05/28/10 | 05/28/10 |
| Date Sampled 05/27/10 08:20 | | | | |

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

6/4/10

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052742-11A
Client I.D. Number: SB10GW20052710

Sampled: 05/27/10 08:20
Received: 05/27/10
Extracted: 06/01/10 12:00
Analyzed: 06/03/10

Semivolatile Organics by GC/MS EPA Method SW8270C

| | Compound | Concentration | Reporting Limit |
|----|----------------------------|---------------|-----------------|
| 1 | Phenol | ND | 10 µg/L |
| 2 | 2-Chlorophenol | ND | 10 µg/L |
| 3 | 2-Nitrophenol | ND | 10 µg/L |
| 4 | 2,4-Dimethylphenol | ND | 10 µg/L |
| 5 | 2,4-Dichlorophenol | ND | 10 µg/L |
| 6 | 4-Chloro-3-methylphenol | ND | 20 µg/L |
| 7 | 2,4,6-Trichlorophenol | ND | 10 µg/L |
| 8 | 2,4-Dinitrophenol | ND | 100 µg/L |
| 9 | 4-Nitrophenol | ND | 50 µg/L |
| 10 | 4,6-Dinitro-2-methylphenol | ND | 100 µg/L |
| 11 | Pentachlorophenol | ND | 50 µg/L |
| 12 | Surr: 2-Fluorophenol | 51 | (41-130)%REC |
| 13 | Surr: Phenol-d5 | 36 | (25-130)%REC |
| 14 | Surr: 2,4,6-Tribromophenol | 84 | (61-138)%REC |

ND = Not Detected

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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 05/27/10

Job: NTD

Metals by ICPMS EPA Method SW6020 / SW6020A

| Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed | |
|----------------------------------|----------------|-----------------|----------------|----------------|----------|
| Client ID: SB0810SO052710 | | | | | |
| Lab ID : E2M10052742-03A | Chromium (Cr) | 7.8 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| Date Sampled 05/27/10 11:25 | Arsenic (As) | 11 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Selenium (Se) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Silver (Ag) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Cadmium (Cd) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Barium (Ba) | 47 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Mercury (Hg) | ND | 0.20 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Lead (Pb) | 2.8 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| Client ID: SB0910SO052710 | | | | | |
| Lab ID : E2M10052742-06A | Chromium (Cr) | 15 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| Date Sampled 05/27/10 10:20 | Arsenic (As) | 3.6 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Selenium (Se) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Silver (Ag) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Cadmium (Cd) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Barium (Ba) | 160 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Mercury (Hg) | ND | 0.20 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Lead (Pb) | 4.7 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| Client ID: SB1010SO052710 | | | | | |
| Lab ID : E2M10052742-09A | Chromium (Cr) | 17 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| Date Sampled 05/27/10 07:50 | Arsenic (As) | 5.4 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Selenium (Se) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Silver (Ag) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Cadmium (Cd) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Barium (Ba) | 140 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Mercury (Hg) | ND | 0.20 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Lead (Pb) | 4.5 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| Client ID: SB10GW20052710 | | | | | |
| Lab ID : E2M10052742-11A | Boron (B) | 1.9 | 0.10 mg/L | 05/28/10 11:35 | 05/28/10 |
| Date Sampled 05/27/10 08:20 | Sodium (Na) | 590 | 0.50 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Chromium (Cr) | 0.10 | 0.0050 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Manganese (Mn) | 20 | 0.050 mg/L | 05/28/10 11:35 | 06/04/10 |
| | Iron (Fe) | 400 | 0.30 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Nickel (Ni) | 0.13 | 0.010 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Copper (Cu) | 0.21 | 0.010 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Zinc (Zn) | 0.48 | 0.10 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Arsenic (As) | 0.23 | 0.0050 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Selenium (Se) | ND | 0.0050 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Silver (Ag) | ND | 0.0050 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Cadmium (Cd) | ND | 0.0050 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Barium (Ba) | 6.4 | 0.0050 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Mercury (Hg) | ND | 0.0010 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Lead (Pb) | 0.059 | 0.0050 mg/L | 05/28/10 11:35 | 05/28/10 |



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Client ID: **EB01GWNA052710**

| | | | | | |
|-----------------------------|---------------|-------|-------------|----------------|----------|
| Lab ID : E2M10052742-12A | Chromium (Cr) | 0.42 | 0.0050 mg/L | 05/28/10 11:35 | 05/28/10 |
| Date Sampled 05/27/10 00:00 | Arsenic (As) | 0.042 | 0.0050 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Selenium (Se) | ND | 0.0050 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Silver (Ag) | ND | 0.0050 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Cadmium (Cd) | ND | 0.0050 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Barium (Ba) | 1.1 | 0.0050 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Mercury (Hg) | ND | 0.0010 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Lead (Pb) | 0.60 | 0.0050 mg/L | 05/28/10 11:35 | 05/28/10 |

Sample results were calculated on a wet weight basis.
ND = Not Detected

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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 05/27/10

Job: NTD

Oil and Grease, HEM
EPA Method 1664A

| Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed |
|--|---------------|-----------------|----------------|---------------|
| Client ID: SB10GW20052710 | | | | |
| Lab ID : E2M10052742-11A Oil & Grease, HEM | ND | 5.0 mg/L | 06/02/10 | 06/02/10 |
| Date Sampled 05/27/10 08:20 | | | | |

HEM = Hexane Extractable Material

ND = Not Detected

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Folsom, CA 95630

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 05/27/10

Job: NTD

pH (Soil)
EPA Method SW9045D

| Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed | |
|----------------------------------|------------------|-----------------|----------------|----------------|----------------|
| Client ID: SB0802SO052710 | | | | | |
| Lab ID : E2M10052742-01A | pH | 8.3 | 1.7 pH Units | 06/01/10 11:32 | 06/01/10 16:01 |
| Date Sampled 05/27/10 11:05 | pH - Temperature | 20 | 1.0 °C | 06/01/10 11:32 | 06/01/10 16:01 |
| Client ID: SB0808SO052710 | | | | | |
| Lab ID : E2M10052742-02A | pH | 8.7 | 1.7 pH Units | 06/01/10 11:32 | 06/01/10 16:04 |
| Date Sampled 05/27/10 11:20 | pH - Temperature | 20 | 1.0 °C | 06/01/10 11:32 | 06/01/10 16:04 |
| Client ID: SB0810SO052710 | | | | | |
| Lab ID : E2M10052742-03A | pH | 8.6 | 1.7 pH Units | 06/01/10 11:32 | 06/01/10 16:07 |
| Date Sampled 05/27/10 11:25 | pH - Temperature | 20 | 1.0 °C | 06/01/10 11:32 | 06/01/10 16:07 |
| Client ID: SB0817SO052710 | | | | | |
| Lab ID : E2M10052742-04A | pH | 8.1 | 1.7 pH Units | 06/01/10 11:32 | 06/01/10 16:10 |
| Date Sampled 05/27/10 11:35 | pH - Temperature | 20 | 1.0 °C | 06/01/10 11:32 | 06/01/10 16:10 |
| Client ID: SB0902SO052710 | | | | | |
| Lab ID : E2M10052742-05A | pH | 8.6 | 1.7 pH Units | 06/01/10 11:32 | 06/01/10 16:14 |
| Date Sampled 05/27/10 10:05 | pH - Temperature | 20 | 1.0 °C | 06/01/10 11:32 | 06/01/10 16:14 |
| Client ID: SB0910SO052710 | | | | | |
| Lab ID : E2M10052742-06A | pH | 8.0 | 1.7 pH Units | 06/01/10 11:32 | 06/01/10 16:21 |
| Date Sampled 05/27/10 10:20 | pH - Temperature | 20 | 1.0 °C | 06/01/10 11:32 | 06/01/10 16:21 |
| Client ID: SB0917SO052710 | | | | | |
| Lab ID : E2M10052742-07A | pH | 7.5 | 1.7 pH Units | 06/01/10 11:32 | 06/01/10 16:23 |
| Date Sampled 05/27/10 10:40 | pH - Temperature | 20 | 1.0 °C | 06/01/10 11:32 | 06/01/10 16:23 |
| Client ID: SB1002SO052710 | | | | | |
| Lab ID : E2M10052742-08A | pH | 8.5 | 1.7 pH Units | 06/01/10 11:32 | 06/01/10 16:25 |
| Date Sampled 05/27/10 07:40 | pH - Temperature | 20 | 1.0 °C | 06/01/10 11:32 | 06/01/10 16:25 |
| Client ID: SB1010SO052710 | | | | | |
| Lab ID : E2M10052742-09A | pH | 7.4 | 1.7 pH Units | 06/01/10 11:32 | 06/01/10 16:28 |
| Date Sampled 05/27/10 07:50 | pH - Temperature | 20 | 1.0 °C | 06/01/10 11:32 | 06/01/10 16:28 |
| Client ID: SB1017SO052710 | | | | | |
| Lab ID : E2M10052742-10A | pH | 8.4 | 1.7 pH Units | 06/01/10 11:32 | 06/01/10 16:30 |
| Date Sampled 05/27/10 08:05 | pH - Temperature | 20 | 1.0 °C | 06/01/10 11:32 | 06/01/10 16:30 |



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ANALYTICAL REPORT

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Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 05/27/10

Job: NTD

pH (Range 1.7 to 12.4)

EPA Method 150.2 / SM4500HB / SW9040C

| Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed |
|--|---------------|-----------------|----------------|----------------|
| Client ID: SB10GW20052710 | | | | |
| Lab ID : E2M10052742-11A pH | 7.7 | 1.7 pH Units | 05/27/10 14:34 | 05/27/10 14:34 |
| Date Sampled 05/27/10 08:20 pH - Temperature | 19 | 1.0 °C | 05/27/10 14:34 | 05/27/10 14:34 |

The EPA has established an analytical holding time of 15 minutes for this method as documented in the Methods Update Rule, Federal Register, Vol 72, No 47, March 2007. This holding time will always be exceeded, unless samples are analyzed in the field.
The laboratory performed this analysis in the shortest practical holding time after sample receipt.

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Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 05/27/10

Job: NTD

Phosphorus
EPA Method 365.3 / SM4500PE

| Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed |
|--|---------------|-----------------|----------------|---------------|
| Client ID: SB10GW20052710 | | | | |
| Lab ID: E2M10052742-11A Phosphorus, Total (As P) | 56 | 5.0 mg/L | 06/02/10 | 06/02/10 |
| Date Sampled 05/27/10 08:20 | | | | |

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Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 05/27/10

Job: NTD

Total Dissolved Solids (TDS)
SM2540C

| Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed |
|--|---------------|-----------------|----------------|---------------|
| Client ID: SB10GW20052710 | | | | |
| Lab ID : E2M10052742-11A Solids, Total Dissolved (TDS) | 1,600 | 25 mg/L | 06/02/10 | 06/02/10 |
| Date Sampled 05/27/10 08:20 | | | | |

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Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 05/27/10

Job: NTD

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B

| Client ID : | Lab ID : | Date Sampled | Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed |
|-----------------------|-----------------|----------------|-----------------------------|---------------|-----------------|----------------|---------------|
| SB0802SO052710 | E2M10052742-01A | 05/27/10 11:05 | TPH-E (DRO) | 250 L | 200 mg/Kg | 05/28/10 15:05 | 05/31/10 |
| | | | TPH-E (ORO) | 4,200 | 200 mg/Kg | 05/28/10 15:05 | 05/31/10 |
| | | | Surr: Nonane | 0 S50 | (67-156) %REC | 05/28/10 15:05 | 05/31/10 |
| | | | TPH-P (GRO) | ND | 10 mg/Kg | 06/02/10 | 06/02/10 |
| | | | Surr: 1,2-Dichloroethane-d4 | 122 | (70-130) %REC | 06/02/10 | 06/02/10 |
| | | | Surr: Toluene-d8 | 92 | (70-130) %REC | 06/02/10 | 06/02/10 |
| | | | Surr: 4-Bromofluorobenzene | 103 | (70-130) %REC | 06/02/10 | 06/02/10 |
| SB0808SO052710 | E2M10052742-02A | 05/27/10 11:20 | TPH-E (DRO) | ND | 10 mg/Kg | 05/28/10 15:05 | 05/30/10 |
| | | | TPH-E (ORO) | ND | 10 mg/Kg | 05/28/10 15:05 | 05/30/10 |
| | | | Surr: Nonane | 107 | (67-156) %REC | 05/28/10 15:05 | 05/30/10 |
| | | | TPH-P (GRO) | ND | 10 mg/Kg | 06/02/10 | 06/02/10 |
| | | | Surr: 1,2-Dichloroethane-d4 | 123 | (70-130) %REC | 06/02/10 | 06/02/10 |
| | | | Surr: Toluene-d8 | 91 | (70-130) %REC | 06/02/10 | 06/02/10 |
| | | | Surr: 4-Bromofluorobenzene | 99 | (70-130) %REC | 06/02/10 | 06/02/10 |
| SB0810SO052710 | E2M10052742-03A | 05/27/10 11:25 | TPH-E (DRO) | ND | 10 mg/Kg | 05/28/10 15:05 | 05/30/10 |
| | | | TPH-E (ORO) | ND | 10 mg/Kg | 05/28/10 15:05 | 05/30/10 |
| | | | Surr: Nonane | 105 | (67-156) %REC | 05/28/10 15:05 | 05/30/10 |
| | | | TPH-P (GRO) | ND | 10 mg/Kg | 06/02/10 | 06/02/10 |
| | | | Surr: 1,2-Dichloroethane-d4 | 126 | (70-130) %REC | 06/02/10 | 06/02/10 |
| | | | Surr: Toluene-d8 | 94 | (70-130) %REC | 06/02/10 | 06/02/10 |
| | | | Surr: 4-Bromofluorobenzene | 102 | (70-130) %REC | 06/02/10 | 06/02/10 |
| SB0817SO052710 | E2M10052742-04A | 05/27/10 11:35 | TPH-E (DRO) | ND | 10 mg/Kg | 05/28/10 15:05 | 05/30/10 |
| | | | TPH-E (ORO) | ND | 10 mg/Kg | 05/28/10 15:05 | 05/30/10 |
| | | | Surr: Nonane | 112 | (67-156) %REC | 05/28/10 15:05 | 05/30/10 |
| | | | TPH-P (GRO) | ND | 10 mg/Kg | 06/02/10 | 06/02/10 |
| | | | Surr: 1,2-Dichloroethane-d4 | 125 | (70-130) %REC | 06/02/10 | 06/02/10 |
| | | | Surr: Toluene-d8 | 94 | (70-130) %REC | 06/02/10 | 06/02/10 |
| | | | Surr: 4-Bromofluorobenzene | 105 | (70-130) %REC | 06/02/10 | 06/02/10 |
| SB0902SO052710 | E2M10052742-05A | 05/27/10 10:05 | TPH-E (DRO) | 150 L | 100 mg/Kg | 05/28/10 15:05 | 05/31/10 |
| | | | TPH-E (ORO) | 1,900 | 100 mg/Kg | 05/28/10 15:05 | 05/31/10 |
| | | | Surr: Nonane | 115 | (67-156) %REC | 05/28/10 15:05 | 05/31/10 |
| | | | TPH-P (GRO) | ND | 10 mg/Kg | 06/02/10 | 06/02/10 |
| | | | Surr: 1,2-Dichloroethane-d4 | 131 S55 | (70-130) %REC | 06/02/10 | 06/02/10 |
| | | | Surr: Toluene-d8 | 93 | (70-130) %REC | 06/02/10 | 06/02/10 |
| | | | Surr: 4-Bromofluorobenzene | 103 | (70-130) %REC | 06/02/10 | 06/02/10 |



Alpha Analytical, Inc.

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| | | | | | | | |
|--------------|-----------------------|-----------------------------|-----|-----|---------------|----------------|----------|
| Client ID : | SB0910SO052710 | | | | | | |
| Lab ID : | E2M10052742-06A | TPH-E (DRO) | 32 | L | 25 mg/Kg | 05/28/10 15:05 | 05/31/10 |
| Date Sampled | 05/27/10 10:20 | TPH-E (ORO) | 450 | | 50 mg/Kg | 05/28/10 15:05 | 05/31/10 |
| | | Surr: Nonane | 0 | S50 | (67-156) %REC | 05/28/10 15:05 | 05/31/10 |
| | | TPH-P (GRO) | ND | | 10 mg/Kg | 06/02/10 | 06/02/10 |
| | | Surr: 1,2-Dichloroethane-d4 | 127 | | (70-130) %REC | 06/02/10 | 06/02/10 |
| | | Surr: Toluene-d8 | 93 | | (70-130) %REC | 06/02/10 | 06/02/10 |
| | | Surr: 4-Bromofluorobenzene | 102 | | (70-130) %REC | 06/02/10 | 06/02/10 |
| Client ID : | SB0917SO052710 | | | | | | |
| Lab ID : | E2M10052742-07A | TPH-E (DRO) | ND | | 25 mg/Kg | 05/28/10 15:05 | 05/30/10 |
| Date Sampled | 05/27/10 10:40 | TPH-E (ORO) | ND | | 50 mg/Kg | 05/28/10 15:05 | 05/30/10 |
| | | Surr: Nonane | 119 | | (67-156) %REC | 05/28/10 15:05 | 05/30/10 |
| | | TPH-P (GRO) | ND | | 10 mg/Kg | 06/02/10 | 06/02/10 |
| | | Surr: 1,2-Dichloroethane-d4 | 130 | | (70-130) %REC | 06/02/10 | 06/02/10 |
| | | Surr: Toluene-d8 | 94 | | (70-130) %REC | 06/02/10 | 06/02/10 |
| | | Surr: 4-Bromofluorobenzene | 103 | | (70-130) %REC | 06/02/10 | 06/02/10 |
| Client ID : | SB1002SO052710 | | | | | | |
| Lab ID : | E2M10052742-08A | TPH-E (DRO) | 37 | L | 25 mg/Kg | 05/28/10 15:05 | 05/31/10 |
| Date Sampled | 05/27/10 07:40 | TPH-E (ORO) | 520 | | 50 mg/Kg | 05/28/10 15:05 | 05/31/10 |
| | | Surr: Nonane | 0 | S50 | (67-156) %REC | 05/28/10 15:05 | 05/31/10 |
| | | TPH-P (GRO) | ND | | 10 mg/Kg | 06/02/10 | 06/02/10 |
| | | Surr: 1,2-Dichloroethane-d4 | 132 | S55 | (70-130) %REC | 06/02/10 | 06/02/10 |
| | | Surr: Toluene-d8 | 95 | | (70-130) %REC | 06/02/10 | 06/02/10 |
| | | Surr: 4-Bromofluorobenzene | 109 | | (70-130) %REC | 06/02/10 | 06/02/10 |
| Client ID : | SB1010SO052710 | | | | | | |
| Lab ID : | E2M10052742-09A | TPH-E (DRO) | ND | | 10 mg/Kg | 05/28/10 15:05 | 05/30/10 |
| Date Sampled | 05/27/10 07:50 | TPH-E (ORO) | ND | | 10 mg/Kg | 05/28/10 15:05 | 05/30/10 |
| | | Surr: Nonane | 104 | | (67-156) %REC | 05/28/10 15:05 | 05/30/10 |
| | | TPH-P (GRO) | ND | | 10 mg/Kg | 06/02/10 | 06/02/10 |
| | | Surr: 1,2-Dichloroethane-d4 | 132 | S55 | (70-130) %REC | 06/02/10 | 06/02/10 |
| | | Surr: Toluene-d8 | 96 | | (70-130) %REC | 06/02/10 | 06/02/10 |
| | | Surr: 4-Bromofluorobenzene | 108 | | (70-130) %REC | 06/02/10 | 06/02/10 |
| Client ID : | SB1017SO052710 | | | | | | |
| Lab ID : | E2M10052742-10A | TPH-E (DRO) | ND | | 10 mg/Kg | 05/28/10 15:05 | 05/30/10 |
| Date Sampled | 05/27/10 08:05 | TPH-E (ORO) | ND | | 10 mg/Kg | 05/28/10 15:05 | 05/30/10 |
| | | Surr: Nonane | 121 | | (67-156) %REC | 05/28/10 15:05 | 05/30/10 |
| | | TPH-P (GRO) | ND | | 10 mg/Kg | 06/02/10 | 06/02/10 |
| | | Surr: 1,2-Dichloroethane-d4 | 126 | | (70-130) %REC | 06/02/10 | 06/02/10 |
| | | Surr: Toluene-d8 | 95 | | (70-130) %REC | 06/02/10 | 06/02/10 |
| | | Surr: 4-Bromofluorobenzene | 108 | | (70-130) %REC | 06/02/10 | 06/02/10 |
| Client ID : | SB10GW20052710 | | | | | | |
| Lab ID : | E2M10052742-11A | TPH-E (DRO) | ND | | 0.50 mg/L | 05/28/10 13:43 | 05/29/10 |
| Date Sampled | 05/27/10 08:20 | TPH-E (ORO) | ND | | 0.50 mg/L | 05/28/10 13:43 | 05/29/10 |
| | | Surr: Nonane | 104 | | (57-147) %REC | 05/28/10 13:43 | 05/29/10 |
| | | TPH-P (GRO) | ND | | 0.50 mg/L | 05/28/10 | 05/28/10 |
| | | Surr: 1,2-Dichloroethane-d4 | 116 | | (70-130) %REC | 05/28/10 | 05/28/10 |
| | | Surr: Toluene-d8 | 94 | | (70-130) %REC | 05/28/10 | 05/28/10 |
| | | Surr: 4-Bromofluorobenzene | 104 | | (70-130) %REC | 05/28/10 | 05/28/10 |
| Client ID : | EB01GWNA052710 | | | | | | |
| Lab ID : | E2M10052742-12A | TPH-E (DRO) | ND | | 0.50 mg/L | 05/28/10 13:43 | 05/29/10 |
| Date Sampled | 05/27/10 00:00 | TPH-E (ORO) | ND | | 0.50 mg/L | 05/28/10 13:43 | 05/29/10 |
| | | Surr: Nonane | 105 | | (57-147) %REC | 05/28/10 13:43 | 05/29/10 |



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Diesel Range Organics (DRO) C13-C22

Gasoline Range Organics (GRO) C4-C13

L = DRO concentration may include contributions from heavier-end hydrocarbons that elute in the DRO range.

Oil Range Organics (ORO) C22-C40+

S50 = The analysis of the sample required a dilution such that the surrogate concentration was diluted below the laboratory acceptance criteria. The laboratory control sample was acceptable.

S55 = Surrogate recovery was above laboratory acceptance limits.

Sample results were calculated on a wet weight basis.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

6/4/10

Report Date



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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052742-01A
Client I.D. Number: SB0802SO052710

Sampled: 05/27/10 11:05
Received: 05/27/10
Extracted: 06/02/10
Analyzed: 06/02/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 80 µg/Kg | 36 Bromoform | ND | 80 µg/Kg |
| 2 Chloromethane | ND | 320 µg/Kg | 37 Styrene | ND | 80 µg/Kg |
| 3 Vinyl chloride | ND | 80 µg/Kg | 38 o-Xylene | ND | 40 µg/Kg |
| 4 Chloroethane | ND | 80 µg/Kg | 39 1,1,2,2-Tetrachloroethane | ND | 80 µg/Kg |
| 5 Bromomethane | ND | 320 µg/Kg | 40 1,2,3-Trichloropropane | ND | 320 µg/Kg |
| 6 Trichlorofluoromethane | ND | 80 µg/Kg | 41 Isopropylbenzene | ND | 80 µg/Kg |
| 7 1,1-Dichloroethane | ND | 80 µg/Kg | 42 Bromobenzene | ND | 80 µg/Kg |
| 8 Dichloromethane | ND | 320 µg/Kg | 43 n-Propylbenzene | ND | 80 µg/Kg |
| 9 trans-1,2-Dichloroethane | ND | 80 µg/Kg | 44 4-Chlorotoluene | ND | 80 µg/Kg |
| 10 1,1-Dichloroethane | ND | 80 µg/Kg | 45 2-Chlorotoluene | ND | 80 µg/Kg |
| 11 cis-1,2-Dichloroethane | ND | 80 µg/Kg | 46 1,3,5-Trimethylbenzene | ND | 80 µg/Kg |
| 12 Bromochloromethane | ND | 80 µg/Kg | 47 tert-Butylbenzene | ND | 80 µg/Kg |
| 13 Chloroform | ND | 80 µg/Kg | 48 1,2,4-Trimethylbenzene | ND | 80 µg/Kg |
| 14 2,2-Dichloropropane | ND | 80 µg/Kg | 49 sec-Butylbenzene | ND | 80 µg/Kg |
| 15 1,2-Dichloroethane | ND | 80 µg/Kg | 50 1,3-Dichlorobenzene | ND | 80 µg/Kg |
| 16 1,1,1-Trichloroethane | ND | 80 µg/Kg | 51 1,4-Dichlorobenzene | ND | 80 µg/Kg |
| 17 1,1-Dichloropropene | ND | 80 µg/Kg | 52 4-Isopropyltoluene | ND | 80 µg/Kg |
| 18 Carbon tetrachloride | ND | 80 µg/Kg | 53 1,2-Dichlorobenzene | ND | 80 µg/Kg |
| 19 Benzene | ND | 40 µg/Kg | 54 n-Butylbenzene | ND | 80 µg/Kg |
| 20 Dibromomethane | ND | 80 µg/Kg | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 480 µg/Kg |
| 21 1,2-Dichloropropane | ND | 80 µg/Kg | 56 1,2,4-Trichlorobenzene | ND | 320 µg/Kg |
| 22 Trichloroethane | ND | 80 µg/Kg | 57 Naphthalene | ND | 320 µg/Kg |
| 23 Bromodichloromethane | ND | 80 µg/Kg | 58 Hexachlorobutadiene | ND | 320 µg/Kg |
| 24 cis-1,3-Dichloropropene | ND | 80 µg/Kg | 59 1,2,3-Trichlorobenzene | ND | 320 µg/Kg |
| 25 trans-1,3-Dichloropropene | ND | 80 µg/Kg | 60 Surr: 1,2-Dichloroethane-d4 | 122 | (70-130) %REC |
| 26 1,1,2-Trichloroethane | ND | 80 µg/Kg | 61 Surr: Toluene-d8 | 92 | (70-130) %REC |
| 27 Toluene | ND | 40 µg/Kg | 62 Surr: 4-Bromofluorobenzene | 103 | (70-130) %REC |
| 28 1,3-Dichloropropane | ND | 80 µg/Kg | | | |
| 29 Dibromochloromethane | ND | 80 µg/Kg | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 320 µg/Kg | | | |
| 31 Tetrachloroethane | ND | 80 µg/Kg | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 80 µg/Kg | | | |
| 33 Chlorobenzene | ND | 80 µg/Kg | | | |
| 34 Ethylbenzene | ND | 40 µg/Kg | | | |
| 35 m,p-Xylene | ND | 40 µg/Kg | | | |

Reporting Limits were increased due to sample foaming.

Sample results were calculated on a wet weight basis.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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PS

6/4/10

Report Date

Page 1 of 1



Alpha Analytical, Inc.

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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052742-02A
Client I.D. Number: SB0808SO052710

Sampled: 05/27/10 11:20
Received: 05/27/10
Extracted: 06/02/10
Analyzed: 06/02/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 40 µg/Kg | 36 Bromoform | ND | 40 µg/Kg |
| 2 Chloromethane | ND | 160 µg/Kg | 37 Styrene | ND | 40 µg/Kg |
| 3 Vinyl chloride | ND | 40 µg/Kg | 38 o-Xylene | ND | 20 µg/Kg |
| 4 Chloroethane | ND | 40 µg/Kg | 39 1,1,2,2-Tetrachloroethane | ND | 40 µg/Kg |
| 5 Bromomethane | ND | 160 µg/Kg | 40 1,2,3-Trichloropropane | ND | 160 µg/Kg |
| 6 Trichlorofluoromethane | ND | 40 µg/Kg | 41 Isopropylbenzene | ND | 40 µg/Kg |
| 7 1,1-Dichloroethene | ND | 40 µg/Kg | 42 Bromobenzene | ND | 40 µg/Kg |
| 8 Dichloromethane | ND | 160 µg/Kg | 43 n-Propylbenzene | ND | 40 µg/Kg |
| 9 trans-1,2-Dichloroethene | ND | 40 µg/Kg | 44 4-Chlorotoluene | ND | 40 µg/Kg |
| 10 1,1-Dichloroethane | ND | 40 µg/Kg | 45 2-Chlorotoluene | ND | 40 µg/Kg |
| 11 cis-1,2-Dichloroethene | ND | 40 µg/Kg | 46 1,3,5-Trimethylbenzene | ND | 40 µg/Kg |
| 12 Bromochloromethane | ND | 40 µg/Kg | 47 tert-Butylbenzene | ND | 40 µg/Kg |
| 13 Chloroform | ND | 40 µg/Kg | 48 1,2,4-Trimethylbenzene | ND | 40 µg/Kg |
| 14 2,2-Dichloropropane | ND | 40 µg/Kg | 49 sec-Butylbenzene | ND | 40 µg/Kg |
| 15 1,2-Dichloroethane | ND | 40 µg/Kg | 50 1,3-Dichlorobenzene | ND | 40 µg/Kg |
| 16 1,1,1-Trichloroethane | ND | 40 µg/Kg | 51 1,4-Dichlorobenzene | ND | 40 µg/Kg |
| 17 1,1-Dichloropropene | ND | 40 µg/Kg | 52 4-Isopropyltoluene | ND | 40 µg/Kg |
| 18 Carbon tetrachloride | ND | 40 µg/Kg | 53 1,2-Dichlorobenzene | ND | 40 µg/Kg |
| 19 Benzene | ND | 20 µg/Kg | 54 n-Butylbenzene | ND | 40 µg/Kg |
| 20 Dibromomethane | ND | 40 µg/Kg | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 240 µg/Kg |
| 21 1,2-Dichloropropane | ND | 40 µg/Kg | 56 1,2,4-Trichlorobenzene | ND | 160 µg/Kg |
| 22 Trichloroethene | ND | 40 µg/Kg | 57 Naphthalene | ND | 160 µg/Kg |
| 23 Bromodichloromethane | ND | 40 µg/Kg | 58 Hexachlorobutadiene | ND | 160 µg/Kg |
| 24 cis-1,3-Dichloropropene | ND | 40 µg/Kg | 59 1,2,3-Trichlorobenzene | ND | 160 µg/Kg |
| 25 trans-1,3-Dichloropropene | ND | 40 µg/Kg | 60 Surr: 1,2-Dichloroethane-d4 | 123 | (70-130) %REC |
| 26 1,1,2-Trichloroethane | ND | 40 µg/Kg | 61 Surr: Toluene-d8 | 91 | (70-130) %REC |
| 27 Toluene | ND | 20 µg/Kg | 62 Surr: 4-Bromofluorobenzene | 99 | (70-130) %REC |
| 28 1,3-Dichloropropane | ND | 40 µg/Kg | | | |
| 29 Dibromochloromethane | ND | 40 µg/Kg | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 160 µg/Kg | | | |
| 31 Tetrachloroethene | ND | 40 µg/Kg | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 40 µg/Kg | | | |
| 33 Chlorobenzene | ND | 40 µg/Kg | | | |
| 34 Ethylbenzene | ND | 20 µg/Kg | | | |
| 35 m,p-Xylene | ND | 20 µg/Kg | | | |

Reporting Limits were increased due to sample foaming.

Sample results were calculated on a wet weight basis.
ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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6/4/10

Report Date

Page 1 of 1



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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052742-03A
Client I.D. Number: SB0810SO052710

Sampled: 05/27/10 11:25
Received: 05/27/10
Extracted: 06/02/10
Analyzed: 06/02/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 40 µg/Kg | 36 Bromoform | ND | 40 µg/Kg |
| 2 Chloromethane | ND | 160 µg/Kg | 37 Styrene | ND | 40 µg/Kg |
| 3 Vinyl chloride | ND | 40 µg/Kg | 38 o-Xylene | ND | 20 µg/Kg |
| 4 Chloroethane | ND | 40 µg/Kg | 39 1,1,2,2-Tetrachloroethane | ND | 40 µg/Kg |
| 5 Bromomethane | ND | 160 µg/Kg | 40 1,2,3-Trichloropropane | ND | 160 µg/Kg |
| 6 Trichlorofluoromethane | ND | 40 µg/Kg | 41 Isopropylbenzene | ND | 40 µg/Kg |
| 7 1,1-Dichloroethene | ND | 40 µg/Kg | 42 Bromobenzene | ND | 40 µg/Kg |
| 8 Dichloromethane | ND | 160 µg/Kg | 43 n-Propylbenzene | ND | 40 µg/Kg |
| 9 trans-1,2-Dichloroethene | ND | 40 µg/Kg | 44 4-Chlorotoluene | ND | 40 µg/Kg |
| 10 1,1-Dichloroethane | ND | 40 µg/Kg | 45 2-Chlorotoluene | ND | 40 µg/Kg |
| 11 cis-1,2-Dichloroethene | ND | 40 µg/Kg | 46 1,3,5-Trimethylbenzene | ND | 40 µg/Kg |
| 12 Bromochloromethane | ND | 40 µg/Kg | 47 tert-Butylbenzene | ND | 40 µg/Kg |
| 13 Chloroform | ND | 40 µg/Kg | 48 1,2,4-Trimethylbenzene | ND | 40 µg/Kg |
| 14 2,2-Dichloropropane | ND | 40 µg/Kg | 49 sec-Butylbenzene | ND | 40 µg/Kg |
| 15 1,2-Dichloroethane | ND | 40 µg/Kg | 50 1,3-Dichlorobenzene | ND | 40 µg/Kg |
| 16 1,1,1-Trichloroethane | ND | 40 µg/Kg | 51 1,4-Dichlorobenzene | ND | 40 µg/Kg |
| 17 1,1-Dichloropropene | ND | 40 µg/Kg | 52 4-Isopropyltoluene | ND | 40 µg/Kg |
| 18 Carbon tetrachloride | ND | 40 µg/Kg | 53 1,2-Dichlorobenzene | ND | 40 µg/Kg |
| 19 Benzene | ND | 20 µg/Kg | 54 n-Butylbenzene | ND | 40 µg/Kg |
| 20 Dibromomethane | ND | 40 µg/Kg | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 240 µg/Kg |
| 21 1,2-Dichloropropane | ND | 40 µg/Kg | 56 1,2,4-Trichlorobenzene | ND | 160 µg/Kg |
| 22 Trichloroethene | ND | 40 µg/Kg | 57 Naphthalene | ND | 160 µg/Kg |
| 23 Bromodichloromethane | ND | 40 µg/Kg | 58 Hexachlorobutadiene | ND | 160 µg/Kg |
| 24 cis-1,3-Dichloropropene | ND | 40 µg/Kg | 59 1,2,3-Trichlorobenzene | ND | 160 µg/Kg |
| 25 trans-1,3-Dichloropropene | ND | 40 µg/Kg | 60 Surr: 1,2-Dichloroethane-d4 | 126 | (70-130) %REC |
| 26 1,1,2-Trichloroethane | ND | 40 µg/Kg | 61 Surr: Toluene-d8 | 94 | (70-130) %REC |
| 27 Toluene | ND | 20 µg/Kg | 62 Surr: 4-Bromofluorobenzene | 102 | (70-130) %REC |
| 28 1,3-Dichloropropane | ND | 40 µg/Kg | | | |
| 29 Dibromochloromethane | ND | 40 µg/Kg | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 160 µg/Kg | | | |
| 31 Tetrachloroethene | ND | 40 µg/Kg | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 40 µg/Kg | | | |
| 33 Chlorobenzene | ND | 40 µg/Kg | | | |
| 34 Ethylbenzene | ND | 20 µg/Kg | | | |
| 35 m,p-Xylene | ND | 20 µg/Kg | | | |

Reporting Limits were increased due to sample foaming.

Sample results were calculated on a wet weight basis.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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6/4/10

Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052742-04A
Client I.D. Number: SB0817SO052710

Sampled: 05/27/10 11:35
Received: 05/27/10
Extracted: 06/02/10
Analyzed: 06/02/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 20 µg/Kg | 36 Bromoform | ND | 20 µg/Kg |
| 2 Chloromethane | ND | 80 µg/Kg | 37 Styrene | ND | 20 µg/Kg |
| 3 Vinyl chloride | ND | 20 µg/Kg | 38 o-Xylene | ND | 20 µg/Kg |
| 4 Chloroethane | ND | 20 µg/Kg | 39 1,1,2,2-Tetrachloroethane | ND | 20 µg/Kg |
| 5 Bromomethane | ND | 80 µg/Kg | 40 1,2,3-Trichloropropane | ND | 80 µg/Kg |
| 6 Trichlorofluoromethane | ND | 20 µg/Kg | 41 Isopropylbenzene | ND | 20 µg/Kg |
| 7 1,1-Dichloroethene | ND | 20 µg/Kg | 42 Bromobenzene | ND | 20 µg/Kg |
| 8 Dichloromethane | ND | 80 µg/Kg | 43 n-Propylbenzene | ND | 20 µg/Kg |
| 9 trans-1,2-Dichloroethene | ND | 20 µg/Kg | 44 4-Chlorotoluene | ND | 20 µg/Kg |
| 10 1,1-Dichloroethane | ND | 20 µg/Kg | 45 2-Chlorotoluene | ND | 20 µg/Kg |
| 11 cis-1,2-Dichloroethene | ND | 20 µg/Kg | 46 1,3,5-Trimethylbenzene | ND | 20 µg/Kg |
| 12 Bromochloromethane | ND | 20 µg/Kg | 47 tert-Butylbenzene | ND | 20 µg/Kg |
| 13 Chloroform | ND | 20 µg/Kg | 48 1,2,4-Trimethylbenzene | ND | 20 µg/Kg |
| 14 2,2-Dichloropropane | ND | 20 µg/Kg | 49 sec-Butylbenzene | ND | 20 µg/Kg |
| 15 1,2-Dichloroethane | ND | 20 µg/Kg | 50 1,3-Dichlorobenzene | ND | 20 µg/Kg |
| 16 1,1,1-Trichloroethane | ND | 20 µg/Kg | 51 1,4-Dichlorobenzene | ND | 20 µg/Kg |
| 17 1,1-Dichloropropene | ND | 20 µg/Kg | 52 4-Isopropyltoluene | ND | 20 µg/Kg |
| 18 Carbon tetrachloride | ND | 20 µg/Kg | 53 1,2-Dichlorobenzene | ND | 20 µg/Kg |
| 19 Benzene | ND | 20 µg/Kg | 54 n-Butylbenzene | ND | 20 µg/Kg |
| 20 Dibromomethane | ND | 20 µg/Kg | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 120 µg/Kg |
| 21 1,2-Dichloropropane | ND | 20 µg/Kg | 56 1,2,4-Trichlorobenzene | ND | 80 µg/Kg |
| 22 Trichloroethene | ND | 20 µg/Kg | 57 Naphthalene | ND | 80 µg/Kg |
| 23 Bromodichloromethane | ND | 20 µg/Kg | 58 Hexachlorobutadiene | ND | 80 µg/Kg |
| 24 cis-1,3-Dichloropropene | ND | 20 µg/Kg | 59 1,2,3-Trichlorobenzene | ND | 80 µg/Kg |
| 25 trans-1,3-Dichloropropene | ND | 20 µg/Kg | 60 Surr: 1,2-Dichloroethane-d4 | 125 | (70-130) %REC |
| 26 1,1,2-Trichloroethane | ND | 20 µg/Kg | 61 Surr: Toluene-d8 | 94 | (70-130) %REC |
| 27 Toluene | ND | 20 µg/Kg | 62 Surr: 4-Bromofluorobenzene | 105 | (70-130) %REC |
| 28 1,3-Dichloropropane | ND | 20 µg/Kg | | | |
| 29 Dibromochloromethane | ND | 20 µg/Kg | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 80 µg/Kg | | | |
| 31 Tetrachloroethene | ND | 20 µg/Kg | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 20 µg/Kg | | | |
| 33 Chlorobenzene | ND | 20 µg/Kg | | | |
| 34 Ethylbenzene | ND | 20 µg/Kg | | | |
| 35 m,p-Xylene | ND | 20 µg/Kg | | | |

Sample results were calculated on a wet weight basis.
ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

6/4/10

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052742-05A
Client I.D. Number: SB0902SO052710

Sampled: 05/27/10 10:05
Received: 05/27/10
Extracted: 06/02/10
Analyzed: 06/02/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-------------------|
| 1 Dichlorodifluoromethane | ND | 40 µg/Kg | 36 Bromoform | ND | 40 µg/Kg |
| 2 Chloromethane | ND | 160 µg/Kg | 37 Styrene | ND | 40 µg/Kg |
| 3 Vinyl chloride | ND | 40 µg/Kg | 38 o-Xylene | ND | 20 µg/Kg |
| 4 Chloroethane | ND | 40 µg/Kg | 39 1,1,2,2-Tetrachloroethane | ND | 40 µg/Kg |
| 5 Bromomethane | ND | 160 µg/Kg | 40 1,2,3-Trichloropropane | ND | 160 µg/Kg |
| 6 Trichlorofluoromethane | ND | 40 µg/Kg | 41 Isopropylbenzene | ND | 40 µg/Kg |
| 7 1,1-Dichloroethane | ND | 40 µg/Kg | 42 Bromobenzene | ND | 40 µg/Kg |
| 8 Dichloromethane | ND | 160 µg/Kg | 43 n-Propylbenzene | ND | 40 µg/Kg |
| 9 trans-1,2-Dichloroethane | ND | 40 µg/Kg | 44 4-Chlorotoluene | ND | 40 µg/Kg |
| 10 1,1-Dichloroethane | ND | 40 µg/Kg | 45 2-Chlorotoluene | ND | 40 µg/Kg |
| 11 cis-1,2-Dichloroethane | ND | 40 µg/Kg | 46 1,3,5-Trimethylbenzene | ND | 40 µg/Kg |
| 12 Bromochloromethane | ND | 40 µg/Kg | 47 tert-Butylbenzene | ND | 40 µg/Kg |
| 13 Chloroform | ND | 40 µg/Kg | 48 1,2,4-Trimethylbenzene | ND | 40 µg/Kg |
| 14 2,2-Dichloropropane | ND | 40 µg/Kg | 49 sec-Butylbenzene | ND | 40 µg/Kg |
| 15 1,2-Dichloroethane | ND | 40 µg/Kg | 50 1,3-Dichlorobenzene | ND | 40 µg/Kg |
| 16 1,1,1-Trichloroethane | ND | 40 µg/Kg | 51 1,4-Dichlorobenzene | ND | 40 µg/Kg |
| 17 1,1-Dichloropropene | ND | 40 µg/Kg | 52 4-Isopropyltoluene | ND | 40 µg/Kg |
| 18 Carbon tetrachloride | ND | 40 µg/Kg | 53 1,2-Dichlorobenzene | ND | 40 µg/Kg |
| 19 Benzene | ND | 20 µg/Kg | 54 n-Butylbenzene | ND | 40 µg/Kg |
| 20 Dibromomethane | ND | 40 µg/Kg | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 240 µg/Kg |
| 21 1,2-Dichloropropane | ND | 40 µg/Kg | 56 1,2,4-Trichlorobenzene | ND | 160 µg/Kg |
| 22 Trichloroethene | ND | 40 µg/Kg | 57 Naphthalene | ND | 160 µg/Kg |
| 23 Bromodichloromethane | ND | 40 µg/Kg | 58 Hexachlorobutadiene | ND | 160 µg/Kg |
| 24 cis-1,3-Dichloropropene | ND | 40 µg/Kg | 59 1,2,3-Trichlorobenzene | ND | 160 µg/Kg |
| 25 trans-1,3-Dichloropropene | ND | 40 µg/Kg | 60 Surr: 1,2-Dichloroethane-d4 | 132 | S55 (70-130) %REC |
| 26 1,1,2-Trichloroethane | ND | 40 µg/Kg | 61 Surr: Toluene-d8 | 93 | (70-130) %REC |
| 27 Toluene | ND | 20 µg/Kg | 62 Surr: 4-Bromofluorobenzene | 103 | (70-130) %REC |
| 28 1,3-Dichloropropane | ND | 40 µg/Kg | | | |
| 29 Dibromochloromethane | ND | 40 µg/Kg | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 160 µg/Kg | | | |
| 31 Tetrachloroethene | ND | 40 µg/Kg | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 40 µg/Kg | | | |
| 33 Chlorobenzene | ND | 40 µg/Kg | | | |
| 34 Ethylbenzene | ND | 20 µg/Kg | | | |
| 35 m,p-Xylene | ND | 20 µg/Kg | | | |

Reporting Limits were increased due to sample foaming.

S55 = Surrogate recovery was above laboratory acceptance limits.

Sample results were calculated on a wet weight basis.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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Alpha certifies that the test results meet all requirements of NELAP unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

6/4/10

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052742-06A
Client I.D. Number: SB0910SO052710

Sampled: 05/27/10 10:20
Received: 05/27/10
Extracted: 06/02/10
Analyzed: 06/02/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 40 µg/Kg | 36 Bromoform | ND | 40 µg/Kg |
| 2 Chloromethane | ND | 160 µg/Kg | 37 Styrene | ND | 40 µg/Kg |
| 3 Vinyl chloride | ND | 40 µg/Kg | 38 o-Xylene | ND | 20 µg/Kg |
| 4 Chloroethane | ND | 40 µg/Kg | 39 1,1,2,2-Tetrachloroethane | ND | 40 µg/Kg |
| 5 Bromomethane | ND | 160 µg/Kg | 40 1,2,3-Trichloropropane | ND | 160 µg/Kg |
| 6 Trichlorofluoromethane | ND | 40 µg/Kg | 41 Isopropylbenzene | ND | 40 µg/Kg |
| 7 1,1-Dichloroethene | ND | 40 µg/Kg | 42 Bromobenzene | ND | 40 µg/Kg |
| 8 Dichloromethane | ND | 160 µg/Kg | 43 n-Propylbenzene | ND | 40 µg/Kg |
| 9 trans-1,2-Dichloroethene | ND | 40 µg/Kg | 44 4-Chlorotoluene | ND | 40 µg/Kg |
| 10 1,1-Dichloroethane | ND | 40 µg/Kg | 45 2-Chlorotoluene | ND | 40 µg/Kg |
| 11 cis-1,2-Dichloroethene | ND | 40 µg/Kg | 46 1,3,5-Trimethylbenzene | ND | 40 µg/Kg |
| 12 Bromochloromethane | ND | 40 µg/Kg | 47 tert-Butylbenzene | ND | 40 µg/Kg |
| 13 Chloroform | ND | 40 µg/Kg | 48 1,2,4-Trimethylbenzene | ND | 40 µg/Kg |
| 14 2,2-Dichloropropane | ND | 40 µg/Kg | 49 sec-Butylbenzene | ND | 40 µg/Kg |
| 15 1,2-Dichloroethane | ND | 40 µg/Kg | 50 1,3-Dichlorobenzene | ND | 40 µg/Kg |
| 16 1,1,1-Trichloroethane | ND | 40 µg/Kg | 51 1,4-Dichlorobenzene | ND | 40 µg/Kg |
| 17 1,1-Dichloropropene | ND | 40 µg/Kg | 52 4-Isopropyltoluene | ND | 40 µg/Kg |
| 18 Carbon tetrachloride | ND | 40 µg/Kg | 53 1,2-Dichlorobenzene | ND | 40 µg/Kg |
| 19 Benzene | ND | 20 µg/Kg | 54 n-Butylbenzene | ND | 40 µg/Kg |
| 20 Dibromomethane | ND | 40 µg/Kg | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 240 µg/Kg |
| 21 1,2-Dichloropropane | ND | 40 µg/Kg | 56 1,2,4-Trichlorobenzene | ND | 160 µg/Kg |
| 22 Trichloroethene | ND | 40 µg/Kg | 57 Naphthalene | ND | 160 µg/Kg |
| 23 Bromodichloromethane | ND | 40 µg/Kg | 58 Hexachlorobutadiene | ND | 160 µg/Kg |
| 24 cis-1,3-Dichloropropene | ND | 40 µg/Kg | 59 1,2,3-Trichlorobenzene | ND | 160 µg/Kg |
| 25 trans-1,3-Dichloropropene | ND | 40 µg/Kg | 60 Surr: 1,2-Dichloroethane-d4 | 127 | (70-130) %REC |
| 26 1,1,2-Trichloroethane | ND | 40 µg/Kg | 61 Surr: Toluene-d8 | 93 | (70-130) %REC |
| 27 Toluene | ND | 20 µg/Kg | 62 Surr: 4-Bromofluorobenzene | 102 | (70-130) %REC |
| 28 1,3-Dichloropropane | ND | 40 µg/Kg | | | |
| 29 Dibromochloromethane | ND | 40 µg/Kg | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 160 µg/Kg | | | |
| 31 Tetrachloroethene | ND | 40 µg/Kg | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 40 µg/Kg | | | |
| 33 Chlorobenzene | ND | 40 µg/Kg | | | |
| 34 Ethylbenzene | ND | 20 µg/Kg | | | |
| 35 m,p-Xylene | ND | 20 µg/Kg | | | |

Reporting Limits were increased due to sample foaming.

Sample results were calculated on a wet weight basis.

ND = Not Detected

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Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

6/4/10

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052742-07A
Client I.D. Number: SB0917SO052710

Sampled: 05/27/10 10:40
Received: 05/27/10
Extracted: 06/02/10
Analyzed: 06/02/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 40 µg/Kg | 36 Bromoform | ND | 40 µg/Kg |
| 2 Chloromethane | ND | 160 µg/Kg | 37 Styrene | ND | 40 µg/Kg |
| 3 Vinyl chloride | ND | 40 µg/Kg | 38 o-Xylene | ND | 20 µg/Kg |
| 4 Chloroethane | ND | 40 µg/Kg | 39 1,1,2,2-Tetrachloroethane | ND | 40 µg/Kg |
| 5 Bromomethane | ND | 160 µg/Kg | 40 1,2,3-Trichloropropane | ND | 160 µg/Kg |
| 6 Trichlorofluoromethane | ND | 40 µg/Kg | 41 Isopropylbenzene | ND | 40 µg/Kg |
| 7 1,1-Dichloroethene | ND | 40 µg/Kg | 42 Bromobenzene | ND | 40 µg/Kg |
| 8 Dichloromethane | ND | 160 µg/Kg | 43 n-Propylbenzene | ND | 40 µg/Kg |
| 9 trans-1,2-Dichloroethene | ND | 40 µg/Kg | 44 4-Chlorotoluene | ND | 40 µg/Kg |
| 10 1,1-Dichloroethane | ND | 40 µg/Kg | 45 2-Chlorotoluene | ND | 40 µg/Kg |
| 11 cis-1,2-Dichloroethene | ND | 40 µg/Kg | 46 1,3,5-Trimethylbenzene | ND | 40 µg/Kg |
| 12 Bromochloromethane | ND | 40 µg/Kg | 47 tert-Butylbenzene | ND | 40 µg/Kg |
| 13 Chloroform | ND | 40 µg/Kg | 48 1,2,4-Trimethylbenzene | ND | 40 µg/Kg |
| 14 2,2-Dichloropropane | ND | 40 µg/Kg | 49 sec-Butylbenzene | ND | 40 µg/Kg |
| 15 1,2-Dichloroethane | ND | 40 µg/Kg | 50 1,3-Dichlorobenzene | ND | 40 µg/Kg |
| 16 1,1,1-Trichloroethane | ND | 40 µg/Kg | 51 1,4-Dichlorobenzene | ND | 40 µg/Kg |
| 17 1,1-Dichloropropene | ND | 40 µg/Kg | 52 4-Isopropyltoluene | ND | 40 µg/Kg |
| 18 Carbon tetrachloride | ND | 40 µg/Kg | 53 1,2-Dichlorobenzene | ND | 40 µg/Kg |
| 19 Benzene | ND | 20 µg/Kg | 54 n-Butylbenzene | ND | 40 µg/Kg |
| 20 Dibromomethane | ND | 40 µg/Kg | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 240 µg/Kg |
| 21 1,2-Dichloropropane | ND | 40 µg/Kg | 56 1,2,4-Trichlorobenzene | ND | 160 µg/Kg |
| 22 Trichloroethene | ND | 40 µg/Kg | 57 Naphthalene | ND | 160 µg/Kg |
| 23 Bromodichloromethane | ND | 40 µg/Kg | 58 Hexachlorobutadiene | ND | 160 µg/Kg |
| 24 cis-1,3-Dichloropropene | ND | 40 µg/Kg | 59 1,2,3-Trichlorobenzene | ND | 160 µg/Kg |
| 25 trans-1,3-Dichloropropene | ND | 40 µg/Kg | 60 Surr: 1,2-Dichloroethane-d4 | 130 | (70-130) %REC |
| 26 1,1,2-Trichloroethane | ND | 40 µg/Kg | 61 Surr: Toluene-d8 | 94 | (70-130) %REC |
| 27 Toluene | ND | 20 µg/Kg | 62 Surr: 4-Bromofluorobenzene | 103 | (70-130) %REC |
| 28 1,3-Dichloropropane | ND | 40 µg/Kg | | | |
| 29 Dibromochloromethane | ND | 40 µg/Kg | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 160 µg/Kg | | | |
| 31 Tetrachloroethene | ND | 40 µg/Kg | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 40 µg/Kg | | | |
| 33 Chlorobenzene | ND | 40 µg/Kg | | | |
| 34 Ethylbenzene | ND | 20 µg/Kg | | | |
| 35 m,p-Xylene | ND | 20 µg/Kg | | | |

Reporting Limits were increased due to sample foaming.

Sample results were calculated on a wet weight basis.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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6/4/10

Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052742-08A
Client I.D. Number: SB1002SO052710

Sampled: 05/27/10 07:40
Received: 05/27/10
Extracted: 06/02/10
Analyzed: 06/02/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-------------------|
| 1 Dichlorodifluoromethane | ND | 20 µg/Kg | 36 Bromoform | ND | 20 µg/Kg |
| 2 Chloromethane | ND | 80 µg/Kg | 37 Styrene | ND | 20 µg/Kg |
| 3 Vinyl chloride | ND | 20 µg/Kg | 38 o-Xylene | ND | 20 µg/Kg |
| 4 Chloroethane | ND | 20 µg/Kg | 39 1,1,2,2-Tetrachloroethane | ND | 20 µg/Kg |
| 5 Bromomethane | ND | 80 µg/Kg | 40 1,2,3-Trichloropropane | ND | 80 µg/Kg |
| 6 Trichlorofluoromethane | ND | 20 µg/Kg | 41 Isopropylbenzene | ND | 20 µg/Kg |
| 7 1,1-Dichloroethene | ND | 20 µg/Kg | 42 Bromobenzene | ND | 20 µg/Kg |
| 8 Dichloromethane | ND | 80 µg/Kg | 43 n-Propylbenzene | ND | 20 µg/Kg |
| 9 trans-1,2-Dichloroethene | ND | 20 µg/Kg | 44 4-Chlorotoluene | ND | 20 µg/Kg |
| 10 1,1-Dichloroethane | ND | 20 µg/Kg | 45 2-Chlorotoluene | ND | 20 µg/Kg |
| 11 cis-1,2-Dichloroethene | ND | 20 µg/Kg | 46 1,3,5-Trimethylbenzene | ND | 20 µg/Kg |
| 12 Bromochloromethane | ND | 20 µg/Kg | 47 tert-Butylbenzene | ND | 20 µg/Kg |
| 13 Chloroform | ND | 20 µg/Kg | 48 1,2,4-Trimethylbenzene | ND | 20 µg/Kg |
| 14 2,2-Dichloropropane | ND | 20 µg/Kg | 49 sec-Butylbenzene | ND | 20 µg/Kg |
| 15 1,2-Dichloroethane | ND | 20 µg/Kg | 50 1,3-Dichlorobenzene | ND | 20 µg/Kg |
| 16 1,1,1-Trichloroethane | ND | 20 µg/Kg | 51 1,4-Dichlorobenzene | ND | 20 µg/Kg |
| 17 1,1-Dichloropropene | ND | 20 µg/Kg | 52 4-Isopropyltoluene | ND | 20 µg/Kg |
| 18 Carbon tetrachloride | ND | 20 µg/Kg | 53 1,2-Dichlorobenzene | ND | 20 µg/Kg |
| 19 Benzene | ND | 20 µg/Kg | 54 n-Butylbenzene | ND | 20 µg/Kg |
| 20 Dibromomethane | ND | 20 µg/Kg | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 120 µg/Kg |
| 21 1,2-Dichloropropane | ND | 20 µg/Kg | 56 1,2,4-Trichlorobenzene | ND | 80 µg/Kg |
| 22 Trichloroethene | ND | 20 µg/Kg | 57 Naphthalene | ND | 80 µg/Kg |
| 23 Bromodichloromethane | ND | 20 µg/Kg | 58 Hexachlorobutadiene | ND | 80 µg/Kg |
| 24 cis-1,3-Dichloropropene | ND | 20 µg/Kg | 59 1,2,3-Trichlorobenzene | ND | 80 µg/Kg |
| 25 trans-1,3-Dichloropropene | ND | 20 µg/Kg | 60 Surr: 1,2-Dichloroethane-d4 | 132 | S55 (70-130) %REC |
| 26 1,1,2-Trichloroethane | ND | 20 µg/Kg | 61 Surr: Toluene-d8 | 95 | (70-130) %REC |
| 27 Toluene | ND | 20 µg/Kg | 62 Surr: 4-Bromofluorobenzene | 109 | (70-130) %REC |
| 28 1,3-Dichloropropane | ND | 20 µg/Kg | | | |
| 29 Dibromochloromethane | ND | 20 µg/Kg | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 80 µg/Kg | | | |
| 31 Tetrachloroethene | ND | 20 µg/Kg | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 20 µg/Kg | | | |
| 33 Chlorobenzene | ND | 20 µg/Kg | | | |
| 34 Ethylbenzene | ND | 20 µg/Kg | | | |
| 35 m,p-Xylene | ND | 20 µg/Kg | | | |

S55 = Surrogate recovery was above laboratory acceptance limits.

Sample results were calculated on a wet weight basis.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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6/4/10

Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052742-09A
Client I.D. Number: SB1010SO052710

Sampled: 05/27/10 07:50
Received: 05/27/10
Extracted: 06/02/10
Analyzed: 06/02/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-------------------|
| 1 Dichlorodifluoromethane | ND | 20 µg/Kg | 36 Bromoform | ND | 20 µg/Kg |
| 2 Chloromethane | ND | 80 µg/Kg | 37 Styrene | ND | 20 µg/Kg |
| 3 Vinyl chloride | ND | 20 µg/Kg | 38 o-Xylene | ND | 20 µg/Kg |
| 4 Chloroethane | ND | 20 µg/Kg | 39 1,1,2,2-Tetrachloroethane | ND | 20 µg/Kg |
| 5 Bromomethane | ND | 80 µg/Kg | 40 1,2,3-Trichloropropane | ND | 80 µg/Kg |
| 6 Trichlorofluoromethane | ND | 20 µg/Kg | 41 Isopropylbenzene | ND | 20 µg/Kg |
| 7 1,1-Dichloroethene | ND | 20 µg/Kg | 42 Bromobenzene | ND | 20 µg/Kg |
| 8 Dichloromethane | ND | 80 µg/Kg | 43 n-Propylbenzene | ND | 20 µg/Kg |
| 9 trans-1,2-Dichloroethene | ND | 20 µg/Kg | 44 4-Chlorotoluene | ND | 20 µg/Kg |
| 10 1,1-Dichloroethane | ND | 20 µg/Kg | 45 2-Chlorotoluene | ND | 20 µg/Kg |
| 11 cis-1,2-Dichloroethene | ND | 20 µg/Kg | 46 1,3,5-Trimethylbenzene | ND | 20 µg/Kg |
| 12 Bromochloromethane | ND | 20 µg/Kg | 47 tert-Butylbenzene | ND | 20 µg/Kg |
| 13 Chloroform | ND | 20 µg/Kg | 48 1,2,4-Trimethylbenzene | ND | 20 µg/Kg |
| 14 2,2-Dichloropropane | ND | 20 µg/Kg | 49 sec-Butylbenzene | ND | 20 µg/Kg |
| 15 1,2-Dichloroethane | ND | 20 µg/Kg | 50 1,3-Dichlorobenzene | ND | 20 µg/Kg |
| 16 1,1,1-Trichloroethane | ND | 20 µg/Kg | 51 1,4-Dichlorobenzene | ND | 20 µg/Kg |
| 17 1,1-Dichloropropene | ND | 20 µg/Kg | 52 4-Isopropyltoluene | ND | 20 µg/Kg |
| 18 Carbon tetrachloride | ND | 20 µg/Kg | 53 1,2-Dichlorobenzene | ND | 20 µg/Kg |
| 19 Benzene | ND | 20 µg/Kg | 54 n-Butylbenzene | ND | 20 µg/Kg |
| 20 Dibromomethane | ND | 20 µg/Kg | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 120 µg/Kg |
| 21 1,2-Dichloropropane | ND | 20 µg/Kg | 56 1,2,4-Trichlorobenzene | ND | 80 µg/Kg |
| 22 Trichloroethene | ND | 20 µg/Kg | 57 Naphthalene | ND | 80 µg/Kg |
| 23 Bromodichloromethane | ND | 20 µg/Kg | 58 Hexachlorobutadiene | ND | 80 µg/Kg |
| 24 cis-1,3-Dichloropropene | ND | 20 µg/Kg | 59 1,2,3-Trichlorobenzene | ND | 80 µg/Kg |
| 25 trans-1,3-Dichloropropene | ND | 20 µg/Kg | 60 Surr: 1,2-Dichloroethane-d4 | 132 | S55 (70-130) %REC |
| 26 1,1,2-Trichloroethane | ND | 20 µg/Kg | 61 Surr: Toluene-d8 | 96 | (70-130) %REC |
| 27 Toluene | ND | 20 µg/Kg | 62 Surr: 4-Bromofluorobenzene | 108 | (70-130) %REC |
| 28 1,3-Dichloropropane | ND | 20 µg/Kg | | | |
| 29 Dibromochloromethane | ND | 20 µg/Kg | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 80 µg/Kg | | | |
| 31 Tetrachloroethene | ND | 20 µg/Kg | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 20 µg/Kg | | | |
| 33 Chlorobenzene | ND | 20 µg/Kg | | | |
| 34 Ethylbenzene | ND | 20 µg/Kg | | | |
| 35 m,p-Xylene | ND | 20 µg/Kg | | | |

S55 = Surrogate recovery was above laboratory acceptance limits.

Sample results were calculated on a wet weight basis.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

6/4/10

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052742-10A
Client I.D. Number: SB1017SO052710

Sampled: 05/27/10 08:05
Received: 05/27/10
Extracted: 06/02/10
Analyzed: 06/02/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 20 µg/Kg | 36 Bromoform | ND | 20 µg/Kg |
| 2 Chloromethane | ND | 80 µg/Kg | 37 Styrene | ND | 20 µg/Kg |
| 3 Vinyl chloride | ND | 20 µg/Kg | 38 o-Xylene | ND | 20 µg/Kg |
| 4 Chloroethane | ND | 20 µg/Kg | 39 1,1,2,2-Tetrachloroethane | ND | 20 µg/Kg |
| 5 Bromomethane | ND | 80 µg/Kg | 40 1,2,3-Trichloropropane | ND | 80 µg/Kg |
| 6 Trichlorofluoromethane | ND | 20 µg/Kg | 41 Isopropylbenzene | ND | 20 µg/Kg |
| 7 1,1-Dichloroethene | ND | 20 µg/Kg | 42 Bromobenzene | ND | 20 µg/Kg |
| 8 Dichloromethane | ND | 80 µg/Kg | 43 n-Propylbenzene | ND | 20 µg/Kg |
| 9 trans-1,2-Dichloroethene | ND | 20 µg/Kg | 44 4-Chlorotoluene | ND | 20 µg/Kg |
| 10 1,1-Dichloroethane | ND | 20 µg/Kg | 45 2-Chlorotoluene | ND | 20 µg/Kg |
| 11 cis-1,2-Dichloroethene | ND | 20 µg/Kg | 46 1,3,5-Trimethylbenzene | ND | 20 µg/Kg |
| 12 Bromochloromethane | ND | 20 µg/Kg | 47 tert-Butylbenzene | ND | 20 µg/Kg |
| 13 Chloroform | ND | 20 µg/Kg | 48 1,2,4-Trimethylbenzene | ND | 20 µg/Kg |
| 14 2,2-Dichloropropane | ND | 20 µg/Kg | 49 sec-Butylbenzene | ND | 20 µg/Kg |
| 15 1,2-Dichloroethane | ND | 20 µg/Kg | 50 1,3-Dichlorobenzene | ND | 20 µg/Kg |
| 16 1,1,1-Trichloroethane | ND | 20 µg/Kg | 51 1,4-Dichlorobenzene | ND | 20 µg/Kg |
| 17 1,1-Dichloropropene | ND | 20 µg/Kg | 52 4-Isopropyltoluene | ND | 20 µg/Kg |
| 18 Carbon tetrachloride | ND | 20 µg/Kg | 53 1,2-Dichlorobenzene | ND | 20 µg/Kg |
| 19 Benzene | ND | 20 µg/Kg | 54 n-Butylbenzene | ND | 20 µg/Kg |
| 20 Dibromomethane | ND | 20 µg/Kg | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 120 µg/Kg |
| 21 1,2-Dichloropropane | ND | 20 µg/Kg | 56 1,2,4-Trichlorobenzene | ND | 80 µg/Kg |
| 22 Trichloroethene | ND | 20 µg/Kg | 57 Naphthalene | ND | 80 µg/Kg |
| 23 Bromodichloromethane | ND | 20 µg/Kg | 58 Hexachlorobutadiene | ND | 80 µg/Kg |
| 24 cis-1,3-Dichloropropene | ND | 20 µg/Kg | 59 1,2,3-Trichlorobenzene | ND | 80 µg/Kg |
| 25 trans-1,3-Dichloropropene | ND | 20 µg/Kg | 60 Surr: 1,2-Dichloroethane-d4 | 126 | (70-130) %REC |
| 26 1,1,2-Trichloroethane | ND | 20 µg/Kg | 61 Surr: Toluene-d8 | 95 | (70-130) %REC |
| 27 Toluene | ND | 20 µg/Kg | 62 Surr: 4-Bromofluorobenzene | 108 | (70-130) %REC |
| 28 1,3-Dichloropropane | ND | 20 µg/Kg | | | |
| 29 Dibromochloromethane | ND | 20 µg/Kg | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 80 µg/Kg | | | |
| 31 Tetrachloroethene | ND | 20 µg/Kg | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 20 µg/Kg | | | |
| 33 Chlorobenzene | ND | 20 µg/Kg | | | |
| 34 Ethylbenzene | ND | 20 µg/Kg | | | |
| 35 m,p-Xylene | ND | 20 µg/Kg | | | |

Sample results were calculated on a wet weight basis.
ND = Not Detected

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Page 1 of 1



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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052742-11A
Client I.D. Number: SB10GW20052710

Sampled: 05/27/10 08:20
Received: 05/27/10
Extracted: 05/28/10
Analyzed: 05/28/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 1.0 µg/L | 36 Bromoform | ND | 1.0 µg/L |
| 2 Chloromethane | ND | 2.0 µg/L | 37 Styrene | ND | 1.0 µg/L |
| 3 Vinyl chloride | ND | 1.0 µg/L | 38 o-Xylene | ND | 1.0 µg/L |
| 4 Chloroethane | ND | 1.0 µg/L | 39 1,1,2,2-Tetrachloroethane | ND | 1.0 µg/L |
| 5 Bromomethane | ND | 2.0 µg/L | 40 1,2,3-Trichloropropane | ND | 2.0 µg/L |
| 6 Trichlorofluoromethane | ND | 1.0 µg/L | 41 Isopropylbenzene | ND | 1.0 µg/L |
| 7 1,1-Dichloroethene | ND | 1.0 µg/L | 42 Bromobenzene | ND | 1.0 µg/L |
| 8 Dichloromethane | ND | 2.0 µg/L | 43 n-Propylbenzene | ND | 1.0 µg/L |
| 9 trans-1,2-Dichloroethene | ND | 1.0 µg/L | 44 4-Chlorotoluene | ND | 1.0 µg/L |
| 10 1,1-Dichloroethane | ND | 1.0 µg/L | 45 2-Chlorotoluene | ND | 1.0 µg/L |
| 11 cis-1,2-Dichloroethene | ND | 1.0 µg/L | 46 1,3,5-Trimethylbenzene | ND | 1.0 µg/L |
| 12 Bromochloromethane | ND | 1.0 µg/L | 47 tert-Butylbenzene | ND | 1.0 µg/L |
| 13 Chloroform | ND | 1.0 µg/L | 48 1,2,4-Trimethylbenzene | ND | 1.0 µg/L |
| 14 2,2-Dichloropropane | ND | 1.0 µg/L | 49 sec-Butylbenzene | ND | 1.0 µg/L |
| 15 1,2-Dichloroethane | ND | 1.0 µg/L | 50 1,3-Dichlorobenzene | ND | 1.0 µg/L |
| 16 1,1,1-Trichloroethane | ND | 1.0 µg/L | 51 1,4-Dichlorobenzene | ND | 1.0 µg/L |
| 17 1,1-Dichloropropene | ND | 1.0 µg/L | 52 4-Isopropyltoluene | ND | 1.0 µg/L |
| 18 Carbon tetrachloride | ND | 1.0 µg/L | 53 1,2-Dichlorobenzene | ND | 1.0 µg/L |
| 19 Benzene | ND | 1.0 µg/L | 54 n-Butylbenzene | ND | 1.0 µg/L |
| 20 Dibromomethane | ND | 1.0 µg/L | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 3.0 µg/L |
| 21 1,2-Dichloropropane | ND | 1.0 µg/L | 56 1,2,4-Trichlorobenzene | ND | 2.0 µg/L |
| 22 Trichloroethene | ND | 1.0 µg/L | 57 Naphthalene | ND | 2.0 µg/L |
| 23 Bromodichloromethane | ND | 1.0 µg/L | 58 Hexachlorobutadiene | ND | 2.0 µg/L |
| 24 cis-1,3-Dichloropropene | ND | 1.0 µg/L | 59 1,2,3-Trichlorobenzene | ND | 2.0 µg/L |
| 25 trans-1,3-Dichloropropene | ND | 1.0 µg/L | 60 Surr: 1,2-Dichloroethane-d4 | 116 | (70-130) %REC |
| 26 1,1,2-Trichloroethane | ND | 1.0 µg/L | 61 Surr: Toluene-d8 | 94 | (70-130) %REC |
| 27 Toluene | ND | 1.0 µg/L | 62 Surr: 4-Bromofluorobenzene | 104 | (70-130) %REC |
| 28 1,3-Dichloropropane | ND | 1.0 µg/L | | | |
| 29 Dibromochloromethane | ND | 1.0 µg/L | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 2.0 µg/L | | | |
| 31 Tetrachloroethene | ND | 1.0 µg/L | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 1.0 µg/L | | | |
| 33 Chlorobenzene | ND | 1.0 µg/L | | | |
| 34 Ethylbenzene | ND | 1.0 µg/L | | | |
| 35 m,p-Xylene | ND | 1.0 µg/L | | | |

Sample results were calculated on a wet weight basis.
ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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[Signature]
6/4/10

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052742-12A
Client I.D. Number: EB01GWNA052710

Sampled: 05/27/10 00:00
Received: 05/27/10
Extracted: 05/28/10
Analyzed: 05/28/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 1.0 µg/L | 36 Bromoform | ND | 1.0 µg/L |
| 2 Chloromethane | ND | 2.0 µg/L | 37 Styrene | ND | 1.0 µg/L |
| 3 Vinyl chloride | ND | 1.0 µg/L | 38 o-Xylene | ND | 1.0 µg/L |
| 4 Chloroethane | ND | 1.0 µg/L | 39 1,1,2,2-Tetrachloroethane | ND | 1.0 µg/L |
| 5 Bromomethane | ND | 2.0 µg/L | 40 1,2,3-Trichloropropane | ND | 2.0 µg/L |
| 6 Trichlorofluoromethane | ND | 1.0 µg/L | 41 Isopropylbenzene | ND | 1.0 µg/L |
| 7 1,1-Dichloroethene | ND | 1.0 µg/L | 42 Bromobenzene | ND | 1.0 µg/L |
| 8 Dichloromethane | ND | 2.0 µg/L | 43 n-Propylbenzene | ND | 1.0 µg/L |
| 9 trans-1,2-Dichloroethene | ND | 1.0 µg/L | 44 4-Chlorotoluene | ND | 1.0 µg/L |
| 10 1,1-Dichloroethane | ND | 1.0 µg/L | 45 2-Chlorotoluene | ND | 1.0 µg/L |
| 11 cis-1,2-Dichloroethene | ND | 1.0 µg/L | 46 1,3,5-Trimethylbenzene | ND | 1.0 µg/L |
| 12 Bromochloromethane | ND | 1.0 µg/L | 47 tert-Butylbenzene | ND | 1.0 µg/L |
| 13 Chloroform | ND | 1.0 µg/L | 48 1,2,4-Trimethylbenzene | ND | 1.0 µg/L |
| 14 2,2-Dichloropropane | ND | 1.0 µg/L | 49 sec-Butylbenzene | ND | 1.0 µg/L |
| 15 1,2-Dichloroethane | ND | 1.0 µg/L | 50 1,3-Dichlorobenzene | ND | 1.0 µg/L |
| 16 1,1,1-Trichloroethane | ND | 1.0 µg/L | 51 1,4-Dichlorobenzene | ND | 1.0 µg/L |
| 17 1,1-Dichloropropene | ND | 1.0 µg/L | 52 4-Isopropyltoluene | ND | 1.0 µg/L |
| 18 Carbon tetrachloride | ND | 1.0 µg/L | 53 1,2-Dichlorobenzene | ND | 1.0 µg/L |
| 19 Benzene | ND | 1.0 µg/L | 54 n-Butylbenzene | ND | 1.0 µg/L |
| 20 Dibromomethane | ND | 1.0 µg/L | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 3.0 µg/L |
| 21 1,2-Dichloropropane | ND | 1.0 µg/L | 56 1,2,4-Trichlorobenzene | ND | 2.0 µg/L |
| 22 Trichloroethene | ND | 1.0 µg/L | 57 Naphthalene | ND | 2.0 µg/L |
| 23 Bromodichloromethane | ND | 1.0 µg/L | 58 Hexachlorobutadiene | ND | 2.0 µg/L |
| 24 cis-1,3-Dichloropropene | ND | 1.0 µg/L | 59 1,2,3-Trichlorobenzene | ND | 2.0 µg/L |
| 25 trans-1,3-Dichloropropene | ND | 1.0 µg/L | 60 Surr: 1,2-Dichloroethane-d4 | 115 | (70-130) %REC |
| 26 1,1,2-Trichloroethane | ND | 1.0 µg/L | 61 Surr: Toluene-d8 | 96 | (70-130) %REC |
| 27 Toluene | ND | 1.0 µg/L | 62 Surr: 4-Bromofluorobenzene | 105 | (70-130) %REC |
| 28 1,3-Dichloropropane | ND | 1.0 µg/L | | | |
| 29 Dibromochloromethane | ND | 1.0 µg/L | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 2.0 µg/L | | | |
| 31 Tetrachloroethene | ND | 1.0 µg/L | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 1.0 µg/L | | | |
| 33 Chlorobenzene | ND | 1.0 µg/L | | | |
| 34 Ethylbenzene | ND | 1.0 µg/L | | | |
| 35 m,p-Xylene | ND | 1.0 µg/L | | | |

Sample results were calculated on a wet weight basis.
ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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JS

6/4/10

Report Date

Page 1 of 1



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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052742-13A
Client I.D. Number: TB03GWNA052710

Sampled: 05/27/10 07:00
Received: 05/27/10
Extracted: 05/28/10
Analyzed: 05/28/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 1.0 µg/L | 36 Bromoform | ND | 1.0 µg/L |
| 2 Chloromethane | ND | 2.0 µg/L | 37 Styrene | ND | 1.0 µg/L |
| 3 Vinyl chloride | ND | 1.0 µg/L | 38 o-Xylene | ND | 1.0 µg/L |
| 4 Chloroethane | ND | 1.0 µg/L | 39 1,1,2,2-Tetrachloroethane | ND | 1.0 µg/L |
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| 6 Trichlorofluoromethane | ND | 1.0 µg/L | 41 Isopropylbenzene | ND | 1.0 µg/L |
| 7 1,1-Dichloroethene | ND | 1.0 µg/L | 42 Bromobenzene | ND | 1.0 µg/L |
| 8 Dichloromethane | ND | 2.0 µg/L | 43 n-Propylbenzene | ND | 1.0 µg/L |
| 9 trans-1,2-Dichloroethene | ND | 1.0 µg/L | 44 4-Chlorotoluene | ND | 1.0 µg/L |
| 10 1,1-Dichloroethane | ND | 1.0 µg/L | 45 2-Chlorotoluene | ND | 1.0 µg/L |
| 11 cis-1,2-Dichloroethene | ND | 1.0 µg/L | 46 1,3,5-Trimethylbenzene | ND | 1.0 µg/L |
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| 13 Chloroform | ND | 1.0 µg/L | 48 1,2,4-Trimethylbenzene | ND | 1.0 µg/L |
| 14 2,2-Dichloropropane | ND | 1.0 µg/L | 49 sec-Butylbenzene | ND | 1.0 µg/L |
| 15 1,2-Dichloroethane | ND | 1.0 µg/L | 50 1,3-Dichlorobenzene | ND | 1.0 µg/L |
| 16 1,1,1-Trichloroethane | ND | 1.0 µg/L | 51 1,4-Dichlorobenzene | ND | 1.0 µg/L |
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| 19 Benzene | ND | 1.0 µg/L | 54 n-Butylbenzene | ND | 1.0 µg/L |
| 20 Dibromomethane | ND | 1.0 µg/L | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 3.0 µg/L |
| 21 1,2-Dichloropropane | ND | 1.0 µg/L | 56 1,2,4-Trichlorobenzene | ND | 2.0 µg/L |
| 22 Trichloroethene | ND | 1.0 µg/L | 57 Naphthalene | ND | 2.0 µg/L |
| 23 Bromodichloromethane | ND | 1.0 µg/L | 58 Hexachlorobutadiene | ND | 2.0 µg/L |
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| 25 trans-1,3-Dichloropropene | ND | 1.0 µg/L | 60 Surr: 1,2-Dichloroethane-d4 | 111 | (70-130) %REC |
| 26 1,1,2-Trichloroethane | ND | 1.0 µg/L | 61 Surr: Toluene-d8 | 96 | (70-130) %REC |
| 27 Toluene | ND | 1.0 µg/L | 62 Surr: 4-Bromofluorobenzene | 103 | (70-130) %REC |
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| 30 1,2-Dibromoethane (EDB) | ND | 2.0 µg/L | | | |
| 31 Tetrachloroethene | ND | 1.0 µg/L | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 1.0 µg/L | | | |
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| 34 Ethylbenzene | ND | 1.0 µg/L | | | |
| 35 m,p-Xylene | ND | 1.0 µg/L | | | |

Sample results were calculated on a wet weight basis.
ND = Not Detected

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC Sample Preservation Report

Work Order: E2M10052742

Job: NTD

| Alpha's Sample ID | Client's Sample ID | Matrix | pH |
|-------------------|--------------------|---------|----|
| 10052742-11A | SB10GW20052710 | Aqueous | 6 |
| 10052742-12A | EB01GWNA052710 | Aqueous | 2 |
| 10052742-13A | TB03GWNA052710 | Aqueous | 2 |

6/4/10

Report Date

Page 1 of 1



Alpha Analytical, Inc.

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Date:
03-Jun-10

QC Summary Report

Work Order:
10052742

Method Blank

Type **MBLK** Test Code: **EPA Method 300.0**

File ID: **21**

Batch ID: **24344**

Analysis Date: **05/27/2010 11:23**

Sample ID: **MB-24344**

Units : **mg/L**

Run ID: **IC_1_100527A**

Prep Date: **05/27/2010 11:18**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-------------------|--------|------|--------|-----------|------|---------|---------|-----------|-------------|------|
| Fluoride | ND | 0.25 | | | | | | | | |
| Chloride | ND | 0.5 | | | | | | | | |
| Nitrite (NO2) - N | ND | 0.25 | | | | | | | | |
| Nitrate (NO3) - N | ND | 0.25 | | | | | | | | |
| Sulfate (SO4) | ND | 0.5 | | | | | | | | |

Laboratory Fortified Blank

Type **LFB** Test Code: **EPA Method 300.0**

File ID: **22**

Batch ID: **24344**

Analysis Date: **05/27/2010 11:41**

Sample ID: **LFB-24344**

Units : **mg/L**

Run ID: **IC_1_100527A**

Prep Date: **05/27/2010 11:18**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-------------------|--------|------|--------|-----------|------|---------|---------|-----------|-------------|------|
| Fluoride | 4.91 | 0.25 | 5 | | 98 | 90 | 110 | | | |
| Chloride | 51.1 | 0.5 | 50 | | 102 | 90 | 110 | | | |
| Nitrite (NO2) - N | 4.89 | 0.25 | 5 | | 98 | 90 | 110 | | | |
| Nitrate (NO3) - N | 5.11 | 0.25 | 5 | | 102 | 90 | 110 | | | |
| Sulfate (SO4) | 102 | 0.5 | 100 | | 102 | 90 | 110 | | | |

Sample Matrix Spike

Type **LFM** Test Code: **EPA Method 300.0**

File ID: **35**

Batch ID: **24344**

Analysis Date: **05/27/2010 15:41**

Sample ID: **10052626-01ALFM**

Units : **mg/L**

Run ID: **IC_1_100527A**

Prep Date: **05/27/2010 11:18**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Fluoride | 51 | 1.3 | 50 | 2.315 | 97 | 80 | 120 | | | |
| Chloride | 625 | 2.5 | 500 | 97.34 | 105 | 80 | 120 | | | |
| Nitrite (NO2) - N | 48.4 | 1.3 | 50 | 0 | 97 | 80 | 120 | | | |
| Nitrate (NO3) - N | 53 | 1.3 | 50 | 0.944 | 104 | 80 | 120 | | | |
| Sulfate (SO4) | 3320 | 2.5 | 1000 | 2400 | 92 | 80 | 120 | | | |

Sample Matrix Spike Duplicate

Type **LFMD** Test Code: **EPA Method 300.0**

File ID: **36**

Batch ID: **24344**

Analysis Date: **05/27/2010 16:00**

Sample ID: **10052626-01ALFMD**

Units : **mg/L**

Run ID: **IC_1_100527A**

Prep Date: **05/27/2010 11:18**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Fluoride | 49.9 | 1.3 | 50 | 2.315 | 95 | 80 | 120 | 51.03 | 2.2(15) | |
| Chloride | 613 | 2.5 | 500 | 97.34 | 103 | 80 | 120 | 624.6 | 1.9(15) | |
| Nitrite (NO2) - N | 49.2 | 1.3 | 50 | 0 | 98 | 80 | 120 | 48.36 | 1.8(15) | |
| Nitrate (NO3) - N | 54.9 | 1.3 | 50 | 0.944 | 108 | 80 | 120 | 53.01 | 3.5(15) | |
| Sulfate (SO4) | 2960 | 2.5 | 1000 | 2400 | 56 | 80 | 120 | 3322 | 11.4(15) | M2 |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M2 = Matrix spike recovery was low, the method control sample recovery was acceptable.



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Date:
03-Jun-10

QC Summary Report

Work Order:
10052742

Laboratory Control Spike

Type **LCS** Test Code: **SM2320B**

File ID: Batch ID: **W0602AL** Analysis Date: **06/02/2010 11:38**

Sample ID: **LCS-W0602AL** Units : **mg/L** Run ID: **WETLAB_100602A** Prep Date: **06/02/2010 11:38**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Alkalinity, Total (As CaCO ₃ at pH 4.5) | 258 | 10 | 250 | | 103 | 80 | 120 | | | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
03-Jun-10

QC Summary Report

Work Order:
10052742

Method Blank

Type **MBLK** Test Code: **SM4500-NH3D**

| | | | | | | | | | | |
|--------------------------------|---------------------|-----|-------------------------------|--------------------------|------------------------------------|--|---------|-----------|-------------|------|
| File ID: | | | | Batch ID: W0521AM | | Analysis Date: 05/21/2010 11:38 | | | | |
| Sample ID: MBLK-W0521AM | Units : mg/L | | Run ID: WETLAB_100521F | | Prep Date: 05/21/2010 11:38 | | | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Nitrogen, Ammonia (As N) | ND | 0.1 | | | | | | | | |

Laboratory Control Spike

Type **LCS** Test Code: **SM4500-NH3D**

| | | | | | | | | | | |
|-------------------------------|---------------------|-----|-------------------------------|--------------------------|------------------------------------|--|---------|-----------|-------------|------|
| File ID: | | | | Batch ID: W0521AM | | Analysis Date: 05/21/2010 11:35 | | | | |
| Sample ID: LCS-W0521AM | Units : mg/L | | Run ID: WETLAB_100521F | | Prep Date: 05/21/2010 11:35 | | | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Nitrogen, Ammonia (As N) | 5.07 | 0.1 | 5 | | 101 | 70 | 130 | | | |

Sample Matrix Spike

Type **MS** Test Code: **SM4500-NH3D**

| | | | | | | | | | | |
|----------------------------------|---------------------|-----|-------------------------------|--------------------------|------------------------------------|--|---------|-----------|-------------|------|
| File ID: | | | | Batch ID: W0521AM | | Analysis Date: 05/21/2010 11:45 | | | | |
| Sample ID: 10052020-03AMS | Units : mg/L | | Run ID: WETLAB_100521F | | Prep Date: 05/21/2010 11:45 | | | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Nitrogen, Ammonia (As N) | 4.72 | 0.1 | 5 | 0 | 94 | 65 | 138 | | | |

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **SM4500-NH3D**

| | | | | | | | | | | |
|-----------------------------------|---------------------|-----|-------------------------------|--------------------------|------------------------------------|--|---------|-----------|-------------|------|
| File ID: | | | | Batch ID: W0521AM | | Analysis Date: 05/21/2010 11:51 | | | | |
| Sample ID: 10052020-03AMSD | Units : mg/L | | Run ID: WETLAB_100521F | | Prep Date: 05/21/2010 11:51 | | | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Nitrogen, Ammonia (As N) | 4.91 | 0.1 | 5 | 0 | 98 | 65 | 138 | 4.72 | 4.0(20) | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
04-Jun-10

QC Summary Report

Work Order:
10052742

Method Blank

Type: MBLK Test Code: EPA Method SW8270C

File ID: 10060226.D

Batch ID: 24364

Analysis Date: 06/03/2010 03:21

Sample ID: MBLK-24364

Units: µg/L

Run ID: MSD_16_100601A

Prep Date: 06/01/2010 12:00

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Phenol | ND | 10 | | | | | | | | |
| 2-Chlorophenol | ND | 10 | | | | | | | | |
| 2-Nitrophenol | ND | 10 | | | | | | | | |
| 2,4-Dimethylphenol | ND | 10 | | | | | | | | |
| 2,4-Dichlorophenol | ND | 10 | | | | | | | | |
| 4-Chloro-3-methylphenol | ND | 20 | | | | | | | | |
| 2,4,6-Trichlorophenol | ND | 10 | | | | | | | | |
| 2,4-Dinitrophenol | ND | 100 | | | | | | | | |
| 4-Nitrophenol | ND | 50 | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | ND | 100 | | | | | | | | |
| Pentachlorophenol | ND | 50 | | | | | | | | |
| Surr: 2-Fluorophenol | 101 | | 200 | | 51 | 41 | 130 | | | |
| Surr: Phenol-d5 | 72.3 | | 200 | | 36 | 25 | 130 | | | |
| Surr: 2,4,6-Tribromophenol | 143 | | 200 | | 72 | 61 | 138 | | | |

Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8270C

File ID: 10060227.D

Batch ID: 24364

Analysis Date: 06/03/2010 03:47

Sample ID: LCS-24364

Units: µg/L

Run ID: MSD_16_100601A

Prep Date: 06/01/2010 12:00

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Phenol | 38.2 | 10 | 100 | | 38 | 20 | 130 | | | |
| 2-Chlorophenol | 81.2 | 10 | 100 | | 81 | 58 | 130 | | | |
| 4-Chloro-3-methylphenol | 90.1 | 20 | 100 | | 90 | 52 | 130 | | | |
| 4-Nitrophenol | 175 | 50 | 400 | | 44 | 20 | 130 | | | |
| Pentachlorophenol | 392 | 50 | 400 | | 98 | 47 | 132 | | | |
| Surr: 2-Fluorophenol | 115 | | 200 | | 58 | 41 | 130 | | | |
| Surr: Phenol-d5 | 85.4 | | 200 | | 43 | 25 | 130 | | | |
| Surr: 2,4,6-Tribromophenol | 213 | | 200 | | 107 | 61 | 138 | | | |

Laboratory Control Spike Duplicate

Type: LCSD Test Code: EPA Method SW8270C

File ID: 10060228.D

Batch ID: 24364

Analysis Date: 06/03/2010 04:13

Sample ID: LCSD-24364

Units: µg/L

Run ID: MSD_16_100601A

Prep Date: 06/01/2010 12:00

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Phenol | 38.5 | 10 | 100 | | 38 | 20 | 130 | 38.19 | 0.7(26) | |
| 2-Chlorophenol | 83.5 | 10 | 100 | | 83 | 58 | 130 | 81.23 | 2.7(32) | |
| 4-Chloro-3-methylphenol | 91.2 | 20 | 100 | | 91 | 52 | 130 | 90.09 | 1.2(26) | |
| 4-Nitrophenol | 166 | 50 | 400 | | 41 | 20 | 130 | 175.4 | 5.7(40) | |
| Pentachlorophenol | 381 | 50 | 400 | | 95 | 47 | 132 | 391.9 | 2.9(33) | |
| Surr: 2-Fluorophenol | 118 | | 200 | | 59 | 41 | 130 | | | |
| Surr: Phenol-d5 | 84.8 | | 200 | | 42 | 25 | 130 | | | |
| Surr: 2,4,6-Tribromophenol | 202 | | 200 | | 101 | 61 | 138 | | | |

Sample Matrix Spike

Type: MS Test Code: EPA Method SW8270C

File ID: 10060232.D

Batch ID: 24364

Analysis Date: 06/03/2010 05:56

Sample ID: 10052741-17AMS

Units: µg/L

Run ID: MSD_16_100601A

Prep Date: 06/01/2010 12:00

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Phenol | 35.8 | 10 | 100 | | 0 | 36 | 10 | 130 | | |
| 2-Chlorophenol | 81.2 | 10 | 100 | | 0 | 81 | 40 | 130 | | |
| 4-Chloro-3-methylphenol | 85.4 | 20 | 100 | | 0 | 85 | 42 | 130 | | |
| 4-Nitrophenol | 152 | 50 | 400 | | 0 | 38 | 10 | 130 | | |
| Pentachlorophenol | 379 | 50 | 400 | | 0 | 95 | 33 | 155 | | |
| Surr: 2-Fluorophenol | 113 | | 200 | | 56 | 41 | 130 | | | |
| Surr: Phenol-d5 | 80.3 | | 200 | | 40 | 25 | 130 | | | |
| Surr: 2,4,6-Tribromophenol | 195 | | 200 | | 98 | 61 | 138 | | | |



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Date:
04-Jun-10

QC Summary Report

Work Order:
10052742

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
03-Jun-10

QC Summary Report

Work Order:
10052742

Method Blank

Type **MBLK** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **052810.B\353.D**

Batch ID: **24353**

Analysis Date: **05/29/2010 10:57**

Sample ID: **MB-24353**

Units : **mg/L**

Run ID: **ICP/MS_100528C**

Prep Date: **05/28/2010 11:35**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------|--------|-------|--------|-----------|------|---------|---------|-----------|-------------|------|
| Boron (B) | ND | 0.1 | | | | | | | | |
| Sodium (Na) | ND | 0.5 | | | | | | | | |
| Chromium (Cr) | ND | 0.005 | | | | | | | | |
| Manganese (Mn) | ND | 0.005 | | | | | | | | |
| Iron (Fe) | ND | 0.3 | | | | | | | | |
| Nickel (Ni) | ND | 0.01 | | | | | | | | |
| Copper (Cu) | ND | 0.01 | | | | | | | | |
| Zinc (Zn) | ND | 0.1 | | | | | | | | |
| Arsenic (As) | ND | 0.005 | | | | | | | | |
| Selenium (Se) | ND | 0.005 | | | | | | | | |
| Silver (Ag) | ND | 0.005 | | | | | | | | |
| Cadmium (Cd) | ND | 0.005 | | | | | | | | |
| Barium (Ba) | ND | 0.005 | | | | | | | | |
| Mercury (Hg) | ND | 0.001 | | | | | | | | |
| Lead (Pb) | ND | 0.005 | | | | | | | | |

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **052810.B\353L1.D**

Batch ID: **24353**

Analysis Date: **05/29/2010 11:02**

Sample ID: **LCS-24353**

Units : **mg/L**

Run ID: **ICP/MS_100528C**

Prep Date: **05/28/2010 11:35**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------|--------|-------|--------|-----------|------|---------|---------|-----------|-------------|------|
| Boron (B) | 0.226 | 0.1 | 0.25 | | 90 | 74 | 132 | | | |
| Sodium (Na) | 50.7 | 0.5 | 50 | | 101 | 80 | 118 | | | |
| Chromium (Cr) | 0.252 | 0.005 | 0.25 | | 101 | 80 | 124 | | | |
| Manganese (Mn) | 2.41 | 0.005 | 2.5 | | 96 | 83 | 120 | | | |
| Iron (Fe) | 52.9 | 0.3 | 50 | | 106 | 83 | 119 | | | |
| Nickel (Ni) | 0.245 | 0.01 | 0.25 | | 98 | 83 | 123 | | | |
| Copper (Cu) | 0.239 | 0.01 | 0.25 | | 95 | 85 | 123 | | | |
| Zinc (Zn) | 0.233 | 0.1 | 0.25 | | 93 | 82 | 123 | | | |
| Arsenic (As) | 0.237 | 0.005 | 0.25 | | 95 | 85 | 118 | | | |
| Selenium (Se) | 0.232 | 0.005 | 0.25 | | 93 | 85 | 118 | | | |
| Silver (Ag) | 0.237 | 0.005 | 0.25 | | 95 | 79 | 118 | | | |
| Cadmium (Cd) | 0.232 | 0.005 | 0.25 | | 93 | 85 | 121 | | | |
| Barium (Ba) | 2.5 | 0.005 | 2.5 | | 100 | 85 | 132 | | | |
| Mercury (Hg) | 0.0101 | 0.001 | 0.01 | | 101 | 70 | 122 | | | |
| Lead (Pb) | 0.25 | 0.005 | 0.25 | | 99.8 | 85 | 120 | | | |

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **052810.B\1099SMPL.D**

Batch ID: **24353**

Analysis Date: **05/28/2010 21:52**

Sample ID: **10052741-17AMS**

Units : **mg/L**

Run ID: **ICP/MS_100528C**

Prep Date: **05/28/2010 11:35**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------|---------|-------|--------|-----------|------|---------|---------|-----------|-------------|------|
| Boron (B) | 1.68 | 0.1 | 0.25 | 1.537 | 56 | 63 | 150 | | | M3 |
| Sodium (Na) | 452 | 0.5 | 50 | 430.1 | 44 | 61 | 135 | | | M3 |
| Chromium (Cr) | 0.326 | 0.005 | 0.25 | 0.1278 | 79 | 70 | 133 | | | |
| Manganese (Mn) | 6.96 | 0.005 | 2.5 | 5.511 | 58 | 70 | 130 | | | M2 |
| Iron (Fe) | 255 | 0.3 | 50 | 227.7 | 54 | 70 | 130 | | | M3 |
| Nickel (Ni) | 0.306 | 0.01 | 0.25 | 0.09479 | 84 | 70 | 132 | | | |
| Copper (Cu) | 0.453 | 0.01 | 0.25 | 0.2403 | 85 | 70 | 131 | | | |
| Zinc (Zn) | 0.709 | 0.1 | 0.25 | 0.506 | 81 | 65 | 143 | | | |
| Arsenic (As) | 0.67 | 0.005 | 0.25 | 0.449 | 88 | 70 | 130 | | | |
| Selenium (Se) | 0.221 | 0.005 | 0.25 | 0 | 88 | 70 | 131 | | | |
| Silver (Ag) | 0.245 | 0.005 | 0.25 | 0 | 98 | 70 | 130 | | | |
| Cadmium (Cd) | 0.245 | 0.005 | 0.25 | 0 | 98 | 70 | 130 | | | |
| Barium (Ba) | 4.79 | 0.005 | 2.5 | 2.401 | 96 | 70 | 143 | | | |
| Mercury (Hg) | 0.00541 | 0.001 | 0.005 | 0 | 108 | 68 | 130 | | | |
| Lead (Pb) | 0.393 | 0.005 | 0.25 | 0.1531 | 96 | 70 | 130 | | | |



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Date:
03-Jun-10

QC Summary Report

Work Order:
10052742

Sample Matrix Spike Duplicate

Type **MSD**

Test Code: **EPA Method SW6020 / SW6020A**

File ID: **052810.B\100SMPL.D**

Batch ID: **24353**

Analysis Date: **05/28/2010 21:58**

Sample ID: **10052741-17AMSD**

Units : **mg/L**

Run ID: **ICP/MS_100528C**

Prep Date: **05/28/2010 11:35**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------|---------|-------|--------|-----------|------|---------|---------|-----------|-------------|------|
| Boron (B) | 1.71 | 0.1 | 0.25 | 1.537 | 70 | 63 | 150 | 1.678 | 2.0(20) | |
| Sodium (Na) | 460 | 0.5 | 50 | 430.1 | 59 | 61 | 135 | 452.3 | 1.6(20) | M3 |
| Chromium (Cr) | 0.338 | 0.005 | 0.25 | 0.1278 | 84 | 70 | 133 | 0.3259 | 3.6(20) | |
| Manganese (Mn) | 7.37 | 0.005 | 2.5 | 5.511 | 74 | 70 | 130 | 6.955 | 5.8(20) | |
| Iron (Fe) | 260 | 0.3 | 50 | 227.7 | 64 | 70 | 130 | 254.9 | 1.9(20) | M3 |
| Nickel (Ni) | 0.313 | 0.01 | 0.25 | 0.09479 | 87 | 70 | 132 | 0.3055 | 2.3(20) | |
| Copper (Cu) | 0.466 | 0.01 | 0.25 | 0.2403 | 90 | 70 | 131 | 0.4525 | 2.9(20) | |
| Zinc (Zn) | 0.718 | 0.1 | 0.25 | 0.506 | 85 | 65 | 143 | 0.7087 | 1.3(20) | |
| Arsenic (As) | 0.663 | 0.005 | 0.25 | 0.449 | 86 | 70 | 130 | 0.6702 | 1.1(20) | |
| Selenium (Se) | 0.227 | 0.005 | 0.25 | 0 | 91 | 70 | 131 | 0.2209 | 2.5(20) | |
| Silver (Ag) | 0.253 | 0.005 | 0.25 | 0 | 101 | 70 | 130 | 0.2454 | 2.9(20) | |
| Cadmium (Cd) | 0.255 | 0.005 | 0.25 | 0 | 102 | 70 | 130 | 0.245 | 3.8(20) | |
| Barium (Ba) | 4.86 | 0.005 | 2.5 | 2.401 | 98 | 70 | 143 | 4.79 | 1.5(20) | |
| Mercury (Hg) | 0.00561 | 0.001 | 0.005 | 0 | 112 | 68 | 130 | 0.005407 | 3.6(20) | |
| Lead (Pb) | 0.391 | 0.005 | 0.25 | 0.1531 | 95 | 70 | 130 | 0.3927 | 0.5(20) | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M2 = Matrix spike recovery was low, the method control sample recovery was acceptable.

M3 = The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to the spike level. The method control sample recovery was acceptable.



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Date:
03-Jun-10

QC Summary Report

Work Order:
10052742

Method Blank

Type **MBLK** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **052810.B\018SMPL.D**

Batch ID: **24346**

Analysis Date: **05/28/2010 14:09**

Sample ID: **MB-24346**

Units : **mg/Kg**

Run ID: **ICP/MS_100528A**

Prep Date: **05/27/2010 14:51**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Chromium (Cr) | ND | 1 | | | | | | | | |
| Arsenic (As) | ND | 1 | | | | | | | | |
| Selenium (Se) | ND | 1 | | | | | | | | |
| Silver (Ag) | ND | 1 | | | | | | | | |
| Cadmium (Cd) | ND | 1 | | | | | | | | |
| Barium (Ba) | ND | 1 | | | | | | | | |
| Mercury (Hg) | ND | 0.2 | | | | | | | | |
| Lead (Pb) | ND | 1 | | | | | | | | |

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **052810.B\019_LCS.D**

Batch ID: **24346**

Analysis Date: **05/28/2010 14:15**

Sample ID: **LCS-24346**

Units : **mg/Kg**

Run ID: **ICP/MS_100528A**

Prep Date: **05/27/2010 14:51**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Chromium (Cr) | 24.9 | 1 | 25 | | 99 | 75 | 120 | | | |
| Arsenic (As) | 25.9 | 1 | 25 | | 104 | 80 | 120 | | | |
| Selenium (Se) | 25.1 | 1 | 25 | | 100 | 80 | 120 | | | |
| Silver (Ag) | 26.7 | 1 | 25 | | 107 | 62 | 132 | | | |
| Cadmium (Cd) | 25.3 | 1 | 25 | | 101 | 80 | 120 | | | |
| Barium (Ba) | 253 | 1 | 250 | | 101 | 78 | 123 | | | |
| Mercury (Hg) | 0.562 | 0.2 | 0.5 | | 112 | 68 | 140 | | | |
| Lead (Pb) | 25.4 | 1 | 25 | | 101 | 80 | 122 | | | |

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **052810.B\022SMPL.D**

Batch ID: **24346**

Analysis Date: **05/28/2010 14:31**

Sample ID: **10052741-01AMS**

Units : **mg/Kg**

Run ID: **ICP/MS_100528A**

Prep Date: **05/27/2010 14:51**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Chromium (Cr) | 36 | 1 | 25 | 13.16 | 91 | 50 | 150 | | | |
| Arsenic (As) | 30.1 | 1 | 25 | 4.818 | 101 | 60 | 130 | | | |
| Selenium (Se) | 25.3 | 1 | 25 | 0 | 101 | 69 | 130 | | | |
| Silver (Ag) | 27.9 | 1 | 25 | 0 | 111 | 62 | 132 | | | |
| Cadmium (Cd) | 26.3 | 1 | 25 | 0 | 105 | 70 | 130 | | | |
| Barium (Ba) | 375 | 1 | 250 | 106.1 | 107 | 58 | 150 | | | |
| Mercury (Hg) | 0.619 | 0.2 | 0.5 | 0 | 124 | 65 | 150 | | | |
| Lead (Pb) | 33.1 | 1 | 25 | 7.004 | 104 | 68 | 141 | | | |

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **052810.B\023SMPL.D**

Batch ID: **24346**

Analysis Date: **05/28/2010 14:37**

Sample ID: **10052741-01AMSD**

Units : **mg/Kg**

Run ID: **ICP/MS_100528A**

Prep Date: **05/27/2010 14:51**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Chromium (Cr) | 37.2 | 1 | 25 | 13.16 | 96 | 50 | 150 | 36.02 | 3.1(20) | |
| Arsenic (As) | 28.6 | 1 | 25 | 4.818 | 95 | 60 | 130 | 30.12 | 5.4(20) | |
| Selenium (Se) | 31.7 | 1 | 25 | 0 | 127 | 69 | 130 | 25.33 | 22.4(20) | R5 |
| Silver (Ag) | 26.9 | 1 | 25 | 0 | 107 | 62 | 132 | 27.86 | 3.7(20) | |
| Cadmium (Cd) | 25.3 | 1 | 25 | 0 | 101 | 70 | 130 | 26.27 | 4.0(20) | |
| Barium (Ba) | 367 | 1 | 250 | 106.1 | 104 | 58 | 150 | 374.6 | 2.1(20) | |
| Mercury (Hg) | 0.58 | 0.2 | 0.5 | 0 | 116 | 65 | 150 | 0.6194 | 6.6(20) | |
| Lead (Pb) | 31.1 | 1 | 25 | 7.004 | 96 | 68 | 141 | 33.12 | 6.2(20) | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

R5 = MS/MSD RPD exceeded the laboratory control limit. Recovery met acceptance criteria.



Alpha Analytical, Inc.

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Date:
03-Jun-10

QC Summary Report

Work Order:
10052742

Method Blank

| Method Blank | | Type | Test Code: SM4500-NORGC / SM4500NH3D | | | | | | | |
|---------------------------|--------------|--------------|--------------------------------------|-----------|------|---------|---------------------------------|-----------|-------------|------|
| File ID: | | | Batch ID: W0601TK | | | | Analysis Date: 06/01/2010 12:38 | | | |
| Sample ID: | MBLK-W0601TK | Units : mg/L | Run ID: WETLAB_100601C | | | | Prep Date: 06/01/2010 12:38 | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Nitrogen, Kjeldahl, Total | ND | 0.25 | | | | | | | | |

Laboratory Control Spike

| Laboratory Control Spike | | Type | Test Code: SM4500-NORGC / SM4500NH3D | | | | | | | |
|---------------------------|-------------|--------------|--------------------------------------|-----------|------|---------|---------------------------------|-----------|-------------|------|
| File ID: | | | Batch ID: W0601TK | | | | Analysis Date: 06/01/2010 12:35 | | | |
| Sample ID: | LCS-W0601TK | Units : mg/L | Run ID: WETLAB_100601C | | | | Prep Date: 06/01/2010 12:35 | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Nitrogen, Kjeldahl, Total | 4.95 | 0.25 | 5 | | 99 | 65 | 135 | | | |

Sample Matrix Spike

| Sample Matrix Spike | | Type | Test Code: SM4500-NORGC / SM4500NH3D | | | | | | | |
|---------------------------|----------------|--------------|--------------------------------------|-----------|------|---------|---------------------------------|-----------|-------------|------|
| File ID: | | | Batch ID: W0601TK | | | | Analysis Date: 06/01/2010 12:50 | | | |
| Sample ID: | 10051921-01AMS | Units : mg/L | Run ID: WETLAB_100601C | | | | Prep Date: 06/01/2010 12:50 | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Nitrogen, Kjeldahl, Total | 33 | 1.3 | 5 | | 25 | 160 | 55 | 142 | | M3 |

Sample Matrix Spike Duplicate

| Sample Matrix Spike Duplicate | | Type | Test Code: SM4500-NORGC / SM4500NH3D | | | | | | | |
|-------------------------------|-----------------|--------------|--------------------------------------|-----------|------|---------|---------------------------------|-----------|-------------|----------|
| File ID: | | | Batch ID: W0601TK | | | | Analysis Date: 06/01/2010 12:53 | | | |
| Sample ID: | 10051921-01AMSD | Units : mg/L | Run ID: WETLAB_100601C | | | | Prep Date: 06/01/2010 12:53 | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Nitrogen, Kjeldahl, Total | 28 | 1.3 | 5 | | 25 | 60 | 55 | 142 | 33 | 16.4(20) |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M3 = The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to the spike level. The method control sample recovery was acceptable.



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Date:
04-Jun-10

QC Summary Report

Work Order:
10052742

Method Blank

Type: **MBLK** Test Code: **EPA Method 1664A**

| | | | |
|--------------------------------|---------------------|-------------------------------|--|
| File ID: | | Batch ID: W0602OG | Analysis Date: 06/02/2010 00:00 |
| Sample ID: MBLK-W0602OG | Units : mg/L | Run ID: WETLAB_100602C | Prep Date: 06/02/2010 00:00 |
| Analyte | Result | PQL | SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual |
| Oil & Grease, HEM | ND | 5 | |

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method 1664A**

| | | | |
|-------------------------------|---------------------|-------------------------------|--|
| File ID: | | Batch ID: W0602OG | Analysis Date: 06/02/2010 00:00 |
| Sample ID: LCS-W0602OG | Units : mg/L | Run ID: WETLAB_100602C | Prep Date: 06/02/2010 00:00 |
| Analyte | Result | PQL | SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual |
| Oil & Grease, HEM | 39.5 | 5 | 40 99 78 114 |

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method 1664A**

| | | | |
|----------------------------------|---------------------|-------------------------------|--|
| File ID: | | Batch ID: W0602OG | Analysis Date: 06/02/2010 00:00 |
| Sample ID: 10052504-04AMS | Units : mg/L | Run ID: WETLAB_100602C | Prep Date: 06/02/2010 00:00 |
| Analyte | Result | PQL | SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual |
| Oil & Grease, HEM | 40.5 | 5 | 40 0 101 78 114 |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

HEM = Hexane Extractable Material



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Date:
02-Jun-10

QC Summary Report

Work Order:
10052742

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW9045D**

File ID:

Batch ID: **S0601PH**

Analysis Date: **06/01/2010 15:15**

Sample ID: **LCS-S0601PH**

Units : **pH Units** Run ID: **WETLAB_100601B**

Prep Date: **06/01/2010 15:15**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| pH | 4.94 | 1.7 | 5 | | 99 | 90 | 110 | | | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
01-Jun-10

QC Summary Report

Work Order:
10052742

Laboratory Control Spike

Type **LCS**

Test Code: **EPA Method 150.2 / SM4500HB / SW9040C**

File ID:

Batch ID: **W0527PH**

Analysis Date: **05/27/2010 14:21**

Sample ID: **LCS-W0527PH**

Units : **pH Units**

Run ID: **WETLAB_100527C**

Prep Date: **05/27/2010 14:21**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| pH | 5.1 | 1.7 | 5 | | 102 | 90 | 110 | | | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
03-Jun-10

QC Summary Report

Work Order:
10052742

Method Blank

| File ID: | Type | MBLK | Test Code: | EPA Method 365.3 / SM4500PE | | | | | | |
|--------------------------|---------|------|------------|-----------------------------|------|---------|------------|------------------|-------------|------|
| Sample ID: | Units : | mg/L | Run ID: | WETLAB_100602B | | | Prep Date: | 06/02/2010 00:00 | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Phosphorus, Total (As P) | ND | | 0.1 | | | | | | | |

Laboratory Control Spike

| File ID: | Type | LCS | Test Code: | EPA Method 365.3 / SM4500PE | | | | | | |
|--------------------------|---------|------|------------|-----------------------------|------|---------|------------|------------------|-------------|------|
| Sample ID: | Units : | mg/L | Run ID: | WETLAB_100602B | | | Prep Date: | 06/02/2010 00:00 | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Phosphorus, Total (As P) | 0.972 | 0.1 | 1 | | 97 | 73 | 127 | | | |

Sample Matrix Spike

| File ID: | Type | MS | Test Code: | EPA Method 365.3 / SM4500PE | | | | | | |
|--------------------------|---------|------|------------|-----------------------------|------|---------|------------|------------------|-------------|------|
| Sample ID: | Units : | mg/L | Run ID: | WETLAB_100602B | | | Prep Date: | 06/02/2010 00:00 | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Phosphorus, Total (As P) | 1.08 | 0.1 | 1 | 0 | 108 | 73 | 127 | | | |

Sample Matrix Spike Duplicate

| File ID: | Type | MSD | Test Code: | EPA Method 365.3 / SM4500PE | | | | | | |
|--------------------------|---------|------|------------|-----------------------------|------|---------|------------|------------------|-------------|------|
| Sample ID: | Units : | mg/L | Run ID: | WETLAB_100602B | | | Prep Date: | 06/02/2010 00:00 | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Phosphorus, Total (As P) | 1.1 | 0.1 | 1 | 0 | 110 | 73 | 127 | 1.08 | 1.8(20) | |

Comments:

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Date:
03-Jun-10

QC Summary Report

Work Order:
10052742

Method Blank

Type **MBLK** Test Code: **SM2540C**

File ID: Batch ID: **W0525DS** Analysis Date: **05/26/2010 00:00**

Sample ID: **MBLK-W0525DS** Units : **mg/L** Run ID: **WETLAB_100525A** Prep Date: **05/26/2010 00:00**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
|---------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|

| | | | | | | | | | | |
|-------------------------------|----|----|--|--|--|--|--|--|--|--|
| Solids, Total Dissolved (TDS) | ND | 10 | | | | | | | | |
|-------------------------------|----|----|--|--|--|--|--|--|--|--|

Laboratory Control Spike

Type **LCS** Test Code: **SM2540C**

File ID: Batch ID: **W0525DS** Analysis Date: **05/26/2010 00:00**

Sample ID: **LCS-W0525DS** Units : **mg/L** Run ID: **WETLAB_100525A** Prep Date: **05/26/2010 00:00**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
|---------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|

| | | | | | | | | | | |
|-------------------------------|----|----|-----|--|----|----|-----|--|--|--|
| Solids, Total Dissolved (TDS) | 91 | 10 | 100 | | 91 | 80 | 120 | | | |
|-------------------------------|----|----|-----|--|----|----|-----|--|--|--|

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:

04-Jun-10

QC Summary Report

Work Order:

10052742

Method Blank

Type: MBLK Test Code: EPA Method SW8015B / E

File ID: 7A05271072.D

Batch ID: 24358

Analysis Date: 05/30/2010 15:26

Sample ID: MBLK-24358

Units : mg/Kg

Run ID: FID_7_100528B

Prep Date: 05/28/2010 15:05

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-E (DRO) | ND | 10 | | | | | | | | |
| TPH-E (ORO) | ND | 10 | | | | | | | | |
| Surr: Nonane | 6.72 | | 6 | | 112 | 67 | 156 | | | |

Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8015B / E

File ID: 7A05271073.D

Batch ID: 24358

Analysis Date: 05/30/2010 15:52

Sample ID: LCS-24358

Units : mg/Kg

Run ID: FID_7_100528B

Prep Date: 05/28/2010 15:05

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-E (DRO) | 105 | 5 | 100 | | 105 | 70 | 130 | | | |
| Surr: Nonane | 6.42 | | 6 | | 107 | 67 | 156 | | | |

Sample Matrix Spike

Type: MS Test Code: EPA Method SW8015B / E

File ID: 7A05271085.D

Batch ID: 24358

Analysis Date: 05/30/2010 21:13

Sample ID: 10052840-01AMS

Units : mg/Kg

Run ID: FID_7_100528B

Prep Date: 05/28/2010 15:05

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-E (DRO) | 112 | 5 | 100 | 7.082 | 105 | 51 | 141 | | | |
| Surr: Nonane | 6.5 | | 6 | | 108 | 67 | 156 | | | |

Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8015B / E

File ID: 7A05271086.D

Batch ID: 24358

Analysis Date: 05/30/2010 21:39

Sample ID: 10052840-01AMSD

Units : mg/Kg

Run ID: FID_7_100528B

Prep Date: 05/28/2010 15:05

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-E (DRO) | 113 | 5 | 100 | 7.082 | 106 | 51 | 141 | 111.7 | 1.4(40) | |
| Surr: Nonane | 7.75 | | 6 | | 129 | 67 | 156 | | | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:

04-Jun-10

QC Summary Report

Work Order:

10052742

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8015B / E**

File ID: **1A05281038.D**

Batch ID: **24355**

Analysis Date: **05/29/2010 05:05**

Sample ID: **MBLK-24355**

Units : **mg/L**

Run ID: **FID_1_100528A**

Prep Date: **05/28/2010 13:43**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-E (DRO) | ND | 0.5 | | | | | | | | |
| TPH-E (ORO) | ND | 0.5 | | | | | | | | |
| Surr: Nonane | 0.156 | | 0.15 | | 104 | 57 | 147 | | | |

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8015B / E**

File ID: **1A05281039.D**

Batch ID: **24355**

Analysis Date: **05/29/2010 05:30**

Sample ID: **LCS-24355**

Units : **mg/L**

Run ID: **FID_1_100528A**

Prep Date: **05/28/2010 13:43**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------|--------|------|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-E (DRO) | 2.62 | 0.05 | 2.5 | | 105 | 67 | 130 | | | |
| Surr: Nonane | 0.155 | | 0.15 | | 103 | 57 | 147 | | | |

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8015B / E**

File ID: **1A05281041.D**

Batch ID: **24355**

Analysis Date: **05/29/2010 06:20**

Sample ID: **10052726-13AMS**

Units : **mg/L**

Run ID: **FID_1_100528A**

Prep Date: **05/28/2010 13:43**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------|--------|------|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-E (DRO) | 2.42 | 0.05 | 2.5 | 0 | 97 | 49 | 150 | | | |
| Surr: Nonane | 0.108 | | 0.15 | | 72 | 57 | 147 | | | |

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8015B / E**

File ID: **1A05281042.D**

Batch ID: **24355**

Analysis Date: **05/29/2010 06:46**

Sample ID: **10052726-13AMSD**

Units : **mg/L**

Run ID: **FID_1_100528A**

Prep Date: **05/28/2010 13:43**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------|--------|------|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-E (DRO) | 2.37 | 0.05 | 2.5 | 0 | 95 | 49 | 150 | 2.422 | 2.1(38) | |
| Surr: Nonane | 0.093 | | 0.15 | | 62 | 57 | 147 | | | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
04-Jun-10

QC Summary Report

Work Order:
10052742

Method Blank

Type: MBLK Test Code: EPA Method SW8015

File ID: C:\HPCHEM\MS06\DATA\100601\10060138.D

Batch ID: MS06S4357B

Analysis Date: 06/02/2010 00:28

Sample ID: MBLK MS06S4357B

Units: mg/Kg

Run ID: MSD_06_100601A

Prep Date: 06/02/2010 00:28

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-P (GRO) | ND | 10 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.241 | | 0.2 | | 121 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.183 | | 0.2 | | 92 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.204 | | 0.2 | | 102 | 70 | 130 | | | |

Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8015

File ID: C:\HPCHEM\MS06\DATA\100601\10060142.D

Batch ID: MS06S4357B

Analysis Date: 06/02/2010 02:06

Sample ID: GLCS MS08S4357B

Units: mg/Kg

Run ID: MSD_06_100601A

Prep Date: 06/02/2010 02:06

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-P (GRO) | 21 | 2 | 16 | | 131 | 70 | 139 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.493 | | 0.4 | | 123 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.386 | | 0.4 | | 97 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.44 | | 0.4 | | 110 | 70 | 130 | | | |

Sample Matrix Spike

Type: MS Test Code: EPA Method SW8015

File ID: C:\HPCHEM\MS06\DATA\100601\10060143.D

Batch ID: MS06S4357B

Analysis Date: 06/02/2010 02:31

Sample ID: 10052742-04AGS

Units: mg/Kg

Run ID: MSD_06_100601A

Prep Date: 06/02/2010 02:31

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-P (GRO) | 16.5 | 2 | 16 | 0 | 103 | 57 | 147 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.501 | | 0.4 | | 125 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.383 | | 0.4 | | 96 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.426 | | 0.4 | | 107 | 70 | 130 | | | |

Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8015

File ID: C:\HPCHEM\MS06\DATA\100601\10060144.D

Batch ID: MS06S4357B

Analysis Date: 06/02/2010 02:56

Sample ID: 10052742-04AGSD

Units: mg/Kg

Run ID: MSD_06_100601A

Prep Date: 06/02/2010 02:56

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-P (GRO) | 17.4 | 2 | 16 | 0 | 108 | 57 | 147 | 16.51 | 5.0(20) | |
| Surr: 1,2-Dichloroethane-d4 | 0.498 | | 0.4 | | 124 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.375 | | 0.4 | | 94 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.433 | | 0.4 | | 108 | 70 | 130 | | | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
04-Jun-10

QC Summary Report

Work Order:
10052742

Method Blank

Type: MBLK Test Code: EPA Method SW8015

File ID: C:\HPCHEM\MS06\DATA\100528\10052805.D

Batch ID: MS06W0528B

Analysis Date: 05/28/2010 10:34

Sample ID: MBLK MS06W0528B

Units : mg/L

Run ID: MSD_06_100528A

Prep Date: 05/28/2010 10:34

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|---------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-P (GRO) | ND | 0.5 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.0119 | | 0.01 | | 119 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.00974 | | 0.01 | | 97 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.0103 | | 0.01 | | 103 | 70 | 130 | | | |

Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8015

File ID: C:\HPCHEM\MS06\DATA\100528\10052804.D

Batch ID: MS06W0528B

Analysis Date: 05/28/2010 10:09

Sample ID: GLCS MS06W0528B

Units : mg/L

Run ID: MSD_06_100528A

Prep Date: 05/28/2010 10:09

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|---------|------|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-P (GRO) | 0.383 | 0.05 | 0.4 | | 96 | 70 | 130 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.0114 | | 0.01 | | 114 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.00956 | | 0.01 | | 96 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.0108 | | 0.01 | | 108 | 70 | 130 | | | |

Sample Matrix Spike

Type: MS Test Code: EPA Method SW8015

File ID: C:\HPCHEM\MS06\DATA\100528\10052818.D

Batch ID: MS06W0528B

Analysis Date: 05/28/2010 15:55

Sample ID: 10052625-01AGS

Units : mg/L

Run ID: MSD_06_100528A

Prep Date: 05/28/2010 15:55

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|--------|------|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-P (GRO) | 2.12 | 0.25 | 2 | 0 | 106 | 58 | 135 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.0573 | | 0.05 | | 115 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.0474 | | 0.05 | | 95 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.0535 | | 0.05 | | 107 | 70 | 130 | | | |

Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8015

File ID: C:\HPCHEM\MS06\DATA\100528\10052819.D

Batch ID: MS06W0528B

Analysis Date: 05/28/2010 16:20

Sample ID: 10052625-01AGSD

Units : mg/L

Run ID: MSD_06_100528A

Prep Date: 05/28/2010 16:20

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|--------|------|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-P (GRO) | 2.11 | 0.25 | 2 | 0 | 105 | 58 | 135 | 2.116 | 0.3(20) | |
| Surr: 1,2-Dichloroethane-d4 | 0.0565 | | 0.05 | | 113 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.0458 | | 0.05 | | 92 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.0524 | | 0.05 | | 105 | 70 | 130 | | | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
04-Jun-10

QC Summary Report

Work Order:
10052742

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS06\DATA\100601\10060138.D**

Batch ID: **MS06S4357A**

Analysis Date: **06/02/2010 00:28**

Sample ID: **MBLK MS06S4357A**

Units: **µg/Kg**

Run ID: **MSD_06_100601A**

Prep Date: **06/02/2010 00:28**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|------------------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Dichlorodifluoromethane | ND | 20 | | | | | | | | |
| Chloromethane | ND | 40 | | | | | | | | |
| Vinyl chloride | ND | 20 | | | | | | | | |
| Chloroethane | ND | 20 | | | | | | | | |
| Bromomethane | ND | 40 | | | | | | | | |
| Trichlorofluoromethane | ND | 20 | | | | | | | | |
| 1,1-Dichloroethene | ND | 20 | | | | | | | | |
| Dichloromethane | ND | 40 | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 20 | | | | | | | | |
| 1,1-Dichloroethane | ND | 20 | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 20 | | | | | | | | |
| Bromochloromethane | ND | 20 | | | | | | | | |
| Chloroform | ND | 20 | | | | | | | | |
| 2,2-Dichloropropane | ND | 20 | | | | | | | | |
| 1,2-Dichloroethane | ND | 20 | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 20 | | | | | | | | |
| 1,1-Dichloropropene | ND | 20 | | | | | | | | |
| Carbon tetrachloride | ND | 20 | | | | | | | | |
| Benzene | ND | 20 | | | | | | | | |
| Dibromomethane | ND | 20 | | | | | | | | |
| 1,2-Dichloropropane | ND | 20 | | | | | | | | |
| Trichloroethene | ND | 20 | | | | | | | | |
| Bromodichloromethane | ND | 20 | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 20 | | | | | | | | |
| trans-1,3-Dichloropropene | ND | 20 | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 20 | | | | | | | | |
| Toluene | ND | 20 | | | | | | | | |
| 1,3-Dichloropropane | ND | 20 | | | | | | | | |
| Dibromochloromethane | ND | 20 | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 40 | | | | | | | | |
| Tetrachloroethene | ND | 20 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 20 | | | | | | | | |
| Chlorobenzene | ND | 20 | | | | | | | | |
| Ethylbenzene | ND | 20 | | | | | | | | |
| m,p-Xylene | ND | 20 | | | | | | | | |
| Bromoform | ND | 20 | | | | | | | | |
| Styrene | ND | 20 | | | | | | | | |
| o-Xylene | ND | 20 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 20 | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 40 | | | | | | | | |
| Isopropylbenzene | ND | 20 | | | | | | | | |
| Bromobenzene | ND | 20 | | | | | | | | |
| n-Propylbenzene | ND | 20 | | | | | | | | |
| 4-Chlorotoluene | ND | 20 | | | | | | | | |
| 2-Chlorotoluene | ND | 20 | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 20 | | | | | | | | |
| tert-Butylbenzene | ND | 20 | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 20 | | | | | | | | |
| sec-Butylbenzene | ND | 20 | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 20 | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 20 | | | | | | | | |
| 4-Isopropyltoluene | ND | 20 | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 20 | | | | | | | | |
| n-Butylbenzene | ND | 20 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 60 | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 40 | | | | | | | | |
| Naphthalene | ND | 40 | | | | | | | | |
| Hexachlorobutadiene | ND | 40 | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 40 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 241 | | 200 | | 121 | 70 | 130 | | | |
| Surr: Toluene-d8 | 183 | | 200 | | 92 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 204 | | 200 | | 102 | 70 | 130 | | | |



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Date:
04-Jun-10

QC Summary Report

Work Order:
10052742

Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS06\DATA\100601\10060139.D

Batch ID: MS06S4357A

Analysis Date: 06/02/2010 00:52

Sample ID: LCS MS06S4357A

Units: µg/Kg

Run ID: MSD_06_100601A

Prep Date: 06/02/2010 00:52

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| 1,1-Dichloroethene | 353 | 20 | 400 | | 88 | 10 | 143 | | | |
| Benzene | 477 | 10 | 400 | | 119 | 70 | 136 | | | |
| Trichloroethene | 533 | 20 | 400 | | 133 | 70 | 138 | | | |
| Toluene | 427 | 10 | 400 | | 107 | 70 | 135 | | | |
| Chlorobenzene | 423 | 20 | 400 | | 106 | 70 | 135 | | | |
| Ethylbenzene | 458 | 10 | 400 | | 114 | 70 | 137 | | | |
| m,p-Xylene | 426 | 10 | 400 | | 106 | 70 | 143 | | | |
| o-Xylene | 438 | 10 | 400 | | 110 | 70 | 143 | | | |
| Surr: 1,2-Dichloroethane-d4 | 506 | | 400 | | 126 | 70 | 130 | | | |
| Surr: Toluene-d8 | 380 | | 400 | | 95 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 414 | | 400 | | 104 | 70 | 130 | | | |

Sample Matrix Spike

Type: MS Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS06\DATA\100601\10060140.D

Batch ID: MS06S4357A

Analysis Date: 06/02/2010 01:17

Sample ID: 10052742-04AMS

Units: µg/Kg

Run ID: MSD_06_100601A

Prep Date: 06/02/2010 01:17

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| 1,1-Dichloroethene | 329 | 20 | 400 | 0 | 82 | 10 | 143 | | | |
| Benzene | 423 | 10 | 400 | 0 | 106 | 57 | 143 | | | |
| Trichloroethene | 442 | 20 | 400 | 0 | 111 | 52 | 154 | | | |
| Toluene | 389 | 10 | 400 | 0 | 97 | 53 | 142 | | | |
| Chlorobenzene | 378 | 20 | 400 | 0 | 95 | 55 | 142 | | | |
| Ethylbenzene | 412 | 10 | 400 | 0 | 103 | 56 | 145 | | | |
| m,p-Xylene | 395 | 10 | 400 | 0 | 99 | 53 | 154 | | | |
| o-Xylene | 394 | 10 | 400 | 0 | 99 | 60 | 148 | | | |
| Surr: 1,2-Dichloroethane-d4 | 502 | | 400 | | 126 | 70 | 130 | | | |
| Surr: Toluene-d8 | 390 | | 400 | | 97 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 421 | | 400 | | 105 | 70 | 130 | | | |

Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS06\DATA\100601\10060141.D

Batch ID: MS06S4357A

Analysis Date: 06/02/2010 01:42

Sample ID: 10052742-04AMSD

Units: µg/Kg

Run ID: MSD_06_100601A

Prep Date: 06/02/2010 01:42

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| 1,1-Dichloroethene | 334 | 20 | 400 | 0 | 84 | 10 | 143 | 328.8 | 1.7(20) | |
| Benzene | 412 | 10 | 400 | 0 | 103 | 57 | 143 | 423.1 | 2.6(20) | |
| Trichloroethene | 471 | 20 | 400 | 0 | 118 | 52 | 154 | 442.4 | 6.3(20) | |
| Toluene | 383 | 10 | 400 | 0 | 96 | 53 | 142 | 388.7 | 1.4(20) | |
| Chlorobenzene | 380 | 20 | 400 | 0 | 95 | 55 | 142 | 378.5 | 0.4(20) | |
| Ethylbenzene | 411 | 10 | 400 | 0 | 103 | 56 | 145 | 411.8 | 0.2(20) | |
| m,p-Xylene | 389 | 10 | 400 | 0 | 97 | 53 | 154 | 395 | 1.5(20) | |
| o-Xylene | 393 | 10 | 400 | 0 | 98 | 60 | 148 | 394.5 | 0.4(20) | |
| Surr: 1,2-Dichloroethane-d4 | 501 | | 400 | | 125 | 70 | 130 | | | |
| Surr: Toluene-d8 | 395 | | 400 | | 99 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 421 | | 400 | | 105 | 70 | 130 | | | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
04-Jun-10

QC Summary Report

Work Order:
10052742

Method Blank

Type: MBLK Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS06\DATA\100528\10052805.D

Batch ID: MS06W0528A

Analysis Date: 05/28/2010 10:34

Sample ID: MBLK MS06W0528A

Units: µg/L

Run ID: MSD_06_100528A

Prep Date: 05/28/2010 10:34

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|------------------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Dichlorodifluoromethane | ND | 1 | | | | | | | | |
| Chloromethane | ND | 2 | | | | | | | | |
| Vinyl chloride | ND | 1 | | | | | | | | |
| Chloroethane | ND | 1 | | | | | | | | |
| Bromomethane | ND | 2 | | | | | | | | |
| Trichlorofluoromethane | ND | 1 | | | | | | | | |
| 1,1-Dichloroethene | ND | 1 | | | | | | | | |
| Dichloromethane | ND | 2 | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 1 | | | | | | | | |
| 1,1-Dichloroethane | ND | 1 | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 1 | | | | | | | | |
| Bromochloromethane | ND | 1 | | | | | | | | |
| Chloroform | ND | 1 | | | | | | | | |
| 2,2-Dichloropropane | ND | 1 | | | | | | | | |
| 1,2-Dichloroethane | ND | 1 | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 1 | | | | | | | | |
| 1,1-Dichloropropene | ND | 1 | | | | | | | | |
| Carbon tetrachloride | ND | 1 | | | | | | | | |
| Benzene | ND | 1 | | | | | | | | |
| Dibromomethane | ND | 1 | | | | | | | | |
| 1,2-Dichloropropane | ND | 1 | | | | | | | | |
| Trichloroethene | ND | 1 | | | | | | | | |
| Bromodichloromethane | ND | 1 | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 1 | | | | | | | | |
| trans-1,3-Dichloropropene | ND | 1 | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 1 | | | | | | | | |
| Toluene | ND | 1 | | | | | | | | |
| 1,3-Dichloropropane | ND | 1 | | | | | | | | |
| Dibromochloromethane | ND | 1 | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 2 | | | | | | | | |
| Tetrachloroethene | ND | 1 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1 | | | | | | | | |
| Chlorobenzene | ND | 1 | | | | | | | | |
| Ethylbenzene | ND | 1 | | | | | | | | |
| m,p-Xylene | ND | 1 | | | | | | | | |
| Bromoform | ND | 1 | | | | | | | | |
| Styrene | ND | 1 | | | | | | | | |
| o-Xylene | ND | 1 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 1 | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2 | | | | | | | | |
| Isopropylbenzene | ND | 1 | | | | | | | | |
| Bromobenzene | ND | 1 | | | | | | | | |
| n-Propylbenzene | ND | 1 | | | | | | | | |
| 4-Chlorotoluene | ND | 1 | | | | | | | | |
| 2-Chlorotoluene | ND | 1 | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 1 | | | | | | | | |
| tert-Butylbenzene | ND | 1 | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1 | | | | | | | | |
| sec-Butylbenzene | ND | 1 | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 1 | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 1 | | | | | | | | |
| 4-Isopropyltoluene | ND | 1 | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 1 | | | | | | | | |
| n-Butylbenzene | ND | 1 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 3 | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 2 | | | | | | | | |
| Naphthalene | ND | 2 | | | | | | | | |
| Hexachlorobutadiene | ND | 2 | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 2 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 11.9 | | 10 | | 119 | 70 | 130 | | | |
| Surr: Toluene-d8 | 9.74 | | 10 | | 97 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 10.3 | | 10 | | 103 | 70 | 130 | | | |



Alpha Analytical, Inc.

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Date:
04-Jun-10

QC Summary Report

Work Order:
10052742

Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS06\DATA\100528\10052803.D

Batch ID: MS06W0528A

Analysis Date: 05/28/2010 09:44

Sample ID: LCS MS06W0528A

Units: µg/L

Run ID: MSD_06_100528A

Prep Date: 05/28/2010 09:44

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| 1,1-Dichloroethene | 8.87 | 1 | 10 | | 89 | 80 | 120 | | | |
| Benzene | 9.61 | 0.5 | 10 | | 96 | 70 | 130 | | | |
| Trichloroethene | 9.43 | 1 | 10 | | 94 | 70 | 130 | | | |
| Toluene | 9.14 | 0.5 | 10 | | 91 | 80 | 120 | | | |
| Chlorobenzene | 9.27 | 1 | 10 | | 93 | 70 | 130 | | | |
| Ethylbenzene | 9.39 | 0.5 | 10 | | 94 | 80 | 120 | | | |
| m,p-Xylene | 9.21 | 0.5 | 10 | | 92 | 70 | 130 | | | |
| o-Xylene | 9.36 | 0.5 | 10 | | 94 | 70 | 130 | | | |
| Surr: 1,2-Dichloroethane-d4 | 11.5 | | 10 | | 115 | 70 | 130 | | | |
| Surr: Toluene-d8 | 9.79 | | 10 | | 98 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 10.6 | | 10 | | 106 | 70 | 130 | | | |

Sample Matrix Spike

Type: MS Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS06\DATA\100528\10052816.D

Batch ID: MS06W0528A

Analysis Date: 05/28/2010 15:06

Sample ID: 10052625-01AMS

Units: µg/L

Run ID: MSD_06_100528A

Prep Date: 05/28/2010 15:06

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| 1,1-Dichloroethene | 48.8 | 2.5 | 50 | 0 | 98 | 60 | 130 | | | |
| Benzene | 52.4 | 1.3 | 50 | 0 | 105 | 67 | 130 | | | |
| Trichloroethene | 51.9 | 2.5 | 50 | 0 | 104 | 69 | 130 | | | |
| Toluene | 49.4 | 1.3 | 50 | 0 | 99 | 66 | 130 | | | |
| Chlorobenzene | 50.2 | 2.5 | 50 | 0 | 100 | 70 | 130 | | | |
| Ethylbenzene | 51.4 | 1.3 | 50 | 0 | 103 | 68 | 130 | | | |
| m,p-Xylene | 49.5 | 1.3 | 50 | 0 | 99 | 64 | 130 | | | |
| o-Xylene | 50.9 | 1.3 | 50 | 0 | 102 | 70 | 130 | | | |
| Surr: 1,2-Dichloroethane-d4 | 60.2 | | 50 | | 120 | 70 | 130 | | | |
| Surr: Toluene-d8 | 47.4 | | 50 | | 95 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 51.6 | | 50 | | 103 | 70 | 130 | | | |

Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS06\DATA\100528\10052817.D

Batch ID: MS06W0528A

Analysis Date: 05/28/2010 15:30

Sample ID: 10052625-01AMSD

Units: µg/L

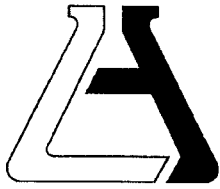
Run ID: MSD_06_100528A

Prep Date: 05/28/2010 15:30

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| 1,1-Dichloroethene | 45.4 | 2.5 | 50 | 0 | 91 | 60 | 130 | 48.81 | 7.2(20) | |
| Benzene | 51.7 | 1.3 | 50 | 0 | 103 | 67 | 130 | 52.44 | 1.4(20) | |
| Trichloroethene | 51.7 | 2.5 | 50 | 0 | 103 | 69 | 130 | 51.88 | 0.4(20) | |
| Toluene | 51.2 | 1.3 | 50 | 0 | 102 | 66 | 130 | 49.35 | 3.7(20) | |
| Chlorobenzene | 51.3 | 2.5 | 50 | 0 | 103 | 70 | 130 | 50.16 | 2.2(20) | |
| Ethylbenzene | 52.5 | 1.3 | 50 | 0 | 105 | 68 | 130 | 51.36 | 2.1(20) | |
| m,p-Xylene | 51 | 1.3 | 50 | 0 | 102 | 64 | 130 | 49.51 | 3.0(20) | |
| o-Xylene | 52.8 | 1.3 | 50 | 0 | 106 | 70 | 130 | 50.93 | 3.5(20) | |
| Surr: 1,2-Dichloroethane-d4 | 60.1 | | 50 | | 120 | 70 | 130 | | | |
| Surr: Toluene-d8 | 48.8 | | 50 | | 98 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 53 | | 50 | | 106 | 70 | 130 | | | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92868 - 714/771-6900

FAX 714/538-1209

CLIENT Alpha Analytical, Inc. (11338)
ATTN: Reyna Vallejo
255 Glendale Avenue
Suite 21
Sparks, NV 89431-5778

LAB REQUEST 255615

REPORTED 06/04/2010

RECEIVED 05/28/2010

PROJECT W.O. #E2M10052742 05/28/10

SUBMITTER Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.

1083517

1083518

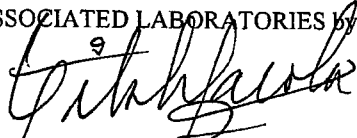
Client Sample Identification

E2M10052742-11A

Laboratory Method Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,


for Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 1083517

Client Sample ID: E2M10052742-11A

Matrix: WATER

Date Sampled: 05/27/2010

Time Sampled: 08:20

| Analyte | Result | DLR | Units | Date/Analyst |
|------------------------------|--------|-------|-------|--------------|
| 420.1 Total Phenolics | | | | |
| Total Phenolics | ND | 0.005 | mg/L | 06/03/10 HK |

Order #: 1083518

Client Sample ID: Laboratory Method Blank

Matrix: WATER

| Analyte | Result | DLR | Units | Date/Analyst |
|------------------------------|--------|-------|-------|--------------|
| 420.1 Total Phenolics | | | | |
| Total Phenolics | ND | 0.005 | mg/L | 06/03/10 HK |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



Laboratory Report
Report ID: 105988



**Sierra
Environmental
Monitoring, Inc.**

Alpha Analytical

255 Glendale Avenue Suite 21
Sparks, NV 89431

Date: 6/4/2010
Client: ALP-855
Taken by: J. Ruffing
PO #:

Dear Alpha Analytical,

It is the policy of Sierra Environmental Monitoring, Inc to strictly adhere to a comprehensive Quality Assurance Plan that insures the data presented in this report are both accurate and precise. Sierra Environmental Monitoring, Inc. maintains accreditation in the State of Nevada (NV-15) and the State of California (ELAP 2526).

The data presented in this report were obtained from the analysis of samples received under a chain of custody. Unless otherwise noted below, samples were received in good condition, properly preserved and within the hold time for the requested analyses. Any anomalies associated with the analysis of the samples have been flagged with appropriate explanation in the Analysis Report section of this Laboratory Report.

General Comments:


- There are no general comments for this report.

Individual Sample Comments:

- There are no specific comments that are associated with these samples.

Approved By:

Date:


Sierra Environmental Monitoring, Inc.

6/4/2010

This report is applicable only to the sample received by the laboratory. The liability of the laboratory is limited to the amount paid for this report. This report is for the exclusive use of the client to whom it is addressed and upon the condition that the client assumes all liability for the further distribution of the report or its contents.

Laboratory Report
Report ID: 105988



Sierra
Environmental
Monitoring, Inc.

Alpha Analytical

255 Glendale Avenue Suite 21
Sparks, NV 89431

Date: 6/4/2010
Client: ALP-855
Taken by: J. Ruffing
PO #:

Analysis Report

| Sample ID: | Customer Sample ID | Date Sampled | Time Sampled | Date Received | | | |
|----------------|---------------------------------|--------------|--------------|-----------------|---------|---------------|-----------|
| S201005-1528 | E2M10052742-11 - SB10GW20052710 | 5/27/2010 | 8:20 AM | 5/28/2010 | | | |
| Parameter | Method | Result | Units | Reporting Limit | Analyst | Date Analyzed | Data Flag |
| Cyanide, Total | SM 4500 CN C | 0.009 | mg/L | 0.005 | Kobza | 6/1/2010 | J1 |

Data Flag Legend:

J1 - The batch MS and/or MSD were outside acceptance limits. The batch LCS was acceptable.

John Kobza, Ph.D.
Laboratory Director

Page 2 of 3
1135 Financial Blvd.
Reno, NV 89502-2348
Phone (775) 857-2400
FAX (775) 857-2404
sem@sem-analytical.com

John C. Seher
Special Consultant
Quality Assurance Manager

Laboratory Report
Report ID: 105988



**Sierra
Environmental
Monitoring, Inc.**

Alpha Analytical

255 Glendale Avenue Suite 21
Sparks, NV 89431

Date: 6/4/2010

Client: ALP-855

Taken by: J. Ruffing

PO #:

Quality Control Report

| <i>Parameter</i> | <i>LCS, % Recovery</i> | <i>MS, % Recovery</i> | <i>MSD, % Recovery</i> | <i>RPD, %</i> | <i>Method Blank</i> |
|------------------|----------------------------|---------------------------|----------------------------|---------------|---------------------|
| Cyanide, Total | 81.0 | 49.0 | | | <0.005 mg/L |

Legend: *LCS- Laboratory Control Standard* *MS- Matrix Spike* *MSD- Matrix Spike Duplicate*
RPD- Relative Percent Difference

Billing Information :

E2M
9563 S. Kingston Ct.
Englewood, CO 80112

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

NV

WorkOrder : E2M10052742

Report Due By : 5:00 PM On : 04-Jun-10

Client:

HDR | E2M
2365 Iron Point Road
Suite 300
Folsom, CA 95630

Report Attention

Clayton Mokri

Phone Number

(916) 852-7792 x 204 clayton.mokri@hdrinc.com

Email Address

EDD Required : Yes

Sampled by : Jacob Ruffing

Cooler Temp

4 °C

Samples Received

27-May-10

Date Printed

27-May-10

PO :

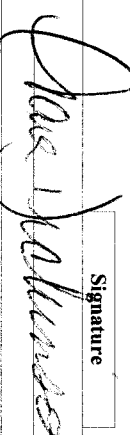
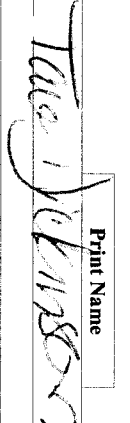
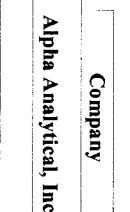

Client's COC # : 31161

Job : NTD

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

| Alpha Sample ID | Client Sample ID | Collection Matrix Date | No. of Bottles | | | 300_0_W | ALKALINITY_W | AMMONIA_W | Requested Tests | | | Sample Remarks | |
|-----------------|------------------|------------------------|----------------|-----|-----|---------|--------------|-----------|-----------------|---------------|----------|----------------|--------------------------------|
| | | | Alpha | Sub | TAT | | | | BNA_W | CYANIDE_TOTAL | METALS_A | | METALS_S |
| E2M10052742-01A | SB0802SO052710 | SO 05/27/10 11:05 | 1 | 0 | 5 | | | | | | | | |
| E2M10052742-02A | SB0808SO052710 | SO 05/27/10 11:20 | 1 | 0 | 5 | | | | | | | | |
| E2M10052742-03A | SB0810SO052710 | SO 05/27/10 11:25 | 1 | 0 | 5 | | | | | | | | As, Bz, Cd, Cr, Pb, Hg, Ag, Se |
| E2M10052742-04A | SB0817SO052710 | SO 05/27/10 11:35 | 1 | 0 | 5 | | | | | | | | |
| E2M10052742-05A | SB0902SO052710 | SO 05/27/10 10:05 | 1 | 0 | 5 | | | | | | | | |
| E2M10052742-06A | SB0910SO052710 | SO 05/27/10 10:20 | 1 | 0 | 5 | | | | | | | | As, Bz, Cd, Cr, Pb, Hg, Ag, Se |
| E2M10052742-07A | SB0917SO052710 | SO 05/27/10 10:40 | 1 | 0 | 5 | | | | | | | | |
| E2M10052742-08A | SB1002SO052710 | SO 05/27/10 07:40 | 1 | 0 | 5 | | | | | | | | |
| E2M10052742-09A | SB1010SO052710 | SO 05/27/10 07:50 | 1 | 0 | 5 | | | | | | | | As, Bz, Cd, Cr, Pb, Hg, Ag, Se |

Comments: Samples brought in by client. Frozen ice. Total Cyanide subbed to SEM. H2SO4 split was created from 1 Liter unpresserved amber for sample -111A for Phenolics to be subbed to Associated Labs. .

Logged in by:  Signature  Print Name  Company  Date/Time

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : Aq(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

E2M
9563 S. Kingston Ct.
Englewood, CO 80112

CHAIN-OF-CUSTODY RECORD

NV

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : E2M10052742

Report Due By : 5:00 PM On : 04-Jun-10

Client:

HDR | E2M
2365 Iron Point Road
Suite 300
Folsom, CA 95630

Report Attention

Clayton Mokri (916) 852-7792 x 204 clayton.mokri@hdrinc.com

Phone Number

Email Address

EDD Required : Yes

Sampled by : Jacob Ruffing

Cooler Temp 4 °C

Samples Received 27-May-10

Date Printed 27-May-10

PO :

Client's COC # : 31161

Job : NTD

OC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

| Alpha Sample ID | Client Sample ID | Collection Matrix Date | No. of Bottles | | | Requested Tests | | | | | | | Sample Remarks | | | |
|-----------------|------------------|------------------------|----------------|-----|-----|----------------------|--------------|-----------|---------|-----------|--------------------------------|---------------------------|----------------|---------|--|------------------|
| | | | Alpha | Sub | TAT | 300_0_W | ALKALINITY_W | AMMONIA_W | BNA_W | CYANIDE_T | METALS_A | METALS_S | | N_TKN_W | | |
| E2M10052742-10A | SB1017SO052710 | SO 05/27/10 08:05 | 1 | 0 | 5 | | | | | | | | | | | |
| E2M10052742-11A | SB10GW20052710 | AQ 05/27/10 08:20 | 13 | 2 | 5 | NO2, NO3, SO4, Cl, F | Alk | NH3 | Phenols | Cyanide | Spec. List | N-Total (=NO2+NO3+TKN) | | | | |
| E2M10052742-12A | EB01GWNA052710 | AQ 05/27/10 00:00 | 7 | 0 | 5 | | | | | | As, Ba, Cd, Cr, Pb, Hg, Ag, Se | | | | | |
| E2M10052742-13A | TB03GWNA052710 | AQ 05/27/10 07:00 | 1 | 0 | 5 | | | | | | | | | | | Reno TB, 5/17/10 |

Comments: Samples brought in by client. Frozen ice. Total Cyanide subbed to SEM. H2SO4 split was created from 1 Liter unpressured amber for sample -11A for Phenolics to be subbed to Associated Labs. :

Logged in by:  Signature  Print Name  Company  Date/Time

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : Aq(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

E2M
9563 S. Kingston Ct.
Englewood, CO 80112

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

NV

WorkOrder : E2M10052742

Report Due By : 5:00 PM On : 04-Jun-10

Client:

HDR | E2M
2365 Iron Point Road
Suite 300
Folsom, CA 95630

Report Attention

Clayton Mokri (916) 852-7792 x 204 clayton.mokri@hdrinc.com

Phone Number

Email Address

EDD Required : Yes

Sampled by : Jacob Ruffing

Cooler Temp

Samples Received

Date Printed

4 °C

27-May-10

27-May-10

PO :

Client's COC # : 31161

Job : NTD

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

| Alpha Sample ID | Client Sample ID | Collection Matrix Date | No. of Bottles | | | Requested Tests | | | | Sample Remarks | | | | | | | | | |
|-----------------|------------------|------------------------|----------------|-----|-----|-----------------|--------|--------|-------|----------------|-------|--|--|--|--|--|--|--|--|
| | | | Alpha | Sub | TAT | TPH/E_W | TPHP_S | TPHP_W | VOC_S | | VOC_W | | | | | | | | |
| E2M10052742-01A | SB0802SO052710 | SO 05/27/10 11:05 | 1 | 0 | 5 | | | | | | | | | | | | | | |
| E2M10052742-02A | SB0808SO052710 | SO 05/27/10 11:20 | 1 | 0 | 5 | | | | | | | | | | | | | | |
| E2M10052742-03A | SB0810SO052710 | SO 05/27/10 11:25 | 1 | 0 | 5 | | | | | | | | | | | | | | |
| E2M10052742-04A | SB0817SO052710 | SO 05/27/10 11:35 | 1 | 0 | 5 | | | | | | | | | | | | | | |
| E2M10052742-05A | SB0902SO052710 | SO 05/27/10 10:05 | 1 | 0 | 5 | | | | | | | | | | | | | | |
| E2M10052742-06A | SB0910SO052710 | SO 05/27/10 10:20 | 1 | 0 | 5 | | | | | | | | | | | | | | |
| E2M10052742-07A | SB0917SO052710 | SO 05/27/10 10:40 | 1 | 0 | 5 | | | | | | | | | | | | | | |
| E2M10052742-08A | SB1002SO052710 | SO 05/27/10 07:40 | 1 | 0 | 5 | | | | | | | | | | | | | | |
| E2M10052742-09A | SB1010SO052710 | SO 05/27/10 07:50 | 1 | 0 | 5 | | | | | | | | | | | | | | |
| E2M10052742-10A | SB1017SO052710 | SO 05/27/10 08:05 | 1 | 0 | 5 | | | | | | | | | | | | | | |

Comments: Samples brought in by client. Frozen ice. Total Cyanide subbed to SEM. H2SO4 split was created from 1 Liter unpreserved amber for sample -11A for Phenolics to be subbed to Associated Labs. :

Logged in by: *Clayton Mokri* Signature: *Clayton Mokri* Print Name: Clayton Mokri Company: Alpha Analytical, Inc. Date/Time: 5/27/10 13:12

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

E2M
9563 S. Kingston Ct.
Englewood, CO 80112

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : E2M10052742
Report Due By : 5:00 PM On : 04-Jun-10

Client:

HDR | E2M
2365 Iron Point Road
Suite 300
Folsom, CA 95630

Report Attention Phone Number (916) 852-7792 x 204
Clayton Mokri Email Address clayton.mokri@hdrinc.com

EDD Required : Yes

Sampled by : Jacob Ruffing

Cooler Temp 4 °C Samples Received 27-May-10 Date Printed 27-May-10

PO : Client's COC # : 31161 Job : NTD

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

| Alpha Sample ID | Client Sample ID | Collection Matrix Date | No. of Bottles Alpha Sub | TAT | Requested Tests | | | | | | Sample Remarks | | |
|-----------------|------------------|------------------------|--------------------------|-----|-----------------|--------|--------|--------|-------|-------|----------------|--|------------------|
| | | | | | TPHE_W | TPHE_S | TPHE_N | TPHP_W | VOC_S | VOC_W | | | |
| E2M10052742-11A | SB10GW20052710 | AQ 05/27/10 08:20 | 13 | 2 | 5 | TPHE_N | | | GAS_N | | 8260_N | | |
| E2M10052742-12A | EB01GWNA052710 | AQ 05/27/10 00:00 | 7 | 0 | 5 | TPHE_N | | | | | 8260_N | | |
| E2M10052742-13A | TB03GWNA052710 | AQ 05/27/10 07:00 | 1 | 0 | 5 | | | | | | 8260_N | | Reno TB, 5/17/10 |

Comments: Samples brought in by client. Frozen ice. Total Cyanide subbed to SEM. H2SO4 split was created from 1 Liter unpreserved amber for sample -11A for Phenolics to be subbed to Associated Labs. :

Logged in by:  Signature  Print Name  Company  Date/Time

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tridlar B-Brass P-Plastic OT-Other

Billing Information :

E2M
9563 S. Kingston Ct.
Englewood, CO 80112

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

NV

WorkOrder : E2M10052742

Report Due By : 5:00 PM On : 04-Jun-10

Client:

HDR | E2M
2365 Iron Point Road
Suite 300
Folsom, CA 95630

Report Attention

Clayton Moki

Phone Number

(916) 852-7792 x 204 clayton.moki@hdrinc.com

Email Address

EDD Required : Yes

Sampled by : Jacob Ruffing

Cooler Temp

Samples Received

Date Printed

4 °C

27-May-10

27-May-10

OC Level : S3

= Final Rpt. MBLK, LCS, MS/MSD With Surrogates

Job : NTD

| Alpha Sample ID | Client Sample ID | Collection Matrix Date | No. of Bottles Alpha Sub | TAT | Requested Tests | | | | | | Sample Remarks |
|-----------------|------------------|------------------------|--------------------------|-----|-----------------|----------|------|------|--------------|---------------|----------------|
| | | | | | N_TOTAL_W | OG_HEM_W | PH_S | PH_W | PHENOLIC_S_W | PHOSPHO_RUS_W | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|----------------|-------------------|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| E2M10052742-01A | SB0802SO052710 | SO 05/27/10 11:05 | 1 | 0 | 5 | | | | | | | | | | | | | | | | | | |
| E2M10052742-02A | SB0808SO052710 | SO 05/27/10 11:20 | 1 | 0 | 5 | | | | | | | | | | | | | | | | | | |
| E2M10052742-03A | SB0810SO052710 | SO 05/27/10 11:25 | 1 | 0 | 5 | | | | | | | | | | | | | | | | | | |
| E2M10052742-04A | SB0817SO052710 | SO 05/27/10 11:35 | 1 | 0 | 5 | | | | | | | | | | | | | | | | | | |
| E2M10052742-05A | SB0902SO052710 | SO 05/27/10 10:05 | 1 | 0 | 5 | | | | | | | | | | | | | | | | | | |
| E2M10052742-06A | SB0910SO052710 | SO 05/27/10 10:20 | 1 | 0 | 5 | | | | | | | | | | | | | | | | | | |
| E2M10052742-07A | SB0917SO052710 | SO 05/27/10 10:40 | 1 | 0 | 5 | | | | | | | | | | | | | | | | | | |
| E2M10052742-08A | SB1002SO052710 | SO 05/27/10 07:40 | 1 | 0 | 5 | | | | | | | | | | | | | | | | | | |
| E2M10052742-09A | SB1010SO052710 | SO 05/27/10 07:50 | 1 | 0 | 5 | | | | | | | | | | | | | | | | | | |
| E2M10052742-10A | SB1017SO052710 | SO 05/27/10 08:05 | 1 | 0 | 5 | | | | | | | | | | | | | | | | | | |

Comments: Samples brought in by client. Frozen ice. Total Cyanide subbed to SEM. H2SO4 split was created from 1 Liter unpreserved amber for sample-11A for Phenolics to be subbed to Associated Labs.

Logged in by: [Signature] [Signature] [Signature]

Signature: _____ Print Name: _____ Company: Alpha Analytical, Inc. Date/Time: 5/17/10 1342

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

E2M
9563 S. Kingston Ct.
Englewood, CO 80112

CHAIN-OF-CUSTODY RECORD

NV

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : E2M10052742
Report Due By : 5:00 PM On : 04-Jun-10

Client:
HDR | E2M
2365 Iron Point Road
Suite 300
Folsom, CA 95630

Report Attention Phone Number (916) 852-7792 x 204
Email Address clayton.mokri@hdrinc.com
Clayton Mokri

EDD Required : Yes



Sampled by : Jacob Ruffing

PO : Cooler Temp 4 °C Samples Received 27-May-10 Date Printed 27-May-10
Client's COC # : 31161 Job : NTD

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

| Alpha Sample ID | Client Sample ID | Collection Matrix Date | No. of Bottles Alpha | Sub TAT | Requested Tests | | | | | | Sample Remarks | | | |
|-----------------|------------------|------------------------|----------------------|---------|-----------------|-------------------------------|------|------|--------------|---------------|----------------|-------|---------|------------------|
| | | | | | N_TOTAL_W | OG_HEM_W | PH_S | PH_W | PHENOLIC_S_W | PHOSPHO_RUS_W | | TDS_W | TPH/E_S | |
| E2M10052742-11A | SB10GW20052710 | AQ 05/27/10 08:20 | 13 | 2 | 5 | N-TOTAL =(NO2+NO3 +TKN) | X | | PH | X | Total | TDS | | |
| E2M10052742-12A | EB01GWNA052710 | AQ 05/27/10 00:00 | 7 | 0 | 5 | | | | | | | | | |
| E2M10052742-13A | TB03GWNA052710 | AQ 05/27/10 07:00 | 1 | 0 | 5 | | | | | | | | | Reno TB, 5/17/10 |

Comments: Samples brought in by client. Frozen ice. Total Cyanide subbed to SEM. H2SO4 split was created from 1 Liter unpreserved amber for sample -11A for Phenolics to be subbed to Associated Labs. :

Logged in by:  **Signature**  **Print Name** Julie Johnson
Company Alpha Analytical, Inc. **Date/Time** 5/27/10 1342

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.
The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.
Matrix Type : Aq(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information:

Company Name HDR/ERM
 Attn: _____
 Address _____
 City, State, Zip Englewood CO
 Phone Number _____ Fax _____



Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21
 Sparks, Nevada 89431-5778
 Phone (775) 355-1044
 Fax (775) 355-0406

Samples Collected From Which State?
 AZ _____ CA _____ NV X WA _____
 ID _____ OR _____ OTHER _____

31161

City, State, Zip Folsom CA
 Consultant / Client Name _____ Job # _____ Job Name NTD
 Name: Clayton Melri Report Attention / Project Manager
 Email: _____
 Phone: _____ Mobile: _____

| Time Sampled | Date Sampled | Matrix* See Key Below | P.O. # | Lab ID Number (Use Only) | Office (Use Only) | Sample Description | TAT | Field Filtered | # Containers** | Analyses Required | Data Validation Level: III or IV | EDD / EDF? YES ___ NO ___ | Global ID # | REMARKS |
|--------------|--------------|-----------------------|--------|--------------------------|-------------------|--------------------|-----|----------------|----------------|--|----------------------------------|---------------------------|-------------|---------|
| 1105 | 5/24/05 | SO | | 2W1105/147/01 | 01 | SB080250052710 | Std | N | | VOC ext list TPH-g TPH-d TPH-mo RCRA 8 | | | | |
| 1120 | | | | | 02 | SB080850052710 | | | | PH | | | | |
| 1135 | | | | | 03 | SB081050052710 | | | | See Attached table 2 TPH-d, TPH-g, TPH-mo RCRA 8 | | | | |
| 1005 | | | | | 04 | SB081750052710 | | | | | | | | |
| 1020 | | | | | 05 | SB091050052710 | | | | | | | | |
| 1040 | | | | | 06 | SB091750052710 | | | | | | | | |
| 0740 | | | | | 07 | SB100250052710 | | | | | | | | |
| 0750 | | | | | 08 | SB101050052710 | | | | | | | | |
| 0805 | | | | | 09 | SB101750052710 | | | | | | | | |
| 0820 | | | | | 10 | SB101750052710 | | | | | | | | |
| 0700 | | | | | 11 | SB101750052710* | | | | | | | | |
| | | | | | 12 | ER01GWNA052710 | | | | | | | | |
| | | | | | 13 | TR03GWNA052710 | | | | | | | | |

ADDITIONAL INSTRUCTIONS:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action (NAC 445.0636 (c) (2)). Sampled By: [Signature]

| Relinquished by: (Signature/Affiliation) | Received by: (Signature/Affiliation) | Date: | Time: |
|--|--------------------------------------|---------|-------|
| <u>[Signature]</u> | <u>[Signature]</u> | 5/27/10 | 1242 |
| Relinquished by: (Signature/Affiliation) | Received by: (Signature/Affiliation) | Date: | Time: |
| Relinquished by: (Signature/Affiliation) | Received by: (Signature/Affiliation) | Date: | Time: |

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air ** - L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other
 NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.

6 Vegas
256 pply

Table 2
Groundwater Sample Analyses for the NTD

| Sample Location | Sample ID | TPH-g, BTEX, VOCs (8260) | TPH-d, TPH-mo (8015) | Metals (6020) | Nitrate, Nitrite, Sulfate, Fluoride (300.0) | Total Nitrogen (calculation) | Ammonia (4500-NH3D) | pH (150.2) and Field Measurement | Total P (265.3) | TDS (2540C) | Phenol (8270) | Phenolic compounds (9065) | Alkalinity (2320B) | Oil & Grease (1664) |
|-----------------|-----------|--------------------------|----------------------|---------------|---|------------------------------|---------------------|----------------------------------|-----------------|-------------|---------------|---------------------------|--------------------|---------------------|
| SB-2 | SB02 | GW ? | X | X | X | X | X | X | X | X | X | X | X | X |
| SB-3 | SB03 | GW ? | X | X | X | X | X | X | X | X | X | X | X | X |
| SB-6 | SB06 | GW ? | X | X | X | X | X | X | X | X | X | X | X | X |
| SB-7 | SB07 | GW ? | X | X | X | X | X | X | X | X | X | X | X | X |
| SB-10 | SB10 | GW ? | X | X | X | X | X | X | X | X | X | X | X | X |

Note: fields with "?" need to be replaced with depth determined in the field
Metals = Arsenic, barium, boron, cadmium, chromium (total), copper, cyanide, iron, lead, manganese, mercury, nickel, selenium, sodium, silver, zinc

Table 3
Sediment Sample Analyses for the NTD

| Sample Location | Sample ID | VOCs (8260) | TPH-d, TPH-mo (8015) | RCRA 8 Metals (6020) | Chlorinated pesticides and PCBs (8081/8082) | OP Pesticides (8151) | SVOCs (8270) | Chlorinated herbicides (8151) |
|-----------------|-----------|-------------|----------------------|----------------------|---|----------------------|--------------|-------------------------------|
| SS-1 | SB02 | SE | NA | Date | X | X | X | X |
| SS-2 | SB03 | SE | NA | Date | X | X | X | X |

2125
1025
5502

Table 4
QA/QC Sample Analyses for the NTD

| Sample Location | Sample ID | VOCs (8260) | TPH-d, TPH-mo (8015) | RCRA 8 Metals (6020) | | | |
|-----------------|-----------|-------------|----------------------|----------------------|---|---|---|
| EB | EB01 | GW | NA | Date | X | X | X |
| TB | TB01 | GW | NA | Date | X | X | X |
| TB | TB02 | GW | NA | Date | X | X | X |
| TB | TB03 | GW | NA | Date | X | X | X |
| TB | TB04 | GW | NA | Date | X | X | X |



Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052741-16A
Client I.D. Number: SB02GW15052610

Sampled: 05/26/10
Received: 05/26/10

Method Reference : EPA Method 300.0

| Analyte | Result | Reporting Limit | Qual | Units | Date Extracted | Date Analyzed |
|-------------------|--------|-----------------|------|-------|----------------|----------------|
| Fluoride | ND | 0.25 | | mg/L | 05/27/10 11:18 | 05/27/10 14:46 |
| Chloride | 58 | 50 | | mg/L | 05/27/10 11:18 | 05/27/10 14:46 |
| Nitrite (NO2) - N | ND | 0.25 | | mg/L | 05/27/10 11:18 | 05/27/10 14:46 |
| Nitrate (NO3) - N | ND | 0.25 | | mg/L | 05/27/10 11:18 | 05/27/10 14:46 |
| Sulfate (SO4) | 130 | 75 | | mg/L | 05/27/10 11:18 | 05/27/10 14:46 |

Method Reference : SM4500NORGC / SM4500-NH3D

| Analyte | Result | Reporting Limit | Qual | Units | Date Extracted | Date Analyzed |
|---------------------------|--------|-----------------|------|-------|----------------|---------------|
| Nitrogen, Kjeldahl, Total | 7.6 | 2.5 | | mg/L | 06/01/10 | 06/01/10 |

Method Reference : Total by Calculation

| Analyte | Result | Reporting Limit | Qual | Units | Date Extracted | Date Analyzed |
|---------------------|--------|-----------------|------|-------|----------------|---------------|
| Total Nitrogen as N | 7.6 | 2.5 | | mg/L | 06/01/10 | 06/01/10 |

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

6/4/10

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052741-17A
Client I.D. Number: SB07GW17052610

Sampled: 05/26/10
Received: 05/26/10

Method Reference : EPA Method 300.0

| Analyte | Result | Reporting Limit | Qual | Units | Date Extracted | Date Analyzed |
|-------------------|--------|-----------------|------|-------|----------------|----------------|
| Fluoride | 0.66 | 0.25 | | mg/L | 05/27/10 11:18 | 05/27/10 15:04 |
| Chloride | 88 | 50 | | mg/L | 05/27/10 11:18 | 05/27/10 15:04 |
| Nitrite (NO2) - N | ND | 0.25 | | mg/L | 05/27/10 11:18 | 05/27/10 15:04 |
| Nitrate (NO3) - N | ND | 0.25 | | mg/L | 05/27/10 11:18 | 05/27/10 15:04 |
| Sulfate (SO4) | 810 | 300 | | mg/L | 05/27/10 11:18 | 05/27/10 18:27 |

Method Reference : SM4500NORGC / SM4500-NH3D

| Analyte | Result | Reporting Limit | Qual | Units | Date Extracted | Date Analyzed |
|---------------------------|--------|-----------------|------|-------|----------------|---------------|
| Nitrogen, Kjeldahl, Total | 1.4 | 0.25 | | mg/L | 06/01/10 | 06/01/10 |

Method Reference : Total by Calculation

| Analyte | Result | Reporting Limit | Qual | Units | Date Extracted | Date Analyzed |
|---------------------|--------|-----------------|------|-------|----------------|---------------|
| Total Nitrogen as N | 1.4 | 0.25 | | mg/L | 06/01/10 | 06/01/10 |

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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6/4/10

Report Date



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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 05/26/10

Job: NTD

Alkalinity
SM2320B

| Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed |
|---|---|-----------------|----------------|---------------|
| Client ID: SB02GW15052610 | | | | |
| Lab ID : E2M10052741-16A Date Sampled 05/26/10 16:30 | Alkalinity, Total (As CaCO ₃ at pH 4.5) 370 | 10 mg/L | 06/02/10 | 06/02/10 |
| Client ID: SB07GW17052610 | | | | |
| Lab ID : E2M10052741-17A Date Sampled 05/26/10 09:40 | Alkalinity, Total (As CaCO ₃ at pH 4.5) 610 | 10 mg/L | 06/02/10 | 06/02/10 |

Roger Scholl *Randy Gardner* *Walter Hinchman*
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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 05/26/10

Job: NTD

Ammonia as Nitrogen
SM4500-NH3D

| Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed |
|--|---------------|-----------------|----------------|---------------|
| Client ID: SB02GW15052610 Lab ID : E2M10052741-16A Nitrogen, Ammonia (As N) Date Sampled 05/26/10 16:30 | 2.3 | 1.0 mg/L | 05/28/10 | 05/28/10 |
| Client ID: SB07GW17052610 Lab ID : E2M10052741-17A Nitrogen, Ammonia (As N) Date Sampled 05/26/10 09:40 | 0.39 | 0.10 mg/L | 05/28/10 | 05/28/10 |

Roger Scholl *Randy Gardner* *Walter Hinchman*

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6/4/10

Report Date



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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052741-16A
Client I.D. Number: SB02GW15052610

Sampled: 05/26/10 16:30
Received: 05/26/10
Extracted: 06/01/10 12:00
Analyzed: 06/03/10

Semivolatile Organics by GC/MS EPA Method SW8270C

| | Compound | Concentration | Reporting Limit |
|----|----------------------------|---------------|-----------------|
| 1 | Phenol | ND | 10 µg/L |
| 2 | 2-Chlorophenol | ND | 10 µg/L |
| 3 | 2-Nitrophenol | ND | 10 µg/L |
| 4 | 2,4-Dimethylphenol | ND | 10 µg/L |
| 5 | 2,4-Dichlorophenol | ND | 10 µg/L |
| 6 | 4-Chloro-3-methylphenol | ND | 20 µg/L |
| 7 | 2,4,6-Trichlorophenol | ND | 10 µg/L |
| 8 | 2,4-Dinitrophenol | ND | 100 µg/L |
| 9 | 4-Nitrophenol | ND | 50 µg/L |
| 10 | 4,6-Dinitro-2-methylphenol | ND | 100 µg/L |
| 11 | Pentachlorophenol | ND | 50 µg/L |

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

6/4/10

Report Date

Page 1 of 1



Alpha Analytical, Inc.

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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052741-17A
Client I.D. Number: SB07GW17052610

Sampled: 05/26/10 09:40
Received: 05/26/10
Extracted: 06/01/10 12:00
Analyzed: 06/03/10

Semivolatile Organics by GC/MS EPA Method SW8270C

| | Compound | Concentration | Reporting Limit |
|----|----------------------------|---------------|-----------------|
| 1 | Phenol | ND | 10 µg/L |
| 2 | 2-Chlorophenol | ND | 10 µg/L |
| 3 | 2-Nitrophenol | ND | 10 µg/L |
| 4 | 2,4-Dimethylphenol | ND | 10 µg/L |
| 5 | 2,4-Dichlorophenol | ND | 10 µg/L |
| 6 | 4-Chloro-3-methylphenol | ND | 20 µg/L |
| 7 | 2,4,6-Trichlorophenol | ND | 10 µg/L |
| 8 | 2,4-Dinitrophenol | ND | 100 µg/L |
| 9 | 4-Nitrophenol | ND | 50 µg/L |
| 10 | 4,6-Dinitro-2-methylphenol | ND | 100 µg/L |
| 11 | Pentachlorophenol | ND | 50 µg/L |

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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6/4/10

Report Date



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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 05/26/10

Job: NTD

Metals by ICPMS
EPA Method SW6020 / SW6020A

| Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed | |
|----------------------------------|---------------|-----------------|----------------|----------------|----------|
| Client ID: SB0102SO052610 | | | | | |
| Lab ID : E2M10052741-01A | Chromium (Cr) | 13 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| Date Sampled 05/26/10 13:30 | Arsenic (As) | 4.8 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Selenium (Se) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Silver (Ag) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Cadmium (Cd) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Barium (Ba) | 110 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Mercury (Hg) | ND | 0.20 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Lead (Pb) | 7.0 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| Client ID: SB0108SO052610 | | | | | |
| Lab ID : E2M10052741-02A | Chromium (Cr) | 17 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| Date Sampled 05/26/10 13:40 | Arsenic (As) | 5.5 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Selenium (Se) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Silver (Ag) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Cadmium (Cd) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Barium (Ba) | 240 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Mercury (Hg) | ND | 0.20 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Lead (Pb) | 11 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| Client ID: SB0113SO052610 | | | | | |
| Lab ID : E2M10052741-03A | Chromium (Cr) | 15 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| Date Sampled 05/26/10 13:50 | Arsenic (As) | 2.8 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Selenium (Se) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Silver (Ag) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Cadmium (Cd) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Barium (Ba) | 150 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Mercury (Hg) | ND | 0.20 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Lead (Pb) | 8.8 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| Client ID: SB0202SO052610 | | | | | |
| Lab ID : E2M10052741-04A | Chromium (Cr) | 16 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| Date Sampled 05/26/10 15:15 | Arsenic (As) | 10 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Selenium (Se) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Silver (Ag) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Cadmium (Cd) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Barium (Ba) | 170 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Mercury (Hg) | ND | 0.20 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Lead (Pb) | 7.3 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |



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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Client ID: SB0208SO052610

| | | | | | |
|-----------------------------|---------------|-----|------------|----------------|----------|
| Lab ID : E2M10052741-05A | Chromium (Cr) | 15 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| Date Sampled 05/26/10 15:50 | Arsenic (As) | 7.4 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Selenium (Se) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Silver (Ag) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Cadmium (Cd) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Barium (Ba) | 150 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Mercury (Hg) | ND | 0.20 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Lead (Pb) | 8.2 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |

Client ID: SB0215SO052610

| | | | | | |
|-----------------------------|---------------|-----|------------|----------------|----------|
| Lab ID : E2M10052741-06A | Chromium (Cr) | 13 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| Date Sampled 05/26/10 16:10 | Arsenic (As) | 7.3 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Selenium (Se) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Silver (Ag) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Cadmium (Cd) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Barium (Ba) | 170 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Mercury (Hg) | ND | 0.20 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Lead (Pb) | 8.6 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |

Client ID: SB0401SO052610

| | | | | | |
|-----------------------------|---------------|-----|------------|----------------|----------|
| Lab ID : E2M10052741-07A | Chromium (Cr) | 19 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| Date Sampled 05/26/10 08:10 | Arsenic (As) | 12 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Selenium (Se) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Silver (Ag) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Cadmium (Cd) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Barium (Ba) | 140 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Mercury (Hg) | ND | 0.20 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Lead (Pb) | 8.5 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |

Client ID: SB0410SO052610

| | | | | | |
|-----------------------------|---------------|-----|------------|----------------|----------|
| Lab ID : E2M10052741-08A | Chromium (Cr) | 20 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| Date Sampled 05/26/10 07:45 | Arsenic (As) | 8.9 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Selenium (Se) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Silver (Ag) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Cadmium (Cd) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Barium (Ba) | 140 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Mercury (Hg) | ND | 0.20 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Lead (Pb) | 11 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |

Client ID: SB0417SO052610

| | | | | | |
|-----------------------------|---------------|-----|------------|----------------|----------|
| Lab ID : E2M10052741-09A | Chromium (Cr) | 23 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| Date Sampled 05/26/10 08:00 | Arsenic (As) | 7.0 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Selenium (Se) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Silver (Ag) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Cadmium (Cd) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Barium (Ba) | 260 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Mercury (Hg) | ND | 0.20 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Lead (Pb) | 36 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |

Client ID: SB0502SO052610

| | | | | | |
|-----------------------------|---------------|-----|------------|----------------|----------|
| Lab ID : E2M10052741-10A | Chromium (Cr) | 17 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| Date Sampled 05/26/10 11:05 | Arsenic (As) | 9.6 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Selenium (Se) | 1.1 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Silver (Ag) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Cadmium (Cd) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Barium (Ba) | 180 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Mercury (Hg) | ND | 0.20 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Lead (Pb) | 9.9 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |



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Client ID: **SB0510SO052610**

| | | | | | |
|-----------------------------|---------------|-----|------------|----------------|----------|
| Lab ID : E2M10052741-11A | Chromium (Cr) | 24 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| Date Sampled 05/26/10 11:30 | Arsenic (As) | 8.7 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Selenium (Se) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Silver (Ag) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Cadmium (Cd) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Barium (Ba) | 190 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Mercury (Hg) | ND | 0.20 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Lead (Pb) | 9.0 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |

Client ID: **SB0517SO052610**

| | | | | | |
|-----------------------------|---------------|-----|------------|----------------|----------|
| Lab ID : E2M10052741-12A | Chromium (Cr) | 19 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| Date Sampled 05/26/10 11:45 | Arsenic (As) | 7.2 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Selenium (Se) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Silver (Ag) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Cadmium (Cd) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Barium (Ba) | 160 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Mercury (Hg) | ND | 0.20 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Lead (Pb) | 7.4 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |

Client ID: **SB0702SO052610**

| | | | | | |
|-----------------------------|---------------|-----|------------|----------------|----------|
| Lab ID : E2M10052741-13A | Chromium (Cr) | 18 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| Date Sampled 05/26/10 08:55 | Arsenic (As) | 11 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Selenium (Se) | 6.2 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Silver (Ag) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Cadmium (Cd) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Barium (Ba) | 390 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Mercury (Hg) | ND | 0.20 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Lead (Pb) | 6.2 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |

Client ID: **SB0710SO052610**

| | | | | | |
|-----------------------------|---------------|-----|------------|----------------|----------|
| Lab ID : E2M10052741-14A | Chromium (Cr) | 11 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| Date Sampled 05/26/10 09:15 | Arsenic (As) | 3.0 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Selenium (Se) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Silver (Ag) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Cadmium (Cd) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Barium (Ba) | 86 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Mercury (Hg) | ND | 0.20 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Lead (Pb) | 4.7 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |

Client ID: **SB0717SO052610**

| | | | | | |
|-----------------------------|---------------|-----|------------|----------------|----------|
| Lab ID : E2M10052741-15A | Chromium (Cr) | 15 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| Date Sampled 05/26/10 09:25 | Arsenic (As) | 5.5 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Selenium (Se) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Silver (Ag) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Cadmium (Cd) | ND | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Barium (Ba) | 120 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Mercury (Hg) | ND | 0.20 mg/Kg | 05/27/10 14:51 | 05/28/10 |
| | Lead (Pb) | 5.2 | 1.0 mg/Kg | 05/27/10 14:51 | 05/28/10 |



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Client ID: **SB02GW15052610**

| | | | | | |
|-----------------------------|----------------|--------|-------------|----------------|----------|
| Lab ID : E2M10052741-16A | Boron (B) | 1.0 | 0.10 mg/L | 05/28/10 11:35 | 05/28/10 |
| Date Sampled 05/26/10 16:30 | Sodium (Na) | 150 | 0.50 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Chromium (Cr) | 0.61 | 0.0050 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Manganese (Mn) | 27 | 0.10 mg/L | 05/28/10 11:35 | 06/04/10 |
| | Iron (Fe) | 1,100 | 0.30 mg/L | 05/28/10-11:35 | 05/28/10 |
| | Nickel (Ni) | 0.70 | 0.010 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Copper (Cu) | 1.6 | 0.010 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Zinc (Zn) | 3.0 | 0.10 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Arsenic (As) | 0.39 | 0.0050 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Selenium (Se) | 0.025 | 0.0050 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Silver (Ag) | ND | 0.0050 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Cadmium (Cd) | 0.0087 | 0.0050 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Barium (Ba) | 14 | 0.0050 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Mercury (Hg) | ND | 0.0010 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Lead (Pb) | 0.36 | 0.0050 mg/L | 05/28/10 11:35 | 05/28/10 |

Client ID: **SB07GW17052610**

| | | | | | |
|-----------------------------|----------------|-------|-------------|----------------|----------|
| Lab ID : E2M10052741-17A | Boron (B) | 1.5 | 0.10 mg/L | 05/28/10 11:35 | 05/28/10 |
| Date Sampled 05/26/10 09:40 | Sodium (Na) | 430 | 0.50 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Chromium (Cr) | 0.13 | 0.0050 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Manganese (Mn) | 5.5 | 0.0050 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Iron (Fe) | 230 | 0.30 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Nickel (Ni) | 0.095 | 0.010 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Copper (Cu) | 0.24 | 0.010 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Zinc (Zn) | 0.51 | 0.10 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Arsenic (As) | 0.45 | 0.0050 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Selenium (Se) | ND | 0.0050 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Silver (Ag) | ND | 0.0050 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Cadmium (Cd) | ND | 0.0050 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Barium (Ba) | 2.4 | 0.0050 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Mercury (Hg) | ND | 0.0010 mg/L | 05/28/10 11:35 | 05/28/10 |
| | Lead (Pb) | 0.15 | 0.0050 mg/L | 05/28/10 11:35 | 05/28/10 |

Sample results were calculated on a wet weight basis.
ND = Not Detected

Roger Scholl *Randy Gardner* *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.


6/4/10

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 05/26/10

Job: NTD

Oil and Grease, HEM
EPA Method 1664A

| Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed |
|---|---------------|-----------------|----------------|---------------|
| Client ID: SB02GW15052610 | | | | |
| Lab ID : E2M10052741-16A Oil & Grease, HEM Date Sampled 05/26/10 16:30 | ND | 5.0 mg/L | 06/02/10 | 06/02/10 |
| Client ID: SB07GW17052610 | | | | |
| Lab ID : E2M10052741-17A Oil & Grease, HEM Date Sampled 05/26/10 09:40 | ND | 5.0 mg/L | 06/02/10 | 06/02/10 |

HEM = Hexane Extractable Material

ND = Not Detected

Roger Scholl *Randy Gardner* *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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6/4/10

Report Date



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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 05/26/10

Job: NTD

pH (Soil)
EPA Method SW9045D

| Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed |
|--|---------------|-----------------|----------------|----------------|
| Client ID: SB0108SO052610 | | | | |
| Lab ID : E2M10052741-02A pH | 8.0 | 1.7 pH Units | 06/01/10 11:32 | 06/01/10 15:52 |
| Date Sampled 05/26/10 13:40 pH - Temperature | 20 | 1.0 °C | 06/01/10 11:32 | 06/01/10 15:52 |
| Client ID: SB0510SO052610 | | | | |
| Lab ID : E2M10052741-11A pH | 8.0 | 1.7 pH Units | 06/01/10 11:32 | 06/01/10 15:55 |
| Date Sampled 05/26/10 11:30 pH - Temperature | 20 | 1.0 °C | 06/01/10 11:32 | 06/01/10 15:55 |
| Client ID: SB0710SO052610 | | | | |
| Lab ID : E2M10052741-14A pH | 7.8 | 1.7 pH Units | 06/01/10 11:32 | 06/01/10 15:58 |
| Date Sampled 05/26/10 09:15 pH - Temperature | 20 | 1.0 °C | 06/01/10 11:32 | 06/01/10 15:58 |

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Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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6/4/10

Report Date



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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 05/26/10

Job: NTD

pH (Range 1.7 to 12.4)

EPA Method 150.2 / SM4500HB / SW9040C

| Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed |
|----------------------------------|------------------|-----------------|----------------|----------------|
| Client ID: SB02GW15052610 | | | | |
| Lab ID : E2M10052741-16A | pH | 7.7 | 1.7 pH Units | 05/27/10 14:29 |
| Date Sampled 05/26/10 16:30 | pH - Temperature | 19 | 1.0 °C | 05/27/10 14:29 |
| Client ID: SB07GW17052610 | | | | |
| Lab ID : E2M10052741-17A | pH | 7.1 | 1.7 pH Units | 05/27/10 14:32 |
| Date Sampled 05/26/10 09:40 | pH - Temperature | 19 | 1.0 °C | 05/27/10 14:32 |

The EPA has established an analytical holding time of 15 minutes for this method as documented in the Methods Update Rule, Federal Register, Vol 72, No 47, March 2007. This holding time will always be exceeded, unless samples are analyzed in the field.

The laboratory performed this analysis in the shortest practical holding time after sample receipt.

Roger Scholl *Randy Gardner* *Walter Hinchman*

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Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

Q
6/4/10

Report Date



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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 05/26/10

Job: NTD

Phosphorus
EPA Method 365.3 / SM4500PE

| Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed |
|---|---------------|-----------------|----------------|---------------|
| Client ID: SB02GW15052610 | | | | |
| Lab ID : E2M10052741-16A Phosphorus, Total (As P) | 50 | 5.0 mg/L | 06/02/10 | 06/02/10 |
| Date Sampled 05/26/10 16:30 | | | | |
| Client ID: SB07GW17052610 | | | | |
| Lab ID : E2M10052741-17A Phosphorus, Total (As P) | 2.0 | 0.50 mg/L | 06/02/10 | 06/02/10 |
| Date Sampled 05/26/10 09:40 | | | | |

Roger Scholl *Randy Gardner* *Walter Hinchman*
 Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
 Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com
 Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.
 Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

06/10
Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 05/26/10

Job: NTD

Total Dissolved Solids (TDS)
SM2540C

| Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed |
|--|---------------|-----------------|----------------|---------------|
| Client ID: SB02GW15052610 | | | | |
| Lab ID : E2M10052741-16A Solids, Total Dissolved (TDS) | 670 | 10 mg/L | 05/28/10 | 05/28/10 |
| Date Sampled 05/26/10 16:30 | | | | |
| Client ID: SB07GW17052610 | | | | |
| Lab ID : E2M10052741-17A Solids, Total Dissolved (TDS) | 1,900 | 10 mg/L | 05/28/10 | 05/28/10 |
| Date Sampled 05/26/10 09:40 | | | | |

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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 05/26/10

Job: NTD

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B

| | Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed |
|--------------|-----------------------|-------------------|-----------------|----------------|---------------|
| Client ID : | SB0102SO052610 | | | | |
| Lab ID : | E2M10052741-01A | TPH-E (DRO) 340 L | 100 mg/Kg | 06/02/10 10:35 | 06/02/10 |
| Date Sampled | 05/26/10 13:30 | TPH-E (ORO) 2,800 | 100 mg/Kg | 06/02/10 10:35 | 06/02/10 |
| | | TPH-P (GRO) ND | 10 mg/Kg | 05/28/10 | 05/28/10 |
| Client ID : | SB0108SO052610 | | | | |
| Lab ID : | E2M10052741-02A | TPH-E (DRO) 290 L | 100 mg/Kg | 06/02/10 10:35 | 06/02/10 |
| Date Sampled | 05/26/10 13:40 | TPH-E (ORO) 2,000 | 100 mg/Kg | 06/02/10 10:35 | 06/02/10 |
| | | TPH-P (GRO) ND | 10 mg/Kg | 05/28/10 | 05/28/10 |
| Client ID : | SB0113SO052610 | | | | |
| Lab ID : | E2M10052741-03A | TPH-E (DRO) ND | 10 mg/Kg | 06/02/10 10:35 | 06/02/10 |
| Date Sampled | 05/26/10 13:50 | TPH-E (ORO) ND | 10 mg/Kg | 06/02/10 10:35 | 06/02/10 |
| | | TPH-P (GRO) ND | 10 mg/Kg | 05/28/10 | 05/28/10 |
| Client ID : | SB0202SO052610 | | | | |
| Lab ID : | E2M10052741-04A | TPH-E (DRO) ND | 10 mg/Kg | 06/02/10 10:35 | 06/02/10 |
| Date Sampled | 05/26/10 15:15 | TPH-E (ORO) ND | 10 mg/Kg | 06/02/10 10:35 | 06/02/10 |
| | | TPH-P (GRO) ND | 10 mg/Kg | 06/02/10 | 06/02/10 |
| Client ID : | SB0208SO052610 | | | | |
| Lab ID : | E2M10052741-05A | TPH-E (DRO) 49 L | 25 mg/Kg | 06/02/10 | 06/02/10 |
| Date Sampled | 05/26/10 15:50 | TPH-E (ORO) 180 | 50 mg/Kg | 06/02/10 | 06/02/10 |
| | | TPH-P (GRO) ND | 10 mg/Kg | 06/02/10 | 06/02/10 |
| Client ID : | SB0215SO052610 | | | | |
| Lab ID : | E2M10052741-06A | TPH-E (DRO) ND | 10 mg/Kg | 06/02/10 10:35 | 06/02/10 |
| Date Sampled | 05/26/10 16:10 | TPH-E (ORO) ND | 10 mg/Kg | 06/02/10 10:35 | 06/02/10 |
| | | TPH-P (GRO) ND | 10 mg/Kg | 06/02/10 | 06/02/10 |
| Client ID : | SB0401SO052610 | | | | |
| Lab ID : | E2M10052741-07A | TPH-E (DRO) 220 L | 100 mg/Kg | 06/02/10 10:35 | 06/02/10 |
| Date Sampled | 05/26/10 08:10 | TPH-E (ORO) 1,800 | 100 mg/Kg | 06/02/10 10:35 | 06/02/10 |
| | | TPH-P (GRO) ND | 10 mg/Kg | 06/04/10 | 06/04/10 |
| Client ID : | SB0410SO052610 | | | | |
| Lab ID : | E2M10052741-08A | TPH-E (DRO) 49 L | 25 mg/Kg | 06/02/10 10:35 | 06/02/10 |
| Date Sampled | 05/26/10 07:45 | TPH-E (ORO) 240 | 50 mg/Kg | 06/02/10 10:35 | 06/02/10 |
| | | TPH-P (GRO) ND | 10 mg/Kg | 06/02/10 | 06/02/10 |
| Client ID : | SB0417SO052610 | | | | |
| Lab ID : | E2M10052741-09A | TPH-E (DRO) 130 L | 100 mg/Kg | 06/02/10 10:35 | 06/02/10 |
| Date Sampled | 05/26/10 08:00 | TPH-E (ORO) 850 | 100 mg/Kg | 06/02/10 10:35 | 06/02/10 |
| | | TPH-P (GRO) ND | 10 mg/Kg | 06/04/10 | 06/04/10 |
| Client ID : | SB0502SO052610 | | | | |
| Lab ID : | E2M10052741-10A | TPH-E (DRO) 42 L | 25 mg/Kg | 06/02/10 10:35 | 06/02/10 |
| Date Sampled | 05/26/10 11:05 | TPH-E (ORO) 130 | 50 mg/Kg | 06/02/10 10:35 | 06/02/10 |
| | | TPH-P (GRO) ND | 10 mg/Kg | 06/04/10 | 06/04/10 |
| Client ID : | SB0510SO052610 | | | | |
| Lab ID : | E2M10052741-11A | TPH-E (DRO) ND | 10 mg/Kg | 06/02/10 10:35 | 06/02/10 |
| Date Sampled | 05/26/10 11:30 | TPH-E (ORO) ND | 10 mg/Kg | 06/02/10 10:35 | 06/02/10 |
| | | TPH-P (GRO) ND | 10 mg/Kg | 06/04/10 | 06/04/10 |



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| | | | | | | |
|--------------|-----------------------|-------------|-------|-----------|----------------|----------|
| Client ID : | SB0517SO052610 | | | | | |
| Lab ID : | E2M10052741-12A | TPH-E (DRO) | ND | 10 mg/Kg | 06/02/10 10:35 | 06/02/10 |
| Date Sampled | 05/26/10 11:45 | TPH-E (ORO) | ND | 10 mg/Kg | 06/02/10 10:35 | 06/02/10 |
| | | TPH-P (GRO) | ND | 10 mg/Kg | 06/04/10 | 06/04/10 |
| Client ID : | SB0702SO052610 | | | | | |
| Lab ID : | E2M10052741-13A | TPH-E (DRO) | 260 L | 100 mg/Kg | 06/02/10 10:35 | 06/02/10 |
| Date Sampled | 05/26/10 08:55 | TPH-E (ORO) | 2,200 | 100 mg/Kg | 06/02/10 10:35 | 06/02/10 |
| | | TPH-P (GRO) | ND | 10 mg/Kg | 06/04/10 | 06/04/10 |
| Client ID : | SB0710SO052610 | | | | | |
| Lab ID : | E2M10052741-14A | TPH-E (DRO) | ND | 10 mg/Kg | 06/02/10 10:35 | 06/02/10 |
| Date Sampled | 05/26/10 09:15 | TPH-E (ORO) | ND | 10 mg/Kg | 06/02/10 10:35 | 06/02/10 |
| | | TPH-P (GRO) | ND | 10 mg/Kg | 06/02/10 | 06/02/10 |
| Client ID : | SB0717SO052610 | | | | | |
| Lab ID : | E2M10052741-15A | TPH-E (DRO) | ND | 10 mg/Kg | 06/02/10 10:35 | 06/02/10 |
| Date Sampled | 05/26/10 09:25 | TPH-E (ORO) | ND | 10 mg/Kg | 06/02/10 10:35 | 06/02/10 |
| | | TPH-P (GRO) | ND | 10 mg/Kg | 06/02/10 | 06/02/10 |
| Client ID : | SB02GW15052610 | | | | | |
| Lab ID : | E2M10052741-16A | TPH-E (DRO) | ND | 0.50 mg/L | 05/27/10 13:35 | 05/28/10 |
| Date Sampled | 05/26/10 16:30 | TPH-E (ORO) | ND | 0.50 mg/L | 05/27/10 13:35 | 05/28/10 |
| | | TPH-P (GRO) | ND | 0.50 mg/L | 05/28/10 | 05/28/10 |
| Client ID : | SB07GW17052610 | | | | | |
| Lab ID : | E2M10052741-17A | TPH-E (DRO) | ND | 0.50 mg/L | 05/27/10 13:35 | 05/28/10 |
| Date Sampled | 05/26/10 09:40 | TPH-E (ORO) | ND | 0.50 mg/L | 05/27/10 13:35 | 05/28/10 |
| | | TPH-P (GRO) | ND | 0.50 mg/L | 05/28/10 | 05/28/10 |

Diesel Range Organics (DRO) C13-C22

Gasoline Range Organics (GRO) C4-C13

L = DRO concentration may include contributions from heavier-end hydrocarbons that elute in the DRO range.

Oil Range Organics (ORO) C22-C40+

Sample results were calculated on a wet weight basis.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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[Signature]

6/4/10

Report Date



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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052741-01A
Client I.D. Number: SB0102SO052610

Sampled: 05/26/10 13:30
Received: 05/26/10
Extracted: 05/28/10
Analyzed: 05/28/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 40 µg/Kg | 36 Bromoform | ND | 40 µg/Kg |
| 2 Chloromethane | ND | 160 µg/Kg | 37 Styrene | ND | 40 µg/Kg |
| 3 Vinyl chloride | ND | 40 µg/Kg | 38 o-Xylene | ND | 20 µg/Kg |
| 4 Chloroethane | ND | 40 µg/Kg | 39 1,1,2,2-Tetrachloroethane | ND | 40 µg/Kg |
| 5 Bromomethane | ND | 160 µg/Kg | 40 1,2,3-Trichloropropane | ND | 160 µg/Kg |
| 6 Trichlorofluoromethane | ND | 40 µg/Kg | 41 Isopropylbenzene | ND | 40 µg/Kg |
| 7 1,1-Dichloroethene | ND | 40 µg/Kg | 42 Bromobenzene | ND | 40 µg/Kg |
| 8 Dichloromethane | ND | 160 µg/Kg | 43 n-Propylbenzene | ND | 40 µg/Kg |
| 9 trans-1,2-Dichloroethene | ND | 40 µg/Kg | 44 4-Chlorotoluene | ND | 40 µg/Kg |
| 10 1,1-Dichloroethane | ND | 40 µg/Kg | 45 2-Chlorotoluene | ND | 40 µg/Kg |
| 11 cis-1,2-Dichloroethene | ND | 40 µg/Kg | 46 1,3,5-Trimethylbenzene | ND | 40 µg/Kg |
| 12 Bromochloromethane | ND | 40 µg/Kg | 47 tert-Butylbenzene | ND | 40 µg/Kg |
| 13 Chloroform | ND | 40 µg/Kg | 48 1,2,4-Trimethylbenzene | ND | 40 µg/Kg |
| 14 2,2-Dichloropropane | ND | 40 µg/Kg | 49 sec-Butylbenzene | ND | 40 µg/Kg |
| 15 1,2-Dichloroethane | ND | 40 µg/Kg | 50 1,3-Dichlorobenzene | ND | 40 µg/Kg |
| 16 1,1,1-Trichloroethane | ND | 40 µg/Kg | 51 1,4-Dichlorobenzene | ND | 40 µg/Kg |
| 17 1,1-Dichloropropene | ND | 40 µg/Kg | 52 4-Isopropyltoluene | ND | 40 µg/Kg |
| 18 Carbon tetrachloride | ND | 40 µg/Kg | 53 1,2-Dichlorobenzene | ND | 40 µg/Kg |
| 19 Benzene | ND | 20 µg/Kg | 54 n-Butylbenzene | ND | 40 µg/Kg |
| 20 Dibromomethane | ND | 40 µg/Kg | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 240 µg/Kg |
| 21 1,2-Dichloropropane | ND | 40 µg/Kg | 56 1,2,4-Trichlorobenzene | ND | 160 µg/Kg |
| 22 Trichloroethene | ND | 40 µg/Kg | 57 Naphthalene | ND | 160 µg/Kg |
| 23 Bromodichloromethane | ND | 40 µg/Kg | 58 Hexachlorobutadiene | ND | 160 µg/Kg |
| 24 cis-1,3-Dichloropropene | ND | 40 µg/Kg | 59 1,2,3-Trichlorobenzene | ND | 160 µg/Kg |
| 25 trans-1,3-Dichloropropene | ND | 40 µg/Kg | | | |
| 26 1,1,2-Trichloroethane | ND | 40 µg/Kg | | | |
| 27 Toluene | ND | 20 µg/Kg | | | |
| 28 1,3-Dichloropropane | ND | 40 µg/Kg | | | |
| 29 Dibromochloromethane | ND | 40 µg/Kg | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 160 µg/Kg | | | |
| 31 Tetrachloroethene | ND | 40 µg/Kg | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 40 µg/Kg | | | |
| 33 Chlorobenzene | ND | 40 µg/Kg | | | |
| 34 Ethylbenzene | ND | 20 µg/Kg | | | |
| 35 m,p-Xylene | ND | 20 µg/Kg | | | |

Some Reporting Limits were increased due to high concentrations of target analytes.

Sample results were calculated on a wet weight basis.

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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[Signature]

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Page 1 of 1



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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052741-02A
Client I.D. Number: SB0108SO052610

Sampled: 05/26/10 13:40
Received: 05/26/10
Extracted: 05/28/10
Analyzed: 05/28/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 20 µg/Kg | 36 Bromoform | ND | 20 µg/Kg |
| 2 Chloromethane | ND | 80 µg/Kg | 37 Styrene | ND | 20 µg/Kg |
| 3 Vinyl chloride | ND | 20 µg/Kg | 38 o-Xylene | ND | 20 µg/Kg |
| 4 Chloroethane | ND | 20 µg/Kg | 39 1,1,2,2-Tetrachloroethane | ND | 20 µg/Kg |
| 5 Bromomethane | ND | 80 µg/Kg | 40 1,2,3-Trichloropropane | ND | 80 µg/Kg |
| 6 Trichlorofluoromethane | ND | 20 µg/Kg | 41 Isopropylbenzene | ND | 20 µg/Kg |
| 7 1,1-Dichloroethane | ND | 20 µg/Kg | 42 Bromobenzene | ND | 20 µg/Kg |
| 8 Dichloromethane | ND | 80 µg/Kg | 43 n-Propylbenzene | ND | 20 µg/Kg |
| 9 trans-1,2-Dichloroethane | ND | 20 µg/Kg | 44 4-Chlorotoluene | ND | 20 µg/Kg |
| 10 1,1-Dichloroethane | ND | 20 µg/Kg | 45 2-Chlorotoluene | ND | 20 µg/Kg |
| 11 cis-1,2-Dichloroethane | ND | 20 µg/Kg | 46 1,3,5-Trimethylbenzene | ND | 20 µg/Kg |
| 12 Bromochloromethane | ND | 20 µg/Kg | 47 tert-Butylbenzene | ND | 20 µg/Kg |
| 13 Chloroform | ND | 20 µg/Kg | 48 1,2,4-Trimethylbenzene | ND | 20 µg/Kg |
| 14 2,2-Dichloropropane | ND | 20 µg/Kg | 49 sec-Butylbenzene | ND | 20 µg/Kg |
| 15 1,2-Dichloroethane | ND | 20 µg/Kg | 50 1,3-Dichlorobenzene | ND | 20 µg/Kg |
| 16 1,1,1-Trichloroethane | ND | 20 µg/Kg | 51 1,4-Dichlorobenzene | ND | 20 µg/Kg |
| 17 1,1-Dichloropropene | ND | 20 µg/Kg | 52 4-Isopropyltoluene | ND | 20 µg/Kg |
| 18 Carbon tetrachloride | ND | 20 µg/Kg | 53 1,2-Dichlorobenzene | ND | 20 µg/Kg |
| 19 Benzene | ND | 20 µg/Kg | 54 n-Butylbenzene | ND | 20 µg/Kg |
| 20 Dibromomethane | ND | 20 µg/Kg | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 120 µg/Kg |
| 21 1,2-Dichloropropane | ND | 20 µg/Kg | 56 1,2,4-Trichlorobenzene | ND | 80 µg/Kg |
| 22 Trichloroethene | ND | 20 µg/Kg | 57 Naphthalene | ND | 80 µg/Kg |
| 23 Bromodichloromethane | ND | 20 µg/Kg | 58 Hexachlorobutadiene | ND | 80 µg/Kg |
| 24 cis-1,3-Dichloropropene | ND | 20 µg/Kg | 59 1,2,3-Trichlorobenzene | ND | 80 µg/Kg |
| 25 trans-1,3-Dichloropropene | ND | 20 µg/Kg | | | |
| 26 1,1,2-Trichloroethane | ND | 20 µg/Kg | | | |
| 27 Toluene | ND | 20 µg/Kg | | | |
| 28 1,3-Dichloropropane | ND | 20 µg/Kg | | | |
| 29 Dibromochloromethane | ND | 20 µg/Kg | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 80 µg/Kg | | | |
| 31 Tetrachloroethene | ND | 20 µg/Kg | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 20 µg/Kg | | | |
| 33 Chlorobenzene | ND | 20 µg/Kg | | | |
| 34 Ethylbenzene | ND | 20 µg/Kg | | | |
| 35 m,p-Xylene | ND | 20 µg/Kg | | | |

Sample results were calculated on a wet weight basis.
ND = Not Detected

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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052741-03A
Client I.D. Number: SB0113SO052610

Sampled: 05/26/10 13:50
Received: 05/26/10
Extracted: 05/28/10
Analyzed: 05/28/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 20 µg/Kg | 36 Bromoform | ND | 20 µg/Kg |
| 2 Chloromethane | ND | 80 µg/Kg | 37 Styrene | ND | 20 µg/Kg |
| 3 Vinyl chloride | ND | 20 µg/Kg | 38 o-Xylene | ND | 20 µg/Kg |
| 4 Chloroethane | ND | 20 µg/Kg | 39 1,1,2,2-Tetrachloroethane | ND | 20 µg/Kg |
| 5 Bromomethane | ND | 80 µg/Kg | 40 1,2,3-Trichloropropane | ND | 80 µg/Kg |
| 6 Trichlorofluoromethane | ND | 20 µg/Kg | 41 Isopropylbenzene | ND | 20 µg/Kg |
| 7 1,1-Dichloroethene | ND | 20 µg/Kg | 42 Bromobenzene | ND | 20 µg/Kg |
| 8 Dichloromethane | ND | 80 µg/Kg | 43 n-Propylbenzene | ND | 20 µg/Kg |
| 9 trans-1,2-Dichloroethene | ND | 20 µg/Kg | 44 4-Chlorotoluene | ND | 20 µg/Kg |
| 10 1,1-Dichloroethane | ND | 20 µg/Kg | 45 2-Chlorotoluene | ND | 20 µg/Kg |
| 11 cis-1,2-Dichloroethene | ND | 20 µg/Kg | 46 1,3,5-Trimethylbenzene | ND | 20 µg/Kg |
| 12 Bromochloromethane | ND | 20 µg/Kg | 47 tert-Butylbenzene | ND | 20 µg/Kg |
| 13 Chloroform | ND | 20 µg/Kg | 48 1,2,4-Trimethylbenzene | ND | 20 µg/Kg |
| 14 2,2-Dichloropropane | ND | 20 µg/Kg | 49 sec-Butylbenzene | ND | 20 µg/Kg |
| 15 1,2-Dichloroethane | ND | 20 µg/Kg | 50 1,3-Dichlorobenzene | ND | 20 µg/Kg |
| 16 1,1,1-Trichloroethane | ND | 20 µg/Kg | 51 1,4-Dichlorobenzene | ND | 20 µg/Kg |
| 17 1,1-Dichloropropene | ND | 20 µg/Kg | 52 4-Isopropyltoluene | ND | 20 µg/Kg |
| 18 Carbon tetrachloride | ND | 20 µg/Kg | 53 1,2-Dichlorobenzene | ND | 20 µg/Kg |
| 19 Benzene | ND | 20 µg/Kg | 54 n-Butylbenzene | ND | 20 µg/Kg |
| 20 Dibromomethane | ND | 20 µg/Kg | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 120 µg/Kg |
| 21 1,2-Dichloropropane | ND | 20 µg/Kg | 56 1,2,4-Trichlorobenzene | ND | 80 µg/Kg |
| 22 Trichloroethene | ND | 20 µg/Kg | 57 Naphthalene | ND | 80 µg/Kg |
| 23 Bromodichloromethane | ND | 20 µg/Kg | 58 Hexachlorobutadiene | ND | 80 µg/Kg |
| 24 cis-1,3-Dichloropropene | ND | 20 µg/Kg | 59 1,2,3-Trichlorobenzene | ND | 80 µg/Kg |
| 25 trans-1,3-Dichloropropene | ND | 20 µg/Kg | | | |
| 26 1,1,2-Trichloroethane | ND | 20 µg/Kg | | | |
| 27 Toluene | ND | 20 µg/Kg | | | |
| 28 1,3-Dichloropropane | ND | 20 µg/Kg | | | |
| 29 Dibromochloromethane | ND | 20 µg/Kg | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 80 µg/Kg | | | |
| 31 Tetrachloroethene | ND | 20 µg/Kg | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 20 µg/Kg | | | |
| 33 Chlorobenzene | ND | 20 µg/Kg | | | |
| 34 Ethylbenzene | ND | 20 µg/Kg | | | |
| 35 m,p-Xylene | ND | 20 µg/Kg | | | |

Sample results were calculated on a wet weight basis.
ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

6/4/10

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052741-04A
Client I.D. Number: SB0202SO052610

Sampled: 05/26/10 15:15
Received: 05/26/10
Extracted: 06/02/10
Analyzed: 06/02/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 20 µg/Kg | 36 Bromoform | ND | 20 µg/Kg |
| 2 Chloromethane | ND | 80 µg/Kg | 37 Styrene | ND | 20 µg/Kg |
| 3 Vinyl chloride | ND | 20 µg/Kg | 38 o-Xylene | ND | 20 µg/Kg |
| 4 Chloroethane | ND | 20 µg/Kg | 39 1,1,2,2-Tetrachloroethane | ND | 20 µg/Kg |
| 5 Bromomethane | ND | 80 µg/Kg | 40 1,2,3-Trichloropropane | ND | 80 µg/Kg |
| 6 Trichlorofluoromethane | ND | 20 µg/Kg | 41 Isopropylbenzene | ND | 20 µg/Kg |
| 7 1,1-Dichloroethene | ND | 20 µg/Kg | 42 Bromobenzene | ND | 20 µg/Kg |
| 8 Dichloromethane | ND | 80 µg/Kg | 43 n-Propylbenzene | ND | 20 µg/Kg |
| 9 trans-1,2-Dichloroethene | ND | 20 µg/Kg | 44 4-Chlorotoluene | ND | 20 µg/Kg |
| 10 1,1-Dichloroethane | ND | 20 µg/Kg | 45 2-Chlorotoluene | ND | 20 µg/Kg |
| 11 cis-1,2-Dichloroethene | ND | 20 µg/Kg | 46 1,3,5-Trimethylbenzene | ND | 20 µg/Kg |
| 12 Bromochloromethane | ND | 20 µg/Kg | 47 tert-Butylbenzene | ND | 20 µg/Kg |
| 13 Chloroform | ND | 20 µg/Kg | 48 1,2,4-Trimethylbenzene | ND | 20 µg/Kg |
| 14 2,2-Dichloropropane | ND | 20 µg/Kg | 49 sec-Butylbenzene | ND | 20 µg/Kg |
| 15 1,2-Dichloroethane | ND | 20 µg/Kg | 50 1,3-Dichlorobenzene | ND | 20 µg/Kg |
| 16 1,1,1-Trichloroethane | ND | 20 µg/Kg | 51 1,4-Dichlorobenzene | ND | 20 µg/Kg |
| 17 1,1-Dichloropropene | ND | 20 µg/Kg | 52 4-Isopropyltoluene | ND | 20 µg/Kg |
| 18 Carbon tetrachloride | ND | 20 µg/Kg | 53 1,2-Dichlorobenzene | ND | 20 µg/Kg |
| 19 Benzene | ND | 20 µg/Kg | 54 n-Butylbenzene | ND | 20 µg/Kg |
| 20 Dibromomethane | ND | 20 µg/Kg | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 120 µg/Kg |
| 21 1,2-Dichloropropane | ND | 20 µg/Kg | 56 1,2,4-Trichlorobenzene | ND | 80 µg/Kg |
| 22 Trichloroethene | ND | 20 µg/Kg | 57 Naphthalene | ND | 80 µg/Kg |
| 23 Bromodichloromethane | ND | 20 µg/Kg | 58 Hexachlorobutadiene | ND | 80 µg/Kg |
| 24 cis-1,3-Dichloropropene | ND | 20 µg/Kg | 59 1,2,3-Trichlorobenzene | ND | 80 µg/Kg |
| 25 trans-1,3-Dichloropropene | ND | 20 µg/Kg | | | |
| 26 1,1,2-Trichloroethane | ND | 20 µg/Kg | | | |
| 27 Toluene | ND | 20 µg/Kg | | | |
| 28 1,3-Dichloropropane | ND | 20 µg/Kg | | | |
| 29 Dibromochloromethane | ND | 20 µg/Kg | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 80 µg/Kg | | | |
| 31 Tetrachloroethene | ND | 20 µg/Kg | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 20 µg/Kg | | | |
| 33 Chlorobenzene | ND | 20 µg/Kg | | | |
| 34 Ethylbenzene | ND | 20 µg/Kg | | | |
| 35 m,p-Xylene | ND | 20 µg/Kg | | | |

Sample results were calculated on a wet weight basis.
ND = Not Detected

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6/4/10

Report Date



Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052741-05A
Client I.D. Number: SB0208SO052610

Sampled: 05/26/10 15:50
Received: 05/26/10
Extracted: 06/02/10
Analyzed: 06/02/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 20 µg/Kg | 36 Bromoform | ND | 20 µg/Kg |
| 2 Chloromethane | ND | 80 µg/Kg | 37 Styrene | ND | 20 µg/Kg |
| 3 Vinyl chloride | ND | 20 µg/Kg | 38 o-Xylene | ND | 20 µg/Kg |
| 4 Chloroethane | ND | 20 µg/Kg | 39 1,1,2,2-Tetrachloroethane | ND | 20 µg/Kg |
| 5 Bromomethane | ND | 80 µg/Kg | 40 1,2,3-Trichloropropane | ND | 80 µg/Kg |
| 6 Trichlorofluoromethane | ND | 20 µg/Kg | 41 Isopropylbenzene | ND | 20 µg/Kg |
| 7 1,1-Dichloroethene | ND | 20 µg/Kg | 42 Bromobenzene | ND | 20 µg/Kg |
| 8 Dichloromethane | ND | 80 µg/Kg | 43 n-Propylbenzene | ND | 20 µg/Kg |
| 9 trans-1,2-Dichloroethene | ND | 20 µg/Kg | 44 4-Chlorotoluene | ND | 20 µg/Kg |
| 10 1,1-Dichloroethane | ND | 20 µg/Kg | 45 2-Chlorotoluene | ND | 20 µg/Kg |
| 11 cis-1,2-Dichloroethene | ND | 20 µg/Kg | 46 1,3,5-Trimethylbenzene | ND | 20 µg/Kg |
| 12 Bromochloromethane | ND | 20 µg/Kg | 47 tert-Butylbenzene | ND | 20 µg/Kg |
| 13 Chloroform | ND | 20 µg/Kg | 48 1,2,4-Trimethylbenzene | ND | 20 µg/Kg |
| 14 2,2-Dichloropropane | ND | 20 µg/Kg | 49 sec-Butylbenzene | ND | 20 µg/Kg |
| 15 1,2-Dichloroethane | ND | 20 µg/Kg | 50 1,3-Dichlorobenzene | ND | 20 µg/Kg |
| 16 1,1,1-Trichloroethane | ND | 20 µg/Kg | 51 1,4-Dichlorobenzene | ND | 20 µg/Kg |
| 17 1,1-Dichloropropene | ND | 20 µg/Kg | 52 4-Isopropyltoluene | ND | 20 µg/Kg |
| 18 Carbon tetrachloride | ND | 20 µg/Kg | 53 1,2-Dichlorobenzene | ND | 20 µg/Kg |
| 19 Benzene | ND | 20 µg/Kg | 54 n-Butylbenzene | ND | 20 µg/Kg |
| 20 Dibromomethane | ND | 20 µg/Kg | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 120 µg/Kg |
| 21 1,2-Dichloropropane | ND | 20 µg/Kg | 56 1,2,4-Trichlorobenzene | ND | 80 µg/Kg |
| 22 Trichloroethene | ND | 20 µg/Kg | 57 Naphthalene | ND | 80 µg/Kg |
| 23 Bromodichloromethane | ND | 20 µg/Kg | 58 Hexachlorobutadiene | ND | 80 µg/Kg |
| 24 cis-1,3-Dichloropropene | ND | 20 µg/Kg | 59 1,2,3-Trichlorobenzene | ND | 80 µg/Kg |
| 25 trans-1,3-Dichloropropene | ND | 20 µg/Kg | | | |
| 26 1,1,2-Trichloroethane | ND | 20 µg/Kg | | | |
| 27 Toluene | ND | 20 µg/Kg | | | |
| 28 1,3-Dichloropropane | ND | 20 µg/Kg | | | |
| 29 Dibromochloromethane | ND | 20 µg/Kg | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 80 µg/Kg | | | |
| 31 Tetrachloroethene | ND | 20 µg/Kg | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 20 µg/Kg | | | |
| 33 Chlorobenzene | ND | 20 µg/Kg | | | |
| 34 Ethylbenzene | ND | 20 µg/Kg | | | |
| 35 m,p-Xylene | ND | 20 µg/Kg | | | |

Sample results were calculated on a wet weight basis.
ND = Not Detected

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6/4/10

Report Date



Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052741-06A
Client I.D. Number: SB0215SO052610

Sampled: 05/26/10 16:10
Received: 05/26/10
Extracted: 06/02/10
Analyzed: 06/02/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 20 µg/Kg | 36 Bromoform | ND | 20 µg/Kg |
| 2 Chloromethane | ND | 80 µg/Kg | 37 Styrene | ND | 20 µg/Kg |
| 3 Vinyl chloride | ND | 20 µg/Kg | 38 o-Xylene | ND | 20 µg/Kg |
| 4 Chloroethane | ND | 20 µg/Kg | 39 1,1,2,2-Tetrachloroethane | ND | 20 µg/Kg |
| 5 Bromomethane | ND | 80 µg/Kg | 40 1,2,3-Trichloropropane | ND | 80 µg/Kg |
| 6 Trichlorofluoromethane | ND | 20 µg/Kg | 41 Isopropylbenzene | ND | 20 µg/Kg |
| 7 1,1-Dichloroethene | ND | 20 µg/Kg | 42 Bromobenzene | ND | 20 µg/Kg |
| 8 Dichloromethane | ND | 80 µg/Kg | 43 n-Propylbenzene | ND | 20 µg/Kg |
| 9 trans-1,2-Dichloroethene | ND | 20 µg/Kg | 44 4-Chlorotoluene | ND | 20 µg/Kg |
| 10 1,1-Dichloroethane | ND | 20 µg/Kg | 45 2-Chlorotoluene | ND | 20 µg/Kg |
| 11 cis-1,2-Dichloroethene | ND | 20 µg/Kg | 46 1,3,5-Trimethylbenzene | ND | 20 µg/Kg |
| 12 Bromochloromethane | ND | 20 µg/Kg | 47 tert-Butylbenzene | ND | 20 µg/Kg |
| 13 Chloroform | ND | 20 µg/Kg | 48 1,2,4-Trimethylbenzene | ND | 20 µg/Kg |
| 14 2,2-Dichloropropane | ND | 20 µg/Kg | 49 sec-Butylbenzene | ND | 20 µg/Kg |
| 15 1,2-Dichloroethane | ND | 20 µg/Kg | 50 1,3-Dichlorobenzene | ND | 20 µg/Kg |
| 16 1,1,1-Trichloroethane | ND | 20 µg/Kg | 51 1,4-Dichlorobenzene | ND | 20 µg/Kg |
| 17 1,1-Dichloropropene | ND | 20 µg/Kg | 52 4-Isopropyltoluene | ND | 20 µg/Kg |
| 18 Carbon tetrachloride | ND | 20 µg/Kg | 53 1,2-Dichlorobenzene | ND | 20 µg/Kg |
| 19 Benzene | ND | 20 µg/Kg | 54 n-Butylbenzene | ND | 20 µg/Kg |
| 20 Dibromomethane | ND | 20 µg/Kg | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 120 µg/Kg |
| 21 1,2-Dichloropropane | ND | 20 µg/Kg | 56 1,2,4-Trichlorobenzene | ND | 80 µg/Kg |
| 22 Trichloroethene | ND | 20 µg/Kg | 57 Naphthalene | ND | 80 µg/Kg |
| 23 Bromodichloromethane | ND | 20 µg/Kg | 58 Hexachlorobutadiene | ND | 80 µg/Kg |
| 24 cis-1,3-Dichloropropene | ND | 20 µg/Kg | 59 1,2,3-Trichlorobenzene | ND | 80 µg/Kg |
| 25 trans-1,3-Dichloropropene | ND | 20 µg/Kg | | | |
| 26 1,1,2-Trichloroethane | ND | 20 µg/Kg | | | |
| 27 Toluene | ND | 20 µg/Kg | | | |
| 28 1,3-Dichloropropane | ND | 20 µg/Kg | | | |
| 29 Dibromochloromethane | ND | 20 µg/Kg | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 80 µg/Kg | | | |
| 31 Tetrachloroethene | ND | 20 µg/Kg | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 20 µg/Kg | | | |
| 33 Chlorobenzene | ND | 20 µg/Kg | | | |
| 34 Ethylbenzene | ND | 20 µg/Kg | | | |
| 35 m,p-Xylene | ND | 20 µg/Kg | | | |

Sample results were calculated on a wet weight basis.
ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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JTG
6/4/10

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052741-07A
Client I.D. Number: SB0401SO052610

Sampled: 05/26/10 08:10
Received: 05/26/10
Extracted: 06/04/10
Analyzed: 06/04/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 80 µg/Kg | 36 Bromoform | ND | 80 µg/Kg |
| 2 Chloromethane | ND | 320 µg/Kg | 37 Styrene | ND | 80 µg/Kg |
| 3 Vinyl chloride | ND | 80 µg/Kg | 38 o-Xylene | ND | 40 µg/Kg |
| 4 Chloroethane | ND | 80 µg/Kg | 39 1,1,2,2-Tetrachloroethane | ND | 80 µg/Kg |
| 5 Bromomethane | ND | 320 µg/Kg | 40 1,2,3-Trichloropropane | ND | 320 µg/Kg |
| 6 Trichlorofluoromethane | ND | 80 µg/Kg | 41 Isopropylbenzene | ND | 80 µg/Kg |
| 7 1,1-Dichloroethane | ND | 80 µg/Kg | 42 Bromobenzene | ND | 80 µg/Kg |
| 8 Dichloromethane | ND | 320 µg/Kg | 43 n-Propylbenzene | ND | 80 µg/Kg |
| 9 trans-1,2-Dichloroethane | ND | 80 µg/Kg | 44 4-Chlorotoluene | ND | 80 µg/Kg |
| 10 1,1-Dichloroethane | ND | 80 µg/Kg | 45 2-Chlorotoluene | ND | 80 µg/Kg |
| 11 cis-1,2-Dichloroethane | ND | 80 µg/Kg | 46 1,3,5-Trimethylbenzene | ND | 80 µg/Kg |
| 12 Bromochloromethane | ND | 80 µg/Kg | 47 tert-Butylbenzene | ND | 80 µg/Kg |
| 13 Chloroform | ND | 80 µg/Kg | 48 1,2,4-Trimethylbenzene | ND | 80 µg/Kg |
| 14 2,2-Dichloropropane | ND | 80 µg/Kg | 49 sec-Butylbenzene | ND | 80 µg/Kg |
| 15 1,2-Dichloroethane | ND | 80 µg/Kg | 50 1,3-Dichlorobenzene | ND | 80 µg/Kg |
| 16 1,1,1-Trichloroethane | ND | 80 µg/Kg | 51 1,4-Dichlorobenzene | ND | 80 µg/Kg |
| 17 1,1-Dichloropropene | ND | 80 µg/Kg | 52 4-Isopropyltoluene | ND | 80 µg/Kg |
| 18 Carbon tetrachloride | ND | 80 µg/Kg | 53 1,2-Dichlorobenzene | ND | 80 µg/Kg |
| 19 Benzene | ND | 40 µg/Kg | 54 n-Butylbenzene | ND | 80 µg/Kg |
| 20 Dibromomethane | ND | 80 µg/Kg | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 480 µg/Kg |
| 21 1,2-Dichloropropane | ND | 80 µg/Kg | 56 1,2,4-Trichlorobenzene | ND | 320 µg/Kg |
| 22 Trichloroethene | ND | 80 µg/Kg | 57 Naphthalene | ND | 320 µg/Kg |
| 23 Bromodichloromethane | ND | 80 µg/Kg | 58 Hexachlorobutadiene | ND | 320 µg/Kg |
| 24 cis-1,3-Dichloropropene | ND | 80 µg/Kg | 59 1,2,3-Trichlorobenzene | ND | 320 µg/Kg |
| 25 trans-1,3-Dichloropropene | ND | 80 µg/Kg | | | |
| 26 1,1,2-Trichloroethane | ND | 80 µg/Kg | | | |
| 27 Toluene | ND | 40 µg/Kg | | | |
| 28 1,3-Dichloropropane | ND | 80 µg/Kg | | | |
| 29 Dibromochloromethane | ND | 80 µg/Kg | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 320 µg/Kg | | | |
| 31 Tetrachloroethane | ND | 80 µg/Kg | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 80 µg/Kg | | | |
| 33 Chlorobenzene | ND | 80 µg/Kg | | | |
| 34 Ethylbenzene | ND | 40 µg/Kg | | | |
| 35 m,p-Xylene | ND | 40 µg/Kg | | | |

Reporting Limits were increased due to high concentrations of target analytes.

Sample results were calculated on a wet weight basis.
ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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6/4/10

Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052741-08A
Client I.D. Number: SB0410SO052610

Sampled: 05/26/10 07:45
Received: 05/26/10
Extracted: 06/02/10
Analyzed: 06/02/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 20 µg/Kg | 36 Bromoform | ND | 20 µg/Kg |
| 2 Chloromethane | ND | 80 µg/Kg | 37 Styrene | ND | 20 µg/Kg |
| 3 Vinyl chloride | ND | 20 µg/Kg | 38 o-Xylene | ND | 20 µg/Kg |
| 4 Chloroethane | ND | 20 µg/Kg | 39 1,1,2,2-Tetrachloroethane | ND | 20 µg/Kg |
| 5 Bromomethane | ND | 80 µg/Kg | 40 1,2,3-Trichloropropane | ND | 80 µg/Kg |
| 6 Trichlorofluoromethane | ND | 20 µg/Kg | 41 Isopropylbenzene | ND | 20 µg/Kg |
| 7 1,1-Dichloroethene | ND | 20 µg/Kg | 42 Bromobenzene | ND | 20 µg/Kg |
| 8 Dichloromethane | ND | 80 µg/Kg | 43 n-Propylbenzene | ND | 20 µg/Kg |
| 9 trans-1,2-Dichloroethene | ND | 20 µg/Kg | 44 4-Chlorotoluene | ND | 20 µg/Kg |
| 10 1,1-Dichloroethane | ND | 20 µg/Kg | 45 2-Chlorotoluene | ND | 20 µg/Kg |
| 11 cis-1,2-Dichloroethene | ND | 20 µg/Kg | 46 1,3,5-Trimethylbenzene | ND | 20 µg/Kg |
| 12 Bromochloromethane | ND | 20 µg/Kg | 47 tert-Butylbenzene | ND | 20 µg/Kg |
| 13 Chloroform | ND | 20 µg/Kg | 48 1,2,4-Trimethylbenzene | ND | 20 µg/Kg |
| 14 2,2-Dichloropropane | ND | 20 µg/Kg | 49 sec-Butylbenzene | ND | 20 µg/Kg |
| 15 1,2-Dichloroethane | ND | 20 µg/Kg | 50 1,3-Dichlorobenzene | ND | 20 µg/Kg |
| 16 1,1,1-Trichloroethane | ND | 20 µg/Kg | 51 1,4-Dichlorobenzene | ND | 20 µg/Kg |
| 17 1,1-Dichloropropene | ND | 20 µg/Kg | 52 4-Isopropyltoluene | ND | 20 µg/Kg |
| 18 Carbon tetrachloride | ND | 20 µg/Kg | 53 1,2-Dichlorobenzene | ND | 20 µg/Kg |
| 19 Benzene | ND | 20 µg/Kg | 54 n-Butylbenzene | ND | 20 µg/Kg |
| 20 Dibromomethane | ND | 20 µg/Kg | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 120 µg/Kg |
| 21 1,2-Dichloropropane | ND | 20 µg/Kg | 56 1,2,4-Trichlorobenzene | ND | 80 µg/Kg |
| 22 Trichloroethene | ND | 20 µg/Kg | 57 Naphthalene | ND | 80 µg/Kg |
| 23 Bromodichloromethane | ND | 20 µg/Kg | 58 Hexachlorobutadiene | ND | 80 µg/Kg |
| 24 cis-1,3-Dichloropropene | ND | 20 µg/Kg | 59 1,2,3-Trichlorobenzene | ND | 80 µg/Kg |
| 25 trans-1,3-Dichloropropene | ND | 20 µg/Kg | | | |
| 26 1,1,2-Trichloroethane | ND | 20 µg/Kg | | | |
| 27 Toluene | ND | 20 µg/Kg | | | |
| 28 1,3-Dichloropropane | ND | 20 µg/Kg | | | |
| 29 Dibromochloromethane | ND | 20 µg/Kg | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 80 µg/Kg | | | |
| 31 Tetrachloroethene | ND | 20 µg/Kg | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 20 µg/Kg | | | |
| 33 Chlorobenzene | ND | 20 µg/Kg | | | |
| 34 Ethylbenzene | ND | 20 µg/Kg | | | |
| 35 m,p-Xylene | ND | 20 µg/Kg | | | |

Sample results were calculated on a wet weight basis.
ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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PG
6/4/10

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052741-09A
Client I.D. Number: SB0417SO052610

Sampled: 05/26/10 08:00
Received: 05/26/10
Extracted: 06/04/10
Analyzed: 06/04/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 40 µg/Kg | 36 Bromoform | ND | 40 µg/Kg |
| 2 Chloromethane | ND | 160 µg/Kg | 37 Styrene | ND | 40 µg/Kg |
| 3 Vinyl chloride | ND | 40 µg/Kg | 38 o-Xylene | ND | 20 µg/Kg |
| 4 Chloroethane | ND | 40 µg/Kg | 39 1,1,2,2-Tetrachloroethane | ND | 40 µg/Kg |
| 5 Bromomethane | ND | 160 µg/Kg | 40 1,2,3-Trichloropropane | ND | 160 µg/Kg |
| 6 Trichlorofluoromethane | ND | 40 µg/Kg | 41 Isopropylbenzene | ND | 40 µg/Kg |
| 7 1,1-Dichloroethene | ND | 40 µg/Kg | 42 Bromobenzene | ND | 40 µg/Kg |
| 8 Dichloromethane | ND | 160 µg/Kg | 43 n-Propylbenzene | ND | 40 µg/Kg |
| 9 trans-1,2-Dichloroethene | ND | 40 µg/Kg | 44 4-Chlorotoluene | ND | 40 µg/Kg |
| 10 1,1-Dichloroethane | ND | 40 µg/Kg | 45 2-Chlorotoluene | ND | 40 µg/Kg |
| 11 cis-1,2-Dichloroethene | ND | 40 µg/Kg | 46 1,3,5-Trimethylbenzene | ND | 40 µg/Kg |
| 12 Bromochloromethane | ND | 40 µg/Kg | 47 tert-Butylbenzene | ND | 40 µg/Kg |
| 13 Chloroform | ND | 40 µg/Kg | 48 1,2,4-Trimethylbenzene | ND | 40 µg/Kg |
| 14 2,2-Dichloropropane | ND | 40 µg/Kg | 49 sec-Butylbenzene | ND | 40 µg/Kg |
| 15 1,2-Dichloroethane | ND | 40 µg/Kg | 50 1,3-Dichlorobenzene | ND | 40 µg/Kg |
| 16 1,1,1-Trichloroethane | ND | 40 µg/Kg | 51 1,4-Dichlorobenzene | ND | 40 µg/Kg |
| 17 1,1-Dichloropropene | ND | 40 µg/Kg | 52 4-Isopropyltoluene | ND | 40 µg/Kg |
| 18 Carbon tetrachloride | ND | 40 µg/Kg | 53 1,2-Dichlorobenzene | ND | 40 µg/Kg |
| 19 Benzene | ND | 20 µg/Kg | 54 n-Butylbenzene | ND | 40 µg/Kg |
| 20 Dibromomethane | ND | 40 µg/Kg | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 240 µg/Kg |
| 21 1,2-Dichloropropane | ND | 40 µg/Kg | 56 1,2,4-Trichlorobenzene | ND | 160 µg/Kg |
| 22 Trichloroethene | ND | 40 µg/Kg | 57 Naphthalene | ND | 160 µg/Kg |
| 23 Bromodichloromethane | ND | 40 µg/Kg | 58 Hexachlorobutadiene | ND | 160 µg/Kg |
| 24 cis-1,3-Dichloropropene | ND | 40 µg/Kg | 59 1,2,3-Trichlorobenzene | ND | 160 µg/Kg |
| 25 trans-1,3-Dichloropropene | ND | 40 µg/Kg | | | |
| 26 1,1,2-Trichloroethane | ND | 40 µg/Kg | | | |
| 27 Toluene | ND | 20 µg/Kg | | | |
| 28 1,3-Dichloropropane | ND | 40 µg/Kg | | | |
| 29 Dibromochloromethane | ND | 40 µg/Kg | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 160 µg/Kg | | | |
| 31 Tetrachloroethene | ND | 40 µg/Kg | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 40 µg/Kg | | | |
| 33 Chlorobenzene | ND | 40 µg/Kg | | | |
| 34 Ethylbenzene | ND | 20 µg/Kg | | | |
| 35 m,p-Xylene | ND | 20 µg/Kg | | | |

Some Reporting Limits were increased due to high concentrations of target analytes.

Sample results were calculated on a wet weight basis.
ND = Not Detected

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6/4/10

Report Date



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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052741-10A
Client I.D. Number: SB0502SO052610

Sampled: 05/26/10 11:05
Received: 05/26/10
Extracted: 06/04/10
Analyzed: 06/04/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 40 µg/Kg | 36 Bromoform | ND | 40 µg/Kg |
| 2 Chloromethane | ND | 160 µg/Kg | 37 Styrene | ND | 40 µg/Kg |
| 3 Vinyl chloride | ND | 40 µg/Kg | 38 o-Xylene | ND | 20 µg/Kg |
| 4 Chloroethane | ND | 40 µg/Kg | 39 1,1,2,2-Tetrachloroethane | ND | 40 µg/Kg |
| 5 Bromomethane | ND | 160 µg/Kg | 40 1,2,3-Trichloropropane | ND | 160 µg/Kg |
| 6 Trichlorofluoromethane | ND | 40 µg/Kg | 41 Isopropylbenzene | ND | 40 µg/Kg |
| 7 1,1-Dichloroethene | ND | 40 µg/Kg | 42 Bromobenzene | ND | 40 µg/Kg |
| 8 Dichloromethane | ND | 160 µg/Kg | 43 n-Propylbenzene | ND | 40 µg/Kg |
| 9 trans-1,2-Dichloroethene | ND | 40 µg/Kg | 44 4-Chlorotoluene | ND | 40 µg/Kg |
| 10 1,1-Dichloroethane | ND | 40 µg/Kg | 45 2-Chlorotoluene | ND | 40 µg/Kg |
| 11 cis-1,2-Dichloroethane | ND | 40 µg/Kg | 46 1,3,5-Trimethylbenzene | ND | 40 µg/Kg |
| 12 Bromochloromethane | ND | 40 µg/Kg | 47 tert-Butylbenzene | ND | 40 µg/Kg |
| 13 Chloroform | ND | 40 µg/Kg | 48 1,2,4-Trimethylbenzene | ND | 40 µg/Kg |
| 14 2,2-Dichloropropane | ND | 40 µg/Kg | 49 sec-Butylbenzene | ND | 40 µg/Kg |
| 15 1,2-Dichloroethane | ND | 40 µg/Kg | 50 1,3-Dichlorobenzene | ND | 40 µg/Kg |
| 16 1,1,1-Trichloroethane | ND | 40 µg/Kg | 51 1,4-Dichlorobenzene | ND | 40 µg/Kg |
| 17 1,1-Dichloropropene | ND | 40 µg/Kg | 52 4-Isopropyltoluene | ND | 40 µg/Kg |
| 18 Carbon tetrachloride | ND | 40 µg/Kg | 53 1,2-Dichlorobenzene | ND | 40 µg/Kg |
| 19 Benzene | ND | 20 µg/Kg | 54 n-Butylbenzene | ND | 40 µg/Kg |
| 20 Dibromomethane | ND | 40 µg/Kg | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 240 µg/Kg |
| 21 1,2-Dichloropropane | ND | 40 µg/Kg | 56 1,2,4-Trichlorobenzene | ND | 160 µg/Kg |
| 22 Trichloroethene | ND | 40 µg/Kg | 57 Naphthalene | ND | 160 µg/Kg |
| 23 Bromodichloromethane | ND | 40 µg/Kg | 58 Hexachlorobutadiene | ND | 160 µg/Kg |
| 24 cis-1,3-Dichloropropene | ND | 40 µg/Kg | 59 1,2,3-Trichlorobenzene | ND | 160 µg/Kg |
| 25 trans-1,3-Dichloropropene | ND | 40 µg/Kg | | | |
| 26 1,1,2-Trichloroethane | ND | 40 µg/Kg | | | |
| 27 Toluene | ND | 20 µg/Kg | | | |
| 28 1,3-Dichloropropane | ND | 40 µg/Kg | | | |
| 29 Dibromochloromethane | ND | 40 µg/Kg | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 160 µg/Kg | | | |
| 31 Tetrachloroethene | ND | 40 µg/Kg | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 40 µg/Kg | | | |
| 33 Chlorobenzene | ND | 40 µg/Kg | | | |
| 34 Ethylbenzene | ND | 20 µg/Kg | | | |
| 35 m,p-Xylene | ND | 20 µg/Kg | | | |

Some Reporting Limits were increased due to high concentrations of target analytes.

Sample results were calculated on a wet weight basis.
ND = Not Detected

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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052741-11A
Client I.D. Number: SB0510SO052610

Sampled: 05/26/10 11:30
Received: 05/26/10
Extracted: 06/04/10
Analyzed: 06/04/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 20 µg/Kg | 36 Bromoform | ND | 20 µg/Kg |
| 2 Chloromethane | ND | 80 µg/Kg | 37 Styrene | ND | 20 µg/Kg |
| 3 Vinyl chloride | ND | 20 µg/Kg | 38 o-Xylene | ND | 20 µg/Kg |
| 4 Chloroethane | ND | 20 µg/Kg | 39 1,1,2,2-Tetrachloroethane | ND | 20 µg/Kg |
| 5 Bromomethane | ND | 80 µg/Kg | 40 1,2,3-Trichloropropane | ND | 80 µg/Kg |
| 6 Trichlorofluoromethane | ND | 20 µg/Kg | 41 Isopropylbenzene | ND | 20 µg/Kg |
| 7 1,1-Dichloroethene | ND | 20 µg/Kg | 42 Bromobenzene | ND | 20 µg/Kg |
| 8 Dichloromethane | ND | 80 µg/Kg | 43 n-Propylbenzene | ND | 20 µg/Kg |
| 9 trans-1,2-Dichloroethene | ND | 20 µg/Kg | 44 4-Chlorotoluene | ND | 20 µg/Kg |
| 10 1,1-Dichloroethane | ND | 20 µg/Kg | 45 2-Chlorotoluene | ND | 20 µg/Kg |
| 11 cis-1,2-Dichloroethene | ND | 20 µg/Kg | 46 1,3,5-Trimethylbenzene | ND | 20 µg/Kg |
| 12 Bromochloromethane | ND | 20 µg/Kg | 47 tert-Butylbenzene | ND | 20 µg/Kg |
| 13 Chloroform | ND | 20 µg/Kg | 48 1,2,4-Trimethylbenzene | ND | 20 µg/Kg |
| 14 2,2-Dichloropropane | ND | 20 µg/Kg | 49 sec-Butylbenzene | ND | 20 µg/Kg |
| 15 1,2-Dichloroethane | ND | 20 µg/Kg | 50 1,3-Dichlorobenzene | ND | 20 µg/Kg |
| 16 1,1,1-Trichloroethane | ND | 20 µg/Kg | 51 1,4-Dichlorobenzene | ND | 20 µg/Kg |
| 17 1,1-Dichloropropene | ND | 20 µg/Kg | 52 4-Isopropyltoluene | ND | 20 µg/Kg |
| 18 Carbon tetrachloride | ND | 20 µg/Kg | 53 1,2-Dichlorobenzene | ND | 20 µg/Kg |
| 19 Benzene | ND | 20 µg/Kg | 54 n-Butylbenzene | ND | 20 µg/Kg |
| 20 Dibromomethane | ND | 20 µg/Kg | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 120 µg/Kg |
| 21 1,2-Dichloropropane | ND | 20 µg/Kg | 56 1,2,4-Trichlorobenzene | ND | 80 µg/Kg |
| 22 Trichloroethene | ND | 20 µg/Kg | 57 Naphthalene | ND | 80 µg/Kg |
| 23 Bromodichloromethane | ND | 20 µg/Kg | 58 Hexachlorobutadiene | ND | 80 µg/Kg |
| 24 cis-1,3-Dichloropropene | ND | 20 µg/Kg | 59 1,2,3-Trichlorobenzene | ND | 80 µg/Kg |
| 25 trans-1,3-Dichloropropene | ND | 20 µg/Kg | | | |
| 26 1,1,2-Trichloroethane | ND | 20 µg/Kg | | | |
| 27 Toluene | ND | 20 µg/Kg | | | |
| 28 1,3-Dichloropropane | ND | 20 µg/Kg | | | |
| 29 Dibromochloromethane | ND | 20 µg/Kg | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 80 µg/Kg | | | |
| 31 Tetrachloroethene | ND | 20 µg/Kg | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 20 µg/Kg | | | |
| 33 Chlorobenzene | ND | 20 µg/Kg | | | |
| 34 Ethylbenzene | ND | 20 µg/Kg | | | |
| 35 m,p-Xylene | ND | 20 µg/Kg | | | |

Sample results were calculated on a wet weight basis.
ND = Not Detected

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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052741-12A
Client I.D. Number: SB0517SO052610

Sampled: 05/26/10 11:45
Received: 05/26/10
Extracted: 06/04/10
Analyzed: 06/04/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 20 µg/Kg | 36 Bromoform | ND | 20 µg/Kg |
| 2 Chloromethane | ND | 80 µg/Kg | 37 Styrene | ND | 20 µg/Kg |
| 3 Vinyl chloride | ND | 20 µg/Kg | 38 o-Xylene | ND | 20 µg/Kg |
| 4 Chloroethane | ND | 20 µg/Kg | 39 1,1,2,2-Tetrachloroethane | ND | 20 µg/Kg |
| 5 Bromomethane | ND | 80 µg/Kg | 40 1,2,3-Trichloropropane | ND | 80 µg/Kg |
| 6 Trichlorofluoromethane | ND | 20 µg/Kg | 41 Isopropylbenzene | ND | 20 µg/Kg |
| 7 1,1-Dichloroethene | ND | 20 µg/Kg | 42 Bromobenzene | ND | 20 µg/Kg |
| 8 Dichloromethane | ND | 80 µg/Kg | 43 n-Propylbenzene | ND | 20 µg/Kg |
| 9 trans-1,2-Dichloroethene | ND | 20 µg/Kg | 44 4-Chlorotoluene | ND | 20 µg/Kg |
| 10 1,1-Dichloroethane | ND | 20 µg/Kg | 45 2-Chlorotoluene | ND | 20 µg/Kg |
| 11 cis-1,2-Dichloroethene | ND | 20 µg/Kg | 46 1,3,5-Trimethylbenzene | ND | 20 µg/Kg |
| 12 Bromochloromethane | ND | 20 µg/Kg | 47 tert-Butylbenzene | ND | 20 µg/Kg |
| 13 Chloroform | ND | 20 µg/Kg | 48 1,2,4-Trimethylbenzene | ND | 20 µg/Kg |
| 14 2,2-Dichloropropane | ND | 20 µg/Kg | 49 sec-Butylbenzene | ND | 20 µg/Kg |
| 15 1,2-Dichloroethane | ND | 20 µg/Kg | 50 1,3-Dichlorobenzene | ND | 20 µg/Kg |
| 16 1,1,1-Trichloroethane | ND | 20 µg/Kg | 51 1,4-Dichlorobenzene | ND | 20 µg/Kg |
| 17 1,1-Dichloropropene | ND | 20 µg/Kg | 52 4-Isopropyltoluene | ND | 20 µg/Kg |
| 18 Carbon tetrachloride | ND | 20 µg/Kg | 53 1,2-Dichlorobenzene | ND | 20 µg/Kg |
| 19 Benzene | ND | 20 µg/Kg | 54 n-Butylbenzene | ND | 20 µg/Kg |
| 20 Dibromomethane | ND | 20 µg/Kg | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 120 µg/Kg |
| 21 1,2-Dichloropropane | ND | 20 µg/Kg | 56 1,2,4-Trichlorobenzene | ND | 80 µg/Kg |
| 22 Trichloroethene | ND | 20 µg/Kg | 57 Naphthalene | ND | 80 µg/Kg |
| 23 Bromodichloromethane | ND | 20 µg/Kg | 58 Hexachlorobutadiene | ND | 80 µg/Kg |
| 24 cis-1,3-Dichloropropene | ND | 20 µg/Kg | 59 1,2,3-Trichlorobenzene | ND | 80 µg/Kg |
| 25 trans-1,3-Dichloropropene | ND | 20 µg/Kg | | | |
| 26 1,1,2-Trichloroethane | ND | 20 µg/Kg | | | |
| 27 Toluene | ND | 20 µg/Kg | | | |
| 28 1,3-Dichloropropane | ND | 20 µg/Kg | | | |
| 29 Dibromochloromethane | ND | 20 µg/Kg | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 80 µg/Kg | | | |
| 31 Tetrachloroethene | ND | 20 µg/Kg | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 20 µg/Kg | | | |
| 33 Chlorobenzene | ND | 20 µg/Kg | | | |
| 34 Ethylbenzene | ND | 20 µg/Kg | | | |
| 35 m,p-Xylene | ND | 20 µg/Kg | | | |

Sample results were calculated on a wet weight basis.
ND = Not Detected

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2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052741-13A
Client I.D. Number: SB0702SO052610

Sampled: 05/26/10 08:55
Received: 05/26/10
Extracted: 06/04/10
Analyzed: 06/04/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 40 µg/Kg | 36 Bromoform | ND | 40 µg/Kg |
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| 5 Bromomethane | ND | 160 µg/Kg | 40 1,2,3-Trichloropropane | ND | 160 µg/Kg |
| 6 Trichlorofluoromethane | ND | 40 µg/Kg | 41 Isopropylbenzene | ND | 40 µg/Kg |
| 7 1,1-Dichloroethene | ND | 40 µg/Kg | 42 Bromobenzene | ND | 40 µg/Kg |
| 8 Dichloromethane | ND | 160 µg/Kg | 43 n-Propylbenzene | ND | 40 µg/Kg |
| 9 trans-1,2-Dichloroethene | ND | 40 µg/Kg | 44 4-Chlorotoluene | ND | 40 µg/Kg |
| 10 1,1-Dichloroethane | ND | 40 µg/Kg | 45 2-Chlorotoluene | ND | 40 µg/Kg |
| 11 cis-1,2-Dichloroethene | ND | 40 µg/Kg | 46 1,3,5-Trimethylbenzene | ND | 40 µg/Kg |
| 12 Bromochloromethane | ND | 40 µg/Kg | 47 tert-Butylbenzene | ND | 40 µg/Kg |
| 13 Chloroform | ND | 40 µg/Kg | 48 1,2,4-Trimethylbenzene | ND | 40 µg/Kg |
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| 15 1,2-Dichloroethane | ND | 40 µg/Kg | 50 1,3-Dichlorobenzene | ND | 40 µg/Kg |
| 16 1,1,1-Trichloroethane | ND | 40 µg/Kg | 51 1,4-Dichlorobenzene | ND | 40 µg/Kg |
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| 24 cis-1,3-Dichloropropene | ND | 40 µg/Kg | 59 1,2,3-Trichlorobenzene | ND | 160 µg/Kg |
| 25 trans-1,3-Dichloropropene | ND | 40 µg/Kg | | | |
| 26 1,1,2-Trichloroethane | ND | 40 µg/Kg | | | |
| 27 Toluene | ND | 20 µg/Kg | | | |
| 28 1,3-Dichloropropane | ND | 40 µg/Kg | | | |
| 29 Dibromochloromethane | ND | 40 µg/Kg | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 160 µg/Kg | | | |
| 31 Tetrachloroethene | ND | 40 µg/Kg | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 40 µg/Kg | | | |
| 33 Chlorobenzene | ND | 40 µg/Kg | | | |
| 34 Ethylbenzene | ND | 20 µg/Kg | | | |
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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052741-14A
Client I.D. Number: SB0710SO052610

Sampled: 05/26/10 09:15
Received: 05/26/10
Extracted: 06/02/10
Analyzed: 06/02/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 20 µg/Kg | 36 Bromoform | ND | 20 µg/Kg |
| 2 Chloromethane | ND | 80 µg/Kg | 37 Styrene | ND | 20 µg/Kg |
| 3 Vinyl chloride | ND | 20 µg/Kg | 38 o-Xylene | ND | 20 µg/Kg |
| 4 Chloroethane | ND | 20 µg/Kg | 39 1,1,2,2-Tetrachloroethane | ND | 20 µg/Kg |
| 5 Bromomethane | ND | 80 µg/Kg | 40 1,2,3-Trichloropropane | ND | 80 µg/Kg |
| 6 Trichlorofluoromethane | ND | 20 µg/Kg | 41 Isopropylbenzene | ND | 20 µg/Kg |
| 7 1,1-Dichloroethene | ND | 20 µg/Kg | 42 Bromobenzene | ND | 20 µg/Kg |
| 8 Dichloromethane | ND | 80 µg/Kg | 43 n-Propylbenzene | ND | 20 µg/Kg |
| 9 trans-1,2-Dichloroethene | ND | 20 µg/Kg | 44 4-Chlorotoluene | ND | 20 µg/Kg |
| 10 1,1-Dichloroethane | ND | 20 µg/Kg | 45 2-Chlorotoluene | ND | 20 µg/Kg |
| 11 cis-1,2-Dichloroethane | ND | 20 µg/Kg | 46 1,3,5-Trimethylbenzene | ND | 20 µg/Kg |
| 12 Bromochloromethane | ND | 20 µg/Kg | 47 tert-Butylbenzene | ND | 20 µg/Kg |
| 13 Chloroform | ND | 20 µg/Kg | 48 1,2,4-Trimethylbenzene | ND | 20 µg/Kg |
| 14 2,2-Dichloropropane | ND | 20 µg/Kg | 49 sec-Butylbenzene | ND | 20 µg/Kg |
| 15 1,2-Dichloroethane | ND | 20 µg/Kg | 50 1,3-Dichlorobenzene | ND | 20 µg/Kg |
| 16 1,1,1-Trichloroethane | ND | 20 µg/Kg | 51 1,4-Dichlorobenzene | ND | 20 µg/Kg |
| 17 1,1-Dichloropropene | ND | 20 µg/Kg | 52 4-Isopropyltoluene | ND | 20 µg/Kg |
| 18 Carbon tetrachloride | ND | 20 µg/Kg | 53 1,2-Dichlorobenzene | ND | 20 µg/Kg |
| 19 Benzene | ND | 20 µg/Kg | 54 n-Butylbenzene | ND | 20 µg/Kg |
| 20 Dibromomethane | ND | 20 µg/Kg | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 120 µg/Kg |
| 21 1,2-Dichloropropane | ND | 20 µg/Kg | 56 1,2,4-Trichlorobenzene | ND | 80 µg/Kg |
| 22 Trichloroethene | ND | 20 µg/Kg | 57 Naphthalene | ND | 80 µg/Kg |
| 23 Bromodichloromethane | ND | 20 µg/Kg | 58 Hexachlorobutadiene | ND | 80 µg/Kg |
| 24 cis-1,3-Dichloropropene | ND | 20 µg/Kg | 59 1,2,3-Trichlorobenzene | ND | 80 µg/Kg |
| 25 trans-1,3-Dichloropropene | ND | 20 µg/Kg | | | |
| 26 1,1,2-Trichloroethane | ND | 20 µg/Kg | | | |
| 27 Toluene | ND | 20 µg/Kg | | | |
| 28 1,3-Dichloropropane | ND | 20 µg/Kg | | | |
| 29 Dibromochloromethane | ND | 20 µg/Kg | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 80 µg/Kg | | | |
| 31 Tetrachloroethene | ND | 20 µg/Kg | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 20 µg/Kg | | | |
| 33 Chlorobenzene | ND | 20 µg/Kg | | | |
| 34 Ethylbenzene | ND | 20 µg/Kg | | | |
| 35 m,p-Xylene | ND | 20 µg/Kg | | | |

Sample results were calculated on a wet weight basis.
ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

JAG

6/4/10

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052741-15A
Client I.D. Number: SB0717SO052610

Sampled: 05/26/10 09:25
Received: 05/26/10
Extracted: 06/02/10
Analyzed: 06/02/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 20 µg/Kg | 36 Bromoform | ND | 20 µg/Kg |
| 2 Chloromethane | ND | 80 µg/Kg | 37 Styrene | ND | 20 µg/Kg |
| 3 Vinyl chloride | ND | 20 µg/Kg | 38 o-Xylene | ND | 20 µg/Kg |
| 4 Chloroethane | ND | 20 µg/Kg | 39 1,1,2,2-Tetrachloroethane | ND | 20 µg/Kg |
| 5 Bromomethane | ND | 80 µg/Kg | 40 1,2,3-Trichloropropane | ND | 80 µg/Kg |
| 6 Trichlorofluoromethane | ND | 20 µg/Kg | 41 Isopropylbenzene | ND | 20 µg/Kg |
| 7 1,1-Dichloroethene | ND | 20 µg/Kg | 42 Bromobenzene | ND | 20 µg/Kg |
| 8 Dichloromethane | ND | 80 µg/Kg | 43 n-Propylbenzene | ND | 20 µg/Kg |
| 9 trans-1,2-Dichloroethene | ND | 20 µg/Kg | 44 4-Chlorotoluene | ND | 20 µg/Kg |
| 10 1,1-Dichloroethane | ND | 20 µg/Kg | 45 2-Chlorotoluene | ND | 20 µg/Kg |
| 11 cis-1,2-Dichloroethene | ND | 20 µg/Kg | 46 1,3,5-Trimethylbenzene | ND | 20 µg/Kg |
| 12 Bromochloromethane | ND | 20 µg/Kg | 47 tert-Butylbenzene | ND | 20 µg/Kg |
| 13 Chloroform | ND | 20 µg/Kg | 48 1,2,4-Trimethylbenzene | ND | 20 µg/Kg |
| 14 2,2-Dichloropropane | ND | 20 µg/Kg | 49 sec-Butylbenzene | ND | 20 µg/Kg |
| 15 1,2-Dichloroethane | ND | 20 µg/Kg | 50 1,3-Dichlorobenzene | ND | 20 µg/Kg |
| 16 1,1,1-Trichloroethane | ND | 20 µg/Kg | 51 1,4-Dichlorobenzene | ND | 20 µg/Kg |
| 17 1,1-Dichloropropene | ND | 20 µg/Kg | 52 4-Isopropyltoluene | ND | 20 µg/Kg |
| 18 Carbon tetrachloride | ND | 20 µg/Kg | 53 1,2-Dichlorobenzene | ND | 20 µg/Kg |
| 19 Benzene | ND | 20 µg/Kg | 54 n-Butylbenzene | ND | 20 µg/Kg |
| 20 Dibromomethane | ND | 20 µg/Kg | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 120 µg/Kg |
| 21 1,2-Dichloropropane | ND | 20 µg/Kg | 56 1,2,4-Trichlorobenzene | ND | 80 µg/Kg |
| 22 Trichloroethene | ND | 20 µg/Kg | 57 Naphthalene | ND | 80 µg/Kg |
| 23 Bromodichloromethane | ND | 20 µg/Kg | 58 Hexachlorobutadiene | ND | 80 µg/Kg |
| 24 cis-1,3-Dichloropropene | ND | 20 µg/Kg | 59 1,2,3-Trichlorobenzene | ND | 80 µg/Kg |
| 25 trans-1,3-Dichloropropene | ND | 20 µg/Kg | | | |
| 26 1,1,2-Trichloroethane | ND | 20 µg/Kg | | | |
| 27 Toluene | ND | 20 µg/Kg | | | |
| 28 1,3-Dichloropropane | ND | 20 µg/Kg | | | |
| 29 Dibromochloromethane | ND | 20 µg/Kg | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 80 µg/Kg | | | |
| 31 Tetrachloroethene | ND | 20 µg/Kg | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 20 µg/Kg | | | |
| 33 Chlorobenzene | ND | 20 µg/Kg | | | |
| 34 Ethylbenzene | ND | 20 µg/Kg | | | |
| 35 m,p-Xylene | ND | 20 µg/Kg | | | |

Sample results were calculated on a wet weight basis.
ND = Not Detected

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6/4/10

Report Date



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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052741-16A
Client I.D. Number: SB02GW15052610

Sampled: 05/26/10 16:30
Received: 05/26/10
Extracted: 05/28/10
Analyzed: 05/28/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 1.0 µg/L | 36 Bromoform | ND | 1.0 µg/L |
| 2 Chloromethane | ND | 2.0 µg/L | 37 Styrene | ND | 1.0 µg/L |
| 3 Vinyl chloride | ND | 1.0 µg/L | 38 o-Xylene | ND | 1.0 µg/L |
| 4 Chloroethane | ND | 1.0 µg/L | 39 1,1,2,2-Tetrachloroethane | ND | 1.0 µg/L |
| 5 Bromomethane | ND | 2.0 µg/L | 40 1,2,3-Trichloropropane | ND | 2.0 µg/L |
| 6 Trichlorofluoromethane | ND | 1.0 µg/L | 41 Isopropylbenzene | ND | 1.0 µg/L |
| 7 1,1-Dichloroethene | ND | 1.0 µg/L | 42 Bromobenzene | ND | 1.0 µg/L |
| 8 Dichloromethane | ND | 2.0 µg/L | 43 n-Propylbenzene | ND | 1.0 µg/L |
| 9 trans-1,2-Dichloroethene | ND | 1.0 µg/L | 44 4-Chlorotoluene | ND | 1.0 µg/L |
| 10 1,1-Dichloroethane | ND | 1.0 µg/L | 45 2-Chlorotoluene | ND | 1.0 µg/L |
| 11 cis-1,2-Dichloroethene | ND | 1.0 µg/L | 46 1,3,5-Trimethylbenzene | ND | 1.0 µg/L |
| 12 Bromochloromethane | ND | 1.0 µg/L | 47 tert-Butylbenzene | ND | 1.0 µg/L |
| 13 Chloroform | ND | 1.0 µg/L | 48 1,2,4-Trimethylbenzene | ND | 1.0 µg/L |
| 14 2,2-Dichloropropane | ND | 1.0 µg/L | 49 sec-Butylbenzene | ND | 1.0 µg/L |
| 15 1,2-Dichloroethane | ND | 1.0 µg/L | 50 1,3-Dichlorobenzene | ND | 1.0 µg/L |
| 16 1,1,1-Trichloroethane | ND | 1.0 µg/L | 51 1,4-Dichlorobenzene | ND | 1.0 µg/L |
| 17 1,1-Dichloropropene | ND | 1.0 µg/L | 52 4-Isopropyltoluene | ND | 1.0 µg/L |
| 18 Carbon tetrachloride | ND | 1.0 µg/L | 53 1,2-Dichlorobenzene | ND | 1.0 µg/L |
| 19 Benzene | ND | 1.0 µg/L | 54 n-Butylbenzene | ND | 1.0 µg/L |
| 20 Dibromomethane | ND | 1.0 µg/L | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 3.0 µg/L |
| 21 1,2-Dichloropropane | ND | 1.0 µg/L | 56 1,2,4-Trichlorobenzene | ND | 2.0 µg/L |
| 22 Trichloroethene | ND | 1.0 µg/L | 57 Naphthalene | ND | 2.0 µg/L |
| 23 Bromodichloromethane | ND | 1.0 µg/L | 58 Hexachlorobutadiene | ND | 2.0 µg/L |
| 24 cis-1,3-Dichloropropene | ND | 1.0 µg/L | 59 1,2,3-Trichlorobenzene | ND | 2.0 µg/L |
| 25 trans-1,3-Dichloropropene | ND | 1.0 µg/L | | | |
| 26 1,1,2-Trichloroethane | ND | 1.0 µg/L | | | |
| 27 Toluene | ND | 1.0 µg/L | | | |
| 28 1,3-Dichloropropane | ND | 1.0 µg/L | | | |
| 29 Dibromochloromethane | ND | 1.0 µg/L | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 2.0 µg/L | | | |
| 31 Tetrachloroethene | ND | 1.0 µg/L | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 1.0 µg/L | | | |
| 33 Chlorobenzene | ND | 1.0 µg/L | | | |
| 34 Ethylbenzene | ND | 1.0 µg/L | | | |
| 35 m,p-Xylene | ND | 1.0 µg/L | | | |

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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PG

6/4/10

Report Date

Page 1 of 1



Alpha Analytical, Inc.

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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052741-17A
Client I.D. Number: SB07GW17052610

Sampled: 05/26/10 09:40
Received: 05/26/10
Extracted: 05/28/10
Analyzed: 05/28/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 1.0 µg/L | 36 Bromoform | ND | 1.0 µg/L |
| 2 Chloromethane | ND | 2.0 µg/L | 37 Styrene | ND | 1.0 µg/L |
| 3 Vinyl chloride | ND | 1.0 µg/L | 38 o-Xylene | ND | 1.0 µg/L |
| 4 Chloroethane | ND | 1.0 µg/L | 39 1,1,2,2-Tetrachloroethane | ND | 1.0 µg/L |
| 5 Bromomethane | ND | 2.0 µg/L | 40 1,2,3-Trichloropropane | ND | 2.0 µg/L |
| 6 Trichlorofluoromethane | ND | 1.0 µg/L | 41 Isopropylbenzene | ND | 1.0 µg/L |
| 7 1,1-Dichloroethene | ND | 1.0 µg/L | 42 Bromobenzene | ND | 1.0 µg/L |
| 8 Dichloromethane | ND | 2.0 µg/L | 43 n-Propylbenzene | ND | 1.0 µg/L |
| 9 trans-1,2-Dichloroethene | ND | 1.0 µg/L | 44 4-Chlorotoluene | ND | 1.0 µg/L |
| 10 1,1-Dichloroethane | ND | 1.0 µg/L | 45 2-Chlorotoluene | ND | 1.0 µg/L |
| 11 cis-1,2-Dichloroethene | ND | 1.0 µg/L | 46 1,3,5-Trimethylbenzene | ND | 1.0 µg/L |
| 12 Bromochloromethane | ND | 1.0 µg/L | 47 tert-Butylbenzene | ND | 1.0 µg/L |
| 13 Chloroform | ND | 1.0 µg/L | 48 1,2,4-Trimethylbenzene | ND | 1.0 µg/L |
| 14 2,2-Dichloropropane | ND | 1.0 µg/L | 49 sec-Butylbenzene | ND | 1.0 µg/L |
| 15 1,2-Dichloroethane | ND | 1.0 µg/L | 50 1,3-Dichlorobenzene | ND | 1.0 µg/L |
| 16 1,1,1-Trichloroethane | ND | 1.0 µg/L | 51 1,4-Dichlorobenzene | ND | 1.0 µg/L |
| 17 1,1-Dichloropropene | ND | 1.0 µg/L | 52 4-Isopropyltoluene | ND | 1.0 µg/L |
| 18 Carbon tetrachloride | ND | 1.0 µg/L | 53 1,2-Dichlorobenzene | ND | 1.0 µg/L |
| 19 Benzene | ND | 1.0 µg/L | 54 n-Butylbenzene | ND | 1.0 µg/L |
| 20 Dibromomethane | ND | 1.0 µg/L | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 3.0 µg/L |
| 21 1,2-Dichloropropane | ND | 1.0 µg/L | 56 1,2,4-Trichlorobenzene | ND | 2.0 µg/L |
| 22 Trichloroethene | ND | 1.0 µg/L | 57 Naphthalene | ND | 2.0 µg/L |
| 23 Bromodichloromethane | ND | 1.0 µg/L | 58 Hexachlorobutadiene | ND | 2.0 µg/L |
| 24 cis-1,3-Dichloropropene | ND | 1.0 µg/L | 59 1,2,3-Trichlorobenzene | ND | 2.0 µg/L |
| 25 trans-1,3-Dichloropropene | ND | 1.0 µg/L | | | |
| 26 1,1,2-Trichloroethane | ND | 1.0 µg/L | | | |
| 27 Toluene | ND | 1.0 µg/L | | | |
| 28 1,3-Dichloropropane | ND | 1.0 µg/L | | | |
| 29 Dibromochloromethane | ND | 1.0 µg/L | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 2.0 µg/L | | | |
| 31 Tetrachloroethene | ND | 1.0 µg/L | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 1.0 µg/L | | | |
| 33 Chlorobenzene | ND | 1.0 µg/L | | | |
| 34 Ethylbenzene | ND | 1.0 µg/L | | | |
| 35 m,p-Xylene | ND | 1.0 µg/L | | | |

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
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JPG
6/4/10

Report Date



Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052741-18A
Client I.D. Number: TB02GWNA052610

Sampled: 05/26/10 07:00
Received: 05/26/10
Extracted: 05/28/10
Analyzed: 05/28/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 1.0 µg/L | 36 Bromoform | ND | 1.0 µg/L |
| 2 Chloromethane | ND | 2.0 µg/L | 37 Styrene | ND | 1.0 µg/L |
| 3 Vinyl chloride | ND | 1.0 µg/L | 38 o-Xylene | ND | 1.0 µg/L |
| 4 Chloroethane | ND | 1.0 µg/L | 39 1,1,2,2-Tetrachloroethane | ND | 1.0 µg/L |
| 5 Bromomethane | ND | 2.0 µg/L | 40 1,2,3-Trichloropropane | ND | 2.0 µg/L |
| 6 Trichlorofluoromethane | ND | 1.0 µg/L | 41 Isopropylbenzene | ND | 1.0 µg/L |
| 7 1,1-Dichloroethene | ND | 1.0 µg/L | 42 Bromobenzene | ND | 1.0 µg/L |
| 8 Dichloromethane | ND | 2.0 µg/L | 43 n-Propylbenzene | ND | 1.0 µg/L |
| 9 trans-1,2-Dichloroethene | ND | 1.0 µg/L | 44 4-Chlorotoluene | ND | 1.0 µg/L |
| 10 1,1-Dichloroethane | ND | 1.0 µg/L | 45 2-Chlorotoluene | ND | 1.0 µg/L |
| 11 cis-1,2-Dichloroethene | ND | 1.0 µg/L | 46 1,3,5-Trimethylbenzene | ND | 1.0 µg/L |
| 12 Bromochloromethane | ND | 1.0 µg/L | 47 tert-Butylbenzene | ND | 1.0 µg/L |
| 13 Chloroform | ND | 1.0 µg/L | 48 1,2,4-Trimethylbenzene | ND | 1.0 µg/L |
| 14 2,2-Dichloropropane | ND | 1.0 µg/L | 49 sec-Butylbenzene | ND | 1.0 µg/L |
| 15 1,2-Dichloroethane | ND | 1.0 µg/L | 50 1,3-Dichlorobenzene | ND | 1.0 µg/L |
| 16 1,1,1-Trichloroethane | ND | 1.0 µg/L | 51 1,4-Dichlorobenzene | ND | 1.0 µg/L |
| 17 1,1-Dichloropropene | ND | 1.0 µg/L | 52 4-Isopropyltoluene | ND | 1.0 µg/L |
| 18 Carbon tetrachloride | ND | 1.0 µg/L | 53 1,2-Dichlorobenzene | ND | 1.0 µg/L |
| 19 Benzene | ND | 1.0 µg/L | 54 n-Butylbenzene | ND | 1.0 µg/L |
| 20 Dibromomethane | ND | 1.0 µg/L | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 3.0 µg/L |
| 21 1,2-Dichloropropane | ND | 1.0 µg/L | 56 1,2,4-Trichlorobenzene | ND | 2.0 µg/L |
| 22 Trichloroethene | ND | 1.0 µg/L | 57 Naphthalene | ND | 2.0 µg/L |
| 23 Bromodichloromethane | ND | 1.0 µg/L | 58 Hexachlorobutadiene | ND | 2.0 µg/L |
| 24 cis-1,3-Dichloropropene | ND | 1.0 µg/L | 59 1,2,3-Trichlorobenzene | ND | 2.0 µg/L |
| 25 trans-1,3-Dichloropropene | ND | 1.0 µg/L | | | |
| 26 1,1,2-Trichloroethane | ND | 1.0 µg/L | | | |
| 27 Toluene | ND | 1.0 µg/L | | | |
| 28 1,3-Dichloropropane | ND | 1.0 µg/L | | | |
| 29 Dibromochloromethane | ND | 1.0 µg/L | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 2.0 µg/L | | | |
| 31 Tetrachloroethene | ND | 1.0 µg/L | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 1.0 µg/L | | | |
| 33 Chlorobenzene | ND | 1.0 µg/L | | | |
| 34 Ethylbenzene | ND | 1.0 µg/L | | | |
| 35 m,p-Xylene | ND | 1.0 µg/L | | | |

ND = Not Detected

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Report Date



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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC Sample Preservation Report

Work Order: E2M10052741

Job: NTD

| Alpha's Sample ID | Client's Sample ID | Matrix | pH |
|-------------------|--------------------|---------|----|
| 10052741-16A | SB02GW15052610 | Aqueous | 5 |
| 10052741-17A | SB07GW17052610 | Aqueous | 2 |
| 10052741-18A | TB02GWNA052610 | Aqueous | 2 |

6/4/10
Report Date



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Date:
03-Jun-10

QC Summary Report

Work Order:
10052741

Method Blank

Type **MBLK** Test Code: **EPA Method 300.0**

File ID: **21**

Batch ID: **24344**

Analysis Date: **05/27/2010 11:23**

Sample ID: **MB-24344**

Units : **mg/L**

Run ID: **IC_1_100527A**

Prep Date: **05/27/2010 11:18**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-------------------|--------|------|--------|-----------|------|---------|---------|-----------|-------------|------|
| Fluoride | ND | 0.25 | | | | | | | | |
| Chloride | ND | 0.5 | | | | | | | | |
| Nitrite (NO2) - N | ND | 0.25 | | | | | | | | |
| Nitrate (NO3) - N | ND | 0.25 | | | | | | | | |
| Sulfate (SO4) | ND | 0.5 | | | | | | | | |

Laboratory Fortified Blank

Type **LFB** Test Code: **EPA Method 300.0**

File ID: **22**

Batch ID: **24344**

Analysis Date: **05/27/2010 11:41**

Sample ID: **LFB-24344**

Units : **mg/L**

Run ID: **IC_1_100527A**

Prep Date: **05/27/2010 11:18**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-------------------|--------|------|--------|-----------|------|---------|---------|-----------|-------------|------|
| Fluoride | 4.91 | 0.25 | 5 | | 98 | 90 | 110 | | | |
| Chloride | 51.1 | 0.5 | 50 | | 102 | 90 | 110 | | | |
| Nitrite (NO2) - N | 4.89 | 0.25 | 5 | | 98 | 90 | 110 | | | |
| Nitrate (NO3) - N | 5.11 | 0.25 | 5 | | 102 | 90 | 110 | | | |
| Sulfate (SO4) | 102 | 0.5 | 100 | | 102 | 90 | 110 | | | |

Sample Matrix Spike

Type **LFM** Test Code: **EPA Method 300.0**

File ID: **35**

Batch ID: **24344**

Analysis Date: **05/27/2010 15:41**

Sample ID: **10052626-01ALFM**

Units : **mg/L**

Run ID: **IC_1_100527A**

Prep Date: **05/27/2010 11:18**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Fluoride | 51 | 1.3 | 50 | 2.315 | 97 | 80 | 120 | | | |
| Chloride | 625 | 2.5 | 500 | 97.34 | 105 | 80 | 120 | | | |
| Nitrite (NO2) - N | 48.4 | 1.3 | 50 | 0 | 97 | 80 | 120 | | | |
| Nitrate (NO3) - N | 53 | 1.3 | 50 | 0.944 | 104 | 80 | 120 | | | |
| Sulfate (SO4) | 3320 | 2.5 | 1000 | 2400 | 92 | 80 | 120 | | | |

Sample Matrix Spike Duplicate

Type **LFMD** Test Code: **EPA Method 300.0**

File ID: **36**

Batch ID: **24344**

Analysis Date: **05/27/2010 16:00**

Sample ID: **10052626-01ALFMD**

Units : **mg/L**

Run ID: **IC_1_100527A**

Prep Date: **05/27/2010 11:18**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Fluoride | 49.9 | 1.3 | 50 | 2.315 | 95 | 80 | 120 | 51.03 | 2.2(15) | |
| Chloride | 613 | 2.5 | 500 | 97.34 | 103 | 80 | 120 | 624.6 | 1.9(15) | |
| Nitrite (NO2) - N | 49.2 | 1.3 | 50 | 0 | 98 | 80 | 120 | 48.36 | 1.8(15) | |
| Nitrate (NO3) - N | 54.9 | 1.3 | 50 | 0.944 | 108 | 80 | 120 | 53.01 | 3.5(15) | |
| Sulfate (SO4) | 2960 | 2.5 | 1000 | 2400 | 56 | 80 | 120 | 3322 | 11.4(15) | M2 |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M2 = Matrix spike recovery was low, the method control sample recovery was acceptable.



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Date:
03-Jun-10

QC Summary Report

Work Order:
10052741

Laboratory Control Spike

Type **LCS**

Test Code: **SM2320B**

File ID:

Batch ID: **W0602AL**

Analysis Date: **06/02/2010 11:38**

Sample ID: **LCS-W0602AL**

Units : **mg/L**

Run ID: **WETLAB_100602A**

Prep Date: **06/02/2010 11:38**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Alkalinity, Total (As CaCO ₃ at pH 4.5) | 258 | 10 | 250 | | 103 | 80 | 120 | | | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
03-Jun-10

QC Summary Report

Work Order:
10052741

Method Blank

| File ID: | Type | MBLK | Test Code: | SM4500-NH3D | Batch ID: | W0521AM | Analysis Date: | 05/21/2010 11:38 | | |
|--------------------------|--------------|---------|------------|-------------|----------------|------------|------------------|------------------|-------------|------|
| Sample ID: | MBLK-W0521AM | Units : | mg/L | Run ID: | WETLAB_100521F | Prep Date: | 05/21/2010 11:38 | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Nitrogen, Ammonia (As N) | ND | 0.1 | | | | | | | | |

Laboratory Control Spike

| File ID: | Type | LCS | Test Code: | SM4500-NH3D | Batch ID: | W0521AM | Analysis Date: | 05/21/2010 11:35 | | |
|--------------------------|-------------|---------|------------|-------------|----------------|------------|------------------|------------------|-------------|------|
| Sample ID: | LCS-W0521AM | Units : | mg/L | Run ID: | WETLAB_100521F | Prep Date: | 05/21/2010 11:35 | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Nitrogen, Ammonia (As N) | 5.07 | 0.1 | 5 | | 101 | 70 | 130 | | | |

Sample Matrix Spike

| File ID: | Type | MS | Test Code: | SM4500-NH3D | Batch ID: | W0521AM | Analysis Date: | 05/21/2010 11:45 | | |
|--------------------------|----------------|---------|------------|-------------|----------------|------------|------------------|------------------|-------------|------|
| Sample ID: | 10052020-03AMS | Units : | mg/L | Run ID: | WETLAB_100521F | Prep Date: | 05/21/2010 11:45 | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Nitrogen, Ammonia (As N) | 4.72 | 0.1 | 5 | 0 | 94 | 65 | 138 | | | |

Sample Matrix Spike Duplicate

| File ID: | Type | MSD | Test Code: | SM4500-NH3D | Batch ID: | W0521AM | Analysis Date: | 05/21/2010 11:51 | | |
|--------------------------|-----------------|---------|------------|-------------|----------------|------------|------------------|------------------|-------------|------|
| Sample ID: | 10052020-03AMSD | Units : | mg/L | Run ID: | WETLAB_100521F | Prep Date: | 05/21/2010 11:51 | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Nitrogen, Ammonia (As N) | 4.91 | 0.1 | 5 | 0 | 98 | 65 | 138 | 4.72 | 4.0(20) | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
08-Jun-10

QC Summary Report

Work Order:
10052741

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8270C**

File ID: **10060226.D**

Batch ID: **24364**

Analysis Date: **06/03/2010 03:21**

Sample ID: **MBLK-24364**

Units : **µg/L**

Run ID: **MSD_16_100601A**

Prep Date: **06/01/2010 12:00**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Phenol | ND | 10 | | | | | | | | |
| 2-Chlorophenol | ND | 10 | | | | | | | | |
| 2-Nitrophenol | ND | 10 | | | | | | | | |
| 2,4-Dimethylphenol | ND | 10 | | | | | | | | |
| 2,4-Dichlorophenol | ND | 10 | | | | | | | | |
| 4-Chloro-3-methylphenol | ND | 20 | | | | | | | | |
| 2,4,6-Trichlorophenol | ND | 10 | | | | | | | | |
| 2,4-Dinitrophenol | ND | 100 | | | | | | | | |
| 4-Nitrophenol | ND | 50 | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | ND | 100 | | | | | | | | |
| Pentachlorophenol | ND | 50 | | | | | | | | |
| Surr: 2-Fluorophenol | 101 | | 200 | | 51 | 41 | 130 | | | |
| Surr: Phenol-d5 | 72.3 | | 200 | | 36 | 25 | 130 | | | |
| Surr: 2,4,6-Tribromophenol | 143 | | 200 | | 72 | 61 | 138 | | | |

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8270C**

File ID: **10060227.D**

Batch ID: **24364**

Analysis Date: **06/03/2010 03:47**

Sample ID: **LCS-24364**

Units : **µg/L**

Run ID: **MSD_16_100601A**

Prep Date: **06/01/2010 12:00**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Phenol | 38.2 | 10 | 100 | | 38 | 20 | 130 | | | |
| 2-Chlorophenol | 81.2 | 10 | 100 | | 81 | 58 | 130 | | | |
| 4-Chloro-3-methylphenol | 90.1 | 20 | 100 | | 90 | 52 | 130 | | | |
| 4-Nitrophenol | 175 | 50 | 400 | | 44 | 20 | 130 | | | |
| Pentachlorophenol | 392 | 50 | 400 | | 98 | 47 | 132 | | | |
| Surr: 2-Fluorophenol | 115 | | 200 | | 58 | 41 | 130 | | | |
| Surr: Phenol-d5 | 85.4 | | 200 | | 43 | 25 | 130 | | | |
| Surr: 2,4,6-Tribromophenol | 213 | | 200 | | 107 | 61 | 138 | | | |

Laboratory Control Spike Duplicate

Type: **LCS** Test Code: **EPA Method SW8270C**

File ID: **10060228.D**

Batch ID: **24364**

Analysis Date: **06/03/2010 04:13**

Sample ID: **LCS-24364**

Units : **µg/L**

Run ID: **MSD_16_100601A**

Prep Date: **06/01/2010 12:00**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Phenol | 38.5 | 10 | 100 | | 38 | 20 | 130 | 38.19 | 0.7(26) | |
| 2-Chlorophenol | 83.5 | 10 | 100 | | 83 | 58 | 130 | 81.23 | 2.7(32) | |
| 4-Chloro-3-methylphenol | 91.2 | 20 | 100 | | 91 | 52 | 130 | 90.09 | 1.2(26) | |
| 4-Nitrophenol | 166 | 50 | 400 | | 41 | 20 | 130 | 175.4 | 5.7(40) | |
| Pentachlorophenol | 381 | 50 | 400 | | 95 | 47 | 132 | 391.9 | 2.9(33) | |
| Surr: 2-Fluorophenol | 118 | | 200 | | 59 | 41 | 130 | | | |
| Surr: Phenol-d5 | 84.8 | | 200 | | 42 | 25 | 130 | | | |
| Surr: 2,4,6-Tribromophenol | 202 | | 200 | | 101 | 61 | 138 | | | |

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8270C**

File ID: **10060232.D**

Batch ID: **24364**

Analysis Date: **06/03/2010 05:56**

Sample ID: **10052741-17AMS**

Units : **µg/L**

Run ID: **MSD_16_100601A**

Prep Date: **06/01/2010 12:00**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Phenol | 35.8 | 10 | 100 | | 0 | 36 | 10 | 130 | | |
| 2-Chlorophenol | 81.2 | 10 | 100 | | 0 | 81 | 40 | 130 | | |
| 4-Chloro-3-methylphenol | 85.4 | 20 | 100 | | 0 | 85 | 42 | 130 | | |
| 4-Nitrophenol | 152 | 50 | 400 | | 0 | 38 | 10 | 130 | | |
| Pentachlorophenol | 379 | 50 | 400 | | 0 | 95 | 33 | 155 | | |
| Surr: 2-Fluorophenol | 113 | | 200 | | 56 | 41 | 130 | | | |
| Surr: Phenol-d5 | 80.3 | | 200 | | 40 | 25 | 130 | | | |
| Surr: 2,4,6-Tribromophenol | 195 | | 200 | | 98 | 61 | 138 | | | |



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Date:
08-Jun-10

QC Summary Report

Work Order:
10052741

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
03-Jun-10

QC Summary Report

Work Order:
10052741

Method Blank

Type **MBLK** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **052810.B\353.D**

Batch ID: **24353**

Analysis Date: **05/29/2010 10:57**

Sample ID: **MB-24353**

Units : **mg/L**

Run ID: **ICP/MS_100528C**

Prep Date: **05/28/2010 11:35**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------|--------|-------|--------|-----------|------|---------|---------|-----------|-------------|------|
| Boron (B) | ND | 0.1 | | | | | | | | |
| Sodium (Na) | ND | 0.5 | | | | | | | | |
| Chromium (Cr) | ND | 0.005 | | | | | | | | |
| Manganese (Mn) | ND | 0.005 | | | | | | | | |
| Iron (Fe) | ND | 0.3 | | | | | | | | |
| Nickel (Ni) | ND | 0.01 | | | | | | | | |
| Copper (Cu) | ND | 0.01 | | | | | | | | |
| Zinc (Zn) | ND | 0.1 | | | | | | | | |
| Arsenic (As) | ND | 0.005 | | | | | | | | |
| Selenium (Se) | ND | 0.005 | | | | | | | | |
| Silver (Ag) | ND | 0.005 | | | | | | | | |
| Cadmium (Cd) | ND | 0.005 | | | | | | | | |
| Barium (Ba) | ND | 0.005 | | | | | | | | |
| Mercury (Hg) | ND | 0.001 | | | | | | | | |
| Lead (Pb) | ND | 0.005 | | | | | | | | |

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **052810.B\353L1.D**

Batch ID: **24353**

Analysis Date: **05/29/2010 11:02**

Sample ID: **LCS-24353**

Units : **mg/L**

Run ID: **ICP/MS_100528C**

Prep Date: **05/28/2010 11:35**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------|--------|-------|--------|-----------|------|---------|---------|-----------|-------------|------|
| Boron (B) | 0.226 | 0.1 | 0.25 | | 90 | 74 | 132 | | | |
| Sodium (Na) | 50.7 | 0.5 | 50 | | 101 | 80 | 118 | | | |
| Chromium (Cr) | 0.252 | 0.005 | 0.25 | | 101 | 80 | 124 | | | |
| Manganese (Mn) | 2.41 | 0.005 | 2.5 | | 96 | 83 | 120 | | | |
| Iron (Fe) | 52.9 | 0.3 | 50 | | 106 | 83 | 119 | | | |
| Nickel (Ni) | 0.245 | 0.01 | 0.25 | | 98 | 83 | 123 | | | |
| Copper (Cu) | 0.239 | 0.01 | 0.25 | | 95 | 85 | 123 | | | |
| Zinc (Zn) | 0.233 | 0.1 | 0.25 | | 93 | 82 | 123 | | | |
| Arsenic (As) | 0.237 | 0.005 | 0.25 | | 95 | 85 | 118 | | | |
| Selenium (Se) | 0.232 | 0.005 | 0.25 | | 93 | 85 | 118 | | | |
| Silver (Ag) | 0.237 | 0.005 | 0.25 | | 95 | 79 | 118 | | | |
| Cadmium (Cd) | 0.232 | 0.005 | 0.25 | | 93 | 85 | 121 | | | |
| Barium (Ba) | 2.5 | 0.005 | 2.5 | | 100 | 85 | 132 | | | |
| Mercury (Hg) | 0.0101 | 0.001 | 0.01 | | 101 | 70 | 122 | | | |
| Lead (Pb) | 0.25 | 0.005 | 0.25 | | 99.8 | 85 | 120 | | | |

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **052810.B\099SMPL.D**

Batch ID: **24353**

Analysis Date: **05/28/2010 21:52**

Sample ID: **10052741-17AMS**

Units : **mg/L**

Run ID: **ICP/MS_100528C**

Prep Date: **05/28/2010 11:35**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------|---------|-------|--------|-----------|------|---------|---------|-----------|-------------|------|
| Boron (B) | 1.68 | 0.1 | 0.25 | 1.537 | 56 | 63 | 150 | | | M3 |
| Sodium (Na) | 452 | 0.5 | 50 | 430.1 | 44 | 61 | 135 | | | M3 |
| Chromium (Cr) | 0.326 | 0.005 | 0.25 | 0.1278 | 79 | 70 | 133 | | | |
| Manganese (Mn) | 6.96 | 0.005 | 2.5 | 5.511 | 58 | 70 | 130 | | | M2 |
| Iron (Fe) | 255 | 0.3 | 50 | 227.7 | 54 | 70 | 130 | | | M3 |
| Nickel (Ni) | 0.306 | 0.01 | 0.25 | 0.09479 | 84 | 70 | 132 | | | |
| Copper (Cu) | 0.453 | 0.01 | 0.25 | 0.2403 | 85 | 70 | 131 | | | |
| Zinc (Zn) | 0.709 | 0.1 | 0.25 | 0.506 | 81 | 65 | 143 | | | |
| Arsenic (As) | 0.67 | 0.005 | 0.25 | 0.449 | 88 | 70 | 130 | | | |
| Selenium (Se) | 0.221 | 0.005 | 0.25 | 0 | 88 | 70 | 131 | | | |
| Silver (Ag) | 0.245 | 0.005 | 0.25 | 0 | 98 | 70 | 130 | | | |
| Cadmium (Cd) | 0.245 | 0.005 | 0.25 | 0 | 98 | 70 | 130 | | | |
| Barium (Ba) | 4.79 | 0.005 | 2.5 | 2.401 | 96 | 70 | 143 | | | |
| Mercury (Hg) | 0.00541 | 0.001 | 0.005 | 0 | 108 | 68 | 130 | | | |
| Lead (Pb) | 0.393 | 0.005 | 0.25 | 0.1531 | 96 | 70 | 130 | | | |



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Date:
03-Jun-10

QC Summary Report

Work Order:
10052741

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **052810.B\100SMPL.D**

Batch ID: **24353**

Analysis Date: **05/28/2010 21:58**

Sample ID: **10052741-17AMSD**

Units : **mg/L**

Run ID: **ICP/MS_100528C**

Prep Date: **05/28/2010 11:35**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------|---------|-------|--------|-----------|------|---------|---------|-----------|-------------|------|
| Boron (B) | 1.71 | 0.1 | 0.25 | 1.537 | 70 | 63 | 150 | 1.678 | 2.0(20) | |
| Sodium (Na) | 460 | 0.5 | 50 | 430.1 | 59 | 61 | 135 | 452.3 | 1.6(20) | M3 |
| Chromium (Cr) | 0.338 | 0.005 | 0.25 | 0.1278 | 84 | 70 | 133 | 0.3259 | 3.6(20) | |
| Manganese (Mn) | 7.37 | 0.005 | 2.5 | 5.511 | 74 | 70 | 130 | 6.955 | 5.8(20) | |
| Iron (Fe) | 260 | 0.3 | 50 | 227.7 | 64 | 70 | 130 | 254.9 | 1.9(20) | M3 |
| Nickel (Ni) | 0.313 | 0.01 | 0.25 | 0.09479 | 87 | 70 | 132 | 0.3055 | 2.3(20) | |
| Copper (Cu) | 0.466 | 0.01 | 0.25 | 0.2403 | 90 | 70 | 131 | 0.4525 | 2.9(20) | |
| Zinc (Zn) | 0.718 | 0.1 | 0.25 | 0.506 | 85 | 65 | 143 | 0.7087 | 1.3(20) | |
| Arsenic (As) | 0.663 | 0.005 | 0.25 | 0.449 | 86 | 70 | 130 | 0.6702 | 1.1(20) | |
| Selenium (Se) | 0.227 | 0.005 | 0.25 | 0 | 91 | 70 | 131 | 0.2209 | 2.5(20) | |
| Silver (Ag) | 0.253 | 0.005 | 0.25 | 0 | 101 | 70 | 130 | 0.2454 | 2.9(20) | |
| Cadmium (Cd) | 0.255 | 0.005 | 0.25 | 0 | 102 | 70 | 130 | 0.245 | 3.8(20) | |
| Barium (Ba) | 4.86 | 0.005 | 2.5 | 2.401 | 98 | 70 | 143 | 4.79 | 1.5(20) | |
| Mercury (Hg) | 0.00561 | 0.001 | 0.005 | 0 | 112 | 68 | 130 | 0.005407 | 3.6(20) | |
| Lead (Pb) | 0.391 | 0.005 | 0.25 | 0.1531 | 95 | 70 | 130 | 0.3927 | 0.5(20) | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M2 = Matrix spike recovery was low, the method control sample recovery was acceptable.

M3 = The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to the spike level. The method control sample recovery was acceptable.



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Date:
03-Jun-10

QC Summary Report

Work Order:
10052741

Method Blank

Type **MBLK** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **052810.B\018SMPL.D**

Batch ID: **24346**

Analysis Date: **05/28/2010 14:09**

Sample ID: **MB-24346**

Units : **mg/Kg** Run ID: **ICP/MS_100528A**

Prep Date: **05/27/2010 14:51**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Chromium (Cr) | ND | 1 | | | | | | | | |
| Arsenic (As) | ND | 1 | | | | | | | | |
| Selenium (Se) | ND | 1 | | | | | | | | |
| Silver (Ag) | ND | 1 | | | | | | | | |
| Cadmium (Cd) | ND | 1 | | | | | | | | |
| Barium (Ba) | ND | 1 | | | | | | | | |
| Mercury (Hg) | ND | 0.2 | | | | | | | | |
| Lead (Pb) | ND | 1 | | | | | | | | |

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **052810.B\019_LCS.D**

Batch ID: **24346**

Analysis Date: **05/28/2010 14:15**

Sample ID: **LCS-24346**

Units : **mg/Kg** Run ID: **ICP/MS_100528A**

Prep Date: **05/27/2010 14:51**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Chromium (Cr) | 24.9 | 1 | 25 | | 99 | 75 | 120 | | | |
| Arsenic (As) | 25.9 | 1 | 25 | | 104 | 80 | 120 | | | |
| Selenium (Se) | 25.1 | 1 | 25 | | 100 | 80 | 120 | | | |
| Silver (Ag) | 26.7 | 1 | 25 | | 107 | 62 | 132 | | | |
| Cadmium (Cd) | 25.3 | 1 | 25 | | 101 | 80 | 120 | | | |
| Barium (Ba) | 253 | 1 | 250 | | 101 | 78 | 123 | | | |
| Mercury (Hg) | 0.562 | 0.2 | 0.5 | | 112 | 68 | 140 | | | |
| Lead (Pb) | 25.4 | 1 | 25 | | 101 | 80 | 122 | | | |

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **052810.B\022SMPL.D**

Batch ID: **24346**

Analysis Date: **05/28/2010 14:31**

Sample ID: **10052741-01AMS**

Units : **mg/Kg** Run ID: **ICP/MS_100528A**

Prep Date: **05/27/2010 14:51**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Chromium (Cr) | 36 | 1 | 25 | 13.16 | 91 | 50 | 150 | | | |
| Arsenic (As) | 30.1 | 1 | 25 | 4.818 | 101 | 60 | 130 | | | |
| Selenium (Se) | 25.3 | 1 | 25 | 0 | 101 | 69 | 130 | | | |
| Silver (Ag) | 27.9 | 1 | 25 | 0 | 111 | 62 | 132 | | | |
| Cadmium (Cd) | 26.3 | 1 | 25 | 0 | 105 | 70 | 130 | | | |
| Barium (Ba) | 375 | 1 | 250 | 106.1 | 107 | 58 | 150 | | | |
| Mercury (Hg) | 0.619 | 0.2 | 0.5 | 0 | 124 | 65 | 150 | | | |
| Lead (Pb) | 33.1 | 1 | 25 | 7.004 | 104 | 68 | 141 | | | |

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **052810.B\023SMPL.D**

Batch ID: **24346**

Analysis Date: **05/28/2010 14:37**

Sample ID: **10052741-01AMSD**

Units : **mg/Kg** Run ID: **ICP/MS_100528A**

Prep Date: **05/27/2010 14:51**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Chromium (Cr) | 37.2 | 1 | 25 | 13.16 | 96 | 50 | 150 | 36.02 | 3.1(20) | |
| Arsenic (As) | 28.6 | 1 | 25 | 4.818 | 95 | 60 | 130 | 30.12 | 5.4(20) | |
| Selenium (Se) | 31.7 | 1 | 25 | 0 | 127 | 69 | 130 | 25.33 | 22.4(20) | R5 |
| Silver (Ag) | 26.9 | 1 | 25 | 0 | 107 | 62 | 132 | 27.86 | 3.7(20) | |
| Cadmium (Cd) | 25.3 | 1 | 25 | 0 | 101 | 70 | 130 | 26.27 | 4.0(20) | |
| Barium (Ba) | 367 | 1 | 250 | 106.1 | 104 | 58 | 150 | 374.6 | 2.1(20) | |
| Mercury (Hg) | 0.58 | 0.2 | 0.5 | 0 | 116 | 65 | 150 | 0.6194 | 6.6(20) | |
| Lead (Pb) | 31.1 | 1 | 25 | 7.004 | 96 | 68 | 141 | 33.12 | 6.2(20) | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

R5 = MS/MSD RPD exceeded the laboratory control limit. Recovery met acceptance criteria.



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Date:
03-Jun-10

QC Summary Report

Work Order:
10052741

Method Blank

| File ID: | Type | MBLK | Test Code: | SM4500-NORGC / SM4500NH3D | Batch ID: | W0601TK | Analysis Date: | 06/01/2010 12:38 | | |
|---------------------------|--------------|---------|------------|---------------------------|----------------|------------|------------------|------------------|-------------|------|
| Sample ID: | MBLK-W0601TK | Units : | mg/L | Run ID: | WETLAB_100601C | Prep Date: | 06/01/2010 12:38 | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Nitrogen, Kjeldahl, Total | ND | 0.25 | | | | | | | | |

Laboratory Control Spike

| File ID: | Type | LCS | Test Code: | SM4500-NORGC / SM4500NH3D | Batch ID: | W0601TK | Analysis Date: | 06/01/2010 12:35 | | |
|---------------------------|-------------|---------|------------|---------------------------|----------------|------------|------------------|------------------|-------------|------|
| Sample ID: | LCS-W0601TK | Units : | mg/L | Run ID: | WETLAB_100601C | Prep Date: | 06/01/2010 12:35 | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Nitrogen, Kjeldahl, Total | 4.95 | 0.25 | 5 | | 99 | 65 | 135 | | | |

Sample Matrix Spike

| File ID: | Type | MS | Test Code: | SM4500-NORGC / SM4500NH3D | Batch ID: | W0601TK | Analysis Date: | 06/01/2010 12:50 | | |
|---------------------------|----------------|---------|------------|---------------------------|----------------|------------|------------------|------------------|-------------|------|
| Sample ID: | 10051921-01AMS | Units : | mg/L | Run ID: | WETLAB_100601C | Prep Date: | 06/01/2010 12:50 | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Nitrogen, Kjeldahl, Total | 33 | 1.3 | 5 | | 25 | 160 | 55 | 142 | | M3 |

Sample Matrix Spike Duplicate

| File ID: | Type | MSD | Test Code: | SM4500-NORGC / SM4500NH3D | Batch ID: | W0601TK | Analysis Date: | 06/01/2010 12:53 | | |
|---------------------------|-----------------|---------|------------|---------------------------|----------------|------------|------------------|------------------|-------------|----------|
| Sample ID: | 10051921-01AMSD | Units : | mg/L | Run ID: | WETLAB_100601C | Prep Date: | 06/01/2010 12:53 | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Nitrogen, Kjeldahl, Total | 28 | 1.3 | 5 | | 25 | 60 | 55 | 142 | 33 | 16.4(20) |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M3 = The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to the spike level. The method control sample recovery was acceptable.



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Date:
04-Jun-10

QC Summary Report

Work Order:
10052741

Method Blank

| | | | | | | | | | | |
|--------------------------------|-------------------|------------------------------------|--------------------------|--|------|---------|---------|-----------|-------------|------|
| File ID: | Type: MBLK | Test Code: EPA Method 1664A | | | | | | | | |
| Sample ID: MBLK-W0602OG | Units : mg/L | Run ID: WETLAB_100602C | Batch ID: W0602OG | Analysis Date: 06/02/2010 00:00 | | | | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Oil & Grease, HEM | ND | 5 | | | | | | | | |

Laboratory Control Spike

| | | | | | | | | | | |
|-------------------------------|------------------|------------------------------------|--------------------------|--|------|---------|---------|-----------|-------------|------|
| File ID: | Type: LCS | Test Code: EPA Method 1664A | | | | | | | | |
| Sample ID: LCS-W0602OG | Units : mg/L | Run ID: WETLAB_100602C | Batch ID: W0602OG | Analysis Date: 06/02/2010 00:00 | | | | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Oil & Grease, HEM | 39.5 | 5 | 40 | | 99 | 78 | 114 | | | |

Sample Matrix Spike

| | | | | | | | | | | |
|----------------------------------|-----------------|------------------------------------|--------------------------|--|-------|---------|---------|-----------|-------------|------|
| File ID: | Type: MS | Test Code: EPA Method 1664A | | | | | | | | |
| Sample ID: 10052504-04AMS | Units : mg/L | Run ID: WETLAB_100602C | Batch ID: W0602OG | Analysis Date: 06/02/2010 00:00 | | | | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Oil & Grease, HEM | 40.5 | 5 | 40 | | 0 101 | 78 | 114 | | | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

HEM = Hexane Extractable Material



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Date:
02-Jun-10

QC Summary Report

Work Order:
10052741

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW9045D**

File ID:

Batch ID: **S0601PH**

Analysis Date: **06/01/2010 15:15**

Sample ID: **LCS-S0601PH**

Units : **pH Units** Run ID: **WETLAB_100601B**

Prep Date: **06/01/2010 15:15**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| pH | 4.94 | 1.7 | 5 | | 99 | 90 | 110 | | | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
01-Jun-10

QC Summary Report

Work Order:
10052741

Laboratory Control Spike

Type **LCS**

Test Code: **EPA Method 150.2 / SM4500HB / SW9040C**

File ID:

Batch ID: **W0527PH**

Analysis Date: **05/27/2010 14:21**

Sample ID: **LCS-W0527PH**

Units : **pH Units**

Run ID: **WETLAB_100527C**

Prep Date: **05/27/2010 14:21**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| pH | 5.1 | 1.7 | 5 | | 102 | 90 | 110 | | | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
03-Jun-2010

QC Summary Report

Work Order:
10052741

Method Blank

| File ID: | Type | MBLK | Test Code: EPA Method 365.3 / SM4500PE | | | | | | | |
|--------------------------|--------------|------|--|-----------|---------------------------------|---------|---------|-----------|-------------|------|
| | | | Batch ID: W0602TP | | Analysis Date: 06/02/2010 00:00 | | | | | |
| Sample ID: MBLK-W0602TP | Units : mg/L | | Run ID: WETLAB_100602B | | Prep Date: 06/02/2010 00:00 | | | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Phosphorus, Total (As P) | ND | 0.1 | | | | | | | | |

Laboratory Control Spike

| File ID: | Type | LCS | Test Code: EPA Method 365.3 / SM4500PE | | | | | | | |
|--------------------------|--------------|-----|--|-----------|---------------------------------|---------|---------|-----------|-------------|------|
| | | | Batch ID: W0602TP | | Analysis Date: 06/02/2010 00:00 | | | | | |
| Sample ID: LCS-W0602TP | Units : mg/L | | Run ID: WETLAB_100602B | | Prep Date: 06/02/2010 00:00 | | | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Phosphorus, Total (As P) | 0.972 | 0.1 | 1 | | 97 | 73 | 127 | | | |

Sample Matrix Spike

| File ID: | Type | MS | Test Code: EPA Method 365.3 / SM4500PE | | | | | | | |
|---------------------------|--------------|-----|--|-----------|---------------------------------|---------|---------|-----------|-------------|------|
| | | | Batch ID: W0602TP | | Analysis Date: 06/02/2010 00:00 | | | | | |
| Sample ID: 10052849-01AMS | Units : mg/L | | Run ID: WETLAB_100602B | | Prep Date: 06/02/2010 00:00 | | | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Phosphorus, Total (As P) | 1.08 | 0.1 | 1 | 0 | 108 | 73 | 127 | | | |

Sample Matrix Spike Duplicate

| File ID: | Type | MSD | Test Code: EPA Method 365.3 / SM4500PE | | | | | | | |
|----------------------------|--------------|-----|--|-----------|---------------------------------|---------|---------|-----------|-------------|------|
| | | | Batch ID: W0602TP | | Analysis Date: 06/02/2010 00:00 | | | | | |
| Sample ID: 10052849-01AMSD | Units : mg/L | | Run ID: WETLAB_100602B | | Prep Date: 06/02/2010 00:00 | | | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Phosphorus, Total (As P) | 1.1 | 0.1 | 1 | 0 | 110 | 73 | 127 | 1.08 | 1.8(20) | |

Comments:
Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
03-Jun-2010

QC Summary Report

Work Order:
10052741

Method Blank

| | | | | | | | | | | | |
|-------------------------------|--------------|---------|------|------------|----------------|----------------|------------------|---------|-----------|-------------|------|
| File ID: | | Type | MBLK | Test Code: | SM2540C | Analysis Date: | 05/26/2010 00:00 | | | | |
| Sample ID: | MBLK-W0525DS | Units : | mg/L | Batch ID: | W0525DS | Prep Date: | 05/26/2010 00:00 | | | | |
| Analyte | | Result | PQL | Run ID: | WETLAB_100525A | | | | | | |
| | | | | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Solids, Total Dissolved (TDS) | | ND | | 10 | | | | | | | |

Laboratory Control Spike

| | | | | | | | | | | | |
|-------------------------------|-------------|---------|------|------------|----------------|----------------|------------------|---------|-----------|-------------|------|
| File ID: | | Type | LCS | Test Code: | SM2540C | Analysis Date: | 05/26/2010 00:00 | | | | |
| Sample ID: | LCS-W0525DS | Units : | mg/L | Batch ID: | W0525DS | Prep Date: | 05/26/2010 00:00 | | | | |
| Analyte | | Result | PQL | Run ID: | WETLAB_100525A | | | | | | |
| | | | | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Solids, Total Dissolved (TDS) | | 91 | | 10 | 100 | | 91 | 80 | 120 | | |

Comments:
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Date:
08-Jun-10

QC Summary Report

Work Order:
10052741

Method Blank

File ID: 2A06021005.D

Sample ID: MBLK-24372

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-E (DRO) | ND | 10 | | | | | | | | |
| TPH-E (ORO) | ND | 10 | | | | | | | | |
| Surr: Nonane | 5.14 | | 6 | | 86 | 67 | 156 | | | |

Type: MBLK Test Code: EPA Method SW8015B / E

Batch ID: 24372

Analysis Date: 06/02/2010 11:58

Units : mg/Kg Run ID: FID_2_100602A

Prep Date: 06/02/2010 10:35

Laboratory Control Spike

File ID: 2A06021006.D

Sample ID: LCS-24372

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-E (DRO) | 97.4 | 5 | 100 | | 97 | 70 | 130 | | | |
| Surr: Nonane | 5.6 | | 6 | | 93 | 67 | 156 | | | |

Type: LCS Test Code: EPA Method SW8015B / E

Batch ID: 24372

Analysis Date: 06/02/2010 12:24

Units : mg/Kg Run ID: FID_2_100602A

Prep Date: 06/02/2010 10:35

Sample Matrix Spike

File ID: 2A06021021.D

Sample ID: 10052741-15AMS

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------|--------|-----|--------|-----------|-------|---------|---------|-----------|-------------|------|
| TPH-E (DRO) | 108 | 5 | 100 | | 0 108 | 51 | 141 | | | |
| Surr: Nonane | 5.55 | | 6 | | 92 | 67 | 156 | | | |

Type: MS Test Code: EPA Method SW8015B / E

Batch ID: 24372

Analysis Date: 06/02/2010 18:43

Units : mg/Kg Run ID: FID_2_100602A

Prep Date: 06/02/2010 10:35

Sample Matrix Spike Duplicate

File ID: 2A06021022.D

Sample ID: 10052741-15AMSD

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------|--------|-----|--------|-----------|-------|---------|---------|-----------|-------------|------|
| TPH-E (DRO) | 104 | 5 | 100 | | 0 104 | 51 | 141 | 107.8 | 4.0(40) | |
| Surr: Nonane | 5.17 | | 6 | | 86 | 67 | 156 | | | |

Type: MSD Test Code: EPA Method SW8015B / E

Batch ID: 24372

Analysis Date: 06/02/2010 19:08

Units : mg/Kg Run ID: FID_2_100602A

Prep Date: 06/02/2010 10:35

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:

08-Jun-10

QC Summary Report

Work Order:

10052741

Method Blank

File ID: 2A05211098.D

Sample ID: MBLK-24345

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-E (DRO) | ND | 0.5 | | | | | | | | |
| TPH-E (ORO) | ND | 0.5 | | | | | | | | |
| Surr: Nonane | 0.114 | | 0.15 | | 76 | 57 | 147 | | | |

Laboratory Control Spike

File ID: 2A052110127.D

Sample ID: LCS-24345

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------|--------|------|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-E (DRO) | 3.1 | 0.05 | 2.5 | | 124 | 67 | 130 | | | |
| Surr: Nonane | 0.088 | | 0.15 | | 59 | 57 | 147 | | | |

Sample Matrix Spike

File ID: 2A052110118.D

Sample ID: 10052625-10AMS

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------|--------|------|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-E (DRO) | 6.14 | 0.05 | 2.5 | 3.64 | 99.8 | 49 | 150 | | | |
| Surr: Nonane | 0.118 | | 0.15 | | 79 | 57 | 147 | | | |

Sample Matrix Spike Duplicate

File ID: 2A052110119.D

Sample ID: 10052625-10AMSD

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------|--------|------|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-E (DRO) | 6.45 | 0.05 | 2.5 | 3.64 | 112 | 49 | 150 | 6.135 | 5.0(38) | |
| Surr: Nonane | 0.099 | | 0.15 | | 66 | 57 | 147 | | | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
08-Jun-10

QC Summary Report

Work Order:
10052741

Method Blank

| File ID: C:\HPCHEM\MMS06\DATA\100602\10060217.D | Type: MBLK | Test Code: EPA Method SW8015 | Batch ID: MS06S4340B | Analysis Date: 06/02/2010 15:57 | | | | | | |
|---|---------------------|-------------------------------------|------------------------------------|--|------|---------|---------|-----------|-------------|------|
| Sample ID: MBLK MS06S4340B | Units: mg/Kg | Run ID: MSD_06_100602B | Prep Date: 06/02/2010 15:57 | | | | | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| TPH-P (GRO) | ND | 10 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.25 | | 0.2 | | 125 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.186 | | 0.2 | | 93 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.212 | | 0.2 | | 106 | 70 | 130 | | | |

Laboratory Control Spike

| File ID: C:\HPCHEM\MMS06\DATA\100602\10060219.D | Type: LCS | Test Code: EPA Method SW8015 | Batch ID: MS06S4340B | Analysis Date: 06/02/2010 16:47 | | | | | | |
|---|---------------------|-------------------------------------|------------------------------------|--|------|---------|---------|-----------|-------------|------|
| Sample ID: LCS MS06S4340B | Units: mg/Kg | Run ID: MSD_06_100602B | Prep Date: 06/02/2010 16:47 | | | | | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| TPH-P (GRO) | 16.6 | 2 | 16 | | 104 | 70 | 139 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.509 | | 0.4 | | 127 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.371 | | 0.4 | | 93 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.425 | | 0.4 | | 106 | 70 | 130 | | | |

Sample Matrix Spike

| File ID: C:\HPCHEM\MMS06\DATA\100602\10060220.D | Type: MS | Test Code: EPA Method SW8015 | Batch ID: MS06S4340B | Analysis Date: 06/02/2010 17:11 | | | | | | |
|---|---------------------|-------------------------------------|------------------------------------|--|------|---------|---------|-----------|-------------|------|
| Sample ID: 10052504-03AGS | Units: mg/Kg | Run ID: MSD_06_100602B | Prep Date: 06/02/2010 17:11 | | | | | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| TPH-P (GRO) | 15.5 | 2 | 16 | 0 | 97 | 57 | 147 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.524 | | 0.4 | | 131 | 70 | 130 | | | S55 |
| Surr: Toluene-d8 | 0.359 | | 0.4 | | 90 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.442 | | 0.4 | | 111 | 70 | 130 | | | |

Sample Matrix Spike Duplicate

| File ID: C:\HPCHEM\MMS06\DATA\100602\10060221.D | Type: MSD | Test Code: EPA Method SW8015 | Batch ID: MS06S4340B | Analysis Date: 06/02/2010 17:36 | | | | | | |
|---|---------------------|-------------------------------------|------------------------------------|--|------|---------|---------|-----------|-------------|------|
| Sample ID: 10052504-03AGSD | Units: mg/Kg | Run ID: MSD_06_100602B | Prep Date: 06/02/2010 17:36 | | | | | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| TPH-P (GRO) | 15.6 | 2 | 16 | 0 | 98 | 57 | 147 | 15.47 | 1.1(20) | |
| Surr: 1,2-Dichloroethane-d4 | 0.521 | | 0.4 | | 130 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.362 | | 0.4 | | 91 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.446 | | 0.4 | | 112 | 70 | 130 | | | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

S55 = Surrogate recovery was above laboratory acceptance limits.



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Date:
08-Jun-10

QC Summary Report

Work Order:
10052741

Method Blank

| File ID: C:\HPCHEM\MS06\DATA\100528\10052805.D | Type: MBLK | Test Code: EPA Method SW8015 | Batch ID: MS06W0528B | Analysis Date: 05/28/2010 10:34 | | | | | | |
|--|---------------------|-------------------------------------|------------------------------------|--|------|---------|---------|-----------|-------------|------|
| Sample ID: MBLK MS06W0528B | Units : mg/L | Run ID: MSD_06_100528A | Prep Date: 05/28/2010 10:34 | | | | | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| TPH-P (GRO) | ND | 0.5 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.0119 | | 0.01 | | 119 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.00974 | | 0.01 | | 97 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.0103 | | 0.01 | | 103 | 70 | 130 | | | |

Laboratory Control Spike

| File ID: C:\HPCHEM\MS06\DATA\100528\10052804.D | Type: LCS | Test Code: EPA Method SW8015 | Batch ID: MS06W0528B | Analysis Date: 05/28/2010 10:09 | | | | | | |
|--|---------------------|-------------------------------------|------------------------------------|--|------|---------|---------|-----------|-------------|------|
| Sample ID: GLCS MS06W0528B | Units : mg/L | Run ID: MSD_06_100528A | Prep Date: 05/28/2010 10:09 | | | | | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| TPH-P (GRO) | 0.383 | 0.05 | 0.4 | | 96 | 70 | 130 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.0114 | | 0.01 | | 114 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.00956 | | 0.01 | | 96 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.0108 | | 0.01 | | 108 | 70 | 130 | | | |

Sample Matrix Spike

| File ID: C:\HPCHEM\MS06\DATA\100528\10052818.D | Type: MS | Test Code: EPA Method SW8015 | Batch ID: MS06W0528B | Analysis Date: 05/28/2010 15:55 | | | | | | |
|--|---------------------|-------------------------------------|------------------------------------|--|------|---------|---------|-----------|-------------|------|
| Sample ID: 10052625-01AGS | Units : mg/L | Run ID: MSD_06_100528A | Prep Date: 05/28/2010 15:55 | | | | | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| TPH-P (GRO) | 2.12 | 0.25 | 2 | 0 | 106 | 58 | 135 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.0573 | | 0.05 | | 115 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.0474 | | 0.05 | | 95 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.0535 | | 0.05 | | 107 | 70 | 130 | | | |

Sample Matrix Spike Duplicate

| File ID: C:\HPCHEM\MS06\DATA\100528\10052819.D | Type: MSD | Test Code: EPA Method SW8015 | Batch ID: MS06W0528B | Analysis Date: 05/28/2010 16:20 | | | | | | |
|--|---------------------|-------------------------------------|------------------------------------|--|------|---------|---------|-----------|-------------|------|
| Sample ID: 10052625-01AGSD | Units : mg/L | Run ID: MSD_06_100528A | Prep Date: 05/28/2010 16:20 | | | | | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| TPH-P (GRO) | 2.11 | 0.25 | 2 | 0 | 105 | 58 | 135 | 2.116 | 0.3(20) | |
| Surr: 1,2-Dichloroethane-d4 | 0.0565 | | 0.05 | | 113 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.0458 | | 0.05 | | 92 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.0524 | | 0.05 | | 105 | 70 | 130 | | | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
08-Jun-10

QC Summary Report

Work Order:
10052741

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS06\DATA\100602\10060217.D**

Batch ID: **MS06S4340A**

Analysis Date: **06/02/2010 15:57**

Sample ID: **MBLK MS06S4340A**

Units: **µg/Kg**

Run ID: **MSD_06_100602B**

Prep Date: **06/02/2010 15:57**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|------------------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Dichlorodifluoromethane | ND | 20 | | | | | | | | |
| Chloromethane | ND | 40 | | | | | | | | |
| Vinyl chloride | ND | 20 | | | | | | | | |
| Chloroethane | ND | 20 | | | | | | | | |
| Bromomethane | ND | 40 | | | | | | | | |
| Trichlorofluoromethane | ND | 20 | | | | | | | | |
| 1,1-Dichloroethene | ND | 20 | | | | | | | | |
| Dichloromethane | ND | 40 | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 20 | | | | | | | | |
| 1,1-Dichloroethane | ND | 20 | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 20 | | | | | | | | |
| Bromochloromethane | ND | 20 | | | | | | | | |
| Chloroform | ND | 20 | | | | | | | | |
| 2,2-Dichloropropane | ND | 20 | | | | | | | | |
| 1,2-Dichloroethane | ND | 20 | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 20 | | | | | | | | |
| 1,1-Dichloropropene | ND | 20 | | | | | | | | |
| Carbon tetrachloride | ND | 20 | | | | | | | | |
| Benzene | ND | 20 | | | | | | | | |
| Dibromomethane | ND | 20 | | | | | | | | |
| 1,2-Dichloropropane | ND | 20 | | | | | | | | |
| Trichloroethene | ND | 20 | | | | | | | | |
| Bromodichloromethane | ND | 20 | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 20 | | | | | | | | |
| trans-1,3-Dichloropropene | ND | 20 | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 20 | | | | | | | | |
| Toluene | ND | 20 | | | | | | | | |
| 1,3-Dichloropropane | ND | 20 | | | | | | | | |
| Dibromochloromethane | ND | 20 | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 40 | | | | | | | | |
| Tetrachloroethene | ND | 20 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 20 | | | | | | | | |
| Chlorobenzene | ND | 20 | | | | | | | | |
| Ethylbenzene | ND | 20 | | | | | | | | |
| m,p-Xylene | ND | 20 | | | | | | | | |
| Bromoform | ND | 20 | | | | | | | | |
| Styrene | ND | 20 | | | | | | | | |
| o-Xylene | ND | 20 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 20 | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 40 | | | | | | | | |
| Isopropylbenzene | ND | 20 | | | | | | | | |
| Bromobenzene | ND | 20 | | | | | | | | |
| n-Propylbenzene | ND | 20 | | | | | | | | |
| 4-Chlorotoluene | ND | 20 | | | | | | | | |
| 2-Chlorotoluene | ND | 20 | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 20 | | | | | | | | |
| tert-Butylbenzene | ND | 20 | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 20 | | | | | | | | |
| sec-Butylbenzene | ND | 20 | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 20 | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 20 | | | | | | | | |
| 4-Isopropyltoluene | ND | 20 | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 20 | | | | | | | | |
| n-Butylbenzene | ND | 20 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 60 | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 40 | | | | | | | | |
| Naphthalene | ND | 40 | | | | | | | | |
| Hexachlorobutadiene | ND | 40 | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 40 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 250 | | 200 | | 125 | 70 | 130 | | | |
| Surr: Toluene-d8 | 186 | | 200 | | 93 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 212 | | 200 | | 106 | 70 | 130 | | | |



Alpha Analytical, Inc.

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Date:
08-Jun-10

QC Summary Report

Work Order:
10052741

Laboratory Control Spike

Type: LCS

Test Code: EPA Method SW8260B

File ID: C:\HPCHEMMS06\DATA\100602\10060218.D

Batch ID: MS06S4340A

Analysis Date: 06/02/2010 16:22

Sample ID: LCS MS06S4340A

Units: µg/Kg

Run ID: MSD_06_100602B

Prep Date: 06/02/2010 16:22

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| 1,1-Dichloroethene | 303 | 20 | 400 | | 76 | 10 | 143 | | | |
| Benzene | 379 | 10 | 400 | | 95 | 70 | 136 | | | |
| Trichloroethene | 586 | 20 | 400 | | 146 | 70 | 138 | | | L51 |
| Toluene | 341 | 10 | 400 | | 85 | 70 | 135 | | | |
| Chlorobenzene | 330 | 20 | 400 | | 82 | 70 | 135 | | | |
| Ethylbenzene | 358 | 10 | 400 | | 90 | 70 | 137 | | | |
| m,p-Xylene | 341 | 10 | 400 | | 85 | 70 | 143 | | | |
| o-Xylene | 340 | 10 | 400 | | 85 | 70 | 143 | | | |
| Surr: 1,2-Dichloroethane-d4 | 519 | | 400 | | 130 | 70 | 130 | | | |
| Surr: Toluene-d8 | 379 | | 400 | | 95 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 446 | | 400 | | 112 | 70 | 130 | | | |

Sample Matrix Spike

Type: MS

Test Code: EPA Method SW8260B

File ID: C:\HPCHEMMS06\DATA\100607\10060728.D

Batch ID: MS06S4340A

Analysis Date: 06/07/2010 19:46

Sample ID: 10052504-03AMS

Units: µg/Kg

Run ID: MSD_06_100602B

Prep Date: 06/07/2010 19:46

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| 1,1-Dichloroethene | 344 | 20 | 400 | | 86 | 10 | 143 | | | |
| Benzene | 502 | 10 | 400 | | 125 | 57 | 143 | | | |
| Trichloroethene | 471 | 20 | 400 | | 118 | 52 | 154 | | | |
| Toluene | 478 | 10 | 400 | | 119 | 53 | 142 | | | |
| Chlorobenzene | 444 | 20 | 400 | | 111 | 55 | 142 | | | |
| Ethylbenzene | 450 | 10 | 400 | | 113 | 56 | 145 | | | |
| m,p-Xylene | 482 | 10 | 400 | | 121 | 53 | 154 | | | |
| o-Xylene | 488 | 10 | 400 | | 122 | 60 | 148 | | | |
| Surr: 1,2-Dichloroethane-d4 | 359 | | 400 | | 90 | 70 | 130 | | | |
| Surr: Toluene-d8 | 411 | | 400 | | 103 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 406 | | 400 | | 102 | 70 | 130 | | | |

Sample Matrix Spike Duplicate

Type: MSD

Test Code: EPA Method SW8260B

File ID: C:\HPCHEMMS06\DATA\100604\10060415.D

Batch ID: MS06S4340A

Analysis Date: 06/04/2010 16:56

Sample ID: 10052504-03AMSD

Units: µg/Kg

Run ID: MSD_06_100602B

Prep Date: 06/04/2010 16:56

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| 1,1-Dichloroethene | 549 | 20 | 400 | | 137 | 10 | 143 | 344.4 | 45.9(20) | R5 |
| Benzene | 436 | 10 | 400 | | 109 | 57 | 143 | 501.6 | 14.1(20) | |
| Trichloroethene | 437 | 20 | 400 | | 109 | 52 | 154 | 471.1 | 7.5(20) | |
| Toluene | 403 | 10 | 400 | | 101 | 53 | 142 | 477.6 | 16.9(20) | |
| Chlorobenzene | 409 | 20 | 400 | | 102 | 55 | 142 | 444.4 | 8.3(20) | |
| Ethylbenzene | 410 | 10 | 400 | | 103 | 56 | 145 | 450.3 | 9.3(20) | |
| m,p-Xylene | 438 | 10 | 400 | | 109 | 53 | 154 | 482.1 | 9.6(20) | |
| o-Xylene | 422 | 10 | 400 | | 105 | 60 | 148 | 488 | 14.6(20) | |
| Surr: 1,2-Dichloroethane-d4 | 442 | | 400 | | 110 | 70 | 130 | | | |
| Surr: Toluene-d8 | 392 | | 400 | | 98 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 400 | | 400 | | 100 | 70 | 130 | | | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

L51 = Analyte recovery was above acceptance limits for the LCS, but was acceptable in the MS/MSD.

R5 = MS/MSD RPD exceeded the laboratory control limit. Recovery met acceptance criteria.



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Date:
08-Jun-10

QC Summary Report

Work Order:
10052741

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS06\DATA\100528\10052805.D**

Batch ID: **MS06W0528A**

Analysis Date: **05/28/2010 10:34**

Sample ID: **MBLK MS06W0528A**

Units: **µg/L**

Run ID: **MSD_06_100528A**

Prep Date: **05/28/2010 10:34**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|------------------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Dichlorodifluoromethane | ND | 1 | | | | | | | | |
| Chloromethane | ND | 2 | | | | | | | | |
| Vinyl chloride | ND | 1 | | | | | | | | |
| Chloroethane | ND | 1 | | | | | | | | |
| Bromomethane | ND | 2 | | | | | | | | |
| Trichlorofluoromethane | ND | 1 | | | | | | | | |
| 1,1-Dichloroethene | ND | 1 | | | | | | | | |
| Dichloromethane | ND | 2 | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 1 | | | | | | | | |
| 1,1-Dichloroethane | ND | 1 | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 1 | | | | | | | | |
| Bromochloromethane | ND | 1 | | | | | | | | |
| Chloroform | ND | 1 | | | | | | | | |
| 2,2-Dichloropropane | ND | 1 | | | | | | | | |
| 1,2-Dichloroethane | ND | 1 | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 1 | | | | | | | | |
| 1,1-Dichloropropene | ND | 1 | | | | | | | | |
| Carbon tetrachloride | ND | 1 | | | | | | | | |
| Benzene | ND | 1 | | | | | | | | |
| Dibromomethane | ND | 1 | | | | | | | | |
| 1,2-Dichloropropane | ND | 1 | | | | | | | | |
| Trichloroethene | ND | 1 | | | | | | | | |
| Bromodichloromethane | ND | 1 | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 1 | | | | | | | | |
| trans-1,3-Dichloropropene | ND | 1 | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 1 | | | | | | | | |
| Toluene | ND | 1 | | | | | | | | |
| 1,3-Dichloropropane | ND | 1 | | | | | | | | |
| Dibromochloromethane | ND | 1 | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 2 | | | | | | | | |
| Tetrachloroethene | ND | 1 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1 | | | | | | | | |
| Chlorobenzene | ND | 1 | | | | | | | | |
| Ethylbenzene | ND | 1 | | | | | | | | |
| m,p-Xylene | ND | 1 | | | | | | | | |
| Bromoform | ND | 1 | | | | | | | | |
| Styrene | ND | 1 | | | | | | | | |
| o-Xylene | ND | 1 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 1 | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2 | | | | | | | | |
| Isopropylbenzene | ND | 1 | | | | | | | | |
| Bromobenzene | ND | 1 | | | | | | | | |
| n-Propylbenzene | ND | 1 | | | | | | | | |
| 4-Chlorotoluene | ND | 1 | | | | | | | | |
| 2-Chlorotoluene | ND | 1 | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 1 | | | | | | | | |
| tert-Butylbenzene | ND | 1 | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1 | | | | | | | | |
| sec-Butylbenzene | ND | 1 | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 1 | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 1 | | | | | | | | |
| 4-Isopropyltoluene | ND | 1 | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 1 | | | | | | | | |
| n-Butylbenzene | ND | 1 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 3 | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 2 | | | | | | | | |
| Naphthalene | ND | 2 | | | | | | | | |
| Hexachlorobutadiene | ND | 2 | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 2 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 11.9 | | 10 | | 119 | 70 | 130 | | | |
| Surr: Toluene-d8 | 9.74 | | 10 | | 97 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 10.3 | | 10 | | 103 | 70 | 130 | | | |



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Date:
08-Jun-10

QC Summary Report

Work Order:
10052741

Laboratory Control Spike

Type: LCS

Test Code: EPA Method SW8260B

File ID: C:\HPCHEMMS06\DATA\100528\10052803.D

Batch ID: MS06W0528A

Analysis Date: 05/28/2010 09:44

Sample ID: LCS MS06W0528A

Units: µg/L

Run ID: MSD_06_100528A

Prep Date: 05/28/2010 09:44

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| 1,1-Dichloroethene | 8.87 | 1 | 10 | | 89 | 80 | 120 | | | |
| Benzene | 9.61 | 0.5 | 10 | | 96 | 70 | 130 | | | |
| Trichloroethene | 9.43 | 1 | 10 | | 94 | 70 | 130 | | | |
| Toluene | 9.14 | 0.5 | 10 | | 91 | 80 | 120 | | | |
| Chlorobenzene | 9.27 | 1 | 10 | | 93 | 70 | 130 | | | |
| Ethylbenzene | 9.39 | 0.5 | 10 | | 94 | 80 | 120 | | | |
| m,p-Xylene | 9.21 | 0.5 | 10 | | 92 | 70 | 130 | | | |
| o-Xylene | 9.36 | 0.5 | 10 | | 94 | 70 | 130 | | | |
| Surr: 1,2-Dichloroethane-d4 | 11.5 | | 10 | | 115 | 70 | 130 | | | |
| Surr: Toluene-d8 | 9.79 | | 10 | | 98 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 10.6 | | 10 | | 106 | 70 | 130 | | | |

Sample Matrix Spike

Type: MS

Test Code: EPA Method SW8260B

File ID: C:\HPCHEMMS06\DATA\100528\10052816.D

Batch ID: MS06W0528A

Analysis Date: 05/28/2010 15:06

Sample ID: 10052625-01AMS

Units: µg/L

Run ID: MSD_06_100528A

Prep Date: 05/28/2010 15:06

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| 1,1-Dichloroethene | 48.8 | 2.5 | 50 | 0 | 98 | 60 | 130 | | | |
| Benzene | 52.4 | 1.3 | 50 | 0 | 105 | 67 | 130 | | | |
| Trichloroethene | 51.9 | 2.5 | 50 | 0 | 104 | 69 | 130 | | | |
| Toluene | 49.4 | 1.3 | 50 | 0 | 99 | 66 | 130 | | | |
| Chlorobenzene | 50.2 | 2.5 | 50 | 0 | 100 | 70 | 130 | | | |
| Ethylbenzene | 51.4 | 1.3 | 50 | 0 | 103 | 68 | 130 | | | |
| m,p-Xylene | 49.5 | 1.3 | 50 | 0 | 99 | 64 | 130 | | | |
| o-Xylene | 50.9 | 1.3 | 50 | 0 | 102 | 70 | 130 | | | |
| Surr: 1,2-Dichloroethane-d4 | 60.2 | | 50 | | 120 | 70 | 130 | | | |
| Surr: Toluene-d8 | 47.4 | | 50 | | 95 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 51.6 | | 50 | | 103 | 70 | 130 | | | |

Sample Matrix Spike Duplicate

Type: MSD

Test Code: EPA Method SW8260B

File ID: C:\HPCHEMMS06\DATA\100528\10052817.D

Batch ID: MS06W0528A

Analysis Date: 05/28/2010 15:30

Sample ID: 10052625-01AMSD

Units: µg/L

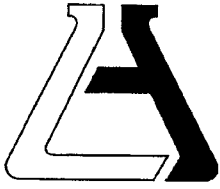
Run ID: MSD_06_100528A

Prep Date: 05/28/2010 15:30

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| 1,1-Dichloroethene | 45.4 | 2.5 | 50 | 0 | 91 | 60 | 130 | 48.81 | 7.2(20) | |
| Benzene | 51.7 | 1.3 | 50 | 0 | 103 | 67 | 130 | 52.44 | 1.4(20) | |
| Trichloroethene | 51.7 | 2.5 | 50 | 0 | 103 | 69 | 130 | 51.88 | 0.4(20) | |
| Toluene | 51.2 | 1.3 | 50 | 0 | 102 | 66 | 130 | 49.35 | 3.7(20) | |
| Chlorobenzene | 51.3 | 2.5 | 50 | 0 | 103 | 70 | 130 | 50.16 | 2.2(20) | |
| Ethylbenzene | 52.5 | 1.3 | 50 | 0 | 105 | 68 | 130 | 51.36 | 2.1(20) | |
| m,p-Xylene | 51 | 1.3 | 50 | 0 | 102 | 64 | 130 | 49.51 | 3.0(20) | |
| o-Xylene | 52.8 | 1.3 | 50 | 0 | 106 | 70 | 130 | 50.93 | 3.5(20) | |
| Surr: 1,2-Dichloroethane-d4 | 60.1 | | 50 | | 120 | 70 | 130 | | | |
| Surr: Toluene-d8 | 48.8 | | 50 | | 98 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 53 | | 50 | | 106 | 70 | 130 | | | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92868 - 714/771-6900

FAX 714/538-1209

CLIENT Alpha Analytical, Inc. (11338)
ATTN: Reyna Vallejo
255 Glendale Avenue
Suite 21
Sparks, NV 89431-5778

LAB REQUEST 255616

REPORTED 06/04/2010

RECEIVED 05/28/2010

PROJECT W.O. #E2M10052741

SUBMITTER Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.

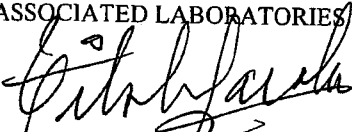
1083519
1083520
1083521

Client Sample Identification

E2M10052741-16A
E2M10052741-17A
Laboratory Method Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,


Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 1083519

Client Sample ID: E2M10052741-16A

Matrix: WATER

Date Sampled: 05/26/2010

Time Sampled: 16:30

| Analyte | Result | DLR | Units | Date/Analyst |
|-----------------------------|--------|-------|-------|--------------|
| 420.1Total Phenolics | | | | |
| Total Phenolics | ND | 0.005 | mg/L | 06/03/10 HK |

Order #: 1083520

Client Sample ID: E2M10052741-17A

Matrix: WATER

Date Sampled: 05/26/2010

Time Sampled: 09:40

| Analyte | Result | DLR | Units | Date/Analyst |
|-----------------------------|--------|-------|-------|--------------|
| 420.1Total Phenolics | | | | |
| Total Phenolics | ND | 0.005 | mg/L | 06/03/10 HK |

Order #: 1083521

Client Sample ID: Laboratory Method Blank

Matrix: WATER

| Analyte | Result | DLR | Units | Date/Analyst |
|-----------------------------|--------|-------|-------|--------------|
| 420.1Total Phenolics | | | | |
| Total Phenolics | ND | 0.005 | mg/L | 06/03/10 HK |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



**ASSOCIATED LABORATORIES
QA REPORT FORM**

QC Sample: LR 255328
 Matrix: WATER
 Prep. Date: June 3, 2010
 Analysis Date: June 3, 2010
 ID#'s in Batch: LR 255045, 255220, 255328, 255410, 255509, 255615, 255616, 255627, 255655

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = mg/L

| Test | Method | Sample Result | Spike Added | Matrix Spike | Matrix Spike Dup | %Rec MS | %Rec MSD | RPD |
|-----------|-----------------|---------------|-------------|--------------|------------------|---------|----------|-----|
| PHENOLICS | 420.1/5530/9065 | ND | 0.20 | 0.205 | 0.200 | 103 | 100 | 2 |

ND = Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

| |
|----------------------|
| %REC LIMITS = 80-120 |
|----------------------|

| |
|-----------------|
| RPD LIMITS = 20 |
|-----------------|

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

| PREP BLK | LCS | | | | |
|----------|--------|------|------|---------|---------|
| Value | Result | True | %Rec | L.Limit | H.Limit |
| ND | 0.080 | 0.08 | 100 | 80% | 120% |

Value = Preparation Blank Value

LCS Result = Lab Control Sample Result

True = True Value of LCS

L.Limit / H.Limit = LCS Control Limits



Laboratory Report
Report ID: 105970

**Sierra
Environmental
Monitoring, Inc.**

Alpha Analytical

255 Glendale Avenue Suite 21
Sparks, NV 89431

Date: 6/8/2010
Client: ALP-855
Taken by: J. Ruffing
PO #:

Dear Alpha Analytical,

It is the policy of Sierra Environmental Monitoring, Inc to strictly adhere to a comprehensive Quality Assurance Plan that insures the data presented in this report are both accurate and precise. Sierra Environmental Monitoring, Inc. maintains accreditation in the State of Nevada (NV-15) and the State of California (ELAP 2526).

The data presented in this report were obtained from the analysis of samples received under a chain of custody. Unless otherwise noted below, samples were received in good condition, properly preserved and within the hold time for the requested analyses. Any anomalies associated with the analysis of the samples have been flagged with appropriate explanation in the Analysis Report section of this Laboratory Report.

General Comments:

- There are no general comments for this report.

Individual Sample Comments:

- There are no specific comments that are associated with these samples.

Approved By:

Date:


Sierra Environmental Monitoring, Inc.

6/8/2010

This report is applicable only to the sample received by the laboratory. The liability of the laboratory is limited to the amount paid for this report. This report is for the exclusive use of the client to whom it is addressed and upon the condition that the client assumes all liability for the further distribution of the report or its contents.

Laboratory Report
Report ID: 105970



Sierra
Environmental
Monitoring, Inc.

Alpha Analytical

255 Glendale Avenue Suite 21
Sparks, NV 89431

Date: 6/8/2010
Client: ALP-855
Taken by: J. Ruffing
PO #:

Analysis Report

| Sample ID: | Customer Sample ID | Date Sampled | Time Sampled | Date Received | Reporting Limit | Analyst | Date Analyzed | Data Flag |
|----------------|---------------------------------|--------------|--------------|-----------------|-----------------|---------------|---------------|-----------|
| S201005-1492 | E2M10052741-16 - SB02GW15052610 | 5/26/2010 | 4:30 PM | 5/27/2010 | 0.005 | Kobza | 6/1/2010 | J1 |
| Parameter | Method | Result | Units | Reporting Limit | Analyst | Date Analyzed | Data Flag | |
| Cyanide, Total | SM 4500 CN C | <0.005 | mg/L | 0.005 | Kobza | 6/1/2010 | J1 | |

| Sample ID: | Customer Sample ID | Date Sampled | Time Sampled | Date Received | Reporting Limit | Analyst | Date Analyzed | Data Flag |
|----------------|---------------------------------|--------------|--------------|-----------------|-----------------|---------------|---------------|-----------|
| S201005-1493 | E2M10052741-17 - SB07GW17052610 | 5/26/2010 | 9:40 AM | 5/27/2010 | 0.005 | Kobza | 6/4/2010 | |
| Parameter | Method | Result | Units | Reporting Limit | Analyst | Date Analyzed | Data Flag | |
| Cyanide, Total | SM 4500 CN C | <0.005 | mg/L | 0.005 | Kobza | 6/4/2010 | | |

Data Flag Legend:

J1 - The batch MS and/or MSD were outside acceptance limits. The batch LCS was acceptable.

John Kobza, Ph.D.
Laboratory Director

Page 2 of 3
1135 Financial Blvd.
Reno, NV 89502-2348
Phone (775) 857-2400
FAX (775) 857-2404
sem@sem-analytical.com

John C. Seher
Special Consultant
Quality Assurance Manager



Laboratory Report
Report ID: 105970

**Sierra
 Environmental
 Monitoring, Inc.**

Alpha Analytical
 255 Glendale Avenue Suite 21
 Sparks, NV 89431

Date: 6/8/2010
Client: ALP-855
Taken by: J. Ruffing
PO #:

Quality Control Report

| <i>Parameter</i> | <i>LCS, % Recovery</i> | <i>MS, % Recovery</i> | <i>MSD, % Recovery</i> | <i>RPD, %</i> | <i>Method Blank</i> |
|------------------|----------------------------|---------------------------|----------------------------|---------------|---------------------|
| Cyanide, Total | 96.0 | 94.0 | | | <0.005 mg/L |
| Cyanide, Total | 81.0 | 49.0 | | | <0.005 mg/L |

| | | |
|--|-------------------------|------------------------------------|
| Legend: <i>LCS- Laboratory Control Standard</i> | <i>MS- Matrix Spike</i> | <i>MSD- Matrix Spike Duplicate</i> |
| <i>RPD- Relative Percent Difference</i> | | |

CHAIN-OF-CUSTODY RECORD

AMENDED
NV
 Page: 4 of 9

Billing Information :

E2M
 9563 S. Kingston Ct.
 Englewood, CO 80112

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : E2M10052741
Report Due By : 5:00 PM On : 04-Jun-10

Client:
 HDR | E2M
 2365 Iron Point Road
 Suite 300
 Folsom, CA 95630

Report Attention Phone Number (916) 852-7792 x 204
 Email Address clayton.mokri@hdrinc.com
 Clayton Mokri

EDD Required : Yes

Sampled by : Jacob Ruffing

Client's COC # : 32517
 Job : NTD

Cooler Temp 4 °C
 Samples Received 26-May-10
 Date Printed 27-May-10

OC Level : S3 = Final Rpt. MBLK. LCS. MS/MSD With Surrogates

| Alpha Sample ID | Client Sample ID | Collection Matrix Date | No. of Bottles Alpha Sub TAT | Requested Tests | | | | | | Sample Remarks | | |
|-----------------|------------------|------------------------|------------------------------|-----------------|----------|------|------|--------------|---------------|----------------|-------|--|
| | | | | N_TOTAL_W | OG_HEM_W | PH_S | PH_W | PHENOLIC_S_W | PHOSPHO_RUS_W | | TDS_W | TPH/E_S |
| E2M10052741-01A | SB0102SO052610 | SO 05/26/10 13:30 | 1 0 5 | | | | | | | | | |
| E2M10052741-02A | SB0108SO052610 | SO 05/26/10 13:40 | 1 0 5 | | | | | | | | | pH |
| E2M10052741-03A | SB0113SO052610 | SO 05/26/10 13:50 | 1 0 5 | | | | | | | | | |
| E2M10052741-04A | SB0202SO052610 | SO 05/26/10 15:15 | 1 0 5 | | | | | | | | | Sample ID on brass tube is SB02SO052610, matched by sampling time. |
| E2M10052741-05A | SB0208SO052610 | SO 05/26/10 15:50 | 1 0 5 | | | | | | | | | |
| E2M10052741-06A | SB0215SO052610 | SO 05/26/10 16:10 | 1 0 5 | | | | | | | | | Sample ID on brass tube is SB0213SO052610, logged in per COC and matched by sampling time. |
| E2M10052741-07A | SB0401SO052610 | SO 05/26/10 08:10 | 1 0 5 | | | | | | | | | |
| E2M10052741-08A | SB0410SO052610 | SO 05/26/10 07:45 | 1 0 5 | | | | | | | | | |

Comments: Samples brought in by client. Frozen ice. Samples rec'd 5/26/10. kept cold and secure until login on 5/27/10. Samples rec'd after 4:30 cut-off time, therefore one day added to TAT. Total Cyanide added to SEM. H2SO4 split was created from 1 Liter unpreserved amber for sample -16A & -17A for Phenolics to be subbed to Associated Labs. Amended 5/27/10 to note that Total Cyanide will be subbed to SEM. due to login error. JTD.

Logged in by: Paul Johnson Signature: [Signature] Print Name: Tara Johnson Company: Alpha Analytical, Inc. Date/Time: 5/27/10 12:49

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tecliar B-Brass P-Plastic OT-Other

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

AMENDED
 NV
 Page: *Boyd*

WorkOrder : E2M10052741

Report Due By : 5:00 PM On : 04-Jun-10

Client:
 HDR | E2M
 2365 Iron Point Road
 Suite 300
 Folsom, CA 95630

Report Attention Phone Number Email Address
 Clayton Mokri (916) 852-7792 x 204 clayton.mokri@hdrinc.com

EDD Required : Yes

Sampled by : Jacob Ruffing

Cooler Temp Samples Received Date Printed
 4 °C 26-May-10 27-May-10

Client's COC # : 32517 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates
 QC Level : S3 Job : NTD

| Alpha Sample ID | Client Sample ID | Collection Matrix Date | No. of Bottles Alpha Sub | TAT | Requested Tests | | | | Sample Remarks |
|-----------------|------------------|------------------------|--------------------------|-----|-----------------|--------|--------|--------|--|
| | | | | | TPH/E_W | TPHP_S | TPHP_W | VOC_S | |
| E2M10052741-01A | SB0102SO052610 | SO 05/26/10 13:30 | 1 | 0 | 5 | GAS-N | | 8260_N | |
| E2M10052741-02A | SB0108SO052610 | SO 05/26/10 13:40 | 1 | 0 | 5 | GAS-N | | 8260_N | |
| E2M10052741-03A | SB0113SO052610 | SO 05/26/10 13:50 | 1 | 0 | 5 | GAS-N | | 8260_N | |
| E2M10052741-04A | SB0202SO052610 | SO 05/26/10 15:15 | 1 | 0 | 5 | GAS-N | | 8260_N | Sample ID on brass tube is SB02SO052610, matched by sampling time. |
| E2M10052741-05A | SB0208SO052610 | SO 05/26/10 15:50 | 1 | 0 | 5 | GAS-N | | 8260_N | |
| E2M10052741-06A | SB0215SO052610 | SO 05/26/10 16:10 | 1 | 0 | 5 | GAS-N | | 8260_N | Sample ID on brass tube is SB0213SO052610, logged in per COC and matched by sampling time. |
| E2M10052741-07A | SB0401SO052610 | SO 05/26/10 08:10 | 1 | 0 | 5 | GAS-N | | 8260_N | |
| E2M10052741-08A | SB0410SO052610 | SO 05/26/10 07:45 | 1 | 0 | 5 | GAS-N | | 8260_N | |

Comments: Samples brought in by client. Frozen ice. Samples rec'd 5/26/10, kept cold and secure until login on 5/27/10. Samples rec'd after 4:30 cut-off time, therefore one day added to TAT. Total Cyanide subbed to SEM. H2SO4 split was created from 1 Liter unpressured amber for sample -16A & -17A for Phenolics to be subbed to Associated Labs. Amended 5/27/10 to note that Total Cyanide will be subbed to SEM, due to login error. TD.

Logged in by: *[Signature]* *[Signature]*
 Signature Print Name
 Alpha Analytical, Inc. Date/Time *5/27/10 12:45*

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.
 The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.
 Matrix Type: AQA(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

E2M
9563 S. Kingston Ct.
Englewood, CO 80112

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

AMENDED
Page: 2 of 4

WorkOrder : E2M10052741
Report Due By : 5:00 PM On : 04-Jun-10

Client:
HDR I E2M
2365 Iron Point Road
Suite 300
Folsom, CA 95630

Report Attention Phone Number Email Address
Clayton Mokri (916) 852-7792 x 204 clayton.mokri@hdrinc.com

EDD Required : Yes

Sampled by : Jacob Ruffing

Client's COC # : 32517

Job : NTD

Cooler Temp Samples Received Date Printed
4 °C 26-May-10 27-May-10

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD with Surrogates

| Alpha Sample ID | Client Sample ID | Collection Matrix Date | No. of Bottles Alpha | Sub TAT | Requested Tests | | | | | | Sample Remarks | | |
|-----------------|------------------|------------------------|----------------------|---------|-----------------|--------------|-----------|-------|-----------|----------|----------------|--------------------------------|---------|
| | | | | | 300_0_W | ALKALINITY_W | AMMONIA_W | BNA_W | CYANIDE_T | METALS_A | | METALS_S | N_TKN_W |
| E2M10052741-09A | SB0417SO0052610 | SO 05/26/10 08:00 | 1 | 0 | 5 | | | | | | | As, Ba, Cd, Cr, Pb, Hg, Ag, Se | |
| E2M10052741-10A | SB0502SO0052610 | SO 05/26/10 11:05 | 1 | 0 | 5 | | | | | | | As, Ba, Cd, Cr, Pb, Hg, Ag, Se | |
| E2M10052741-11A | SB0510SO0052610 | SO 05/26/10 11:30 | 1 | 0 | 5 | | | | | | | As, Ba, Cd, Cr, Pb, Hg, Ag, Se | |
| E2M10052741-12A | SB0517SO0052610 | SO 05/26/10 11:45 | 1 | 0 | 5 | | | | | | | As, Ba, Cd, Cr, Pb, Hg, Ag, Se | |
| E2M10052741-13A | SB0702SO0052610 | SO 05/26/10 08:55 | 1 | 0 | 5 | | | | | | | As, Ba, Cd, Cr, Pb, Hg, Ag, Se | |
| E2M10052741-14A | SB0710SO0052610 | SO 05/26/10 09:15 | 1 | 0 | 5 | | | | | | | As, Ba, Cd, Cr, Pb, Hg, Ag, Se | |
| E2M10052741-15A | SB0717SO0052610 | SO 05/26/10 09:25 | 1 | 0 | 5 | | | | | | | As, Ba, Cd, Cr, Pb, Hg, Ag, Se | |
| E2M10052741-16A | SB02GW15052610 | AQ 05/26/10 16:30 | 13 | 2 | 5 | | | | | | | N-Total =(NO2+N03+TKN) | |

Comments: Samples brought in by client. Frozen ice. Samples rec'd 5/26/10, kept cold and secure until login on 5/27/10. Samples rec'd after 4:30 cut-off time, therefore one day added to TAT. Total Cyanide subbed to SEM. H2SO4 split was created from 1 Liter unpreserved amber for sample -16A & -17A for Phenolics to be subbed to Associated Labs. Amended 5/27/10 to note that Total Cyanide will be subbed to SEM, due to login error. TD.

Logged in by: Chae DeBussche Signature Tara Dickerson Print Name
Alpha Analytical, Inc. Company 5/27/10 12:41 Date/Time

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQAqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

E2M
9663 S. Kingston Ct.

Englewood, CO 80112

Client:

HDR | E2M
2365 Iron Point Road
Suite 300
Folsom, CA 95630

PO :

Job : NTD

Client's COC # : 32517 = Final Rpt. MBLK, LCS, MSMMSD With Surrogates

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

Report Attention

Clayton Mokri

Phone Number

(916) 852-7792 x 204 clayton.mokri@hdrinc.com

Email Address

AMENDED

Page: 5 of 9

WorkOrder : E2M10052741

Report Due By : 5:00 PM On : 04-Jun-10

EDD Required : Yes

Sampled by : Jacob Ruffing

Cooler Temp

4 °C

Samples Received

26-May-10

Date Printed

27-May-10

| Alpha Sample ID | Client Sample ID | Collection Matrix Date | No. of Bottles | | | Requested Tests | | | | | | Sample Remarks | | | | | | | |
|-----------------|------------------|------------------------|----------------|-----|-----|-----------------|----------|------|------|--------------|---------------|----------------|-------|---------|--|--|--|--|--|
| | | | Alpha | Sub | TAT | N_TOTAL_W | OG_HEM_W | PH_S | PH_W | PHENOLIC_S_W | PHOSPHO_RUS_W | | TDS_W | TPH/E_S | | | | | |
| E2M10052741-09A | SB0417SC0052610 | SO 05/26/10 08:00 | 1 | 0 | 5 | | | | | | | | | | | | | | |
| E2M10052741-10A | SB0502SC0052610 | SO 05/26/10 11:05 | 1 | 0 | 5 | | | | | | | | | | | | | | |
| E2M10052741-11A | SB0510SC0052610 | SO 05/26/10 11:30 | 1 | 0 | 5 | | | | | | | | | | | | | | |
| E2M10052741-12A | SB0517SC0052610 | SO 05/26/10 11:45 | 1 | 0 | 5 | | | | | | | | | | | | | | |
| E2M10052741-13A | SB0702SC0052610 | SO 05/26/10 08:55 | 1 | 0 | 5 | | | | | | | | | | | | | | |
| E2M10052741-14A | SB0710SC0052610 | SO 05/26/10 09:15 | 1 | 0 | 5 | | | | | | | | | | | | | | |
| E2M10052741-15A | SB0717SC0052610 | SO 05/26/10 09:25 | 1 | 0 | 5 | | | | | | | | | | | | | | |
| E2M10052741-16A | SB02GW15052610 | AQ 05/26/10 16:30 | 13 | 2 | 5 | | | | | | | | | | | | | | |
| E2M10052741-17A | SB07GW17052610 | AQ 05/26/10 09:40 | 13 | 2 | 5 | | | | | | | | | | | | | | |

Comments: Samples brought in by client. Frozen ice. Samples rec'd 5/26/10. kept cold and secure until login on 5/27/10. Samples rec'd after 4:30 cut-off time, therefore one day added to TAT. Total Cyanide subbed to SEM. : H2SO4 split was created from 1 Liter unpreserved amber for sample -16A & -17A for Phenolics to be subbed to Associated Labs. Amended 5/27/10 to note that Total Cyanide will be subbed to SEM. due to login error. JTD.

Logged in by: Clayton Mokri Signature: [Signature] Print Name: Clayton Mokri Company: Alpha Analytical, Inc. Date/Time: 5/27/10 12:49

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

CHAIN-OF-CUSTODY RECORD

AMENDED page: 4 of 8

Billing Information :

E2M
9563 S. Kingston Ct.
Englewood, CO 80112

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : E2M10052741
Report Due By : 5:00 PM On : 04-Jun-10

Client:

HDR | E2M
2365 Iron Point Road
Suite 300
Folsom, CA 95630

Report Attention Phone Number Email Address
Clayton Mokri (916) 852-7792 x 204 clayton.mokri@hdrinc.com

EDD Required : Yes

Sampled by : Jacob Ruffing

Cooler Temp Samples Received Date Printed

4 °C 26-May-10 27-May-10

Client's COC # : 32517 Job : NTD
QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

| Alpha Sample ID | Client Sample ID | Collection Matrix Date | No. of Bottles | | Requested Tests | | Sample Remarks | | | | | | |
|-----------------|------------------|------------------------|----------------|---------|-----------------|--------|----------------|--------|-------|-------|--|--|-------------------------|
| | | | Alpha | Sub TAT | TPHE_W | TPHE_S | | TPHE_W | VOC_S | VOC_W | | | |
| E2M10052741-09A | SB0417SO052610 | SO 05/26/10 08:00 | 1 | 0 | 5 | | | | | | | | |
| E2M10052741-10A | SB0502SO052610 | SO 05/26/10 11:05 | 1 | 0 | 5 | | | | | | | | |
| E2M10052741-11A | SB0510SO052610 | SO 05/26/10 11:30 | 1 | 0 | 5 | | | | | | | | |
| E2M10052741-12A | SB0517SO052610 | SO 05/26/10 11:45 | 1 | 0 | 5 | | | | | | | | |
| E2M10052741-13A | SB0702SO052610 | SO 05/26/10 08:55 | 1 | 0 | 5 | | | | | | | | |
| E2M10052741-14A | SB0710SO052610 | SO 05/26/10 09:15 | 1 | 0 | 5 | | | | | | | | |
| E2M10052741-15A | SB0717SO052610 | SO 05/26/10 09:25 | 1 | 0 | 5 | | | | | | | | |
| E2M10052741-16A | SB02GW15052610 | AQ 05/26/10 16:30 | 13 | 2 | 5 | TPHE_N | | | | | | | |
| E2M10052741-17A | SB07GW17052610 | AQ 05/26/10 09:40 | 13 | 2 | 5 | TPHE_N | | | | | | | |
| E2M10052741-18A | TB02GWNAA052610 | AQ 05/26/10 07:00 | 1 | 0 | 5 | | | | | | | | Reno Trip Blank 5/17/10 |

Comments: Samples brought in by client. Frozen ice. Samples rec'd 5/26/10, kept cold and secure until login on 5/27/10. Samples rec'd after 4:30 cut-off time, therefore one day added to TAT. Total Cyanide
subbed to SEM. H2SO4 split was created from 1 Liter unpreserved amber for sample -16A & -17A for Phenolics to be subbed to Associated Labs. Amended 5/27/10 to note that Total Cyanide will
be subbed to SEM, due to begin error. TD.

Logged in by: [Signature] [Print Name] [Company] [Date/Time]
Alpha Analytical, Inc. 5/27/10 12:44

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.
The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.
Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedar B-Brass P-Plastic OT-Other

CHAIN-OF-CUSTODY RECORD

AMENDED

Page: 3 of 9

NV

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : E2M10052741

Report Due By : 5:00 PM On : 04-Jun-10

Billing Information :
E2M
9563 S. Kingston Ct.
Englewood, CO 80112

Client:
HDR | E2M
2365 Iron Point Road
Suite 300
Folsom, CA 95630

Report Attention : Clayton Mokri
Phone Number : (916) 852-7792 x 204
Email Address : clayton.mokri@hdrinc.com

Report Due By : 5:00 PM On : 04-Jun-10

Sampled by : Jacob Ruffing
Cooler Temp : 4 °C
Samples Received : 26-May-10
Date Printed : 27-May-10

Client's COC # : 32517
QC Level : S3 = Final Rpt. MBLK, LCS, MS/MSD With Surrogates

Job : NTD

| Alpha Sample ID | Client Sample ID | Collection Date | No. of Bottles | | | Requested Tests | | | | | | Sample Remarks | |
|-----------------|------------------|-------------------|----------------|-----|-----|----------------------|--------------|-----------|---------|-----------|------------|--------------------------|-------------------------|
| | | | Alpha | Sub | TAT | 300_0_W | ALKALINITY_W | AMMONIA_W | BNA_W | CYANIDE_T | METALS_A | | METALS_S |
| E2M10052741-17A | SB07GW17052610 | AQ 05/26/10 09:40 | 13 | 2 | 5 | NO2, NO3, SO4, Cl, F | Alk | NH3 | Phenols | Cyanide | Spec. List | N-Total (NO2+N03+TKN) | |
| E2M10052741-18A | TB02GWNA052610 | AQ 05/26/10 07:00 | 1 | 0 | 5 | | | | | | | | Reno Trip Blank 5/17/10 |

Comments: Samples brought in by client. Frozen ice. Samples rec'd 5/26/10. kept cold and secure until login on 5/27/10. Samples rec'd after 4:30 cut-off time, therefore one day added to TAT. Total Cyanide subbed to SEM. : H2SO4 split was created from 1 Liter unpressured amber for sample -16A & -17A for Phenolics to be subbed to Associated Labs. Amended 5/27/10 to note that Total Cyanide will be subbed to SEM, due to login error. JD.

Logged in by: [Signature] [Print Name] [Company] [Date/Time]
 Signature: [Signature] Print Name: Tate Dickerson Company: Alpha Analytical, Inc. Date/Time: 5/23/10 12:49

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :
 E2M
 9563 S. Kingston Ct.
 Englewood, CO 80112

CHAIN-OF-CUSTODY RECORD

Page: 1 of 4

Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

NV
WorkOrder : E2M10052741
Report Due By : 5:00 PM On : 04-Jun-10

Client:
 HDR | E2M
 2365 Iron Point Road
 Suite 300
 Folsom, CA 95630

Report Attention Phone Number (916) 852-7792 x 204
 Email Address clayton.mokri@hadrinc.com
 Clayton Mokri

EDD Required : Yes

Sampled by : Jacob Ruffing

Client's COC # : 32517

Job : NTD

Cooler Temp 4 °C

Samples Received 26-May-10

Date Printed 27-May-10

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

| Alpha Sample ID | Client Sample ID | Collection Matrix Date | No. of Bottles Alpha Sub TAT | Requested Tests | | | | | | Sample Remarks | | | |
|-----------------|------------------|------------------------|------------------------------|-----------------|----------------|-----------|-------|-----------|----------|----------------|----------|---------|---|
| | | | | 300_0_W | ALKALINITY_Y_W | AMMONIA_W | BNA_W | CYANIDE_T | METALS_A | | METALS_S | N_TKN_W | |
| E2M10052741-01A | SB0102SSO052610 | SO 05/26/10 13:30 | 1 0 5 | | | | | | | | | | |
| E2M10052741-02A | SB0108SSO052610 | SO 05/26/10 13:40 | 1 0 5 | | | | | | | | | | |
| E2M10052741-03A | SB0113SSO052610 | SO 05/26/10 13:50 | 1 0 5 | | | | | | | | | | |
| E2M10052741-04A | SB0202SSO052610 | SO 05/26/10 15:15 | 1 0 5 | | | | | | | | | | Sample ID on brass tube is SB02SSO052610, matched by sampling time. |
| E2M10052741-05A | SB0208SSO052610 | SO 05/26/10 15:50 | 1 0 5 | | | | | | | | | | |
| E2M10052741-06A | SB0215SSO052610 | SO 05/26/10 16:10 | 1 0 5 | | | | | | | | | | Sample ID on brass tube is SB0213SSO052610, logged in per COC and matched by sampling time. |
| E2M10052741-07A | SB0401SSO052610 | SO 05/26/10 08:10 | 1 0 5 | | | | | | | | | | |
| E2M10052741-08A | SB0410SSO052610 | SO 05/26/10 07:45 | 1 0 5 | | | | | | | | | | |

Comments: Samples brought in by client. Frozen ice. Samples rec'd 5/26/10. kept cold and secure until login on 5/27/10. Samples rec'd after 4:30 cut-off time, therefore one day added to TAT. Total Cyanide subbed to CLS. H2SO4 split was created from 1 Liter unpreserved amber for sample -16A & -17A for Phenolics to be subbed to Associated Labs.

Logged in by: *[Signature]* **Signature** *[Signature]* **Print Name** **Alpha Analytical, Inc.** **Company** *[Signature]* **Date/Time** 5/27/10 11:50

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : Aq(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

E2M
9663 S. Kingston Ct.

Englewood, CO 80112

Client:

HDR | E2M
2365 Iron Point Road
Suite 300
Folsom, CA 95630

CHAIN-OF-CUSTODY RECORD

NV

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : E2M10052741

Report Due By : 5:00 PM On : 04-Jun-10

Report Attention

Clayton Mokri (916) 852-7792 x 204 clayton.mokri@hdrinc.com

Phone Number

Email Address

EDD Required : Yes

Sampled by : Jacob Ruffing

Cooler Temp

4 °C

Samples Received

26-May-10

Date Printed

27-May-10

Client's COC # : 32517

Job : NTD

OC Level : S3 = Final Rpt. MBLK, LCS, MS/MSD With Surrogates

| Alpha Sample ID | Client Sample ID | Collection Matrix Date | No. of Bottles Alpha Sub | TAT | Requested Tests | | | | | | Sample Remarks | | |
|-----------------|------------------|------------------------|--------------------------|-----|-----------------|----------------------|-----------|-------|-----------|----------|----------------|---------------------------|-------------------------|
| | | | | | 300_0_W | ALKALINITY_Y_W | AMMONIA_W | BNA_W | CYANIDE_T | METALS_A | | METALS_S | N_TKN_W |
| E2M10052741-17A | SB07GW17052610 | AQ 05/26/10 09:40 | 13 | 2 | 5 | NO2, NO3, SO4, Cl, F | Alk | NH3 | Phenols | Cyanide | Spec. List | N-Total (=NO2+NO3+TKN) | |
| E2M10052741-18A | TB02GWNA052610 | AQ 05/26/10 07:00 | 1 | 0 | 5 | | | | | | | | Reno Trip Blank 5/17/10 |

Comments:

Samples brought in by client. Frozen ice. Samples rec'd 5/26/10. kept cold and secure until login on 5/27/10. Samples rec'd after 4:30 cut-off time, therefore one day added to TAT. Total Cyanide subbed to CLS. H2SO4 split was created from 1 Liter unpressured amber for sample -16A & -17A for Phenolics to be subbed to Associated Labs.

| | | | | | | |
|----------------------|---|------------------|--|-------------------|-------------------------------|------------------|
| Logged in by: |  | Signature |  | Print Name | Alpha Analytical, Inc. | Date/Time |
| | | | | | | 5/27/10 11:32 |

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orho T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

E2M
9563 S. Kingston Ct.
Englewood, CO 80112

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

NV

WorkOrder : E2M10052741
Report Due By : 5:00 PM On : 04-Jun-10

Client:
HDR | E2M
2365 Iron Point Road
Suite 300
Folsom, CA 95630

Report Attention Clayton Mokri
Phone Number (916) 852-7792 x 204
Email Address clayton.mokri@hadrinc.com

EDD Required : Yes

Sampled by : Jacob Ruffing

Client's COC # : 32517

Job : NTD

Cooler Temp 4 °C

Samples Received 26-May-10

Date Printed 27-May-10

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

| Alpha Sample ID | Client Sample ID | Collection Matrix Date | No. of Bottles Alpha Sub TAT | Requested Tests | | | | | | Sample Remarks | | | | | | | | | | | | | |
|-----------------|------------------|------------------------|------------------------------|-----------------|----------|------|------|--------------|---------------|----------------|-------|--------|--|--|--|--|--|--|--|--|--|--|--|
| | | | | N_TOTAL_W | OG_HEM_W | PH_S | PH_W | PHENOLIC_S_W | PHOSPHO_RUS_W | | TDS_W | TPHE_S | | | | | | | | | | | |
| E2M10052741-01A | SB0102SSO052610 | SO 05/26/10 13:30 | 1 0 5 | | | | | | | | | | | | | | | | | | | | |
| E2M10052741-02A | SB0108SO052610 | SO 05/26/10 13:40 | 1 0 5 | | | pH | | | | | | | | | | | | | | | | | |
| E2M10052741-03A | SB0113SSO052610 | SO 05/26/10 13:50 | 1 0 5 | | | | | | | | | | | | | | | | | | | | |
| E2M10052741-04A | SB0202SSO052610 | SO 05/26/10 15:15 | 1 0 5 | | | | | | | | | | | | | | | | | | | | Sample ID on brass tube is SB02SO052610, matched by sampling time. |
| E2M10052741-05A | SB0208SSO052610 | SO 05/26/10 15:50 | 1 0 5 | | | | | | | | | | | | | | | | | | | | |
| E2M10052741-06A | SB0215SSO052610 | SO 05/26/10 16:10 | 1 0 5 | | | | | | | | | | | | | | | | | | | | Sample ID on brass tube is SB0213SO052610, logged in per COC and matched by sampling time. |
| E2M10052741-07A | SB0401SO052610 | SO 05/26/10 08:10 | 1 0 5 | | | | | | | | | | | | | | | | | | | | |
| E2M10052741-08A | SB0410SO052610 | SO 05/26/10 07:45 | 1 0 5 | | | | | | | | | | | | | | | | | | | | |

Comments: Samples brought in by client. Frozen ice. Samples rec'd 5/26/10, kept cold and secure until login on 5/27/10. Samples rec'd after 4:30 cut-off time, therefore one day added to TAT. Total Cyanide subbed to CL S. : H2SO4 split was created from 1 Liter unpressured amber for sample -16A & -17A for Phenolics to be subbed to Associated Labs.

Logged in by:

Signature: *[Handwritten Signature]* Print Name: *Tara Jickman*

Company: Alpha Analytical, Inc. Date/Time: 5/27/10 11:30

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQA(Aqueous) AR(Air) SO(Soil) WSW(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

E2M
9563 S. Kingston Ct.
Englewood, CO 80112

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

NV

Client:

HDR | E2M
2365 Iron Point Road
Suite 300
Folsom, CA 95630

Report Attention

Clayton Mokri (916) 852-7792 x 204 clayton.mokri@hadrinc.com

Phone Number

Email Address

WorkOrder : E2M10052741
Report Due By : 5:00 PM On : 04-Jun-10

EDD Required : Yes

Sampled by : Jacob Ruffing

Cooler Temp

Samples Received

Date Printed

4 °C

26-May-10

27-May-10

Client's COC # : 32517

Job : NTD

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

| Alpha Sample ID | Client Sample ID | Collection Matrix Date | No. of Bottles Alpha Sub TAT | Requested Tests | | | Sample Remarks |
|-----------------|------------------|------------------------|------------------------------|-----------------|---------|---------|--|
| | | | | TPH/E_W | TPH/P_S | TPH/P_W | |
| E2M10052741-01A | SB010250052610 | SO 05/26/10 13:30 | 1 0 5 | GAS-N | 8260_N | | |
| E2M10052741-02A | SB010850052610 | SO 05/26/10 13:40 | 1 0 5 | GAS-N | 8260_N | | |
| E2M10052741-03A | SB011350052610 | SO 05/26/10 13:50 | 1 0 5 | GAS-N | 8260_N | | |
| E2M10052741-04A | SB020250052610 | SO 05/26/10 15:15 | 1 0 5 | GAS-N | 8260_N | | Sample ID on brass tube is SB0250052610, matched by sampling time. |
| E2M10052741-05A | SB020850052610 | SO 05/26/10 15:50 | 1 0 5 | GAS-N | 8260_N | | |
| E2M10052741-06A | SB021650052610 | SO 05/26/10 16:10 | 1 0 5 | GAS-N | 8260_N | | Sample ID on brass tube is SB021350052610, logged in per COC and matched by sampling time. |
| E2M10052741-07A | SB040150052610 | SO 05/26/10 08:10 | 1 0 5 | GAS-N | 8260_N | | |
| E2M10052741-08A | SB041050052610 | SO 05/26/10 07:45 | 1 0 5 | GAS-N | 8260_N | | |

Comments:

Samples brought in by client. Frozen ice. Samples rec'd 5/26/10, kept cold and secure until login on 5/27/10. Samples rec'd after 4:30 cut-off time, therefore one day added to TAT. Total Cyanide subbed to CLS. H2SO4 split was created from 1 Liter unpreserved amber for sample -16A & -17A for Phenolics to be subbed to Associated Labs.

Logged in by:

[Signature]

Signature

[Signature]

Print Name

Alpha Analytical, Inc.

Company

5/27/10 1:50

Date/Time

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

E2M
9563 S. Kingston Ct.
Englewood, CO 80112

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

NV

WorkOrder : E2M10052741

Report Due By : 5:00 PM On : 04-Jun-10

Client:
HDR | E2M
2365 Iron Point Road
Suite 300
Folsom, CA 95630

Report Attention Phone Number Email Address
Clayton Mokri (916) 852-7792 x 204 clayton.mokri@hdrinc.com

EDD Required : Yes

Sampled by : Jacob Ruffing

PO :
Client's COC # : 32517

Job : NTD

Cooler Temp Samples Received Date Printed
4 °C 26-May-10 27-May-10

QC Level : S3 = Final Rpt. MBLK, LCS, MS/MSD With Surrogates

| Alpha Sample ID | Client Sample ID | Collection Matrix Date | No. of Bottles Alpha Sub TAT | Requested Tests | | | | | | Sample Remarks |
|-----------------|------------------|------------------------|------------------------------|-----------------|--------|--------|--------|-------|--|-------------------------|
| | | | | TPHE_W | TPHP_S | TPHP_W | VOC_S | VOC_W | | |
| E2M10052741-09A | SB0417SO052610 | SO 05/26/10 08:00 | 1 0 5 | | GAS-N | | 8260_N | | | |
| E2M10052741-10A | SB0502SO052610 | SO 05/26/10 11:05 | 1 0 5 | | GAS-N | | 8260_N | | | |
| E2M10052741-11A | SB0510SO052610 | SO 05/26/10 11:30 | 1 0 5 | | GAS-N | | 8260_N | | | |
| E2M10052741-12A | SB0517SO052610 | SO 05/26/10 11:45 | 1 0 5 | | GAS-N | | 8260_N | | | |
| E2M10052741-13A | SB0702SO052610 | SO 05/26/10 08:55 | 1 0 5 | | GAS-N | | 8260_N | | | |
| E2M10052741-14A | SB0710SO052610 | SO 05/26/10 09:15 | 1 0 5 | | GAS-N | | 8260_N | | | |
| E2M10052741-15A | SB0717SO052610 | SO 05/26/10 09:25 | 1 0 5 | | GAS-N | | 8260_N | | | |
| E2M10052741-16A | SB02GW15052610 | AQ 05/26/10 16:30 | 13 2 5 | | TPHE_N | | 8260_N | | | |
| E2M10052741-17A | SB07GW17052610 | AQ 05/26/10 09:40 | 13 2 5 | | TPHE_N | | 8260_N | | | |
| E2M10052741-18A | TB02GWNA052610 | AQ 05/26/10 07:00 | 1 0 5 | | | | 8260_N | | | Reno Trip Blank 5/17/10 |

Comments: Samples brought in by client. Frozen ice. Samples rec'd 5/26/10. kept cold and secure until login on 5/27/10. Samples rec'd after 4:30 cut-off time, therefore one day added to TAT. Total Cyanide subbed to CLS. H2SO4 split was created from 1 Liter unpressured amber for sample -16A & -17A for Phenolics to be subbed to Associated Labs.

Logged in by: *Clayton Mokri* Signature: *Clayton Mokri* Print Name: Clayton Mokri Alpha Analytical, Inc. Company: Alpha Analytical, Inc. Date/Time: 5/27/10

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tecllar B-Brass P-Plastic OT-Other

Billing Information:

Company Name #DR/le²M
 Attn: End
 Address Englewood, CO
 City, State, Zip Englewood, CO
 Phone Number Fax



Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21
 Sparks, Nevada 89431-5778
 Phone (775) 355-1044
 Fax (775) 355-0406

Samples Collected From Which States?
 AZ CA NV X WA
 ID OR OTHER
 Page # 1 of 2

Consultant / Client Name Clayton Maki Job # VT0
 Address Report Attention / Project Manager Clayton Maki
 City, State, Zip Folsom CA Name:
 P.O. # Email:
 Matrix* See Key Below Lab ID Number (Use Only) Mobile:

| Time Sampled | Date Sampled | Matrix* See Key Below | Lab ID Number (Use Only) | Office (Use Only) | Sample Description | TAT | Field Filtered | # Containers** | Analyses Required | Data Validation Level: III or IV | REMARKS |
|--------------|--------------|-----------------------|--------------------------|-------------------|--------------------|-----|----------------|----------------|---|----------------------------------|---------|
| 1330 | 5/26/10 | SO | EZMCC52741 | 01 | SB010250052610 | 5-d | N | | VOC (ext list) TPH-3, TPH-d TPH-mo PCRA8 (600) PH | Level: III or IV | |
| 1346 | | | | | SB010250052610 | | | | | | |
| 1350 | | | | | SB011350052610 | | | | | | |
| 1515 | | | | | SB020250052610 | | | | | | |
| 1550 | | | | | SB020450052610 | | | | | | |
| 1610 | | | | | SB021550052610 | | | | | | |
| 0610 | | | | | SR040150052610 | | | | | | |
| 0745 | | | | | SR041850052610 | | | | | | |
| 0800 | | | | | SR041750052610 | | | | | | |
| 1105 | | | | | SB050250052610 | | | | | | |
| 1130 | | | | | SB051050052610 | | | | | | |
| 1145 | | | | | SB051750052610 | | | | | | |

ADDITIONAL INSTRUCTIONS:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action (NAC 445.0636 (c) (2)). Sampled By:

Relinquished by: (Signature/Affiliation) Received by: (Signature/Affiliation) Date: 5/26/10 Time: 1715

Relinquished by: (Signature/Affiliation) Received by: (Signature/Affiliation) Date: Time:

Relinquished by: (Signature/Affiliation) Received by: (Signature/Affiliation) Date: Time:

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air ** L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.

Billing Information:

Company Name HDR/ERM
 Attn: _____
 Address _____
 City, State, Zip Englewood CO
 Phone Number _____ Fax _____



Alpha Analytical, Inc.
 255 Glendale Avenue, Suite 21
 Sparks, Nevada 89431-5778
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 Fax (775) 355-0406

Samples Collected From Which States?

AZ _____ CA _____ NV WA _____
 ID _____ OR _____ OTHER _____
 Page # 2 of 2

32518

Analyses Required

VOC (ext list)
 TPH-g, TPH-el
 TPH-mo
 RCRA 8 (602)
 PH
 See Attachment table 2

Data Validation Level: III or IV

EDD / EDF? YES _____ NO _____
 Global ID # _____
 REMARKS _____

| Time Sampled | Date Sampled | Matrix* See Key Below | P.O. # | Lab ID Number (Office Use Only) | Job # | Job Name | Name: Clayton Makri | Report Attention / Project Manager | Sample Description | TAT | Field Filled | # Containers** | Analysis | Remarks |
|--------------|--------------|-----------------------|--------|---------------------------------|-------|----------|---------------------|------------------------------------|--------------------|-----|--------------|----------------|----------|---------|
| 0855 | 5/16/10 | SO | | EZM05174-13 | | NTD | | | SR070250052610 | Std | N | | X | |
| 0915 | | I | | FOR-14 | | | | | SR071050052610 | | | | X | |
| 0930 | | AQ | | -15 | | | | | SR071750052610 | | | | X | |
| 0940 | | AQ | | -16 | | | | | SR072915052610 | I | I | | X | |
| 0945 | | AQ | | LAB-17 | | | | | SR07617052610 | I | I | | X | |
| 0955 | 5/16/10 | AQ | | -18 | | | | | TR02617052610 | Std | N | | X | |
| | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | |

ADDITIONAL INSTRUCTIONS:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action (NAC 445.0636 (c) (2)). Sampled By: [Signature]

| | | | |
|--|--------------------------------------|---------------|------------|
| Relinquished by: (Signature/Affiliation) | Received by: (Signature/Affiliation) | Date: 5/26/10 | Time: 1715 |
| Relinquished by: (Signature/Affiliation) | Received by: (Signature/Affiliation) | Date: | Time: |
| Relinquished by: (Signature/Affiliation) | Received by: (Signature/Affiliation) | Date: | Time: |

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air ** L-Liter V-Voa S-Soil Jar O-Orbo T-Testar B-Brass P-Plastic OT-Other
NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.

6 Vials
256 poly

Table 2
Groundwater Sample Analyses for the NTD

| Sample Location | Sample ID | TPH-g, BTEX, VOCs (8260) | TPH-d, TPH-mo (8015) | Metals (6020) | Nitrate, Nitrite, Sulfate, Fluoride (300.0) | Total Nitrogen (calculation) | Ammonia (4500-NH3D) | pH (150.2) and Field Measurement | Total P (265.3) | TDS (2540C) | Phenol (8270) | Phenolic compounds (9065) | Alkalinity (2320B) | Oil & Grease (1664) |
|-----------------|-----------|--------------------------|----------------------|---------------|---|------------------------------|---------------------|----------------------------------|-----------------|-------------|---------------|---------------------------|--------------------|---------------------|
| SB-2 | SB02 GW ? | X | X | X | X | X | X | X | X | X | X | X | X | X |
| SB-3 | SB03 GW ? | X | X | X | X | X | X | X | X | X | X | X | X | X |
| SB-6 | SB06 GW ? | X | X | X | X | X | X | X | X | X | X | X | X | X |
| SB-7 | SB07 GW ? | X | X | X | X | X | X | X | X | X | X | X | X | X |
| SB-10 | SB10 GW ? | X | X | X | X | X | X | X | X | X | X | X | X | X |

Note: fields with "?" need to be replaced with depth determined in the field
Metals = Arsenic, barium, boron, cadmium, chromium (total), copper, cyanide, iron, lead, manganese, mercury, nickel, selenium, sodium, silver, zinc

Table 3
Sediment Sample Analysis for the NTD

| Sample Location | Sample ID | VOCs (8260) | TPH-d, TPH-mo (8015) | RCRA 8 Metals (6020) | Chlorinated pesticides and PCBs (8081/8082) | OP Pesticides (8151) | SVOCs (8270) | Chlorinated herbicides (8151) |
|-----------------|-----------|-------------|----------------------|----------------------|---|----------------------|--------------|-------------------------------|
| SS-1 | SB02-1 SE | X | X | X | X | X | X | X |
| SS-2 | SB03 SE | X | X | X | X | X | X | X |

Table 4
QA/QC Sample Analysis for the NTD

| Sample Location | Sample ID | VOCs (8260) | TPH-d, TPH-mo (8015) | RCRA 8 Metals (6020) |
|-----------------|-----------|-------------|----------------------|----------------------|
| EB | EB01 GW | X | X | X |
| TB | TB01 GW | X | X | X |
| TB | TB02 GW | X | X | X |
| TB | TB03 GW | X | X | X |
| TB | TB04 GW | X | X | X |

2425
1075
507



Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052504-04A
Client I.D. Number: SB03GW17052510

Sampled: 05/25/10
Received: 05/25/10

Method Reference : EPA Method 300.0

| Analyte | Result | Reporting Limit | Qual | Units | Date Extracted | Date Analyzed |
|-------------------|--------|-----------------|------|-------|----------------|----------------|
| Fluoride | ND | 0.25 | | mg/L | 05/26/10 12:49 | 05/26/10 14:58 |
| Chloride | 80 | 50 | | mg/L | 05/26/10 12:49 | 05/26/10 14:58 |
| Nitrite (NO2) - N | ND | 0.25 | | mg/L | 05/26/10 12:49 | 05/26/10 14:58 |
| Nitrate (NO3) - N | ND | 0.25 | | mg/L | 05/26/10 12:49 | 05/26/10 14:58 |
| Sulfate (SO4) | 160 | 75 | | mg/L | 05/26/10 12:49 | 05/26/10 14:58 |

Method Reference : SM4500NORGC / SM4500-NH3D

| Analyte | Result | Reporting Limit | Qual | Units | Date Extracted | Date Analyzed |
|---------------------------|--------|-----------------|------|-------|----------------|---------------|
| Nitrogen, Kjeldahl, Total | 0.99 | 0.25 | | mg/L | 06/01/10 | 06/01/10 |

Method Reference : Total by Calculation

| Analyte | Result | Reporting Limit | Qual | Units | Date Extracted | Date Analyzed |
|---------------------|--------|-----------------|------|-------|----------------|---------------|
| Total Nitrogen as N | 0.99 | 0.25 | | mg/L | 06/01/10 | 06/01/10 |

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

PS
6/2/10

Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052504-05A
Client I.D. Number: SS01SENA052510

Sampled: 05/25/10 09:25
Received: 05/25/10
Extracted: 05/27/10 15:43
Analyzed: 05/28/10

Organochlorine Pesticides EPA Method SW8081A

| | Compound | Concentration | Reporting Limit |
|----|----------------------------|---------------|-----------------|
| 1 | alpha-BHC | ND | 1.7 µg/Kg |
| 2 | gamma-BHC (Lindane) | ND | 1.7 µg/Kg |
| 3 | beta-BHC | ND | 1.7 µg/Kg |
| 4 | delta-BHC | ND | 1.7 µg/Kg |
| 5 | Heptachlor | ND | 1.7 µg/Kg |
| 6 | Aldrin | ND | 1.7 µg/Kg |
| 7 | Heptachlor epoxide | ND | 1.7 µg/Kg |
| 8 | Endosulfan I | ND | 1.7 µg/Kg |
| 9 | 4,4'-DDE | ND | 3.3 µg/Kg |
| 10 | Dieldrin | ND | 3.3 µg/Kg |
| 11 | Endrin | ND | 3.3 µg/Kg |
| 12 | 4,4'-DDD | ND | 3.3 µg/Kg |
| 13 | Endosulfan II | ND | 3.3 µg/Kg |
| 14 | Endrin aldehyde | ND | 3.3 µg/Kg |
| 15 | 4,4'-DDT | ND UJ | 3.3 µg/Kg |
| 16 | Endosulfan sulfate | ND | 3.3 µg/Kg |
| 17 | Methoxychlor | ND UJ | 17 µg/Kg |
| 18 | Endrin ketone | ND | 3.3 µg/Kg |
| 19 | Toxaphene | ND | 170 µg/Kg |
| 20 | Chlordane (Technical) | ND | 33 µg/Kg |
| 21 | Surr: Tetrachloro-m-xylene | 96 | (30-130) %REC |
| 22 | Surr: Decachlorobiphenyl | 100 | (34-142) %REC |

Sample data was verified by second column confirmation.

Sample results were calculated on a wet weight basis.

ND = Not Detected

UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte.

Roger Scholl *Randy Gardner* *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

6/2/10

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052504-06A
Client I.D. Number: SS02SENA052510

Sampled: 05/25/10 10:25
Received: 05/25/10
Extracted: 05/27/10 15:43
Analyzed: 05/28/10

Organochlorine Pesticides EPA Method SW8081A

| | Compound | Concentration | Reporting Limit |
|----|----------------------------|---------------|-----------------|
| 1 | alpha-BHC | ND | 1.7 µg/Kg |
| 2 | gamma-BHC (Lindane) | ND | 1.7 µg/Kg |
| 3 | beta-BHC | ND | 1.7 µg/Kg |
| 4 | delta-BHC | ND | 1.7 µg/Kg |
| 5 | Heptachlor | ND | 1.7 µg/Kg |
| 6 | Aldrin | ND | 1.7 µg/Kg |
| 7 | Heptachlor epoxide | ND | 1.7 µg/Kg |
| 8 | Endosulfan I | ND | 1.7 µg/Kg |
| 9 | 4,4'-DDE | ND | 3.3 µg/Kg |
| 10 | Dieldrin | ND | 3.3 µg/Kg |
| 11 | Endrin | ND | 3.3 µg/Kg |
| 12 | 4,4'-DDD | ND | 3.3 µg/Kg |
| 13 | Endosulfan II | ND | 3.3 µg/Kg |
| 14 | Endrin aldehyde | ND | 3.3 µg/Kg |
| 15 | 4,4'-DDT | ND UJ | 3.3 µg/Kg |
| 16 | Endosulfan sulfate | ND | 3.3 µg/Kg |
| 17 | Methoxychlor | ND UJ | 17 µg/Kg |
| 18 | Endrin ketone | ND | 3.3 µg/Kg |
| 19 | Toxaphene | ND | 170 µg/Kg |
| 20 | Chlordane (Technical) | ND | 33 µg/Kg |
| 21 | Surr: Tetrachloro-m-xylene | 112 | (30-130) %REC |
| 22 | Surr: Decachlorobiphenyl | 115 | (34-142) %REC |

Sample data was verified by second column confirmation.

Sample results were calculated on a wet weight basis.

ND = Not Detected

UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte.

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6/2/10

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 05/25/10

Job: NTD

Polychlorinated Biphenyls (PCBs) EPA Method SW8082

| Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed | |
|----------------------------------|----------------------------|-----------------|----------------|----------------|----------|
| Client ID: SS01SENA052510 | | | | | |
| Lab ID : E2M10052504-05A | Aroclor 1016 | ND | 33 µg/Kg | 05/27/10 15:43 | 05/27/10 |
| Date Sampled 05/25/10 09:25 | Aroclor 1221 | ND | 33 µg/Kg | 05/27/10 15:43 | 05/27/10 |
| | Aroclor 1232 | ND | 33 µg/Kg | 05/27/10 15:43 | 05/27/10 |
| | Aroclor 1242 | ND | 33 µg/Kg | 05/27/10 15:43 | 05/27/10 |
| | Aroclor 1248 | ND | 33 µg/Kg | 05/27/10 15:43 | 05/27/10 |
| | Aroclor 1254 | ND | 33 µg/Kg | 05/27/10 15:43 | 05/27/10 |
| | Aroclor 1260 | ND | 33 µg/Kg | 05/27/10 15:43 | 05/27/10 |
| | Surr: Tetrachloro-m-xylene | 99 | (30-130) %REC | 05/27/10 15:43 | 05/27/10 |
| | Surr: Decachlorobiphenyl | 85 | (34-142) %REC | 05/27/10 15:43 | 05/27/10 |
| Client ID: SS02SENA052510 | | | | | |
| Lab ID : E2M10052504-06A | Aroclor 1016 | ND | 33 µg/Kg | 05/27/10 15:43 | 05/27/10 |
| Date Sampled 05/25/10 10:25 | Aroclor 1221 | ND | 33 µg/Kg | 05/27/10 15:43 | 05/27/10 |
| | Aroclor 1232 | ND | 33 µg/Kg | 05/27/10 15:43 | 05/27/10 |
| | Aroclor 1242 | ND | 33 µg/Kg | 05/27/10 15:43 | 05/27/10 |
| | Aroclor 1248 | ND | 33 µg/Kg | 05/27/10 15:43 | 05/27/10 |
| | Aroclor 1254 | ND | 33 µg/Kg | 05/27/10 15:43 | 05/27/10 |
| | Aroclor 1260 | ND | 33 µg/Kg | 05/27/10 15:43 | 05/27/10 |
| | Surr: Tetrachloro-m-xylene | 69 | (30-130) %REC | 05/27/10 15:43 | 05/27/10 |
| | Surr: Decachlorobiphenyl | 48 | (34-142) %REC | 05/27/10 15:43 | 05/27/10 |

Sample results were calculated on a wet weight basis.
ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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6/2/10
Report Date



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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 05/25/10

Job: NTD

Alkalinity
SM2320B

| Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed |
|---|---------------|-----------------|----------------|---------------|
| Client ID: SB03GW17052510 | | | | |
| Lab ID : E2M10052504-04A Alkalinity, Total (As CaCO ₃ at pH 4.5) | 440 | 10 mg/L | 06/02/10 | 06/02/10 |
| Date Sampled 05/25/10 14:25 | | | | |

Roger Scholl *Randy Gardner* *Walter Hinchman*
 Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
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[Signature]
 6/2/10

Report Date



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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 05/25/10

Job: NTD

Ammonia as Nitrogen SM4500-NH3D

| Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed |
|--|---------------|-----------------|----------------|---------------|
| Client ID: SB03GW17052510 | | | | |
| Lab ID: E2M10052504-04A Nitrogen, Ammonia (As N) | 0.26 | 0.10 mg/L | 05/28/10 | 05/28/10 |
| Date Sampled 05/25/10 14:25 | | | | |

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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[Signature]
6/2/10

Report Date



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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052504-04A
Client I.D. Number: SB03GW17052510

Sampled: 05/25/10 14:25
Received: 05/25/10
Extracted: 05/26/10 11:56
Analyzed: 05/27/10

Semivolatile Organics by GC/MS EPA Method SW8270C

| | Compound | Concentration | Reporting Limit |
|----|----------------------------|---------------|-----------------|
| 1 | Phenol | ND | 10 µg/L |
| 2 | 2-Chlorophenol | ND | 10 µg/L |
| 3 | 2-Nitrophenol | ND | 10 µg/L |
| 4 | 2,4-Dimethylphenol | ND | 10 µg/L |
| 5 | 2,4-Dichlorophenol | ND | 10 µg/L |
| 6 | 4-Chloro-3-methylphenol | ND | 20 µg/L |
| 7 | 2,4,6-Trichlorophenol | ND | 10 µg/L |
| 8 | 2,4-Dinitrophenol | ND | 100 µg/L |
| 9 | 4-Nitrophenol | ND | 50 µg/L |
| 10 | 4,6-Dinitro-2-methylphenol | ND | 100 µg/L |
| 11 | Pentachlorophenol | ND | 50 µg/L |
| 12 | Surr: 2-Fluorophenol | 38 S54 | (41-130) %REC |
| 13 | Surr: Phenol-d5 | 27 | (25-130) %REC |
| 14 | Surr: 2,4,6-Tribromophenol | 67 | (61-138) %REC |

S54 = Surrogate recovery was below laboratory acceptance limits.

ND = Not Detected

Roger Scholl *Randy Gardner* *Walter Hinchman*
 Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
 Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

WJG
6/2/10

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052504-05A
Client I.D. Number: SS01SENA052510

Sampled: 05/25/10 09:25
Received: 05/25/10
Extracted: 05/27/10 11:06
Analyzed: 05/27/10

Semivolatile Organics by GC/MS EPA Method SW8270C

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|--------------------------------|---------------|-----------------|-------------------------------|---------------|-------------------|
| 1 Phenol | ND | 660 µg/Kg | 36 Hexachlorobenzene | ND | 660 µg/Kg |
| 2 2-Chlorophenol | ND | 660 µg/Kg | 37 Pentachlorophenol | ND | 3,300 µg/Kg |
| 3 Bis(2-chloroethyl)ether | ND | 660 µg/Kg | 38 Phenanthrene | ND | 660 µg/Kg |
| 4 1,3-Dichlorobenzene | ND | 1,300 µg/Kg | 39 Anthracene | ND | 660 µg/Kg |
| 5 1,4-Dichlorobenzene | ND | 1,300 µg/Kg | 40 Di-n-butyl phthalate | ND | 3,300 µg/Kg |
| 6 1,2-Dichlorobenzene | ND | 1,300 µg/Kg | 41 Fluoranthene | ND | 660 µg/Kg |
| 7 Bis(2-chloroisopropyl)ether | ND | 660 µg/Kg | 42 Pyrene | ND | 660 µg/Kg |
| 8 N-Nitrosodi-n-propylamine | ND | 660 µg/Kg | 43 Butyl benzyl phthalate | ND | 1,300 µg/Kg |
| 9 Hexachloroethane | ND | 1,300 µg/Kg | 44 Benzo(a)anthracene | ND | 660 µg/Kg |
| 10 Nitrobenzene | ND | 660 µg/Kg | 45 3,3'-Dichlorobenzidine | ND | 1,300 µg/Kg |
| 11 Isophorone | ND | 660 µg/Kg | 46 Chrysene | ND | 660 µg/Kg |
| 12 2-Nitrophenol | ND | 660 µg/Kg | 47 Bis(2-ethylhexyl)phthalate | ND | 3,300 µg/Kg |
| 13 2,4-Dimethylphenol | ND | 660 µg/Kg | 48 Di-n-octyl phthalate | ND | 3,300 µg/Kg |
| 14 Bis(2-chloroethoxy)methane | ND | 660 µg/Kg | 49 Benzo(b)fluoranthene | ND | 660 µg/Kg |
| 15 2,4-Dichlorophenol | ND | 660 µg/Kg | 50 Benzo(k)fluoranthene | ND | 660 µg/Kg |
| 16 1,2,4-Trichlorobenzene | ND | 660 µg/Kg | 51 Benzo(a)pyrene | ND | 660 µg/Kg |
| 17 Naphthalene | ND | 660 µg/Kg | 52 Indeno(1,2,3-cd)pyrene | ND | 660 µg/Kg |
| 18 Hexachlorobutadiene | ND | 1,300 µg/Kg | 53 Dibenz(a,h)anthracene | ND | 660 µg/Kg |
| 19 4-Chloro-3-methylphenol | ND | 1,300 µg/Kg | 54 Benzo(g,h,i)perylene | ND | 660 µg/Kg |
| 20 Hexachlorocyclopentadiene | ND | 6,600 µg/Kg | 55 Surr: 2-Fluorophenol | 20 | S54 (67-131) %REC |
| 21 2,4,6-Trichlorophenol | ND | 660 µg/Kg | 56 Surr: Phenol-d5 | 41 | S54 (60-133) %REC |
| 22 2-Chloronaphthalene | ND | 660 µg/Kg | 57 Surr: Nitrobenzene-d5 | 40 | S54 (54-135) %REC |
| 23 Dimethyl phthalate | ND | 660 µg/Kg | 58 Surr: 2-Fluorobiphenyl | 48 | S54 (70-130) %REC |
| 24 Acenaphthylene | ND | 660 µg/Kg | 59 Surr: 2,4,6-Tribromophenol | 49 | (44-151) %REC |
| 25 2,6-Dinitrotoluene | ND | 660 µg/Kg | 60 Surr: 4-Terphenyl-d14 | 48 | S54 (59-139) %REC |
| 26 Acenaphthene | ND | 660 µg/Kg | | | |
| 27 2,4-Dinitrophenol | ND | 6,600 µg/Kg | | | |
| 28 4-Nitrophenol | ND | 3,300 µg/Kg | | | |
| 29 2,4-Dinitrotoluene | ND | 660 µg/Kg | | | |
| 30 Diethyl phthalate | ND | 660 µg/Kg | | | |
| 31 Fluorene | ND | 660 µg/Kg | | | |
| 32 4-Chlorophenyl phenyl ether | ND | 660 µg/Kg | | | |
| 33 4,6-Dinitro-2-methylphenol | ND | 6,600 µg/Kg | | | |
| 34 N-Nitrosodiphenylamine | ND | 660 µg/Kg | | | |
| 35 4-Bromophenyl phenyl ether | ND | 660 µg/Kg | | | |

S54 = Surrogate recovery was below laboratory acceptance limits.

Sample results were calculated on a wet weight basis.

ND = Not Detected

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JJG

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Report Date



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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052504-06A
Client I.D. Number: SS02SENA052510

Sampled: 05/25/10 10:25
Received: 05/25/10
Extracted: 05/27/10 11:06
Analyzed: 05/27/10

Semivolatile Organics by GC/MS EPA Method SW8270C

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|--------------------------------|---------------|-----------------|-------------------------------|---------------|-------------------|
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| 3 Bis(2-chloroethyl)ether | ND | 660 µg/Kg | 38 Phenanthrene | ND | 660 µg/Kg |
| 4 1,3-Dichlorobenzene | ND | 1,300 µg/Kg | 39 Anthracene | ND | 660 µg/Kg |
| 5 1,4-Dichlorobenzene | ND | 1,300 µg/Kg | 40 Di-n-butyl phthalate | ND | 3,300 µg/Kg |
| 6 1,2-Dichlorobenzene | ND | 1,300 µg/Kg | 41 Fluoranthene | ND | 660 µg/Kg |
| 7 Bis(2-chloroisopropyl)ether | ND | 660 µg/Kg | 42 Pyrene | ND | 660 µg/Kg |
| 8 N-Nitrosodi-n-propylamine | ND | 660 µg/Kg | 43 Butyl benzyl phthalate | ND | 1,300 µg/Kg |
| 9 Hexachloroethane | ND | 1,300 µg/Kg | 44 Benzo(a)anthracene | ND | 660 µg/Kg |
| 10 Nitrobenzene | ND | 660 µg/Kg | 45 3,3'-Dichlorobenzidine | ND | 1,300 µg/Kg |
| 11 Isophorone | ND | 660 µg/Kg | 46 Chrysene | ND | 660 µg/Kg |
| 12 2-Nitrophenol | ND | 660 µg/Kg | 47 Bis(2-ethylhexyl)phthalate | ND | 3,300 µg/Kg |
| 13 2,4-Dimethylphenol | ND | 660 µg/Kg | 48 Di-n-octyl phthalate | ND | 3,300 µg/Kg |
| 14 Bis(2-chloroethoxy)methane | ND | 660 µg/Kg | 49 Benzo(b)fluoranthene | ND | 660 µg/Kg |
| 15 2,4-Dichlorophenol | ND | 660 µg/Kg | 50 Benzo(k)fluoranthene | ND | 660 µg/Kg |
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| 19 4-Chloro-3-methylphenol | ND | 1,300 µg/Kg | 54 Benzo(g,h,i)perylene | ND | 660 µg/Kg |
| 20 Hexachlorocyclopentadiene | ND | 6,600 µg/Kg | 55 Surr: 2-Fluorophenol | 64 | S54 (67-131) %REC |
| 21 2,4,6-Trichlorophenol | ND | 660 µg/Kg | 56 Surr: Phenol-d5 | 66 | (60-133) %REC |
| 22 2-Chloronaphthalene | ND | 660 µg/Kg | 57 Surr: Nitrobenzene-d5 | 69 | (54-135) %REC |
| 23 Dimethyl phthalate | ND | 660 µg/Kg | 58 Surr: 2-Fluorobiphenyl | 69 | S54 (70-130) %REC |
| 24 Acenaphthylene | ND | 660 µg/Kg | 59 Surr: 2,4,6-Tribromophenol | 57 | (44-151) %REC |
| 25 2,6-Dinitrotoluene | ND | 660 µg/Kg | 60 Surr: 4-Terphenyl-d14 | 65 | (59-139) %REC |
| 26 Acenaphthene | ND | 660 µg/Kg | | | |
| 27 2,4-Dinitrophenol | ND | 6,600 µg/Kg | | | |
| 28 4-Nitrophenol | ND | 3,300 µg/Kg | | | |
| 29 2,4-Dinitrotoluene | ND | 660 µg/Kg | | | |
| 30 Diethyl phthalate | ND | 660 µg/Kg | | | |
| 31 Fluorene | ND | 660 µg/Kg | | | |
| 32 4-Chlorophenyl phenyl ether | ND | 660 µg/Kg | | | |
| 33 4,6-Dinitro-2-methylphenol | ND | 6,600 µg/Kg | | | |
| 34 N-Nitrosodiphenylamine | ND | 660 µg/Kg | | | |
| 35 4-Bromophenyl phenyl ether | ND | 660 µg/Kg | | | |

S54 = Surrogate recovery was below laboratory acceptance limits.

Sample results were calculated on a wet weight basis.

ND = Not Detected

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[Signature]

6/2/10

Report Date



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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 05/25/10

Job: NTD

Metals by ICPMS
EPA Method SW6020 / SW6020A

| Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed | |
|----------------------------------|----------------|-----------------|----------------|----------------|----------|
| Client ID: SB0302SO052510 | | | | | |
| Lab ID : E2M10052504-01A | Chromium (Cr) | 19 | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| Date Sampled 05/25/10 13:30 | Arsenic (As) | 12 | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| | Selenium (Se) | ND | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| | Silver (Ag) | ND | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| | Cadmium (Cd) | ND | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| | Barium (Ba) | 270 | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| | Mercury (Hg) | ND | 0.20 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| | Lead (Pb) | 9.0 | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| Client ID: SB0313SO052510 | | | | | |
| Lab ID : E2M10052504-02A | Chromium (Cr) | 18 | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| Date Sampled 05/25/10 13:55 | Arsenic (As) | 5.4 | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| | Selenium (Se) | ND | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| | Silver (Ag) | ND | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| | Cadmium (Cd) | ND | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| | Barium (Ba) | 190 | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| | Mercury (Hg) | ND | 0.20 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| | Lead (Pb) | 13 | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| Client ID: SB0317SO052510 | | | | | |
| Lab ID : E2M10052504-03A | Chromium (Cr) | 21 | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| Date Sampled 05/25/10 14:15 | Arsenic (As) | 7.3 | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| | Selenium (Se) | ND | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| | Silver (Ag) | ND | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| | Cadmium (Cd) | ND | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| | Barium (Ba) | 52 | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| | Mercury (Hg) | ND | 0.20 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| | Lead (Pb) | 4.5 | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| Client ID: SB03GW17052510 | | | | | |
| Lab ID : E2M10052504-04A | Boron (B) | 0.82 | 0.10 mg/L | 05/26/10 10:15 | 05/26/10 |
| Date Sampled 05/25/10 14:25 | Sodium (Na) | 210 | 0.50 mg/L | 05/26/10 10:15 | 05/26/10 |
| | Chromium (Cr) | 0.17 | 0.0050 mg/L | 05/26/10 10:15 | 05/26/10 |
| | Manganese (Mn) | 2.8 | 0.0050 mg/L | 05/26/10 10:15 | 05/26/10 |
| | Iron (Fe) | 140 | 0.30 mg/L | 05/26/10 10:15 | 05/26/10 |
| | Nickel (Ni) | 0.082 | 0.010 mg/L | 05/26/10 10:15 | 05/26/10 |
| | Copper (Cu) | 0.22 | 0.010 mg/L | 05/26/10 10:15 | 05/26/10 |
| | Zinc (Zn) | 0.44 | 0.10 mg/L | 05/26/10 10:15 | 05/26/10 |
| | Arsenic (As) | 0.11 | 0.0050 mg/L | 05/26/10 10:15 | 05/26/10 |
| | Selenium (Se) | ND | 0.0050 mg/L | 05/26/10 10:15 | 05/26/10 |
| | Silver (Ag) | ND | 0.0050 mg/L | 05/26/10 10:15 | 05/26/10 |
| | Cadmium (Cd) | ND | 0.0050 mg/L | 05/26/10 10:15 | 05/26/10 |
| | Barium (Ba) | 1.0 | 0.0050 mg/L | 05/26/10 10:15 | 05/26/10 |
| | Mercury (Hg) | ND | 0.0010 mg/L | 05/26/10 10:15 | 05/26/10 |
| | Lead (Pb) | 0.10 | 0.0050 mg/L | 05/26/10 10:15 | 05/26/10 |



Alpha Analytical, Inc.

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Client ID: **SS01SENA052510**

| | | | | | |
|-----------------------------|---------------|-----|------------|----------------|----------|
| Lab ID : E2M10052504-05A | Chromium (Cr) | 12 | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| Date Sampled 05/25/10 09:25 | Arsenic (As) | 5.2 | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| | Selenium (Se) | ND | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| | Silver (Ag) | ND | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| | Cadmium (Cd) | ND | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| | Barium (Ba) | 63 | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| | Mercury (Hg) | ND | 0.20 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| | Lead (Pb) | 5.0 | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |

Client ID: **SS02SENA052510**

| | | | | | |
|-----------------------------|---------------|-----|------------|----------------|----------|
| Lab ID : E2M10052504-06A | Chromium (Cr) | 16 | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| Date Sampled 05/25/10 10:25 | Arsenic (As) | 8.0 | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| | Selenium (Se) | ND | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| | Silver (Ag) | ND | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| | Cadmium (Cd) | ND | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| | Barium (Ba) | 160 | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| | Mercury (Hg) | ND | 0.20 mg/Kg | 05/26/10 12:03 | 05/26/10 |
| | Lead (Pb) | 8.7 | 1.0 mg/Kg | 05/26/10 12:03 | 05/26/10 |

Sample results were calculated on a wet weight basis.
ND = Not Detected

Roger Scholl *Randy Gardner* *Walter Hinchman*

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ANALYTICAL REPORT

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2365 Iron Point Road
Folsom, CA 95630

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 05/25/10

Job: NTD

Oil and Grease, HEM
EPA Method 1664A

| Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed |
|--|---------------|-----------------|----------------|---------------|
| Client ID: SB03GW17052510 | | | | |
| Lab ID : E2M10052504-04A Oil & Grease, HEM | ND | 5.0 mg/L | 06/02/10 | 06/02/10 |
| Date Sampled 05/25/10 14:25 | | | | |

HEM = Hexane Extractable Material

ND = Not Detected

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Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 05/25/10

Job: NTD

pH (Soil)
EPA Method SW9045D

| Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed |
|--|---------------|-----------------|----------------|----------------|
| Client ID: SB0313SO052510 | | | | |
| Lab ID : E2M10052504-02A pH | 8.4 | 1.7 pH Units | 06/01/10 15:44 | 06/01/10 15:44 |
| Date Sampled 05/25/10 13:55 pH - Temperature | 20 | 1.0 °C | 06/01/10 15:44 | 06/01/10 15:44 |

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Folsom, CA 95630

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 05/25/10

Job: NTD

pH (Range 1.7 to 12.4)
EPA Method 150.2 / SM4500HB / SW9040C

| Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed |
|--|---------------|-----------------|----------------|----------------|
| Client ID: SB03GW17052510 | | | | |
| Lab ID: E2M10052504-04A pH | 7.7 | 1.7 pH Units | 05/26/10 11:06 | 05/26/10 11:06 |
| Date Sampled 05/25/10 14:25 pH - Temperature | 18 | 1.0 °C | 05/26/10 11:06 | 05/26/10 11:06 |

The EPA has established an analytical holding time of 15 minutes for this method as documented in the Methods Update Rule, Federal Register, Vol 72, No 47, March 2007. This holding time will always be exceeded, unless samples are analyzed in the field.

The laboratory performed this analysis in the shortest practical holding time after sample receipt.

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 05/25/10

Job: NTD

Phosphorus
EPA Method 365.3 / SM4500PE

| Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed |
|---|---------------|-----------------|----------------|---------------|
| Client ID: SB03GW17052510 | | | | |
| Lab ID : E2M10052504-04A Phosphorus, Total (As P) | 1.2 | 0.10 mg/L | 06/02/10 | 06/02/10 |
| Date Sampled 05/25/10 14:25 | | | | |

Roger Scholl *Randy Gardner* *Walter Hinchman*

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6/2/10

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 05/25/10

Job: NTD

Total Dissolved Solids (TDS)
SM2540C


| Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed |
|---|---------------|-----------------|----------------|---------------|
| Client ID: SB03GW17052510 | | | | |
| Lab ID: E2M10052504-04A Solids, Total Dissolved (TDS) | 830 | 10 mg/L | 05/26/10 | 05/26/10 |
| Date Sampled 05/25/10 14:25 | | | | |

Roger Scholl *Randy Gardner* *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.


6/2/10

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Job: NTD

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B

Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B

| | Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed | |
|--------------|-----------------------|-----------------------------|-----------------|----------------|----------------|----------|
| Client ID : | SB0302SO052510 | | | | | |
| Lab ID : | E2M10052504-01A | TPH-E (DRO) | ND | 10 mg/Kg | 05/28/10 15:05 | 05/30/10 |
| Date Sampled | 05/25/10 13:30 | TPH-E (ORO) | 31 | 10 mg/Kg | 05/28/10 15:05 | 05/30/10 |
| | | Surr: Nonane | 120 | (67-156) %REC | 05/28/10 15:05 | 05/30/10 |
| | | TPH-P (GRO) | ND | 10 mg/Kg | 05/28/10 | 05/28/10 |
| | | Surr: 1,2-Dichloroethane-d4 | 93 | (70-130) %REC | 05/28/10 | 05/28/10 |
| | | Surr: Toluene-d8 | 106 | (70-130) %REC | 05/28/10 | 05/28/10 |
| | | Surr: 4-Bromofluorobenzene | 101 | (70-130) %REC | 05/28/10 | 05/28/10 |
| Client ID : | SB0313SO052510 | | | | | |
| Lab ID : | E2M10052504-02A | TPH-E (DRO) | ND | 10 mg/Kg | 05/28/10 15:05 | 05/30/10 |
| Date Sampled | 05/25/10 13:55 | TPH-E (ORO) | 15 | 10 mg/Kg | 05/28/10 15:05 | 05/30/10 |
| | | Surr: Nonane | 112 | (67-156) %REC | 05/28/10 15:05 | 05/30/10 |
| | | TPH-P (GRO) | ND | 10 mg/Kg | 05/28/10 | 05/28/10 |
| | | Surr: 1,2-Dichloroethane-d4 | 91 | (70-130) %REC | 05/28/10 | 05/28/10 |
| | | Surr: Toluene-d8 | 108 | (70-130) %REC | 05/28/10 | 05/28/10 |
| | | Surr: 4-Bromofluorobenzene | 100 | (70-130) %REC | 05/28/10 | 05/28/10 |
| Client ID : | SB0317SO052510 | | | | | |
| Lab ID : | E2M10052504-03A | TPH-E (DRO) | ND | 10 mg/Kg | 05/28/10 15:05 | 05/31/10 |
| Date Sampled | 05/25/10 14:15 | TPH-E (ORO) | 20 | 10 mg/Kg | 05/28/10 15:05 | 05/31/10 |
| | | Surr: Nonane | 117 | (67-156) %REC | 05/28/10 15:05 | 05/31/10 |
| | | TPH-P (GRO) | ND | 10 mg/Kg | 05/28/10 | 05/28/10 |
| | | Surr: 1,2-Dichloroethane-d4 | 92 | (70-130) %REC | 05/28/10 | 05/28/10 |
| | | Surr: Toluene-d8 | 108 | (70-130) %REC | 05/28/10 | 05/28/10 |
| | | Surr: 4-Bromofluorobenzene | 100 | (70-130) %REC | 05/28/10 | 05/28/10 |
| Client ID : | SB03GW17052510 | | | | | |
| Lab ID : | E2M10052504-04A | TPH-E (DRO) | ND | 0.50 mg/L | 05/26/10 12:20 | 05/26/10 |
| Date Sampled | 05/25/10 14:25 | TPH-E (ORO) | ND | 0.50 mg/L | 05/26/10 12:20 | 05/26/10 |
| | | Surr: Nonane | 83 | (57-147) %REC | 05/26/10 12:20 | 05/26/10 |
| | | TPH-P (GRO) | ND | 0.50 mg/L | 05/28/10 | 05/28/10 |
| | | Surr: 1,2-Dichloroethane-d4 | 124 | (70-130) %REC | 05/28/10 | 05/28/10 |
| | | Surr: Toluene-d8 | 92 | (70-130) %REC | 05/28/10 | 05/28/10 |
| | | Surr: 4-Bromofluorobenzene | 110 | (70-130) %REC | 05/28/10 | 05/28/10 |
| Client ID : | SS01SENA052510 | | | | | |
| Lab ID : | E2M10052504-05A | TPH-E (DRO) | 22 | 10 mg/Kg | 05/28/10 15:05 | 05/31/10 |
| Date Sampled | 05/25/10 09:25 | TPH-E (ORO) | 170 | 10 mg/Kg | 05/28/10 15:05 | 05/31/10 |
| | | Surr: Nonane | 123 | (67-156) %REC | 05/28/10 15:05 | 05/31/10 |
| Client ID : | SS02SENA052510 | | | | | |
| Lab ID : | E2M10052504-06A | TPH-E (DRO) | ND | 10 mg/Kg | 05/28/10 15:05 | 05/30/10 |
| Date Sampled | 05/25/10 10:25 | TPH-E (ORO) | 17 | 10 mg/Kg | 05/28/10 15:05 | 05/30/10 |
| | | Surr: Nonane | 115 | (67-156) %REC | 05/28/10 15:05 | 05/30/10 |



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Diesel Range Organics (DRO) C13-C22

Gasoline Range Organics (GRO) C4-C13

L = DRO concentration may include contributions from heavier-end hydrocarbons that elute in the DRO range.

Oil Range Organics (ORO) C22-C40+

Sample results were calculated on a wet weight basis.

ND = Not Detected

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Randy Gardner

Walter Hinchman

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WJG

6/2/10

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HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

ANALYTICAL REPORT

Alpha Analytical Number: E2M10052504-01A
Client I.D. Number: SB0302SO052510

Sampled: 05/25/10 13:30
Received: 05/25/10
Extracted: 05/28/10
Analyzed: 05/28/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 20 µg/Kg | 36 Bromoform | ND | 20 µg/Kg |
| 2 Chloromethane | ND | 80 µg/Kg | 37 Styrene | ND | 20 µg/Kg |
| 3 Vinyl chloride | ND | 20 µg/Kg | 38 o-Xylene | ND | 20 µg/Kg |
| 4 Chloroethane | ND | 20 µg/Kg | 39 1,1,2,2-Tetrachloroethane | ND | 20 µg/Kg |
| 5 Bromomethane | ND | 80 µg/Kg | 40 1,2,3-Trichloropropane | ND | 80 µg/Kg |
| 6 Trichlorofluoromethane | ND | 20 µg/Kg | 41 Isopropylbenzene | ND | 20 µg/Kg |
| 7 1,1-Dichloroethene | ND | 20 µg/Kg | 42 Bromobenzene | ND | 20 µg/Kg |
| 8 Dichloromethane | ND | 80 µg/Kg | 43 n-Propylbenzene | ND | 20 µg/Kg |
| 9 trans-1,2-Dichloroethene | ND | 20 µg/Kg | 44 4-Chlorotoluene | ND | 20 µg/Kg |
| 10 1,1-Dichloroethane | ND | 20 µg/Kg | 45 2-Chlorotoluene | ND | 20 µg/Kg |
| 11 cis-1,2-Dichloroethene | ND | 20 µg/Kg | 46 1,3,5-Trimethylbenzene | ND | 20 µg/Kg |
| 12 Bromochloromethane | ND | 20 µg/Kg | 47 tert-Butylbenzene | ND | 20 µg/Kg |
| 13 Chloroform | ND | 20 µg/Kg | 48 1,2,4-Trimethylbenzene | ND | 20 µg/Kg |
| 14 2,2-Dichloropropane | ND | 20 µg/Kg | 49 sec-Butylbenzene | ND | 20 µg/Kg |
| 15 1,2-Dichloroethane | ND | 20 µg/Kg | 50 1,3-Dichlorobenzene | ND | 20 µg/Kg |
| 16 1,1,1-Trichloroethane | ND | 20 µg/Kg | 51 1,4-Dichlorobenzene | ND | 20 µg/Kg |
| 17 1,1-Dichloropropene | ND | 20 µg/Kg | 52 4-Isopropyltoluene | ND | 20 µg/Kg |
| 18 Carbon tetrachloride | ND | 20 µg/Kg | 53 1,2-Dichlorobenzene | ND | 20 µg/Kg |
| 19 Benzene | ND | 20 µg/Kg | 54 n-Butylbenzene | ND | 20 µg/Kg |
| 20 Dibromomethane | ND | 20 µg/Kg | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 120 µg/Kg |
| 21 1,2-Dichloropropane | ND | 20 µg/Kg | 56 1,2,4-Trichlorobenzene | ND | 80 µg/Kg |
| 22 Trichloroethene | ND | 20 µg/Kg | 57 Naphthalene | ND | 80 µg/Kg |
| 23 Bromodichloromethane | ND | 20 µg/Kg | 58 Hexachlorobutadiene | ND | 80 µg/Kg |
| 24 cis-1,3-Dichloropropene | ND | 20 µg/Kg | 59 1,2,3-Trichlorobenzene | ND | 80 µg/Kg |
| 25 trans-1,3-Dichloropropene | ND | 20 µg/Kg | 60 Surr: 1,2-Dichloroethane-d4 | 93 | (70-130) %REC |
| 26 1,1,2-Trichloroethane | ND | 20 µg/Kg | 61 Surr: Toluene-d8 | 106 | (70-130) %REC |
| 27 Toluene | ND | 20 µg/Kg | 62 Surr: 4-Bromofluorobenzene | 101 | (70-130) %REC |
| 28 1,3-Dichloropropane | ND | 20 µg/Kg | | | |
| 29 Dibromochloromethane | ND | 20 µg/Kg | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 80 µg/Kg | | | |
| 31 Tetrachloroethene | ND | 20 µg/Kg | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 20 µg/Kg | | | |
| 33 Chlorobenzene | ND | 20 µg/Kg | | | |
| 34 Ethylbenzene | ND | 20 µg/Kg | | | |
| 35 m,p-Xylene | ND | 20 µg/Kg | | | |

Sample results were calculated on a wet weight basis.
ND = Not Detected

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ANALYTICAL REPORT

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2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052504-02A
Client I.D. Number: SB0313SO052510

Sampled: 05/25/10 13:55
Received: 05/25/10
Extracted: 05/28/10
Analyzed: 05/28/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 20 µg/Kg | 36 Bromoform | ND | 20 µg/Kg |
| 2 Chloromethane | ND | 80 µg/Kg | 37 Styrene | ND | 20 µg/Kg |
| 3 Vinyl chloride | ND | 20 µg/Kg | 38 o-Xylene | ND | 20 µg/Kg |
| 4 Chloroethane | ND | 20 µg/Kg | 39 1,1,2,2-Tetrachloroethane | ND | 20 µg/Kg |
| 5 Bromomethane | ND | 80 µg/Kg | 40 1,2,3-Trichloropropane | ND | 80 µg/Kg |
| 6 Trichlorofluoromethane | ND | 20 µg/Kg | 41 Isopropylbenzene | ND | 20 µg/Kg |
| 7 1,1-Dichloroethene | ND | 20 µg/Kg | 42 Bromobenzene | ND | 20 µg/Kg |
| 8 Dichloromethane | ND | 80 µg/Kg | 43 n-Propylbenzene | ND | 20 µg/Kg |
| 9 trans-1,2-Dichloroethene | ND | 20 µg/Kg | 44 4-Chlorotoluene | ND | 20 µg/Kg |
| 10 1,1-Dichloroethane | ND | 20 µg/Kg | 45 2-Chlorotoluene | ND | 20 µg/Kg |
| 11 cis-1,2-Dichloroethene | ND | 20 µg/Kg | 46 1,3,5-Trimethylbenzene | ND | 20 µg/Kg |
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| 14 2,2-Dichloropropane | ND | 20 µg/Kg | 49 sec-Butylbenzene | ND | 20 µg/Kg |
| 15 1,2-Dichloroethane | ND | 20 µg/Kg | 50 1,3-Dichlorobenzene | ND | 20 µg/Kg |
| 16 1,1,1-Trichloroethane | ND | 20 µg/Kg | 51 1,4-Dichlorobenzene | ND | 20 µg/Kg |
| 17 1,1-Dichloropropene | ND | 20 µg/Kg | 52 4-Isopropyltoluene | ND | 20 µg/Kg |
| 18 Carbon tetrachloride | ND | 20 µg/Kg | 53 1,2-Dichlorobenzene | ND | 20 µg/Kg |
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| 20 Dibromomethane | ND | 20 µg/Kg | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 120 µg/Kg |
| 21 1,2-Dichloropropane | ND | 20 µg/Kg | 56 1,2,4-Trichlorobenzene | ND | 80 µg/Kg |
| 22 Trichloroethene | ND | 20 µg/Kg | 57 Naphthalene | ND | 80 µg/Kg |
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| 26 1,1,2-Trichloroethane | ND | 20 µg/Kg | 61 Surr: Toluene-d8 | 108 | (70-130) %REC |
| 27 Toluene | ND | 20 µg/Kg | 62 Surr: 4-Bromofluorobenzene | 100 | (70-130) %REC |
| 28 1,3-Dichloropropane | ND | 20 µg/Kg | | | |
| 29 Dibromochloromethane | ND | 20 µg/Kg | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 80 µg/Kg | | | |
| 31 Tetrachloroethene | ND | 20 µg/Kg | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 20 µg/Kg | | | |
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| 34 Ethylbenzene | ND | 20 µg/Kg | | | |
| 35 m,p-Xylene | ND | 20 µg/Kg | | | |

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ND = Not Detected

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[Signature]
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Received: 05/25/10
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Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 20 µg/Kg | 36 Bromoform | ND | 20 µg/Kg |
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| 6 Trichlorofluoromethane | ND | 20 µg/Kg | 41 Isopropylbenzene | ND | 20 µg/Kg |
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Job: NTD

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Alpha Analytical Number: E2M10052504-04A
Client I.D. Number: SB03GW17052510

Sampled: 05/25/10 14:25
Received: 05/25/10
Extracted: 05/28/10
Analyzed: 05/28/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
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| 3 Vinyl chloride | ND | 1.0 µg/L | 38 o-Xylene | ND | 1.0 µg/L |
| 4 Chloroethane | ND | 1.0 µg/L | 39 1,1,2,2-Tetrachloroethane | ND | 1.0 µg/L |
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| 11 cis-1,2-Dichloroethene | ND | 1.0 µg/L | 46 1,3,5-Trimethylbenzene | ND | 1.0 µg/L |
| 12 Bromochloromethane | ND | 1.0 µg/L | 47 tert-Butylbenzene | ND | 1.0 µg/L |
| 13 Chloroform | ND | 1.0 µg/L | 48 1,2,4-Trimethylbenzene | ND | 1.0 µg/L |
| 14 2,2-Dichloropropane | ND | 1.0 µg/L | 49 sec-Butylbenzene | ND | 1.0 µg/L |
| 15 1,2-Dichloroethane | ND | 1.0 µg/L | 50 1,3-Dichlorobenzene | ND | 1.0 µg/L |
| 16 1,1,1-Trichloroethane | ND | 1.0 µg/L | 51 1,4-Dichlorobenzene | ND | 1.0 µg/L |
| 17 1,1-Dichloropropene | ND | 1.0 µg/L | 52 4-Isopropyltoluene | ND | 1.0 µg/L |
| 18 Carbon tetrachloride | ND | 1.0 µg/L | 53 1,2-Dichlorobenzene | ND | 1.0 µg/L |
| 19 Benzene | ND | 1.0 µg/L | 54 n-Butylbenzene | ND | 1.0 µg/L |
| 20 Dibromomethane | ND | 1.0 µg/L | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 6.0 µg/L |
| 21 1,2-Dichloropropane | ND | 1.0 µg/L | 56 1,2,4-Trichlorobenzene | ND | 4.0 µg/L |
| 22 Trichloroethene | ND | 1.0 µg/L | 57 Naphthalene | ND | 4.0 µg/L |
| 23 Bromodichloromethane | ND | 1.0 µg/L | 58 Hexachlorobutadiene | ND | 4.0 µg/L |
| 24 cis-1,3-Dichloropropene | ND | 1.0 µg/L | 59 1,2,3-Trichlorobenzene | ND | 4.0 µg/L |
| 25 trans-1,3-Dichloropropene | ND | 1.0 µg/L | 60 Surr: 1,2-Dichloroethane-d4 | 124 | (70-130) %REC |
| 26 1,1,2-Trichloroethane | ND | 1.0 µg/L | 61 Surr: Toluene-d8 | 92 | (70-130) %REC |
| 27 Toluene | ND | 1.0 µg/L | 62 Surr: 4-Bromofluorobenzene | 110 | (70-130) %REC |
| 28 1,3-Dichloropropane | ND | 1.0 µg/L | | | |
| 29 Dibromochloromethane | ND | 1.0 µg/L | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 2.0 µg/L | | | |
| 31 Tetrachloroethene | ND | 1.0 µg/L | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 1.0 µg/L | | | |
| 33 Chlorobenzene | ND | 1.0 µg/L | | | |
| 34 Ethylbenzene | ND | 1.0 µg/L | | | |
| 35 m,p-Xylene | ND | 1.0 µg/L | | | |

Some Reporting Limits were increased due to sample foaming.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

6/2/10

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052504-05A
Client I.D. Number: SS01SENA052510

Sampled: 05/25/10 09:25
Received: 05/25/10
Extracted: 05/28/10
Analyzed: 05/28/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 20 µg/Kg | 36 Bromoform | ND | 20 µg/Kg |
| 2 Chloromethane | ND | 80 µg/Kg | 37 Styrene | ND | 20 µg/Kg |
| 3 Vinyl chloride | ND | 20 µg/Kg | 38 o-Xylene | ND | 20 µg/Kg |
| 4 Chloroethane | ND | 20 µg/Kg | 39 1,1,2,2-Tetrachloroethane | ND | 20 µg/Kg |
| 5 Bromomethane | ND | 80 µg/Kg | 40 1,2,3-Trichloropropane | ND | 80 µg/Kg |
| 6 Trichlorofluoromethane | ND | 20 µg/Kg | 41 Isopropylbenzene | ND | 20 µg/Kg |
| 7 1,1-Dichloroethene | ND | 20 µg/Kg | 42 Bromobenzene | ND | 20 µg/Kg |
| 8 Dichloromethane | ND | 80 µg/Kg | 43 n-Propylbenzene | ND | 20 µg/Kg |
| 9 trans-1,2-Dichloroethene | ND | 20 µg/Kg | 44 4-Chlorotoluene | ND | 20 µg/Kg |
| 10 1,1-Dichloroethane | ND | 20 µg/Kg | 45 2-Chlorotoluene | ND | 20 µg/Kg |
| 11 cis-1,2-Dichloroethene | ND | 20 µg/Kg | 46 1,3,5-Trimethylbenzene | ND | 20 µg/Kg |
| 12 Bromochloromethane | ND | 20 µg/Kg | 47 tert-Butylbenzene | ND | 20 µg/Kg |
| 13 Chloroform | ND | 20 µg/Kg | 48 1,2,4-Trimethylbenzene | ND | 20 µg/Kg |
| 14 2,2-Dichloropropane | ND | 20 µg/Kg | 49 sec-Butylbenzene | ND | 20 µg/Kg |
| 15 1,2-Dichloroethane | ND | 20 µg/Kg | 50 1,3-Dichlorobenzene | ND | 20 µg/Kg |
| 16 1,1,1-Trichloroethane | ND | 20 µg/Kg | 51 1,4-Dichlorobenzene | ND | 20 µg/Kg |
| 17 1,1-Dichloropropene | ND | 20 µg/Kg | 52 4-Isopropyltoluene | ND | 20 µg/Kg |
| 18 Carbon tetrachloride | ND | 20 µg/Kg | 53 1,2-Dichlorobenzene | ND | 20 µg/Kg |
| 19 Benzene | ND | 20 µg/Kg | 54 n-Butylbenzene | ND | 20 µg/Kg |
| 20 Dibromomethane | ND | 20 µg/Kg | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 120 µg/Kg |
| 21 1,2-Dichloropropane | ND | 20 µg/Kg | 56 1,2,4-Trichlorobenzene | ND | 80 µg/Kg |
| 22 Trichloroethene | ND | 20 µg/Kg | 57 Naphthalene | ND | 80 µg/Kg |
| 23 Bromodichloromethane | ND | 20 µg/Kg | 58 Hexachlorobutadiene | ND | 80 µg/Kg |
| 24 cis-1,3-Dichloropropene | ND | 20 µg/Kg | 59 1,2,3-Trichlorobenzene | ND | 80 µg/Kg |
| 25 trans-1,3-Dichloropropene | ND | 20 µg/Kg | 60 Surr: 1,2-Dichloroethane-d4 | 96 | (70-130) %REC |
| 26 1,1,2-Trichloroethane | ND | 20 µg/Kg | 61 Surr: Toluene-d8 | 106 | (70-130) %REC |
| 27 Toluene | ND | 20 µg/Kg | 62 Surr: 4-Bromofluorobenzene | 98 | (70-130) %REC |
| 28 1,3-Dichloropropane | ND | 20 µg/Kg | | | |
| 29 Dibromochloromethane | ND | 20 µg/Kg | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 80 µg/Kg | | | |
| 31 Tetrachloroethene | ND | 20 µg/Kg | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 20 µg/Kg | | | |
| 33 Chlorobenzene | ND | 20 µg/Kg | | | |
| 34 Ethylbenzene | ND | 20 µg/Kg | | | |
| 35 m,p-Xylene | ND | 20 µg/Kg | | | |

Sample results were calculated on a wet weight basis.
ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

6/2/10

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052504-06A
Client I.D. Number: SS02SENA052510

Sampled: 05/25/10 10:25
Received: 05/25/10
Extracted: 05/28/10
Analyzed: 05/28/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 20 µg/Kg | 36 Bromoform | ND | 20 µg/Kg |
| 2 Chloromethane | ND | 80 µg/Kg | 37 Styrene | ND | 20 µg/Kg |
| 3 Vinyl chloride | ND | 20 µg/Kg | 38 o-Xylene | ND | 20 µg/Kg |
| 4 Chloroethane | ND | 20 µg/Kg | 39 1,1,2,2-Tetrachloroethane | ND | 20 µg/Kg |
| 5 Bromomethane | ND | 80 µg/Kg | 40 1,2,3-Trichloropropane | ND | 80 µg/Kg |
| 6 Trichlorofluoromethane | ND | 20 µg/Kg | 41 Isopropylbenzene | ND | 20 µg/Kg |
| 7 1,1-Dichloroethene | ND | 20 µg/Kg | 42 Bromobenzene | ND | 20 µg/Kg |
| 8 Dichloromethane | ND | 80 µg/Kg | 43 n-Propylbenzene | ND | 20 µg/Kg |
| 9 trans-1,2-Dichloroethene | ND | 20 µg/Kg | 44 4-Chlorotoluene | ND | 20 µg/Kg |
| 10 1,1-Dichloroethane | ND | 20 µg/Kg | 45 2-Chlorotoluene | ND | 20 µg/Kg |
| 11 cis-1,2-Dichloroethene | ND | 20 µg/Kg | 46 1,3,5-Trimethylbenzene | ND | 20 µg/Kg |
| 12 Bromochloromethane | ND | 20 µg/Kg | 47 tert-Butylbenzene | ND | 20 µg/Kg |
| 13 Chloroform | ND | 20 µg/Kg | 48 1,2,4-Trimethylbenzene | ND | 20 µg/Kg |
| 14 2,2-Dichloropropane | ND | 20 µg/Kg | 49 sec-Butylbenzene | ND | 20 µg/Kg |
| 15 1,2-Dichloroethane | ND | 20 µg/Kg | 50 1,3-Dichlorobenzene | ND | 20 µg/Kg |
| 16 1,1,1-Trichloroethane | ND | 20 µg/Kg | 51 1,4-Dichlorobenzene | ND | 20 µg/Kg |
| 17 1,1-Dichloropropene | ND | 20 µg/Kg | 52 4-Isopropyltoluene | ND | 20 µg/Kg |
| 18 Carbon tetrachloride | ND | 20 µg/Kg | 53 1,2-Dichlorobenzene | ND | 20 µg/Kg |
| 19 Benzene | ND | 20 µg/Kg | 54 n-Butylbenzene | ND | 20 µg/Kg |
| 20 Dibromomethane | ND | 20 µg/Kg | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 120 µg/Kg |
| 21 1,2-Dichloropropane | ND | 20 µg/Kg | 56 1,2,4-Trichlorobenzene | ND | 80 µg/Kg |
| 22 Trichloroethene | ND | 20 µg/Kg | 57 Naphthalene | ND | 80 µg/Kg |
| 23 Bromodichloromethane | ND | 20 µg/Kg | 58 Hexachlorobutadiene | ND | 80 µg/Kg |
| 24 cis-1,3-Dichloropropene | ND | 20 µg/Kg | 59 1,2,3-Trichlorobenzene | ND | 80 µg/Kg |
| 25 trans-1,3-Dichloropropene | ND | 20 µg/Kg | 60 Surr: 1,2-Dichloroethane-d4 | 95 | (70-130) %REC |
| 26 1,1,2-Trichloroethane | ND | 20 µg/Kg | 61 Surr: Toluene-d8 | 105 | (70-130) %REC |
| 27 Toluene | ND | 20 µg/Kg | 62 Surr: 4-Bromofluorobenzene | 100 | (70-130) %REC |
| 28 1,3-Dichloropropane | ND | 20 µg/Kg | | | |
| 29 Dibromochloromethane | ND | 20 µg/Kg | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 80 µg/Kg | | | |
| 31 Tetrachloroethene | ND | 20 µg/Kg | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 20 µg/Kg | | | |
| 33 Chlorobenzene | ND | 20 µg/Kg | | | |
| 34 Ethylbenzene | ND | 20 µg/Kg | | | |
| 35 m,p-Xylene | ND | 20 µg/Kg | | | |

Sample results were calculated on a wet weight basis.
ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

[Signature]

6/2/10

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: NTD

Attn: Clayton Mokri
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10052504-07A
Client I.D. Number: TB01GWNA052510

Sampled: 05/25/10 08:00
Received: 05/25/10
Extracted: 05/27/10
Analyzed: 05/27/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 1.0 µg/L | 36 Bromoform | ND | 1.0 µg/L |
| 2 Chloromethane | ND | 2.0 µg/L | 37 Styrene | ND | 1.0 µg/L |
| 3 Vinyl chloride | ND | 1.0 µg/L | 38 o-Xylene | ND | 1.0 µg/L |
| 4 Chloroethane | ND | 1.0 µg/L | 39 1,1,2,2-Tetrachloroethane | ND | 1.0 µg/L |
| 5 Bromomethane | ND | 2.0 µg/L | 40 1,2,3-Trichloropropane | ND | 2.0 µg/L |
| 6 Trichlorofluoromethane | ND | 1.0 µg/L | 41 Isopropylbenzene | ND | 1.0 µg/L |
| 7 1,1-Dichloroethene | ND | 1.0 µg/L | 42 Bromobenzene | ND | 1.0 µg/L |
| 8 Dichloromethane | ND | 2.0 µg/L | 43 n-Propylbenzene | ND | 1.0 µg/L |
| 9 trans-1,2-Dichloroethene | ND | 1.0 µg/L | 44 4-Chlorotoluene | ND | 1.0 µg/L |
| 10 1,1-Dichloroethane | ND | 1.0 µg/L | 45 2-Chlorotoluene | ND | 1.0 µg/L |
| 11 cis-1,2-Dichloroethene | ND | 1.0 µg/L | 46 1,3,5-Trimethylbenzene | ND | 1.0 µg/L |
| 12 Bromochloromethane | ND | 1.0 µg/L | 47 tert-Butylbenzene | ND | 1.0 µg/L |
| 13 Chloroform | ND | 1.0 µg/L | 48 1,2,4-Trimethylbenzene | ND | 1.0 µg/L |
| 14 2,2-Dichloropropane | ND | 1.0 µg/L | 49 sec-Butylbenzene | ND | 1.0 µg/L |
| 15 1,2-Dichloroethane | ND | 1.0 µg/L | 50 1,3-Dichlorobenzene | ND | 1.0 µg/L |
| 16 1,1,1-Trichloroethane | ND | 1.0 µg/L | 51 1,4-Dichlorobenzene | ND | 1.0 µg/L |
| 17 1,1-Dichloropropene | ND | 1.0 µg/L | 52 4-Isopropyltoluene | ND | 1.0 µg/L |
| 18 Carbon tetrachloride | ND | 1.0 µg/L | 53 1,2-Dichlorobenzene | ND | 1.0 µg/L |
| 19 Benzene | ND | 1.0 µg/L | 54 n-Butylbenzene | ND | 1.0 µg/L |
| 20 Dibromomethane | ND | 1.0 µg/L | 55 1,2-Dibromo-3-chloropropane (DBCP) | ND | 3.0 µg/L |
| 21 1,2-Dichloropropane | ND | 1.0 µg/L | 56 1,2,4-Trichlorobenzene | ND | 2.0 µg/L |
| 22 Trichloroethene | ND | 1.0 µg/L | 57 Naphthalene | ND | 2.0 µg/L |
| 23 Bromodichloromethane | ND | 1.0 µg/L | 58 Hexachlorobutadiene | ND | 2.0 µg/L |
| 24 cis-1,3-Dichloropropene | ND | 1.0 µg/L | 59 1,2,3-Trichlorobenzene | ND | 2.0 µg/L |
| 25 trans-1,3-Dichloropropene | ND | 1.0 µg/L | 60 Surr: 1,2-Dichloroethane-d4 | 126 | (70-130) %REC |
| 26 1,1,2-Trichloroethane | ND | 1.0 µg/L | 61 Surr: Toluene-d8 | 92 | (70-130) %REC |
| 27 Toluene | ND | 1.0 µg/L | 62 Surr: 4-Bromofluorobenzene | 109 | (70-130) %REC |
| 28 1,3-Dichloropropane | ND | 1.0 µg/L | | | |
| 29 Dibromochloromethane | ND | 1.0 µg/L | | | |
| 30 1,2-Dibromoethane (EDB) | ND | 2.0 µg/L | | | |
| 31 Tetrachloroethene | ND | 1.0 µg/L | | | |
| 32 1,1,1,2-Tetrachloroethane | ND | 1.0 µg/L | | | |
| 33 Chlorobenzene | ND | 1.0 µg/L | | | |
| 34 Ethylbenzene | ND | 1.0 µg/L | | | |
| 35 m,p-Xylene | ND | 1.0 µg/L | | | |

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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JPS
6/2/10

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC Sample Preservation Report

Work Order: E2M10052504

Job: NTD

| Alpha's Sample ID | Client's Sample ID | Matrix | pH |
|-------------------|--------------------|---------|----|
| 10052504-04A | SB03GW17052510 | Aqueous | 2 |
| 10052504-07A | TB01GWNA052510 | Aqueous | 2 |

6/2/10
Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
02-Jun-10

QC Summary Report

Work Order:
10052504

Method Blank

Type **MBLK** Test Code: **EPA Method 300.0**

File ID: **21**

Batch ID: **24338**

Analysis Date: **05/26/2010 14:03**

Sample ID: **MB-24338**

Units : **mg/L**

Run ID: **IC_1_100526A**

Prep Date: **05/26/2010 12:49**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-------------------|--------|------|--------|-----------|------|---------|---------|-----------|-------------|------|
| Fluoride | ND | 0.25 | | | | | | | | |
| Chloride | ND | 0.5 | | | | | | | | |
| Nitrite (NO2) - N | ND | 0.25 | | | | | | | | |
| Nitrate (NO3) - N | ND | 0.25 | | | | | | | | |
| Sulfate (SO4) | ND | 0.5 | | | | | | | | |

Laboratory Fortified Blank

Type **LFB** Test Code: **EPA Method 300.0**

File ID: **22**

Batch ID: **24338**

Analysis Date: **05/26/2010 14:21**

Sample ID: **LFB-24338**

Units : **mg/L**

Run ID: **IC_1_100526A**

Prep Date: **05/26/2010 12:49**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-------------------|--------|------|--------|-----------|------|---------|---------|-----------|-------------|------|
| Fluoride | 4.59 | 0.25 | 5 | | 92 | 90 | 110 | | | |
| Chloride | 51.5 | 0.5 | 50 | | 103 | 90 | 110 | | | |
| Nitrite (NO2) - N | 4.85 | 0.25 | 5 | | 97 | 90 | 110 | | | |
| Nitrate (NO3) - N | 5.07 | 0.25 | 5 | | 101 | 90 | 110 | | | |
| Sulfate (SO4) | 103 | 0.5 | 100 | | 103 | 90 | 110 | | | |

Sample Matrix Spike

Type **LFM** Test Code: **EPA Method 300.0**

File ID: **34**

Batch ID: **24338**

Analysis Date: **05/26/2010 18:03**

Sample ID: **10052504-04ALFM**

Units : **mg/L**

Run ID: **IC_1_100526A**

Prep Date: **05/26/2010 12:49**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-------------------|--------|------|--------|-----------|------|---------|---------|-----------|-------------|------|
| Fluoride | 8.85 | 0.25 | 10 | 0 | 88 | 80 | 120 | | | |
| Chloride | 173 | 0.5 | 100 | 79.84 | 93 | 80 | 120 | | | |
| Nitrite (NO2) - N | 10.3 | 0.25 | 10 | 0 | 103 | 80 | 120 | | | |
| Nitrate (NO3) - N | 10.3 | 0.25 | 10 | 0 | 103 | 80 | 120 | | | |
| Sulfate (SO4) | 339 | 0.5 | 200 | 155.4 | 92 | 80 | 120 | | | |

Sample Matrix Spike Duplicate

Type **LFMD** Test Code: **EPA Method 300.0**

File ID: **35**

Batch ID: **24338**

Analysis Date: **05/26/2010 18:22**

Sample ID: **10052504-04ALFMD**

Units : **mg/L**

Run ID: **IC_1_100526A**

Prep Date: **05/26/2010 12:49**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-------------------|--------|------|--------|-----------|------|---------|---------|-----------|-------------|------|
| Fluoride | 8.75 | 0.25 | 10 | 0 | 87 | 80 | 120 | 8.845 | 1.1(15) | |
| Chloride | 176 | 0.5 | 100 | 79.84 | 96 | 80 | 120 | 172.9 | 1.6(15) | |
| Nitrite (NO2) - N | 9.36 | 0.25 | 10 | 0 | 94 | 80 | 120 | 10.3 | 9.5(15) | |
| Nitrate (NO3) - N | 10.5 | 0.25 | 10 | 0 | 105 | 80 | 120 | 10.28 | 2.6(15) | |
| Sulfate (SO4) | 345 | 0.5 | 200 | 155.4 | 95 | 80 | 120 | 339.1 | 1.6(15) | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
02-Jun-10

QC Summary Report

Work Order:
10052504

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8081A**

File ID: **10052810.D**

Batch ID: **24347**

Analysis Date: **05/28/2010 14:18**

Sample ID: **MBLK-24347**

Units: **µg/Kg**

Run ID: **ECD_1_100527B**

Prep Date: **05/27/2010 15:43**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| alpha-BHC | ND | 1.7 | | | | | | | | |
| gamma-BHC (Lindane) | ND | 1.7 | | | | | | | | |
| beta-BHC | ND | 1.7 | | | | | | | | |
| delta-BHC | ND | 1.7 | | | | | | | | |
| Heptachlor | ND | 1.7 | | | | | | | | |
| Aldrin | ND | 1.7 | | | | | | | | |
| Heptachlor epoxide | ND | 1.7 | | | | | | | | |
| Endosulfan I | ND | 1.7 | | | | | | | | |
| 4,4'-DDE | ND | 3.3 | | | | | | | | |
| Dieldrin | ND | 3.3 | | | | | | | | |
| Endrin | ND | 3.3 | | | | | | | | |
| 4,4'-DDD | ND | 3.3 | | | | | | | | |
| Endosulfan II | ND | 3.3 | | | | | | | | |
| Endrin aldehyde | ND | 3.3 | | | | | | | | |
| 4,4'-DDT | ND | 3.3 | | | | | | | | |
| Endosulfan sulfate | ND | 3.3 | | | | | | | | |
| Methoxychlor | ND | 17 | | | | | | | | |
| Endrin ketone | ND | 3.3 | | | | | | | | |
| Toxaphene | ND | 170 | | | | | | | | |
| Chlordane (Technical) | ND | 33 | | | | | | | | |
| Surr: Tetrachloro-m-xylene | 18.3 | | 20 | | 92 | 30 | 130 | | | |
| Surr: Decachlorobiphenyl | 19.2 | | 20 | | 96 | 34 | 142 | | | |

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8081A**

File ID: **10052811.D**

Batch ID: **24347**

Analysis Date: **05/28/2010 14:30**

Sample ID: **LCS-24347**

Units: **µg/Kg**

Run ID: **ECD_1_100527B**

Prep Date: **05/27/2010 15:43**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| alpha-BHC | 16.9 | 1.7 | 20 | | 85 | 62 | 130 | | | |
| gamma-BHC (Lindane) | 18.9 | 1.7 | 20 | | 95 | 61 | 130 | | | |
| beta-BHC | 19.4 | 1.7 | 20 | | 97 | 52 | 130 | | | |
| delta-BHC | 17.8 | 1.7 | 20 | | 89 | 59 | 130 | | | |
| Heptachlor | 18.8 | 1.7 | 20 | | 94 | 64 | 130 | | | |
| Aldrin | 18.4 | 1.7 | 20 | | 92 | 58 | 130 | | | |
| Heptachlor epoxide | 19.8 | 1.7 | 20 | | 99 | 59 | 130 | | | |
| Endosulfan I | 10.8 | 1.7 | 20 | | 54 | 38 | 130 | | | |
| 4,4'-DDE | 18.3 | 3.3 | 20 | | 92 | 70 | 130 | | | |
| Dieldrin | 17.6 | 3.3 | 20 | | 88 | 68 | 130 | | | |
| Endrin | 18.2 | 3.3 | 20 | | 91 | 41 | 130 | | | |
| 4,4'-DDD | 19.9 | 3.3 | 20 | | 99.6 | 62 | 130 | | | |
| Endosulfan II | 13.2 | 3.3 | 20 | | 66 | 51 | 130 | | | |
| 4,4'-DDT | 17.9 | 3.3 | 20 | | 90 | 66 | 130 | | | |
| Endosulfan sulfate | 19 | 3.3 | 20 | | 95 | 70 | 130 | | | |
| Methoxychlor | 20 | 17 | 20 | | 100 | 68 | 130 | | | |
| Endrin ketone | 20.3 | 3.3 | 20 | | 101 | 62 | 130 | | | |
| Surr: Tetrachloro-m-xylene | 18.9 | | 20 | | 95 | 30 | 130 | | | |
| Surr: Decachlorobiphenyl | 19.5 | | 20 | | 98 | 34 | 142 | | | |



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Date:
02-Jun-10

QC Summary Report

Work Order:
10052504

Laboratory Control Spike Duplicate

Type: **LCSD** Test Code: **EPA Method SW8081A**

File ID: **10052812.D**

Batch ID: **24347**

Analysis Date: **05/28/2010 14:41**

Sample ID: **LCSD-24347**

Units: **µg/Kg**

Run ID: **ECD_1_100527B**

Prep Date: **05/27/2010 15:43**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| alpha-BHC | 17.4 | 1.7 | 20 | | 87 | 62 | 130 | 16.9 | 2.9(20) | |
| gamma-BHC (Lindane) | 19.5 | 1.7 | 20 | | 97 | 61 | 130 | 18.91 | 3.0(20) | |
| beta-BHC | 19.5 | 1.7 | 20 | | 98 | 52 | 130 | 19.4 | 0.7(20) | |
| delta-BHC | 18.3 | 1.7 | 20 | | 92 | 59 | 130 | 17.75 | 3.2(20) | |
| Heptachlor | 18.9 | 1.7 | 20 | | 94 | 64 | 130 | 18.76 | 0.6(20) | |
| Aldrin | 19.1 | 1.7 | 20 | | 95 | 58 | 130 | 18.37 | 3.8(20) | |
| Heptachlor epoxide | 20.6 | 1.7 | 20 | | 103 | 59 | 130 | 19.84 | 3.9(20) | |
| Endosulfan I | 11.7 | 1.7 | 20 | | 59 | 38 | 130 | 10.79 | 8.4(20) | |
| 4,4'-DDE | 19 | 3.3 | 20 | | 95 | 70 | 130 | 18.3 | 3.8(20) | |
| Dieldrin | 18 | 3.3 | 20 | | 90 | 68 | 130 | 17.57 | 2.6(20) | |
| Endrin | 18.8 | 3.3 | 20 | | 94 | 41 | 130 | 18.24 | 2.9(20) | |
| 4,4'-DDD | 20.9 | 3.3 | 20 | | 104 | 62 | 130 | 19.91 | 4.7(20) | |
| Endosulfan II | 13.5 | 3.3 | 20 | | 67 | 51 | 130 | 13.19 | 2.2(20) | |
| 4,4'-DDT | 18.9 | 3.3 | 20 | | 95 | 66 | 130 | 17.9 | 5.7(20) | |
| Endosulfan sulfate | 19.6 | 3.3 | 20 | | 98 | 70 | 130 | 19.03 | 3.1(20) | |
| Methoxychlor | 20.7 | 17 | 20 | | 104 | 68 | 130 | 20.01 | 3.4(20) | |
| Endrin ketone | 20.5 | 3.3 | 20 | | 102 | 62 | 130 | 20.28 | 1.0(20) | |
| Surr: Tetrachloro-m-xylene | 18 | | 20 | | 90 | 30 | 130 | | | |
| Surr: Decachlorobiphenyl | 19 | | 20 | | 95 | 34 | 142 | | | |

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8081A**

File ID: **10052822.D**

Batch ID: **24347**

Analysis Date: **05/28/2010 16:37**

Sample ID: **10052504-06AMS**

Units: **µg/Kg**

Run ID: **ECD_1_100527B**

Prep Date: **05/27/2010 15:43**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| alpha-BHC | 18.6 | 5.1 | 20 | 0 | 93 | 22 | 130 | | | |
| gamma-BHC (Lindane) | 19.8 | 5.1 | 20 | 0 | 99 | 23 | 130 | | | |
| beta-BHC | 18.2 | 5.1 | 20 | 0 | 91 | 20 | 130 | | | |
| delta-BHC | 17.4 | 5.1 | 20 | 0 | 87 | 28 | 130 | | | |
| Heptachlor | 15.1 | 5.1 | 20 | 0 | 76 | 25 | 130 | | | |
| Aldrin | 11.2 | 5.1 | 20 | 0 | 56 | 24 | 130 | | | |
| Heptachlor epoxide | 18 | 5.1 | 20 | 0 | 90 | 21 | 130 | | | |
| Endosulfan I | 9.13 | 5.1 | 20 | 0 | 46 | 20 | 130 | | | |
| 4,4'-DDE | 16.4 | 9.9 | 20 | 0 | 82 | 20 | 130 | | | |
| Dieldrin | 16.9 | 9.9 | 20 | 0 | 85 | 20 | 130 | | | |
| Endrin | 16.3 | 9.9 | 20 | 0 | 82 | 20 | 133 | | | |
| 4,4'-DDD | 21.2 | 9.9 | 20 | 0 | 106 | 20 | 130 | | | |
| Endosulfan II | 10.9 | 9.9 | 20 | 0 | 54 | 20 | 130 | | | |
| 4,4'-DDT | 3.62 | 9.9 | 20 | 0 | 18 | 20 | 150 | | | M2 |
| Endosulfan sulfate | 15.8 | 9.9 | 20 | 0 | 79 | 20 | 130 | | | |
| Methoxychlor | 5.8 | 51 | 20 | 0 | 29 | 20 | 141 | | | |
| Endrin ketone | 14.9 | 9.9 | 20 | 0 | 74 | 20 | 130 | | | |
| Surr: Tetrachloro-m-xylene | 16.1 | | 20 | | 81 | 30 | 130 | | | |
| Surr: Decachlorobiphenyl | 19.1 | | 20 | | 95 | 34 | 142 | | | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M2 = Matrix spike recovery was low, the method control sample recovery was acceptable.

Sample data was verified by second column confirmation.



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Date:
02-Jun-10

QC Summary Report

Work Order:
10052504

Method Blank

Type: **MBLK** Test Code: **EPA Method SW8082**

File ID: **10052712.D**

Batch ID: **24347A**

Analysis Date: **05/27/2010 20:48**

Sample ID: **MBLK-24347**

Units: **µg/Kg**

Run ID: **ECD_1_100527A**

Prep Date: **05/27/2010 15:43**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Aroclor 1016 | ND | 33 | | | | | | | | |
| Aroclor 1221 | ND | 33 | | | | | | | | |
| Aroclor 1232 | ND | 33 | | | | | | | | |
| Aroclor 1242 | ND | 33 | | | | | | | | |
| Aroclor 1248 | ND | 33 | | | | | | | | |
| Aroclor 1254 | ND | 33 | | | | | | | | |
| Aroclor 1260 | ND | 33 | | | | | | | | |
| Surr: Tetrachloro-m-xylene | 19.7 | | 20 | | 98 | 30 | 130 | | | |
| Surr: Decachlorobiphenyl | 20.7 | | 20 | | 104 | 34 | 142 | | | |

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8082**

File ID: **10052713.D**

Batch ID: **24347A**

Analysis Date: **05/27/2010 21:00**

Sample ID: **LCS-24347**

Units: **µg/Kg**

Run ID: **ECD_1_100527A**

Prep Date: **05/27/2010 15:43**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Aroclor 1232 | 451 | 33 | 400 | | 113 | 51 | 131 | | | |
| Surr: Tetrachloro-m-xylene | 21.1 | | 20 | | 105 | 30 | 130 | | | |
| Surr: Decachlorobiphenyl | 22.2 | | 20 | | 111 | 34 | 142 | | | |

Laboratory Control Spike Duplicate

Type: **LCSD** Test Code: **EPA Method SW8082**

File ID: **10052714.D**

Batch ID: **24347A**

Analysis Date: **05/27/2010 21:12**

Sample ID: **LCSD-24347**

Units: **µg/Kg**

Run ID: **ECD_1_100527A**

Prep Date: **05/27/2010 15:43**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Aroclor 1232 | 462 | 33 | 400 | | 115 | 51 | 131 | 451.4 | 2.2(20) | |
| Surr: Tetrachloro-m-xylene | 20.3 | | 20 | | 102 | 30 | 130 | | | |
| Surr: Decachlorobiphenyl | 21.6 | | 20 | | 108 | 34 | 142 | | | |

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8082**

File ID: **10052718.D**

Batch ID: **24347A**

Analysis Date: **05/27/2010 21:58**

Sample ID: **10052504-06AMS**

Units: **µg/Kg**

Run ID: **ECD_1_100527A**

Prep Date: **05/27/2010 15:43**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Aroclor 1232 | 402 | 33 | 400 | | 0 | 101 | 20 | 147 | | |
| Surr: Tetrachloro-m-xylene | 18.7 | | 20 | | 94 | 30 | 130 | | | |
| Surr: Decachlorobiphenyl | 17 | | 20 | | 85 | 34 | 142 | | | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
02-Jun-10

QC Summary Report

Work Order:
10052504

Laboratory Control Spike

Type **LCS**

Test Code: **SM2320B**

File ID:

Batch ID: **W0602AL**

Analysis Date: **06/02/2010 11:38**

Sample ID: **LCS-W0602AL**

Units : **mg/L**

Run ID: **WETLAB_100602A**

Prep Date: **06/02/2010 11:38**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Alkalinity, Total (As CaCO3 at pH 4.5) | 258 | 10 | 250 | | 103 | 80 | 120 | | | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
02-Jun-10

QC Summary Report

Work Order:
10052504

Method Blank

Type **MBLK** Test Code: **SM4500-NH3D**

| | | | |
|--------------------------------|---------------------|-------------------------------|--|
| File ID: | | Batch ID: W0521AM | Analysis Date: 05/21/2010 11:38 |
| Sample ID: MBLK-W0521AM | Units : mg/L | Run ID: WETLAB_100521F | Prep Date: 05/21/2010 11:38 |
| Analyte | Result | PQL | SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual |
| Nitrogen, Ammonia (As N) | ND | 0.1 | |

Laboratory Control Spike

Type **LCS** Test Code: **SM4500-NH3D**

| | | | |
|-------------------------------|---------------------|-------------------------------|--|
| File ID: | | Batch ID: W0521AM | Analysis Date: 05/21/2010 11:35 |
| Sample ID: LCS-W0521AM | Units : mg/L | Run ID: WETLAB_100521F | Prep Date: 05/21/2010 11:35 |
| Analyte | Result | PQL | SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual |
| Nitrogen, Ammonia (As N) | 5.07 | 0.1 | 5 101 70 130 |

Sample Matrix Spike

Type **MS** Test Code: **SM4500-NH3D**

| | | | |
|----------------------------------|---------------------|-------------------------------|--|
| File ID: | | Batch ID: W0521AM | Analysis Date: 05/21/2010 11:45 |
| Sample ID: 10052020-03AMS | Units : mg/L | Run ID: WETLAB_100521F | Prep Date: 05/21/2010 11:45 |
| Analyte | Result | PQL | SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual |
| Nitrogen, Ammonia (As N) | 4.72 | 0.1 | 5 0 94 65 138 |

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **SM4500-NH3D**

| | | | |
|-----------------------------------|---------------------|-------------------------------|--|
| File ID: | | Batch ID: W0521AM | Analysis Date: 05/21/2010 11:51 |
| Sample ID: 10052020-03AMSD | Units : mg/L | Run ID: WETLAB_100521F | Prep Date: 05/21/2010 11:51 |
| Analyte | Result | PQL | SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual |
| Nitrogen, Ammonia (As N) | 4.91 | 0.1 | 5 0 98 65 138 4.72 4.0(20) |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
01-Jun-10

QC Summary Report

Work Order:
10052504

Method Blank

Type **MBLK** Test Code: **EPA Method SW8270C**

File ID: **10052707.D**

Batch ID: **24343**

Analysis Date: **05/27/2010 19:53**

Sample ID: **MBLK-24343**

Units: **µg/Kg**

Run ID: **MSD_06_100527C**

Prep Date: **05/27/2010 11:06**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|--------|------|--------|-----------|------|---------|---------|-----------|-------------|------|
| Phenol | ND | 660 | | | | | | | | |
| 2-Chlorophenol | ND | 660 | | | | | | | | |
| Bis(2-chloroethyl)ether | ND | 660 | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 1300 | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 1300 | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 1300 | | | | | | | | |
| Bis(2-chloroisopropyl)ether | ND | 660 | | | | | | | | |
| N-Nitrosodi-n-propylamine | ND | 660 | | | | | | | | |
| Hexachloroethane | ND | 1300 | | | | | | | | |
| Nitrobenzene | ND | 660 | | | | | | | | |
| Isophorone | ND | 660 | | | | | | | | |
| 2-Nitrophenol | ND | 660 | | | | | | | | |
| 2,4-Dimethylphenol | ND | 660 | | | | | | | | |
| Bis(2-chloroethoxy)methane | ND | 660 | | | | | | | | |
| 2,4-Dichlorophenol | ND | 660 | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 660 | | | | | | | | |
| Naphthalene | ND | 660 | | | | | | | | |
| 4-Chloro-3-methylphenol | ND | 1300 | | | | | | | | |
| Hexachlorobutadiene | ND | 1300 | | | | | | | | |
| Hexachlorocyclopentadiene | ND | 6600 | | | | | | | | |
| 2,4,6-Trichlorophenol | ND | 660 | | | | | | | | |
| 2-Chloronaphthalene | ND | 660 | | | | | | | | |
| Dimethyl phthalate | ND | 660 | | | | | | | | |
| Acenaphthylene | ND | 660 | | | | | | | | |
| 2,6-Dinitrotoluene | ND | 660 | | | | | | | | |
| Acenaphthene | ND | 660 | | | | | | | | |
| 2,4-Dinitrophenol | ND | 6600 | | | | | | | | |
| 4-Nitrophenol | ND | 3300 | | | | | | | | |
| 2,4-Dinitrotoluene | ND | 660 | | | | | | | | |
| Diethyl phthalate | ND | 660 | | | | | | | | |
| Fluorene | ND | 660 | | | | | | | | |
| 4-Chlorophenyl phenyl ether | ND | 660 | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | ND | 6600 | | | | | | | | |
| N-Nitrosodiphenylamine | ND | 660 | | | | | | | | |
| 4-Bromophenyl phenyl ether | ND | 660 | | | | | | | | |
| Hexachlorobenzene | ND | 660 | | | | | | | | |
| Pentachlorophenol | ND | 3300 | | | | | | | | |
| Phenanthrene | ND | 660 | | | | | | | | |
| Anthracene | ND | 660 | | | | | | | | |
| Di-n-butyl phthalate | ND | 3300 | | | | | | | | |
| Fluoranthene | ND | 660 | | | | | | | | |
| Pyrene | ND | 660 | | | | | | | | |
| Butyl benzyl phthalate | ND | 1300 | | | | | | | | |
| Benzo(a)anthracene | ND | 660 | | | | | | | | |
| 3,3'-Dichlorobenzidine | ND | 1300 | | | | | | | | |
| Chrysene | ND | 660 | | | | | | | | |
| Bis(2-ethylhexyl)phthalate | ND | 3300 | | | | | | | | |
| Di-n-octyl phthalate | ND | 3300 | | | | | | | | |
| Benzo(b)fluoranthene | ND | 660 | | | | | | | | |
| Benzo(k)fluoranthene | ND | 660 | | | | | | | | |
| Benzo(a)pyrene | ND | 660 | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | 660 | | | | | | | | |
| Dibenz(a,h)anthracene | ND | 660 | | | | | | | | |
| Benzo(g,h,i)perylene | ND | 660 | | | | | | | | |
| Surr: 2-Fluorophenol | 9100 | | 12500 | | 73 | 67 | 131 | | | |
| Surr: Phenol-d5 | 9620 | | 12500 | | 77 | 60 | 133 | | | |
| Surr: Nitrobenzene-d5 | 4970 | | 6250 | | 80 | 54 | 135 | | | |
| Surr: 2-Fluorobiphenyl | 4860 | | 6250 | | 78 | 70 | 130 | | | |
| Surr: 2,4,6-Tribromophenol | 9460 | | 12500 | | 76 | 44 | 151 | | | |
| Surr: 4-Terphenyl-d14 | 4430 | | 6250 | | 71 | 59 | 139 | | | |



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Date:
01-Jun-10

QC Summary Report

Work Order:
10052504

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8270C**

File ID: **10052708.D**

Batch ID: **24343**

Analysis Date: **05/27/2010 20:18**

Sample ID: **LCS-24343**

Units : **µg/Kg**

Run ID: **MSD_06_100527C**

Prep Date: **05/27/2010 11:06**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------------------|--------|------|--------|-----------|------|---------|---------|-----------|-------------|------|
| Phenol | 4950 | 660 | 6250 | | 79 | 53 | 130 | | | |
| 2-Chlorophenol | 4680 | 660 | 6250 | | 75 | 70 | 130 | | | |
| 1,4-Dichlorobenzene | 4630 | 1300 | 6250 | | 74 | 64 | 130 | | | |
| N-Nitrosodi-n-propylamine | 4870 | 660 | 6250 | | 78 | 70 | 137 | | | |
| 1,2,4-Trichlorobenzene | 4830 | 660 | 6250 | | 77 | 58 | 133 | | | |
| 4-Chloro-3-methylphenol | 5230 | 1300 | 6250 | | 84 | 40 | 140 | | | |
| Acenaphthene | 4880 | 660 | 6250 | | 78 | 70 | 130 | | | |
| 4-Nitrophenol | 21100 | 3300 | 25000 | | 84 | 30 | 136 | | | |
| 2,4-Dinitrotoluene | 5500 | 660 | 6250 | | 88 | 70 | 130 | | | |
| Pentachlorophenol | 20000 | 3300 | 25000 | | 80 | 53 | 140 | | | |
| Pyrene | 5020 | 660 | 6250 | | 80 | 67 | 137 | | | |
| Surr: 2-Fluorophenol | 9670 | | 12500 | | 77 | 67 | 131 | | | |
| Surr: Phenol-d5 | 10000 | | 12500 | | 80 | 60 | 133 | | | |
| Surr: Nitrobenzene-d5 | 5170 | | 6250 | | 83 | 54 | 135 | | | |
| Surr: 2-Fluorobiphenyl | 5030 | | 6250 | | 80 | 70 | 130 | | | |
| Surr: 2,4,6-Tribromophenol | 11400 | | 12500 | | 91 | 44 | 151 | | | |
| Surr: 4-Terphenyl-d14 | 4540 | | 6250 | | 73 | 59 | 139 | | | |

Laboratory Control Spike Duplicate

Type **LCSD** Test Code: **EPA Method SW8270C**

File ID: **10052709.D**

Batch ID: **24343**

Analysis Date: **05/27/2010 20:44**

Sample ID: **LCSD-24343**

Units : **µg/Kg**

Run ID: **MSD_06_100527C**

Prep Date: **05/27/2010 11:06**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------------------|--------|------|--------|-----------|------|---------|---------|-----------|-------------|------|
| Phenol | 5020 | 660 | 6250 | | 80 | 53 | 130 | 4946 | 1.4(40) | |
| 2-Chlorophenol | 4750 | 660 | 6250 | | 76 | 70 | 130 | 4684 | 1.5(40) | |
| 1,4-Dichlorobenzene | 4600 | 1300 | 6250 | | 74 | 64 | 130 | 4627 | 0.5(28) | |
| N-Nitrosodi-n-propylamine | 4840 | 660 | 6250 | | 77 | 70 | 137 | 4873 | 0.7(31) | |
| 1,2,4-Trichlorobenzene | 4790 | 660 | 6250 | | 77 | 58 | 133 | 4833 | 0.8(30) | |
| 4-Chloro-3-methylphenol | 5270 | 1300 | 6250 | | 84 | 40 | 140 | 5229 | 0.7(40) | |
| Acenaphthene | 4830 | 660 | 6250 | | 77 | 70 | 130 | 4884 | 1.1(40) | |
| 4-Nitrophenol | 21500 | 3300 | 25000 | | 86 | 30 | 136 | 21120 | 1.9(40) | |
| 2,4-Dinitrotoluene | 5500 | 660 | 6250 | | 88 | 70 | 130 | 5498 | 0.0(40) | |
| Pentachlorophenol | 20300 | 3300 | 25000 | | 81 | 53 | 140 | 19950 | 1.9(40) | |
| Pyrene | 5200 | 660 | 6250 | | 83 | 67 | 137 | 5019 | 3.6(31) | |
| Surr: 2-Fluorophenol | 8660 | | 12500 | | 69 | 67 | 131 | | | |
| Surr: Phenol-d5 | 9070 | | 12500 | | 73 | 60 | 133 | | | |
| Surr: Nitrobenzene-d5 | 4700 | | 6250 | | 75 | 54 | 135 | | | |
| Surr: 2-Fluorobiphenyl | 4530 | | 6250 | | 72 | 70 | 130 | | | |
| Surr: 2,4,6-Tribromophenol | 10300 | | 12500 | | 83 | 44 | 151 | | | |
| Surr: 4-Terphenyl-d14 | 4510 | | 6250 | | 72 | 59 | 139 | | | |

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8270C**

File ID: **10052712.D**

Batch ID: **24343**

Analysis Date: **05/27/2010 22:00**

Sample ID: **10052504-06AMS**

Units : **µg/Kg**

Run ID: **MSD_06_100527C**

Prep Date: **05/27/2010 11:06**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------------------|--------|------|--------|-----------|------|---------|---------|-----------|-------------|------|
| Phenol | 3670 | 660 | 6250 | | 0 | 59 | 11 | 138 | | |
| 2-Chlorophenol | 3510 | 660 | 6250 | | 0 | 56 | 38 | 142 | | |
| 1,4-Dichlorobenzene | 3410 | 1300 | 6250 | | 0 | 55 | 60 | 130 | | M2 |
| N-Nitrosodi-n-propylamine | 3640 | 660 | 6250 | | 0 | 58 | 62 | 146 | | M2 |
| 1,2,4-Trichlorobenzene | 3340 | 660 | 6250 | | 0 | 53 | 58 | 133 | | M2 |
| 4-Chloro-3-methylphenol | 3500 | 1300 | 6250 | | 0 | 56 | 10 | 146 | | |
| Acenaphthene | 3610 | 660 | 6250 | | 0 | 58 | 58 | 138 | | |
| 4-Nitrophenol | 13100 | 3300 | 25000 | | 0 | 52 | 10 | 149 | | |
| 2,4-Dinitrotoluene | 3870 | 660 | 6250 | | 0 | 62 | 48 | 143 | | |
| Pentachlorophenol | 14400 | 3300 | 25000 | | 0 | 58 | 10 | 162 | | |
| Pyrene | 3740 | 660 | 6250 | | 0 | 60 | 46 | 152 | | |
| Surr: 2-Fluorophenol | 5250 | | 12500 | | 42 | 67 | 131 | | | S54 |
| Surr: Phenol-d5 | 6130 | | 12500 | | 49 | 60 | 133 | | | S54 |
| Surr: Nitrobenzene-d5 | 3060 | | 6250 | | 49 | 54 | 135 | | | S54 |
| Surr: 2-Fluorobiphenyl | 3280 | | 6250 | | 52 | 70 | 130 | | | S54 |
| Surr: 2,4,6-Tribromophenol | 7380 | | 12500 | | 59 | 44 | 151 | | | |
| Surr: 4-Terphenyl-d14 | 3180 | | 6250 | | 51 | 59 | 139 | | | S54 |



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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
01-Jun-10

QC Summary Report

Work Order:
10052504

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M2 = Matrix spike recovery was low, the method control sample recovery was acceptable.

S54 = Surrogate recovery was below laboratory acceptance limits.



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Date:
01-Jun-10

QC Summary Report

Work Order:
10052504

Method Blank

Type **MBLK** Test Code: **EPA Method SW8270C**

File ID: **10052627.D**

Batch ID: **24334**

Analysis Date: **05/27/2010 03:54**

Sample ID: **MBLK-24334**

Units: **µg/L**

Run ID: **MSD_16_100526A**

Prep Date: **05/26/2010 11:56**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Phenol | ND | 10 | | | | | | | | |
| 2-Chlorophenol | ND | 10 | | | | | | | | |
| 2-Nitrophenol | ND | 10 | | | | | | | | |
| 2,4-Dimethylphenol | ND | 10 | | | | | | | | |
| 2,4-Dichlorophenol | ND | 10 | | | | | | | | |
| 4-Chloro-3-methylphenol | ND | 20 | | | | | | | | |
| 2,4,6-Trichlorophenol | ND | 10 | | | | | | | | |
| 2,4-Dinitrophenol | ND | 100 | | | | | | | | |
| 4-Nitrophenol | ND | 50 | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | ND | 100 | | | | | | | | |
| Pentachlorophenol | ND | 50 | | | | | | | | |
| Surr: 2-Fluorophenol | 82.3 | | 200 | | 41 | 41 | 130 | | | |
| Surr: Phenol-d5 | 59.5 | | 200 | | 30 | 25 | 130 | | | |
| Surr: 2,4,6-Tribromophenol | 129 | | 200 | | 64 | 61 | 138 | | | |

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8270C**

File ID: **10052628.D**

Batch ID: **24334**

Analysis Date: **05/27/2010 04:19**

Sample ID: **LCS-24334**

Units: **µg/L**

Run ID: **MSD_16_100526A**

Prep Date: **05/26/2010 11:56**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Phenol | 34.4 | 10 | 100 | | 34 | 20 | 130 | | | |
| 2-Chlorophenol | 64.3 | 10 | 100 | | 64 | 58 | 130 | | | |
| 4-Chloro-3-methylphenol | 67.8 | 20 | 100 | | 68 | 52 | 130 | | | |
| 4-Nitrophenol | 129 | 50 | 400 | | 32 | 20 | 130 | | | |
| Pentachlorophenol | 301 | 50 | 400 | | 75 | 47 | 132 | | | |
| Surr: 2-Fluorophenol | 93.4 | | 200 | | 47 | 41 | 130 | | | |
| Surr: Phenol-d5 | 71.2 | | 200 | | 36 | 25 | 130 | | | |
| Surr: 2,4,6-Tribromophenol | 177 | | 200 | | 88 | 61 | 138 | | | |

Laboratory Control Spike Duplicate

Type **LCSD** Test Code: **EPA Method SW8270C**

File ID: **10052629.D**

Batch ID: **24334**

Analysis Date: **05/27/2010 04:45**

Sample ID: **LCSD-24334**

Units: **µg/L**

Run ID: **MSD_16_100526A**

Prep Date: **05/26/2010 11:56**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Phenol | 33.3 | 10 | 100 | | 33 | 20 | 130 | 34.42 | 3.5(26) | |
| 2-Chlorophenol | 63.3 | 10 | 100 | | 63 | 58 | 130 | 64.27 | 1.5(32) | |
| 4-Chloro-3-methylphenol | 70 | 20 | 100 | | 70 | 52 | 130 | 67.81 | 3.2(26) | |
| 4-Nitrophenol | 110 | 50 | 400 | | 28 | 20 | 130 | 128.9 | 15.6(40) | |
| Pentachlorophenol | 279 | 50 | 400 | | 70 | 47 | 132 | 301 | 7.6(33) | |
| Surr: 2-Fluorophenol | 90.8 | | 200 | | 45 | 41 | 130 | | | |
| Surr: Phenol-d5 | 66.6 | | 200 | | 33 | 25 | 130 | | | |
| Surr: 2,4,6-Tribromophenol | 154 | | 200 | | 77 | 61 | 138 | | | |

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8270C**

File ID: **10052632.D**

Batch ID: **24334**

Analysis Date: **05/27/2010 06:01**

Sample ID: **10052124-01AMS**

Units: **µg/L**

Run ID: **MSD_16_100526A**

Prep Date: **05/26/2010 11:56**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Phenol | 27.6 | 10 | 100 | | 0 | 28 | 10 | 130 | | |
| 2-Chlorophenol | 58.5 | 10 | 100 | | 0 | 58 | 40 | 130 | | |
| 4-Chloro-3-methylphenol | 59.2 | 20 | 100 | | 0 | 59 | 42 | 130 | | |
| 4-Nitrophenol | 85.5 | 50 | 400 | | 0 | 21 | 10 | 130 | | |
| Pentachlorophenol | 260 | 50 | 400 | | 0 | 65 | 33 | 155 | | |
| Surr: 2-Fluorophenol | 77.6 | | 200 | | 39 | 41 | 130 | | | S54 |
| Surr: Phenol-d5 | 54.9 | | 200 | | 27 | 25 | 130 | | | |
| Surr: 2,4,6-Tribromophenol | 144 | | 200 | | 72 | 61 | 138 | | | |



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Date:
01-Jun-10

QC Summary Report

Work Order:
10052504

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

S54 = Surrogate recovery was below laboratory acceptance limits.



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Date:
02-Jun-10

QC Summary Report

Work Order:
10052504

Method Blank

Type: **MBLK** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **052610.B\021SMPL.D**

Batch ID: **24333**

Analysis Date: **05/26/2010 13:03**

Sample ID: **MB-24333**

Units : **mg/L**

Run ID: **ICP/MS_100526A**

Prep Date: **05/26/2010 10:15**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------|--------|-------|--------|-----------|------|---------|---------|-----------|-------------|------|
| Boron (B) | ND | 0.1 | | | | | | | | |
| Sodium (Na) | ND | 0.5 | | | | | | | | |
| Chromium (Cr) | ND | 0.005 | | | | | | | | |
| Manganese (Mn) | ND | 0.005 | | | | | | | | |
| Iron (Fe) | ND | 0.3 | | | | | | | | |
| Nickel (Ni) | ND | 0.01 | | | | | | | | |
| Copper (Cu) | ND | 0.01 | | | | | | | | |
| Zinc (Zn) | ND | 0.1 | | | | | | | | |
| Arsenic (As) | ND | 0.005 | | | | | | | | |
| Selenium (Se) | ND | 0.005 | | | | | | | | |
| Silver (Ag) | ND | 0.005 | | | | | | | | |
| Cadmium (Cd) | ND | 0.005 | | | | | | | | |
| Barium (Ba) | ND | 0.005 | | | | | | | | |
| Mercury (Hg) | ND | 0.001 | | | | | | | | |
| Lead (Pb) | ND | 0.005 | | | | | | | | |

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **052610.B\022_LCS.D**

Batch ID: **24333**

Analysis Date: **05/26/2010 13:09**

Sample ID: **LCS-24333**

Units : **mg/L**

Run ID: **ICP/MS_100526A**

Prep Date: **05/26/2010 10:15**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------|--------|-------|--------|-----------|------|---------|---------|-----------|-------------|------|
| Boron (B) | 0.231 | 0.1 | 0.25 | | 92 | 74 | 132 | | | |
| Sodium (Na) | 50.5 | 0.5 | 50 | | 101 | 80 | 118 | | | |
| Chromium (Cr) | 0.249 | 0.005 | 0.25 | | 99.8 | 80 | 124 | | | |
| Manganese (Mn) | 2.49 | 0.005 | 2.5 | | 99.5 | 83 | 120 | | | |
| Iron (Fe) | 51.9 | 0.3 | 50 | | 104 | 83 | 119 | | | |
| Nickel (Ni) | 0.253 | 0.01 | 0.25 | | 101 | 83 | 123 | | | |
| Copper (Cu) | 0.256 | 0.01 | 0.25 | | 103 | 85 | 123 | | | |
| Zinc (Zn) | 0.258 | 0.1 | 0.25 | | 103 | 82 | 123 | | | |
| Arsenic (As) | 0.244 | 0.005 | 0.25 | | 97 | 85 | 118 | | | |
| Selenium (Se) | 0.245 | 0.005 | 0.25 | | 98 | 85 | 118 | | | |
| Silver (Ag) | 0.26 | 0.005 | 0.25 | | 104 | 79 | 118 | | | |
| Cadmium (Cd) | 0.255 | 0.005 | 0.25 | | 102 | 85 | 121 | | | |
| Barium (Ba) | 2.52 | 0.005 | 2.5 | | 101 | 85 | 132 | | | |
| Mercury (Hg) | 0.005 | 0.001 | 0.005 | | 100 | 70 | 122 | | | |
| Lead (Pb) | 0.251 | 0.005 | 0.25 | | 101 | 85 | 120 | | | |

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **052610.B\025SMPL.D**

Batch ID: **24333**

Analysis Date: **05/26/2010 13:26**

Sample ID: **10052503-02AMS**

Units : **mg/L**

Run ID: **ICP/MS_100526A**

Prep Date: **05/26/2010 10:15**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------|---------|-------|--------|-----------|------|---------|---------|-----------|-------------|------|
| Boron (B) | 0.302 | 0.1 | 0.25 | 0 | 121 | 63 | 150 | | | |
| Sodium (Na) | 61.3 | 0.5 | 50 | 8.325 | 106 | 61 | 135 | | | |
| Chromium (Cr) | 0.271 | 0.005 | 0.25 | 0.01109 | 104 | 70 | 133 | | | |
| Manganese (Mn) | 2.57 | 0.005 | 2.5 | 0.01089 | 102 | 70 | 130 | | | |
| Iron (Fe) | 53.9 | 0.3 | 50 | 0.7181 | 106 | 70 | 130 | | | |
| Nickel (Ni) | 0.264 | 0.01 | 0.25 | 0 | 106 | 70 | 132 | | | |
| Copper (Cu) | 0.265 | 0.01 | 0.25 | 0 | 106 | 70 | 131 | | | |
| Zinc (Zn) | 0.292 | 0.1 | 0.25 | 0 | 117 | 65 | 143 | | | |
| Arsenic (As) | 0.259 | 0.005 | 0.25 | 0 | 103 | 70 | 130 | | | |
| Selenium (Se) | 0.259 | 0.005 | 0.25 | 0 | 104 | 70 | 131 | | | |
| Silver (Ag) | 0.267 | 0.005 | 0.25 | 0 | 107 | 70 | 130 | | | |
| Cadmium (Cd) | 0.264 | 0.005 | 0.25 | 0 | 106 | 70 | 130 | | | |
| Barium (Ba) | 2.83 | 0.005 | 2.5 | 0.1708 | 107 | 70 | 143 | | | |
| Mercury (Hg) | 0.00485 | 0.001 | 0.005 | 0 | 97 | 68 | 130 | | | |
| Lead (Pb) | 0.259 | 0.005 | 0.25 | 0 | 104 | 70 | 130 | | | |



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Date:
02-Jun-10

QC Summary Report

Work Order:
10052504

Sample Matrix Spike Duplicate

Type: MSD

Test Code: EPA Method SW6020 / SW6020A

File ID: 052610.B\026SMPL.D\

Batch ID: 24333

Analysis Date: 05/26/2010 13:32

Sample ID: 10052503-02AMSD

Units : mg/L

Run ID: ICP/MS_100526A

Prep Date: 05/26/2010 10:15

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|----------------|---------|-------|--------|-----------|------|---------|---------|-----------|-------------|------|
| Boron (B) | 0.312 | 0.1 | 0.25 | 0 | 125 | 63 | 150 | 0.3016 | 3.2(20) | |
| Sodium (Na) | 63.9 | 0.5 | 50 | 8.325 | 111 | 61 | 135 | 61.25 | 4.3(20) | |
| Chromium (Cr) | 0.28 | 0.005 | 0.25 | 0.01109 | 108 | 70 | 133 | 0.2706 | 3.4(20) | |
| Manganese (Mn) | 2.66 | 0.005 | 2.5 | 0.01089 | 106 | 70 | 130 | 2.569 | 3.4(20) | |
| Iron (Fe) | 55.7 | 0.3 | 50 | 0.7181 | 110 | 70 | 130 | 53.88 | 3.4(20) | |
| Nickel (Ni) | 0.273 | 0.01 | 0.25 | 0 | 109 | 70 | 132 | 0.264 | 3.5(20) | |
| Copper (Cu) | 0.274 | 0.01 | 0.25 | 0 | 110 | 70 | 131 | 0.2652 | 3.3(20) | |
| Zinc (Zn) | 0.301 | 0.1 | 0.25 | 0 | 120 | 65 | 143 | 0.292 | 3.0(20) | |
| Arsenic (As) | 0.27 | 0.005 | 0.25 | 0 | 108 | 70 | 130 | 0.2586 | 4.2(20) | |
| Selenium (Se) | 0.269 | 0.005 | 0.25 | 0 | 108 | 70 | 131 | 0.2593 | 3.6(20) | |
| Silver (Ag) | 0.28 | 0.005 | 0.25 | 0 | 112 | 70 | 130 | 0.2671 | 4.9(20) | |
| Cadmium (Cd) | 0.277 | 0.005 | 0.25 | 0 | 111 | 70 | 130 | 0.264 | 4.9(20) | |
| Barium (Ba) | 2.98 | 0.005 | 2.5 | 0.1708 | 112 | 70 | 143 | 2.834 | 5.0(20) | |
| Mercury (Hg) | 0.00504 | 0.001 | 0.005 | 0 | 101 | 68 | 130 | 0.004854 | 3.8(20) | |
| Lead (Pb) | 0.269 | 0.005 | 0.25 | 0 | 108 | 70 | 130 | 0.2592 | 3.7(20) | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
02-Jun-10

QC Summary Report

Work Order:
10052504

Method Blank

Type: **MBLK** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **052610.B\056SMPL.D**

Batch ID: **24335**

Analysis Date: **05/26/2010 16:24**

Sample ID: **MB-24335**

Units: **mg/Kg**

Run ID: **ICP/MS_100526C**

Prep Date: **05/26/2010 12:03**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Chromium (Cr) | ND | 1 | | | | | | | | |
| Arsenic (As) | ND | 1 | | | | | | | | |
| Selenium (Se) | ND | 1 | | | | | | | | |
| Silver (Ag) | ND | 1 | | | | | | | | |
| Cadmium (Cd) | ND | 1 | | | | | | | | |
| Barium (Ba) | ND | 1 | | | | | | | | |
| Mercury (Hg) | ND | 0.2 | | | | | | | | |
| Lead (Pb) | ND | 1 | | | | | | | | |

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **052610.B\057_LCS.D**

Batch ID: **24335**

Analysis Date: **05/26/2010 16:30**

Sample ID: **LCS-24335**

Units: **mg/Kg**

Run ID: **ICP/MS_100526C**

Prep Date: **05/26/2010 12:03**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Chromium (Cr) | 24.2 | 1 | 25 | | 97 | 75 | 120 | | | |
| Arsenic (As) | 26.1 | 1 | 25 | | 105 | 80 | 120 | | | |
| Selenium (Se) | 27.1 | 1 | 25 | | 109 | 80 | 120 | | | |
| Silver (Ag) | 27.9 | 1 | 25 | | 112 | 62 | 132 | | | |
| Cadmium (Cd) | 26.7 | 1 | 25 | | 107 | 80 | 120 | | | |
| Barium (Ba) | 268 | 1 | 250 | | 107 | 78 | 123 | | | |
| Mercury (Hg) | 0.448 | 0.2 | 0.5 | | 90 | 68 | 140 | | | |
| Lead (Pb) | 27 | 1 | 25 | | 108 | 80 | 122 | | | |

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **052610.B\061SMPL.D**

Batch ID: **24335**

Analysis Date: **05/26/2010 16:56**

Sample ID: **10052504-01AMS**

Units: **mg/Kg**

Run ID: **ICP/MS_100526C**

Prep Date: **05/26/2010 12:03**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Chromium (Cr) | 45 | 1 | 25 | 19.41 | 102 | 50 | 150 | | | |
| Arsenic (As) | 37.8 | 1 | 25 | 11.57 | 105 | 60 | 130 | | | |
| Selenium (Se) | 26.7 | 1 | 25 | 0 | 107 | 69 | 130 | | | |
| Silver (Ag) | 29.3 | 1 | 25 | 0 | 117 | 62 | 132 | | | |
| Cadmium (Cd) | 28.7 | 1 | 25 | 0 | 115 | 70 | 130 | | | |
| Barium (Ba) | 540 | 1 | 250 | 269.4 | 108 | 58 | 150 | | | |
| Mercury (Hg) | 0.496 | 0.2 | 0.5 | 0 | 99 | 65 | 150 | | | |
| Lead (Pb) | 36.4 | 1 | 25 | 8.969 | 110 | 68 | 141 | | | |

Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **052610.B\062SMPL.D**

Batch ID: **24335**

Analysis Date: **05/26/2010 17:02**

Sample ID: **10052504-01AMSD**

Units: **mg/Kg**

Run ID: **ICP/MS_100526C**

Prep Date: **05/26/2010 12:03**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Chromium (Cr) | 47.3 | 1 | 25 | 19.41 | 111 | 50 | 150 | 45.02 | 4.9(20) | |
| Arsenic (As) | 40.4 | 1 | 25 | 11.57 | 115 | 60 | 130 | 37.78 | 6.6(20) | |
| Selenium (Se) | 26.9 | 1 | 25 | 0 | 108 | 69 | 130 | 26.65 | 1.1(20) | |
| Silver (Ag) | 29.7 | 1 | 25 | 0 | 119 | 62 | 132 | 29.34 | 1.2(20) | |
| Cadmium (Cd) | 29 | 1 | 25 | 0 | 116 | 70 | 130 | 28.69 | 1.0(20) | |
| Barium (Ba) | 643 | 1 | 250 | 269.4 | 150 | 58 | 150 | 540 | 17.5(20) | |
| Mercury (Hg) | 0.534 | 0.2 | 0.5 | 0 | 107 | 65 | 150 | 0.4964 | 7.3(20) | |
| Lead (Pb) | 39.2 | 1 | 25 | 8.969 | 121 | 68 | 141 | 36.38 | 7.5(20) | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
02-Jun-10

QC Summary Report

Work Order:
10052504

Method Blank

Type **MBLK** Test Code: **SM4500-NORGC / SM4500NH3D**

File ID: Batch ID: **W0601TK** Analysis Date: **06/01/2010 12:38**
Sample ID: **MBLK-W0601TK** Units : mg/L Run ID: **WETLAB_100601C** Prep Date: **06/01/2010 12:38**
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDPRefVal %RPD(Limit) Qual
Nitrogen, Kjeldahl, Total ND 0.25

Laboratory Control Spike

Type **LCS** Test Code: **SM4500-NORGC / SM4500NH3D**

File ID: Batch ID: **W0601TK** Analysis Date: **06/01/2010 12:35**
Sample ID: **LCS-W0601TK** Units : mg/L Run ID: **WETLAB_100601C** Prep Date: **06/01/2010 12:35**
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDPRefVal %RPD(Limit) Qual
Nitrogen, Kjeldahl, Total 4.95 0.25 5 99 65 135

Sample Matrix Spike

Type **MS** Test Code: **SM4500-NORGC / SM4500NH3D**

File ID: Batch ID: **W0601TK** Analysis Date: **06/01/2010 12:50**
Sample ID: **10051921-01AMS** Units : mg/L Run ID: **WETLAB_100601C** Prep Date: **06/01/2010 12:50**
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDPRefVal %RPD(Limit) Qual
Nitrogen, Kjeldahl, Total 33 1.3 5 25 160 55 142 M3

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **SM4500-NORGC / SM4500NH3D**

File ID: Batch ID: **W0601TK** Analysis Date: **06/01/2010 12:53**
Sample ID: **10051921-01AMSD** Units : mg/L Run ID: **WETLAB_100601C** Prep Date: **06/01/2010 12:53**
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDPRefVal %RPD(Limit) Qual
Nitrogen, Kjeldahl, Total 28 1.3 5 25 60 55 142 33 16.4(20)

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M3 = The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to the spike level. The method control sample recovery was acceptable.



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Date:
04-Jun-10

QC Summary Report

Work Order:
10052504

Method Blank

Type: **MBLK** Test Code: **EPA Method 1664A**

File ID: Batch ID: **W0602OG** Analysis Date: **06/02/2010 00:00**
Sample ID: **MBLK-W0602OG** Units : mg/L Run ID: **WETLAB_100602C** Prep Date: **06/02/2010 00:00**
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDPRefVal %RPD(Limit) Qual
Oil & Grease, HEM ND 5

Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method 1664A**

File ID: Batch ID: **W0602OG** Analysis Date: **06/02/2010 00:00**
Sample ID: **LCS-W0602OG** Units : mg/L Run ID: **WETLAB_100602C** Prep Date: **06/02/2010 00:00**
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDPRefVal %RPD(Limit) Qual
Oil & Grease, HEM 39.5 5 40 99 78 114

Sample Matrix Spike

Type: **MS** Test Code: **EPA Method 1664A**

File ID: Batch ID: **W0602OG** Analysis Date: **06/02/2010 00:00**
Sample ID: **10052504-04AMS** Units : mg/L Run ID: **WETLAB_100602C** Prep Date: **06/02/2010 00:00**
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDPRefVal %RPD(Limit) Qual
Oil & Grease, HEM 40.5 5 40 0 101 78 114

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

HEM = Hexane Extractable Material



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Date:
02-Jun-10

QC Summary Report

Work Order:
10052504

Laboratory Control Spike

Type: **LCS**

Test Code: **EPA Method SW9045D**

File ID:

Batch ID: **S0601PH**

Analysis Date: **06/01/2010 15:15**

Sample ID: **LCS-S0601PH**

Units : **pH Units**

Run ID: **WETLAB_100601B**

Prep Date: **06/01/2010 15:15**

Analyte

Result

PQL

SpkVal

SpkRefVal

%REC

LCL(ME)

UCL(ME)

RPDRefVal

%RPD(Limit)

Qual

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| pH | 4.94 | 1.7 | 5 | | 99 | 90 | 110 | | | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
02-Jun-10

QC Summary Report

Work Order:
10052504

Laboratory Control Spike

Type: LCS

Test Code: EPA Method 150.2 / SM4500HB / SW9040C

File ID:

Batch ID: W0526PH

Analysis Date: 05/26/2010 11:03

Sample ID: LCS-W0526PH

Units : pH Units

Run ID: WETLAB_100526A

Prep Date: 05/26/2010 11:03

Analyte

Result

PQL

SpkVal

SpkRefVal

%REC

LCL(ME)

UCL(ME)

RPDRefVal

%RPD(Limit)

Qual

| | | | | | | | | | | |
|----|------|-----|---|------|----|-----|--|--|--|--|
| pH | 4.99 | 1.7 | 5 | 99.8 | 90 | 110 | | | | |
|----|------|-----|---|------|----|-----|--|--|--|--|

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
02-Jun-10

QC Summary Report

Work Order:
10052504

Method Blank

Type **MBLK** Test Code: **EPA Method 365.3 / SM4500PE**

| | | | | | | | | | | |
|--------------------------|---------------------|---------------------|-------------------------------|--|------|---------|---------|-----------|-------------|------|
| File ID: | | | Batch ID: W0602TP | Analysis Date: 06/02/2010 00:00 | | | | | | |
| Sample ID: | MBLK-W0602TP | Units : mg/L | Run ID: WETLAB_100602B | Prep Date: 06/02/2010 00:00 | | | | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Phosphorus, Total (As P) | ND | 0.1 | | | | | | | | |

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method 365.3 / SM4500PE**

| | | | | | | | | | | |
|--------------------------|--------------------|---------------------|-------------------------------|--|------|---------|---------|-----------|-------------|------|
| File ID: | | | Batch ID: W0602TP | Analysis Date: 06/02/2010 00:00 | | | | | | |
| Sample ID: | LCS-W0602TP | Units : mg/L | Run ID: WETLAB_100602B | Prep Date: 06/02/2010 00:00 | | | | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Phosphorus, Total (As P) | 0.972 | 0.1 | 1 | | 97 | 73 | 127 | | | |

Sample Matrix Spike

Type **MS** Test Code: **EPA Method 365.3 / SM4500PE**

| | | | | | | | | | | |
|--------------------------|-----------------------|---------------------|-------------------------------|--|-------|---------|---------|-----------|-------------|------|
| File ID: | | | Batch ID: W0602TP | Analysis Date: 06/02/2010 00:00 | | | | | | |
| Sample ID: | 10052849-01AMS | Units : mg/L | Run ID: WETLAB_100602B | Prep Date: 06/02/2010 00:00 | | | | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Phosphorus, Total (As P) | 1.08 | 0.1 | 1 | | 0 108 | 73 | 127 | | | |

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method 365.3 / SM4500PE**

| | | | | | | | | | | |
|--------------------------|------------------------|---------------------|-------------------------------|--|-------|---------|---------|-----------|-------------|------|
| File ID: | | | Batch ID: W0602TP | Analysis Date: 06/02/2010 00:00 | | | | | | |
| Sample ID: | 10052849-01AMSD | Units : mg/L | Run ID: WETLAB_100602B | Prep Date: 06/02/2010 00:00 | | | | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Phosphorus, Total (As P) | 1.1 | 0.1 | 1 | | 0 110 | 73 | 127 | 1.08 | 1.8(20) | |

Comments:

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Date:
02-Jun-10

QC Summary Report

Work Order:
10052504

Method Blank

Type **MBLK** Test Code: **SM2540C**

File ID: Batch ID: **W0525DS** Analysis Date: **05/26/2010 00:00**
Sample ID: **MBLK-W0525DS** Units : **mg/L** Run ID: **WETLAB_100525A** Prep Date: **05/26/2010 00:00**
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual
Solids, Total Dissolved (TDS) ND 10

Laboratory Control Spike

Type **LCS** Test Code: **SM2540C**

File ID: Batch ID: **W0525DS** Analysis Date: **05/26/2010 00:00**
Sample ID: **LCS-W0525DS** Units : **mg/L** Run ID: **WETLAB_100525A** Prep Date: **05/26/2010 00:00**
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual
Solids, Total Dissolved (TDS) 91 10 100 91 80 120

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
01-Jun-10

QC Summary Report

Work Order:
10052504

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B / E**

File ID: **7A05271072.D**

Batch ID: **24358**

Analysis Date: **05/30/2010 15:26**

Sample ID: **MBLK-24358**

Units: **mg/Kg**

Run ID: **FID_7_100528B**

Prep Date: **05/28/2010 15:05**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-E (DRO) | ND | 10 | | | | | | | | |
| TPH-E (ORO) | ND | 10 | | | | | | | | |
| Surr: Nonane | 6.72 | | 6 | | 112 | 67 | 156 | | | |

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B / E**

File ID: **7A05271073.D**

Batch ID: **24358**

Analysis Date: **05/30/2010 15:52**

Sample ID: **LCS-24358**

Units: **mg/Kg**

Run ID: **FID_7_100528B**

Prep Date: **05/28/2010 15:05**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-E (DRO) | 105 | 5 | 100 | | 105 | 70 | 130 | | | |
| Surr: Nonane | 6.42 | | 6 | | 107 | 67 | 156 | | | |

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B / E**

File ID: **7A05271085.D**

Batch ID: **24358**

Analysis Date: **05/30/2010 21:13**

Sample ID: **10052840-01AMS**

Units: **mg/Kg**

Run ID: **FID_7_100528B**

Prep Date: **05/28/2010 15:05**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-E (DRO) | 112 | 5 | 100 | 7.082 | 105 | 51 | 141 | | | |
| Surr: Nonane | 6.5 | | 6 | | 108 | 67 | 156 | | | |

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B / E**

File ID: **7A05271086.D**

Batch ID: **24358**

Analysis Date: **05/30/2010 21:39**

Sample ID: **10052840-01AMSD**

Units: **mg/Kg**

Run ID: **FID_7_100528B**

Prep Date: **05/28/2010 15:05**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-E (DRO) | 113 | 5 | 100 | 7.082 | 106 | 51 | 141 | 111.7 | 1.4(40) | |
| Surr: Nonane | 7.75 | | 6 | | 129 | 67 | 156 | | | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
01-Jun-10

QC Summary Report

Work Order:
10052504

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B / E**

File ID: **2A05211067.D**

Batch ID: **24337**

Analysis Date: **05/26/2010 13:44**

Sample ID: **MBLK-24337**

Units : **mg/L**

Run ID: **FID_2_100526A**

Prep Date: **05/26/2010 12:20**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-E (DRO) | ND | 0.5 | | | | | | | | |
| TPH-E (ORO) | ND | 0.5 | | | | | | | | |
| Surr: Nonane | 0.112 | | 0.15 | | 75 | 57 | 147 | | | |

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B / E**

File ID: **2A05211069.D**

Batch ID: **24337**

Analysis Date: **05/26/2010 14:34**

Sample ID: **LCS-24337**

Units : **mg/L**

Run ID: **FID_2_100526A**

Prep Date: **05/26/2010 12:20**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------|--------|------|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-E (DRO) | 2.37 | 0.05 | 2.5 | | 0 | 67 | 130 | | | |
| Surr: Nonane | 0.126 | | 0.15 | | 84 | 57 | 147 | | | |

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B / E**

File ID: **2A05211095.D**

Batch ID: **24337**

Analysis Date: **05/27/2010 16:16**

Sample ID: **10052521-03AMS**

Units : **mg/L**

Run ID: **FID_2_100526A**

Prep Date: **05/26/2010 12:20**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------|--------|------|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-E (DRO) | 10.5 | 0.05 | 10 | 1.24 | 93 | 49 | 150 | | | |
| Surr: Nonane | 0.242 | | 0.15 | | 161 | 57 | 147 | | | S55 |

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B / E**

File ID: **2A05211096.D**

Batch ID: **24337**

Analysis Date: **05/27/2010 16:41**

Sample ID: **10052521-03AMSD**

Units : **mg/L**

Run ID: **FID_2_100526A**

Prep Date: **05/26/2010 12:20**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------|--------|------|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-E (DRO) | 9.93 | 0.05 | 10 | 1.24 | 87 | 49 | 150 | 10.5 | 5.5(38) | |
| Surr: Nonane | 0.205 | | 0.15 | | 137 | 57 | 147 | | | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

S55 = Surrogate recovery was above laboratory acceptance limits.



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Date:
08-Jun-10

QC Summary Report

Work Order:
10052504

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015**

File ID: C:\HPCHEM\MS06\DATA\100602\10060217.D

Batch ID: **MS06S4340B**

Analysis Date: **06/02/2010 15:57**

Sample ID: **MBLK MS06S4340B**

Units : **mg/Kg**

Run ID: **MSD_06_100602B**

Prep Date: **06/02/2010 15:57**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-P (GRO) | ND | 10 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.25 | | 0.2 | | 125 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.186 | | 0.2 | | 93 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.212 | | 0.2 | | 106 | 70 | 130 | | | |

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015**

File ID: C:\HPCHEM\MS06\DATA\100602\10060219.D

Batch ID: **MS06S4340B**

Analysis Date: **06/02/2010 16:47**

Sample ID: **LCS MS06S4340B**

Units : **mg/Kg**

Run ID: **MSD_06_100602B**

Prep Date: **06/02/2010 16:47**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-P (GRO) | 16.6 | 2 | 16 | | 104 | 70 | 139 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.509 | | 0.4 | | 127 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.371 | | 0.4 | | 93 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.425 | | 0.4 | | 106 | 70 | 130 | | | |

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015**

File ID: C:\HPCHEM\MS06\DATA\100602\10060220.D

Batch ID: **MS06S4340B**

Analysis Date: **06/02/2010 17:11**

Sample ID: **10052504-03AGS**

Units : **mg/Kg**

Run ID: **MSD_06_100602B**

Prep Date: **06/02/2010 17:11**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-P (GRO) | 15.5 | 2 | 16 | 0 | 97 | 57 | 147 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.524 | | 0.4 | | 131 | 70 | 130 | | | S55 |
| Surr: Toluene-d8 | 0.359 | | 0.4 | | 90 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.442 | | 0.4 | | 111 | 70 | 130 | | | |

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015**

File ID: C:\HPCHEM\MS06\DATA\100602\10060221.D

Batch ID: **MS06S4340B**

Analysis Date: **06/02/2010 17:36**

Sample ID: **10052504-03AGSD**

Units : **mg/Kg**

Run ID: **MSD_06_100602B**

Prep Date: **06/02/2010 17:36**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-P (GRO) | 15.6 | 2 | 16 | 0 | 98 | 57 | 147 | 15.47 | 1.1(20) | |
| Surr: 1,2-Dichloroethane-d4 | 0.521 | | 0.4 | | 130 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.362 | | 0.4 | | 91 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.446 | | 0.4 | | 112 | 70 | 130 | | | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

S55 = Surrogate recovery was above laboratory acceptance limits.



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Date:
01-Jun-10

QC Summary Report

Work Order:
10052504

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015**

File ID: **10052705.D**

Batch ID: **MS09W0527B**

Analysis Date: **05/27/2010 18:28**

Sample ID: **MBLK MS09W0527B**

Units : **mg/L**

Run ID: **MSD_09_100527A**

Prep Date: **05/27/2010 18:28**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-P (GRO) | ND | 0.5 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.0114 | | 0.01 | | 114 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.0095 | | 0.01 | | 95 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.0104 | | 0.01 | | 104 | 70 | 130 | | | |

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015**

File ID: **10052704.D**

Batch ID: **MS09W0527B**

Analysis Date: **05/27/2010 18:06**

Sample ID: **GLCS MS09W0527A**

Units : **mg/L**

Run ID: **MSD_09_100527A**

Prep Date: **05/27/2010 18:06**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|---------|------|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-P (GRO) | 0.374 | 0.05 | 0.4 | | 94 | 70 | 130 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.0116 | | 0.01 | | 116 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.00946 | | 0.01 | | 95 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.0104 | | 0.01 | | 104 | 70 | 130 | | | |

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015**

File ID: **10052720.D**

Batch ID: **MS09W0527B**

Analysis Date: **05/28/2010 00:07**

Sample ID: **10052521-01AGS**

Units : **mg/L**

Run ID: **MSD_09_100527A**

Prep Date: **05/28/2010 00:07**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|--------|------|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-P (GRO) | 1.93 | 0.25 | 2 | 0 | 96 | 58 | 135 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.0538 | | 0.05 | | 108 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.0473 | | 0.05 | | 95 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.0494 | | 0.05 | | 99 | 70 | 130 | | | |

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015**

File ID: **10052721.D**

Batch ID: **MS09W0527B**

Analysis Date: **05/28/2010 00:30**

Sample ID: **10052521-01AGSD**

Units : **mg/L**

Run ID: **MSD_09_100527A**

Prep Date: **05/28/2010 00:30**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|--------|------|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-P (GRO) | 1.78 | 0.25 | 2 | 0 | 89 | 58 | 135 | 1.926 | 8.0(20) | |
| Surr: 1,2-Dichloroethane-d4 | 0.0539 | | 0.05 | | 108 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.0479 | | 0.05 | | 96 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.0504 | | 0.05 | | 101 | 70 | 130 | | | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
08-Jun-10

QC Summary Report

Work Order:
10052504

Method Blank

Type **MBLK** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS06\DATA\100602\10060217.D**

Batch ID: **MS06S4340A**

Analysis Date: **06/02/2010 15:57**

Sample ID: **MBLK MS06S4340A**

Units: **µg/Kg**

Run ID: **MSD_06_100602B**

Prep Date: **06/02/2010 15:57**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|------------------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Dichlorodifluoromethane | ND | 20 | | | | | | | | |
| Chloromethane | ND | 40 | | | | | | | | |
| Vinyl chloride | ND | 20 | | | | | | | | |
| Chloroethane | ND | 20 | | | | | | | | |
| Bromomethane | ND | 40 | | | | | | | | |
| Trichlorofluoromethane | ND | 20 | | | | | | | | |
| 1,1-Dichloroethene | ND | 20 | | | | | | | | |
| Dichloromethane | ND | 40 | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 20 | | | | | | | | |
| 1,1-Dichloroethane | ND | 20 | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 20 | | | | | | | | |
| Bromochloromethane | ND | 20 | | | | | | | | |
| Chloroform | ND | 20 | | | | | | | | |
| 2,2-Dichloropropane | ND | 20 | | | | | | | | |
| 1,2-Dichloroethane | ND | 20 | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 20 | | | | | | | | |
| 1,1-Dichloropropene | ND | 20 | | | | | | | | |
| Carbon tetrachloride | ND | 20 | | | | | | | | |
| Benzene | ND | 20 | | | | | | | | |
| Dibromomethane | ND | 20 | | | | | | | | |
| 1,2-Dichloropropane | ND | 20 | | | | | | | | |
| Trichloroethene | ND | 20 | | | | | | | | |
| Bromodichloromethane | ND | 20 | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 20 | | | | | | | | |
| trans-1,3-Dichloropropene | ND | 20 | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 20 | | | | | | | | |
| Toluene | ND | 20 | | | | | | | | |
| 1,3-Dichloropropane | ND | 20 | | | | | | | | |
| Dibromochloromethane | ND | 20 | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 40 | | | | | | | | |
| Tetrachloroethene | ND | 20 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 20 | | | | | | | | |
| Chlorobenzene | ND | 20 | | | | | | | | |
| Ethylbenzene | ND | 20 | | | | | | | | |
| m,p-Xylene | ND | 20 | | | | | | | | |
| Bromoform | ND | 20 | | | | | | | | |
| Styrene | ND | 20 | | | | | | | | |
| o-Xylene | ND | 20 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 20 | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 40 | | | | | | | | |
| Isopropylbenzene | ND | 20 | | | | | | | | |
| Bromobenzene | ND | 20 | | | | | | | | |
| n-Propylbenzene | ND | 20 | | | | | | | | |
| 4-Chlorotoluene | ND | 20 | | | | | | | | |
| 2-Chlorotoluene | ND | 20 | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 20 | | | | | | | | |
| tert-Butylbenzene | ND | 20 | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 20 | | | | | | | | |
| sec-Butylbenzene | ND | 20 | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 20 | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 20 | | | | | | | | |
| 4-Isopropyltoluene | ND | 20 | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 20 | | | | | | | | |
| n-Butylbenzene | ND | 20 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 60 | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 40 | | | | | | | | |
| Naphthalene | ND | 40 | | | | | | | | |
| Hexachlorobutadiene | ND | 40 | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 40 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 250 | | 200 | | 125 | 70 | 130 | | | |
| Surr: Toluene-d8 | 186 | | 200 | | 93 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 212 | | 200 | | 106 | 70 | 130 | | | |



Alpha Analytical, Inc.

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Date:
08-Jun-10

QC Summary Report

Work Order:
10052504

Laboratory Control Spike

Type LCS

Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS06\DATA\100602\10060218.D

Batch ID: MS06S4340A

Analysis Date: 06/02/2010 16:22

Sample ID: LCS MS06S4340A

Units: µg/Kg

Run ID: MSD_06_100602B

Prep Date: 06/02/2010 16:22

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| 1,1-Dichloroethene | 303 | 20 | 400 | | 76 | 10 | 143 | | | |
| Benzene | 379 | 10 | 400 | | 95 | 70 | 136 | | | |
| Trichloroethene | 586 | 20 | 400 | | 146 | 70 | 138 | | | L51 |
| Toluene | 341 | 10 | 400 | | 85 | 70 | 135 | | | |
| Chlorobenzene | 330 | 20 | 400 | | 82 | 70 | 135 | | | |
| Ethylbenzene | 358 | 10 | 400 | | 90 | 70 | 137 | | | |
| m,p-Xylene | 341 | 10 | 400 | | 85 | 70 | 143 | | | |
| o-Xylene | 340 | 10 | 400 | | 85 | 70 | 143 | | | |
| Surr: 1,2-Dichloroethane-d4 | 519 | | 400 | | 130 | 70 | 130 | | | |
| Surr: Toluene-d8 | 379 | | 400 | | 95 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 446 | | 400 | | 112 | 70 | 130 | | | |

Sample Matrix Spike

Type MS

Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS06\DATA\100607\10060728.D

Batch ID: MS06S4340A

Analysis Date: 06/07/2010 19:46

Sample ID: 10052504-03AMS

Units: µg/Kg

Run ID: MSD_06_100602B

Prep Date: 06/07/2010 19:46

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| 1,1-Dichloroethene | 344 | 20 | 400 | | 86 | 10 | 143 | | | |
| Benzene | 502 | 10 | 400 | | 125 | 57 | 143 | | | |
| Trichloroethene | 471 | 20 | 400 | | 118 | 52 | 154 | | | |
| Toluene | 478 | 10 | 400 | | 119 | 53 | 142 | | | |
| Chlorobenzene | 444 | 20 | 400 | | 111 | 55 | 142 | | | |
| Ethylbenzene | 450 | 10 | 400 | | 113 | 56 | 145 | | | |
| m,p-Xylene | 482 | 10 | 400 | | 121 | 53 | 154 | | | |
| o-Xylene | 488 | 10 | 400 | | 122 | 60 | 148 | | | |
| Surr: 1,2-Dichloroethane-d4 | 359 | | 400 | | 90 | 70 | 130 | | | |
| Surr: Toluene-d8 | 411 | | 400 | | 103 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 406 | | 400 | | 102 | 70 | 130 | | | |

Sample Matrix Spike Duplicate

Type MSD

Test Code: EPA Method SW8260B

File ID: C:\HPCHEM\MS06\DATA\100604\10060415.D

Batch ID: MS06S4340A

Analysis Date: 06/04/2010 16:56

Sample ID: 10052504-03AMSD

Units: µg/Kg

Run ID: MSD_06_100602B

Prep Date: 06/04/2010 16:56

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| 1,1-Dichloroethene | 549 | 20 | 400 | | 137 | 10 | 143 | 344.4 | 45.9(20) | R5 |
| Benzene | 436 | 10 | 400 | | 109 | 57 | 143 | 501.6 | 14.1(20) | |
| Trichloroethene | 437 | 20 | 400 | | 109 | 52 | 154 | 471.1 | 7.5(20) | |
| Toluene | 403 | 10 | 400 | | 101 | 53 | 142 | 477.6 | 16.9(20) | |
| Chlorobenzene | 409 | 20 | 400 | | 102 | 55 | 142 | 444.4 | 8.3(20) | |
| Ethylbenzene | 410 | 10 | 400 | | 103 | 56 | 145 | 450.3 | 9.3(20) | |
| m,p-Xylene | 438 | 10 | 400 | | 109 | 53 | 154 | 482.1 | 9.6(20) | |
| o-Xylene | 422 | 10 | 400 | | 105 | 60 | 148 | 488 | 14.6(20) | |
| Surr: 1,2-Dichloroethane-d4 | 442 | | 400 | | 110 | 70 | 130 | | | |
| Surr: Toluene-d8 | 392 | | 400 | | 98 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 400 | | 400 | | 100 | 70 | 130 | | | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

L51 = Analyte recovery was above acceptance limits for the LCS, but was acceptable in the MS/MSD.

R5 = MS/MSD RPD exceeded the laboratory control limit. Recovery met acceptance criteria.



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Date:
01-Jun-10

QC Summary Report

Work Order:
10052504

Method Blank

Type **MBLK** Test Code: **EPA Method SW8260B**

File ID: **10052705.D**

Batch ID: **MS09W0527A**

Analysis Date: **05/27/2010 18:28**

Sample ID: **MBLK MS09W0527A**

Units: **µg/L**

Run ID: **MSD_09_100527A**

Prep Date: **05/27/2010 18:28**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|------------------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Dichlorodifluoromethane | ND | | 1 | | | | | | | |
| Chloromethane | ND | | 2 | | | | | | | |
| Vinyl chloride | ND | | 1 | | | | | | | |
| Chloroethane | ND | | 1 | | | | | | | |
| Bromomethane | ND | | 2 | | | | | | | |
| Trichlorofluoromethane | ND | | 1 | | | | | | | |
| 1,1-Dichloroethene | ND | | 1 | | | | | | | |
| Dichloromethane | ND | | 2 | | | | | | | |
| trans-1,2-Dichloroethene | ND | | 1 | | | | | | | |
| 1,1-Dichloroethane | ND | | 1 | | | | | | | |
| cis-1,2-Dichloroethene | ND | | 1 | | | | | | | |
| Bromochloromethane | ND | | 1 | | | | | | | |
| Chloroform | ND | | 1 | | | | | | | |
| 2,2-Dichloropropane | ND | | 1 | | | | | | | |
| 1,2-Dichloroethane | ND | | 1 | | | | | | | |
| 1,1,1-Trichloroethane | ND | | 1 | | | | | | | |
| 1,1-Dichloropropene | ND | | 1 | | | | | | | |
| Carbon tetrachloride | ND | | 1 | | | | | | | |
| Benzene | ND | | 1 | | | | | | | |
| Dibromomethane | ND | | 1 | | | | | | | |
| 1,2-Dichloropropane | ND | | 1 | | | | | | | |
| Trichloroethene | ND | | 1 | | | | | | | |
| Bromodichloromethane | ND | | 1 | | | | | | | |
| cis-1,3-Dichloropropene | ND | | 1 | | | | | | | |
| trans-1,3-Dichloropropene | ND | | 1 | | | | | | | |
| 1,1,2-Trichloroethane | ND | | 1 | | | | | | | |
| Toluene | ND | | 1 | | | | | | | |
| 1,3-Dichloropropane | ND | | 1 | | | | | | | |
| Dibromochloromethane | ND | | 1 | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | | 2 | | | | | | | |
| Tetrachloroethene | ND | | 1 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | | 1 | | | | | | | |
| Chlorobenzene | ND | | 1 | | | | | | | |
| Ethylbenzene | ND | | 1 | | | | | | | |
| m,p-Xylene | ND | | 1 | | | | | | | |
| Bromoform | ND | | 1 | | | | | | | |
| Styrene | ND | | 1 | | | | | | | |
| o-Xylene | ND | | 1 | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | | 1 | | | | | | | |
| 1,2,3-Trichloropropane | ND | | 2 | | | | | | | |
| Isopropylbenzene | ND | | 1 | | | | | | | |
| Bromobenzene | ND | | 1 | | | | | | | |
| n-Propylbenzene | ND | | 1 | | | | | | | |
| 4-Chlorotoluene | ND | | 1 | | | | | | | |
| 2-Chlorotoluene | ND | | 1 | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | | 1 | | | | | | | |
| tert-Butylbenzene | ND | | 1 | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | | 1 | | | | | | | |
| sec-Butylbenzene | ND | | 1 | | | | | | | |
| 1,3-Dichlorobenzene | ND | | 1 | | | | | | | |
| 1,4-Dichlorobenzene | ND | | 1 | | | | | | | |
| 4-Isopropyltoluene | ND | | 1 | | | | | | | |
| 1,2-Dichlorobenzene | ND | | 1 | | | | | | | |
| n-Butylbenzene | ND | | 1 | | | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | | 3 | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | | 2 | | | | | | | |
| Naphthalene | ND | | 2 | | | | | | | |
| Hexachlorobutadiene | ND | | 2 | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | | 2 | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 11.4 | | 10 | | 114 | 70 | 130 | | | |
| Surr: Toluene-d8 | 9.5 | | 10 | | 95 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 10.4 | | 10 | | 104 | 70 | 130 | | | |



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Date:
01-Jun-10

QC Summary Report

Work Order:
10052504

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8260B**

File ID: **10052703.D**

Batch ID: **MS09W0527A**

Analysis Date: **05/27/2010 17:44**

Sample ID: **LCS MS09W0527A**

Units: **µg/L**

Run ID: **MSD_09_100527A**

Prep Date: **05/27/2010 17:44**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| 1,1-Dichloroethene | 10.3 | 1 | 10 | | 103 | 80 | 120 | | | |
| Benzene | 9.14 | 0.5 | 10 | | 91 | 70 | 130 | | | |
| Trichloroethene | 9.45 | 1 | 10 | | 95 | 70 | 130 | | | |
| Toluene | 8.63 | 0.5 | 10 | | 86 | 80 | 120 | | | |
| Chlorobenzene | 9.34 | 1 | 10 | | 93 | 70 | 130 | | | |
| Ethylbenzene | 9.66 | 0.5 | 10 | | 97 | 80 | 120 | | | |
| m,p-Xylene | 9.33 | 0.5 | 10 | | 93 | 70 | 130 | | | |
| o-Xylene | 9.52 | 0.5 | 10 | | 95 | 70 | 130 | | | |
| Surr: 1,2-Dichloroethane-d4 | 11.6 | | 10 | | 116 | 70 | 130 | | | |
| Surr: Toluene-d8 | 9.34 | | 10 | | 93 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 10.7 | | 10 | | 107 | 70 | 130 | | | |

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8260B**

File ID: **10052718.D**

Batch ID: **MS09W0527A**

Analysis Date: **05/27/2010 23:22**

Sample ID: **10052521-01AMS**

Units: **µg/L**

Run ID: **MSD_09_100527A**

Prep Date: **05/27/2010 23:22**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| 1,1-Dichloroethene | 40.8 | 2.5 | 50 | 0 | 82 | 60 | 130 | | | |
| Benzene | 39 | 1.3 | 50 | 0 | 78 | 67 | 130 | | | |
| Trichloroethene | 39.4 | 2.5 | 50 | 0 | 79 | 69 | 130 | | | |
| Toluene | 37.7 | 1.3 | 50 | 0 | 75 | 66 | 130 | | | |
| Chlorobenzene | 41.7 | 2.5 | 50 | 0 | 83 | 70 | 130 | | | |
| Ethylbenzene | 41 | 1.3 | 50 | 0 | 82 | 68 | 130 | | | |
| m,p-Xylene | 40.2 | 1.3 | 50 | 0 | 80 | 64 | 130 | | | |
| o-Xylene | 41.7 | 1.3 | 50 | 0 | 83 | 70 | 130 | | | |
| Surr: 1,2-Dichloroethane-d4 | 57.2 | | 50 | | 114 | 70 | 130 | | | |
| Surr: Toluene-d8 | 46.7 | | 50 | | 93 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 50.5 | | 50 | | 101 | 70 | 130 | | | |

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8260B**

File ID: **10052719.D**

Batch ID: **MS09W0527A**

Analysis Date: **05/27/2010 23:44**

Sample ID: **10052521-01AMSD**

Units: **µg/L**

Run ID: **MSD_09_100527A**

Prep Date: **05/27/2010 23:44**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-----------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| 1,1-Dichloroethene | 43.2 | 2.5 | 50 | 0 | 86 | 60 | 130 | 40.84 | 5.7(20) | |
| Benzene | 40.1 | 1.3 | 50 | 0 | 80 | 67 | 130 | 38.97 | 3.0(20) | |
| Trichloroethene | 41.2 | 2.5 | 50 | 0 | 82 | 69 | 130 | 39.42 | 4.4(20) | |
| Toluene | 39 | 1.3 | 50 | 0 | 78 | 66 | 130 | 37.68 | 3.3(20) | |
| Chlorobenzene | 43 | 2.5 | 50 | 0 | 86 | 70 | 130 | 41.74 | 3.0(20) | |
| Ethylbenzene | 42.6 | 1.3 | 50 | 0 | 85 | 68 | 130 | 41 | 3.8(20) | |
| m,p-Xylene | 42 | 1.3 | 50 | 0 | 84 | 64 | 130 | 40.21 | 4.4(20) | |
| o-Xylene | 43.5 | 1.3 | 50 | 0 | 87 | 70 | 130 | 41.71 | 4.1(20) | |
| Surr: 1,2-Dichloroethane-d4 | 55.9 | | 50 | | 112 | 70 | 130 | | | |
| Surr: Toluene-d8 | 47 | | 50 | | 94 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 50.4 | | 50 | | 101 | 70 | 130 | | | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

June 02, 2010

CLS Work Order #: CTE0951
COC #:

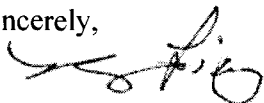
Reyna Vallejo
Alpha Analytical, Inc.-Sparks
255 Glendale Ave.; Suite 21
Sparks, NV 89431

Project Name: E2M10052504

Enclosed are the results of analyses for samples received by the laboratory on 05/27/10 09:00. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness. Any comments and exceptions are addressed under the Notes and Definitions section.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

| | | |
|--|---|-------------------------------------|
| Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks, NV 89431 | Project: E2M10052504 Project Number: E2M10052504 Project Manager: Reyna Vallejo | CLS Work Order #: CTE0951 COC #: |
|--|---|-------------------------------------|

Chlorinated Herbicides by EPA Method 8151A

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| E2M10052504-05A (SS01SENA052510) (CTE0951-02) Soil Sampled: 05/25/10 09:25 Received: 05/27/10 09:00 QRL-5 | | | | | | | | | |
| 2,4-D (2,4-Dichlorophenoxyacetic acid) | ND | 0.25 | mg/kg | 5 | CT03823 | 05/28/10 | 06/02/10 | EPA 8151A | |
| Dalapon | ND | 5.0 | " | " | " | " | " | " | |
| 2,4-DB | ND | 0.50 | " | " | " | " | " | " | |
| Dicamba | ND | 0.050 | " | " | " | " | " | " | |
| Dichloroprop | ND | 0.50 | " | " | " | " | " | " | |
| Dinoseb | ND | 0.050 | " | " | " | " | " | " | |
| MCPA | ND | 10 | " | " | " | " | " | " | |
| MCPP | ND | 10 | " | " | " | " | " | " | |
| Pentachlorophenol | ND | 0.050 | " | " | " | " | " | " | |
| 2,4,5-T | ND | 0.050 | " | " | " | " | " | " | |
| 2,4,5-TP (Silvex) | ND | 0.050 | " | " | " | " | " | " | |

Surrogate: 2,4-DCAA 118 % 50-150 " " " "

| | | | | | | | | | |
|---|----|-------|-------|---|---------|----------|----------|-----------|--|
| E2M10052504-06A (SS02SENA052510) (CTE0951-03) Soil Sampled: 05/25/10 10:25 Received: 05/27/10 09:00 QRL-5 | | | | | | | | | |
| 2,4-D (2,4-Dichlorophenoxyacetic acid) | ND | 0.25 | mg/kg | 5 | CT03823 | 05/28/10 | 06/02/10 | EPA 8151A | |
| Dalapon | ND | 5.0 | " | " | " | " | " | " | |
| 2,4-DB | ND | 0.50 | " | " | " | " | " | " | |
| Dicamba | ND | 0.050 | " | " | " | " | " | " | |
| Dichloroprop | ND | 0.50 | " | " | " | " | " | " | |
| Dinoseb | ND | 0.050 | " | " | " | " | " | " | |
| MCPA | ND | 10 | " | " | " | " | " | " | |
| MCPP | ND | 10 | " | " | " | " | " | " | |
| Pentachlorophenol | ND | 0.050 | " | " | " | " | " | " | |
| 2,4,5-T | ND | 0.050 | " | " | " | " | " | " | |
| 2,4,5-TP (Silvex) | ND | 0.050 | " | " | " | " | " | " | |

Surrogate: 2,4-DCAA 81 % 50-150 " " " "

CALIFORNIA LABORATORY SERVICES

Page 3 of 7

06/02/10 14:14

Alpha Analytical, Inc.-Sparks
255 Glendale Ave.; Suite 21
Sparks, NV 89431

Project: E2M10052504
Project Number: E2M10052504
Project Manager: Reyna Vallejo

CLS Work Order #: CTE0951
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|--------------------|-------|----------|---------|----------|----------|-------------|-------|
| E2M10052504-04A (SB03GW17052510) (CTE0951-01) Water Sampled: 05/25/10 14:25 Received: 05/27/10 09:00 | | | | | | | | | |
| Cyanide (total) | ND | 0.0050 | mg/L | 1 | CT03897 | 06/02/10 | 06/02/10 | SM4500-CN E | |

CA DOHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road Rancho Cordova, CA 95742

www.californialab.com

916-638-7301

Fax: 916-638-4510

CALIFORNIA LABORATORY SERVICES

Page 4 of 7

06/02/10 14:14

| | | |
|--|---|-------------------------------------|
| Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks, NV 89431 | Project: E2M10052504 Project Number: E2M10052504 Project Manager: Reyna Vallejo | CLS Work Order #: CTE0951 COC #: |
|--|---|-------------------------------------|

Chlorinated Herbicides by EPA Method 8151A - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|---------------|-----------------|----------|---------------------------------------|---------------|---------------------------------------|---------------|-----|-----------|-------|
| Batch CT03823 - EPA 8151A | | | | | | | | | | |
| Blank (CT03823-BLK1) | | | | Prepared: 05/28/10 Analyzed: 06/02/10 | | | | | | |
| 2,4-D (2,4-Dichlorophenoxyacetic acid) | ND | 0.050 | mg/kg | | | | | | | |
| Dalapon | ND | 1.0 | " | | | | | | | |
| 2,4-DB | ND | 0.10 | " | | | | | | | |
| Dicamba | ND | 0.010 | " | | | | | | | |
| Dichloroprop | ND | 0.10 | " | | | | | | | |
| Dinoseb | ND | 0.010 | " | | | | | | | |
| MCPA | ND | 2.0 | " | | | | | | | |
| MCPP | ND | 2.0 | " | | | | | | | |
| Pentachlorophenol | ND | 0.010 | " | | | | | | | |
| 2,4,5-T | ND | 0.010 | " | | | | | | | |
| 2,4,5-TP (Silvex) | ND | 0.010 | " | | | | | | | |
| <i>Surrogate: 2,4-DCAA</i> | <i>0.0320</i> | | <i>"</i> | <i>0.0500</i> | | <i>64</i> | <i>50-150</i> | | | |
| LCS (CT03823-BS1) | | | | Prepared: 05/28/10 Analyzed: 06/02/10 | | | | | | |
| Dicamba | 0.0161 | 0.010 | mg/kg | 0.0250 | | 64 | 50-150 | | | |
| Dichloroprop | 0.0205 | 0.10 | " | 0.0250 | | 82 | 50-150 | | | |
| <i>Surrogate: 2,4-DCAA</i> | <i>0.0353</i> | | <i>"</i> | <i>0.0500</i> | | <i>71</i> | <i>50-150</i> | | | |
| LCS Dup (CT03823-BS1) | | | | Prepared: 05/28/10 Analyzed: 06/02/10 | | | | | | |
| Dicamba | 0.0155 | 0.010 | mg/kg | 0.0250 | | 62 | 50-150 | 4 | 30 | |
| Dichloroprop | 0.0195 | 0.10 | " | 0.0250 | | 78 | 50-150 | 5 | 30 | |
| <i>Surrogate: 2,4-DCAA</i> | <i>0.0368</i> | | <i>"</i> | <i>0.0500</i> | | <i>74</i> | <i>50-150</i> | | | |
| Matrix Spike (CT03823-MS1) | | | | Source: CTE0984-03 | | Prepared: 05/28/10 Analyzed: 06/02/10 | | | | |
| Dicamba | 0.0127 | 0.010 | mg/kg | 0.0250 | ND | 51 | 50-150 | | | |
| Dichloroprop | 0.0226 | 0.10 | " | 0.0250 | ND | 90 | 50-150 | | | |
| <i>Surrogate: 2,4-DCAA</i> | <i>0.0479</i> | | <i>"</i> | <i>0.0500</i> | | <i>96</i> | <i>50-150</i> | | | |

CA DOHS ELAP Accreditation/Registration Number 1233

CALIFORNIA LABORATORY SERVICES

| | | |
|--|---|-------------------------------------|
| Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks, NV 89431 | Project: E2M10052504 Project Number: E2M10052504 Project Manager: Reyna Vallejo | CLS Work Order #: CTE0951 COC #: |
|--|---|-------------------------------------|

Chlorinated Herbicides by EPA Method 8151A - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch CT03823 - EPA 8151A

| Matrix Spike Dup (CT03823-MSD1) | Source: CTE0984-03 | | Prepared: 05/28/10 | | Analyzed: 06/02/10 | | | | | |
|---------------------------------|--------------------|-------|--------------------|--------|--------------------|-----|--------|----|----|--|
| Dicamba | 0.0143 | 0.010 | mg/kg | 0.0250 | ND | 57 | 50-150 | 12 | 30 | |
| Dichloroprop | 0.0289 | 0.10 | " | 0.0250 | ND | 116 | 50-150 | 24 | 30 | |
| Surrogate: 2,4-DCAA | 0.0538 | | " | 0.0500 | | 108 | 50-150 | | | |

CALIFORNIA LABORATORY SERVICES

| | | |
|--|---|-------------------------------------|
| Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks, NV 89431 | Project: E2M10052504 Project Number: E2M10052504 Project Manager: Reyna Vallejo | CLS Work Order #: CTE0951 COC #: |
|--|---|-------------------------------------|

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|-----------------|-------|-------------------------------|---------------|-------------------------------|-------------|-----|-----------|-------|
| Batch CT03897 - General Preparation | | | | | | | | | | |
| Blank (CT03897-BLK1) | | | | Prepared & Analyzed: 06/02/10 | | | | | | |
| Cyanide (total) | ND | 0.0050 | mg/L | | | | | | | |
| LCS (CT03897-BS1) | | | | Prepared & Analyzed: 06/02/10 | | | | | | |
| Cyanide (total) | 0.0894 | 0.0050 | mg/L | 0.100 | | 89 | 75-125 | | | |
| LCS Dup (CT03897-BSD1) | | | | Prepared & Analyzed: 06/02/10 | | | | | | |
| Cyanide (total) | 0.0931 | 0.0050 | mg/L | 0.100 | | 93 | 75-125 | 4 | 25 | |
| Matrix Spike (CT03897-MS1) | | | | Source: CTE0951-01 | | Prepared & Analyzed: 06/02/10 | | | | |
| Cyanide (total) | 0.0983 | 0.0050 | mg/L | 0.100 | ND | 98 | 75-125 | | | |
| Matrix Spike Dup (CT03897-MSD1) | | | | Source: CTE0951-01 | | Prepared & Analyzed: 06/02/10 | | | | |
| Cyanide (total) | 0.100 | 0.0050 | mg/L | 0.100 | ND | 100 | 75-125 | 2 | 25 | |

CALIFORNIA LABORATORY SERVICES

Page 7 of 7

06/02/10 14:14

Alpha Analytical, Inc.-Sparks
255 Glendale Ave.; Suite 21
Sparks, NV 89431

Project: E2M10052504
Project Number: E2M10052504
Project Manager: Reyna Vallejo

CLS Work Order #: CTE0951
COC #:

Notes and Definitions

- QRL-5 The sample was diluted due to the presence of high levels of non-target analytes or matrix interference resulting in elevated reporting limits.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

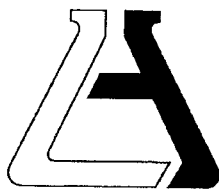
CA DOHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road Rancho Cordova, CA 95742

www.californialab.com

916-638-7301

Fax: 916-638-4510



ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92868 - 714/771-6900

FAX 714/538-1209

CLIENT Alpha Analytical, Inc. (11338)
ATTN: Reyna Vallejo
255 Glendale Avenue
Suite 21
Sparks, NV 89431-5778

LAB REQUEST 255509

REPORTED 06/04/2010

RECEIVED 05/27/2010

PROJECT W.O. #E2M10052504

SUBMITTER Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.

1083119

1083120

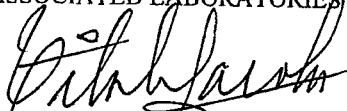
Client Sample Identification

E2M10052504-04A

Laboratory Method Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,


for Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 1083119

Client Sample ID: E2M10052504-04A

Matrix: WATER

Date Sampled: 05/25/2010

Time Sampled: 14:25

| Analyte | Result | DLR | Units | Date/Analyst |
|-----------------------------|--------|-------|-------|--------------|
| 9065 Total Phenolics | | | | |
| Total Phenolics | ND | 0.005 | mg/L | 06/03/10 HK |

Order #: 1083120

Client Sample ID: Laboratory Method Blank

Matrix: WATER

| Analyte | Result | DLR | Units | Date/Analyst |
|-----------------------------|--------|-------|-------|--------------|
| 9065 Total Phenolics | | | | |
| Total Phenolics | ND | 0.005 | mg/L | 06/03/10 HK |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit



**ASSOCIATED LABORATORIES
QA REPORT FORM**

QC Sample: LR 255328
 Matrix: WATER
 Prep. Date: June 3, 2010
 Analysis Date: June 3, 2010
 ID#'s in Batch: LR 255045, 255220, 255328, 255410, 255509, 255615, 255616, 255627, 255655

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = mg/L

| Test | Method | Sample Result | Spike Added | Matrix Spike | Matrix Spike Dup | %Rec MS | %Rec MSD | RPD |
|-----------|-----------------|---------------|-------------|--------------|------------------|---------|----------|-----|
| PHENOLICS | 420.1/5530/9065 | ND | 0.20 | 0.205 | 0.200 | 103 | 100 | 2 |

ND = Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

| |
|----------------------|
| %REC LIMITS = 80-120 |
|----------------------|

| |
|-----------------|
| RPD LIMITS = 20 |
|-----------------|

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

| PREP BLK | LCS | | | | |
|----------|--------|------|------|---------|---------|
| Value | Result | True | %Rec | L.Limit | H.Limit |
| ND | 0.080 | 0.08 | 100 | 80% | 120% |

Value = Preparation Blank Value

LCS Result = Lab Control Sample Result

True = True Value of LCS

L.Limit / H.Limit = LCS Control Limits

Billing Information :

E2M
9563 S. Kingston Ct.
Englewood, CO 80112

CHAIN-OF-CUSTODY RECORD

NV

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : E2M10052504
Report Due By : 5:00 PM On : 02-Jun-2010

Client:
HDR | E2M
2365 Iron Point Road
Suite 300
Folsom, CA 95630

Report Attention Phone Number (916) 852-7792 x 204
Clayton Mokri Email Address clayton.mokri@hdrinc.com

EDD Required : Yes

Sampled by : Jacob Ruffing

PO :
Client's COC # : 32516

Job : NTD

Cooler Temp 4 °C Samples Received 25-May-2010 Date Printed 25-May-2010

QC Level : S3 = Final Rpt MBLK, LCS, MS/MSD With Surrogates

| Alpha Sample ID | Client Sample ID | Collection Matrix Date | No. of Bottles | | TAT | Requested Tests | | | | | | Sample Remarks | | |
|-----------------|------------------|------------------------|----------------|-----|-----|-----------------|--------|--------|----------------------|---------------|-----------|----------------|-------|--|
| | | | Alpha | Sub | | 300_0_W | 8081_S | 8082_S | 8151_S | ALKALINIT_Y_W | AMMONIA_W | | BNA_S | BNA_W |
| E2M10052504-01A | SB0302SO062510 | SO 05/25/10 13:30 | 1 | 0 | 5 | | | | | | | | | |
| E2M10052504-02A | SB0313SO062510 | SO 05/25/10 13:55 | 1 | 0 | 5 | | | | | | | | | |
| E2M10052504-03A | SB0317SO062510 | SO 05/25/10 14:15 | 1 | 0 | 5 | | | | | | | | | |
| E2M10052504-04A | SB03GW17052510 | AQ 05/25/10 14:25 | 12 | 1 | 5 | | | | NO2, NO3, SO4, Cl, F | Alk | NH3 | | | |
| E2M10052504-05A | SS01SENA062510 | SO 05/25/10 09:25 | 1 | 1 | 5 | | | | | | | | | |
| E2M10052504-06A | SS02SENA062510 | SO 05/25/10 10:25 | 1 | 1 | 5 | | | | | | | | | Sample container has a sample time of 10:05 logged in per COC. |
| E2M10052504-07A | TB01GWNA052510 | AQ 05/25/10 08:00 | 1 | 0 | 5 | | | | | | | | | Reno Trip Blank 5/17/10 |

Comments: Samples brought in by client. Frozen ice. Total Cyanide and 8151 subbed to CLS. H2SO4 split was created from 1 Liter unpreserved amber for sample -04A for Phenolics to be subbed to Associated Labs. Only 1 brass tube was provided for sample -06A. therefore appropriate aliquot was taken and subbed to CLS for 8151.

Logged in by: Elizabeth Alex Signature: Elizabeth Alex Print Name: Elizabeth Alex Company: Alpha Analytical, Inc. Date/Time: 5.25.10 1745

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

E2M
9563 S. Kingston Ct.
Englewood, CO 80112

CHAIN-OF-CUSTODY RECORD

NV

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : E2M10052504
Report Due By : 5:00 PM On : 02-Jun-2010

Client:
HDR | E2M
2365 Iron Point Road
Suite 300
Folsom, CA 95630

Report Attention Phone Number Email Address
Clayton Mokri (916) 852-7792 x 204 clayton.mokri@hdrinc.com

EDD Required : Yes

Sampled by : Jacob Ruffing

PO :
Client's COC # : 32516 Job : NTD

Cooler Temp Samples Received Date Printed
4 °C 25-May-2010 25-May-2010

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

| Alpha Sample ID | Client Sample ID | Collection Matrix Date | No. of Bottles Alpha Sub | TAT | Requested Tests | | | | | | Sample Remarks | | | | |
|-----------------|------------------|------------------------|--------------------------|-----|-----------------|--------------------------------|--------------|----------|------------|-----------|----------------|------|------|---|--|
| | | | | | CYANIDE_TOTALE | METALS_AQ | METALS_SQ | N_TKN_WW | N_TOTAL_WW | OG_HEM_WW | | PH_S | PH_W | | |
| E2M10052504-01A | SB0302SSO052510 | SO 05/25/10 13:30 | 1 | 0 | 5 | As, Ba, Cd, Cr, Pb, Hg, Ag, Se | | | | | | | | | |
| E2M10052504-02A | SB0313SSO052510 | SO 05/25/10 13:55 | 1 | 0 | 5 | As, Ba, Cd, Cr, Pb, Hg, Ag, Se | | | | | | | | | pH |
| E2M10052504-03A | SB0317SSO052510 | SO 05/25/10 14:15 | 1 | 0 | 5 | As, Ba, Cd, Cr, Pb, Hg, Ag, Se | | | | | | | | | |
| E2M10052504-04A | SB03GW17052510 | AQ 05/25/10 14:25 | 12 | 1 | 5 | Total Cyanide | Special List | | | | | | | X | |
| E2M10052504-05A | SS01SENA052510 | SO 05/25/10 09:25 | 1 | 1 | 5 | As, Ba, Cd, Cr, Pb, Hg, Ag, Se | | | | | | | | | |
| E2M10052504-06A | SS02SENA052510 | SO 05/25/10 10:25 | 1 | 1 | 5 | As, Ba, Cd, Cr, Pb, Hg, Ag, Se | | | | | | | | | Sample container has a sample time of 10:05 logged in per COC. |
| E2M10052504-07A | TB01GWNA052510 | AQ 05/25/10 08:00 | 1 | 0 | 5 | | | | | | | | | | Reno Trip Blank 5/17/10 |

Comments: Samples brought in by client. Frozen ice. Total Cyanide and 81.51 subbed to CLS. H2SO4 split was created from 1 Liter unpressved amber for sample -04A for Phenolics to be subbed to Associated Labs. Only 1 brass tube was provided for sample -06A : therefore appropriate aliquot was taken and subbed to CLS for 81.51.

Logged in by: *Elizabeth Adcox* Signature *Elizabeth Adcox* Print Name **Alpha Analytical, Inc.** Date/Time *5:25.10.1745*

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

E2M
9563 S. Kingston Ct.
Englewood, CO 80112

CHAIN-OF-CUSTODY RECORD

NV

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : E2M10052504

Report Due By : 5:00 PM On : 02-Jun-2010

Client:

HDR | E2M
2365 Iron Point Road
Suite 300
Folsom, CA 95630

Report Attention

Phone Number

Email Address

Clayton Mokri

(916) 852-7792 x 204 clayton.mokri@hdrinc.com

EDD Required : Yes

Sampled by : Jacob Ruffing

Cooler Temp

Samples Received

Date Printed

Client's COC # : 32516

Job : NTD

4 °C

25-May-2010

25-May-2010

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

| Alpha Sample ID | Client Sample ID | Collection Matrix Date | No. of Bottles Alpha | Sub | TAT | Requested Tests | | | | | | | Sample Remarks | |
|-----------------|------------------|------------------------|----------------------|-----|-----|-----------------|---------------|-------|--------|--------|--------|--------|----------------|--|
| | | | | | | PHENOLIC S_W | PHOSPHOR US_W | TDS_W | TPHE_S | TPHE_W | TPHP_S | TPHP_W | | VOC_S |
| E2M10052504-01A | SB0302SO052510 | SO 05/25/10 13:30 | 1 | 0 | 5 | | | | TPHE_N | | GAS_N | | 8260_N | |
| E2M10052504-02A | SB0313SO052510 | SO 05/25/10 13:55 | 1 | 0 | 5 | | | | TPHE_N | | GAS_N | | 8260_N | |
| E2M10052504-03A | SB0317SO052510 | SO 05/25/10 14:15 | 1 | 0 | 5 | | | | TPHE_N | | GAS_N | | 8260_N | |
| E2M10052504-04A | SB03GW17052510 | AQ 05/25/10 14:25 | 12 | 1 | 5 | X | Total | TDS | TPHE_N | | GAS_N | | 8260_N | |
| E2M10052504-05A | SS01SENA052510 | SO 05/25/10 09:25 | 1 | 1 | 5 | | | | TPHE_N | | | | 8260_N | |
| E2M10052504-06A | SS02SENA052510 | SO 05/25/10 10:25 | 1 | 1 | 5 | | | | TPHE_N | | | | 8260_N | Sample container has a sample time of 10:05 logged in per COC. |
| E2M10052504-07A | TB01GWNA052510 | AQ 05/25/10 08:00 | 1 | 0 | 5 | | | | | | | | | Reno Trip Blank 5/17/10 |

Comments:

Samples brought in by client. Frozen ice. Total Cyanide and 8151 subbed to CJS. H2SO4 split was created from 1 Liter unpreserved amber for sample -04A for Phenolics to be subbed to Associated Labs. Only 1 brass tube was provided for sample -06A. therefore appropriate aliquot was taken and subbed to CJS for 8151.

Signature

Print Name

Company

Date/Time

Logged in by:

Elizabeth Alder

Elizabeth Alder

Alpha Analytical, Inc.

5:25:10 1745

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQA(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information:

Company Name HDR/ERM
 Attn: _____
 Address Englewood CO
 City, State, Zip _____
 Phone Number _____ Fax _____



Samples Collected From Which State?
 AZ _____ CA _____ NV WA _____
 ID _____ OR _____ OTHER _____
 Page # _____ of _____

Analyses Required

Data Validation Level: III or IV

Consultant/Client Name HDR Job # _____ Job Name NTD
 Address Englewood CO Name: Chey Pickel Report Attention / Project Manager
 City, State, Zip CA Email: _____
 P.O. # _____ Mobile: _____

| Time Sampled | Date Sampled | Matrix* See Key Below | Lab ID Number (Use Only) | Office (Use Only) | Sample Description | TAT | Field Filtered | # Containers** | Remarks |
|--------------|--------------|-----------------------|--------------------------|-------------------|--------------------|-----|----------------|----------------|---------|
| 1330 | 5/15 | SO | F2M10052504 | 01 | SB030250052510 | ST | | | |
| 1355 | 1 | SO | | 02 | SR031350052510 | | | | |
| 1415 | 1 | SO | | 03 | SR031750052510 | | | | |
| 1425 | 1 | QA | | 04 | SR031750052510 | | | | |
| 0425 | 1 | SO | | 05 | SS01SENA052510 | | | | |
| 1625 | 1 | SO | | 06 | SS02SENA052510 | | | | |
| 0500 | 5/15 | A | | 07 | TB01GWNA052510 | | | | |

ADDITIONAL INSTRUCTIONS:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action (NAC 445.0636 (c) (2)). Sampled By: _____

| | | | |
|--|--|----------------------|-------------------|
| Relinquished by: (Signature/Affiliation) <u>[Signature]</u> | Received by: (Signature/Affiliation) <u>[Signature]</u> | Date: <u>5-25-10</u> | Time: <u>1605</u> |
| Relinquished by: (Signature/Affiliation) <u>[Signature]</u> | Received by: (Signature/Affiliation) <u>[Signature]</u> | Date: _____ | Time: _____ |
| Relinquished by: (Signature/Affiliation) <u>[Signature]</u> | Received by: (Signature/Affiliation) <u>[Signature]</u> | Date: _____ | Time: _____ |

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air ** L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other
 NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.

6 Vegas
256 pely

Table 2
Groundwater Sample Analyses for the NTD

| Sample Location | Sample ID | TPH-g, BTEX, VOCs (8260) | TPH-d, TPH-mo (8015) | Metals (6020) | Nitrate, Nitrite, Sulfate, Fluoride (300.0) | Total Nitrogen (calculation) | Ammonia (4500-NH3D) | pH (150.2) and Field Measurement | Total P (265.3) | TDS (2540C) | Phenol (8270) | Phenolic compounds (9065) | Alkalinity (2320B) | Oil & Grease (1664) |
|-----------------|-----------|--------------------------|----------------------|---------------|---|------------------------------|---------------------|----------------------------------|-----------------|-------------|---------------|---------------------------|--------------------|---------------------|
| SB-2 | SB02 | GW ? | X | X | X | X | X | X | X | X | X | X | X | X |
| SB-3 | SB03 | GW ? | X | X | X | X | X | X | X | X | X | X | X | X |
| SB-6 | SB06 | GW ? | X | X | X | X | X | X | X | X | X | X | X | X |
| SB-7 | SB07 | GW ? | X | X | X | X | X | X | X | X | X | X | X | X |
| SB-10 | SB10 | GW ? | X | X | X | X | X | X | X | X | X | X | X | X |

Note: fields with "?" need to be replaced with depth determined in the field
Metals = Arsenic, barium, boron, cadmium, chromium (total), copper, cyanide, iron, lead, manganese, mercury, nickel, selenium, sodium, silver, zinc

Table 3
Sediment Sample Analyses for the NTD

| Sample Location | Sample ID | VOCs (8260) | TPH-d, TPH-mo (8015) | RCRA 8 Metals (8020) | Chlorinated pesticides and PCBs (8081/8082) | OP Pesticides (8151) | SVOCs (8270) | Chlorinated herbicides (8151) |
|-----------------|-----------|-------------|----------------------|----------------------|---|----------------------|--------------|-------------------------------|
| SS-1 | SB02 | SE | NA | Date | X | X | X | X |
| SS-2 | SB03 | SE | NA | Date | X | X | X | X |

550Z

Table 4
QA/QC Sample Analyses for the NTD

| Sample Location | Sample ID | VOCs (8260) | TPH-d, TPH-mo (8015) | RCRA 8 Metals (8020) | | | |
|-----------------|-----------|-------------|----------------------|----------------------|---|---|---|
| EB | EB01 | GW | NA | Date | X | X | X |
| TB | TB01 | GW | NA | Date | X | X | X |
| TB | TB02 | GW | NA | Date | X | X | X |
| TB | TB03 | GW | NA | Date | X | X | X |
| TB | TB04 | GW | NA | Date | X | X | X |

APPENDIX C

Disposal Facility Letters of Acceptance



Waste Management
4333 E. Jefferson Ave.
Fresno, CA 93725
(559) 834-9151

January 30, 2012

TO: Mr. Clayton Mokri
HDR Inc.

FROM: Jason Hirsch

SUBJECT: **North Truckee Drain Realignment**

I have reviewed the data table for the above profile. The soil is within the limits of Lockwood Regional Landfill for disposal in the bioremediation area. The soils for bioremediation must contain greater than 300 mg/kg gasoline, 600 mg/kg diesel or 600 mg/kg oil. Soil must be relatively clean of debris for acceptance. The remaining soil can be sent for cover. Cover soil must be relatively clean of debris as well.

Prior to receipt of waste a profile signed by the generator will need to be completed and approved. After Waste Management Inc. approves the profile: all loads must be scheduled 48 hours in advance due to high VOC notification requirements. Please contact Waste Management Inc. to schedule the loads. The profile number must be referenced for schedule and delivery.

Sincerely,

A handwritten signature in black ink that reads 'Jason Hirsch'.

Jason Hirsch
Waste Acceptance Manager
Waste Management Inc.



Clayton,

For the TPH contaminated soil from the City of Sparks, the contamination levels in the data table you provided are within Recology's acceptance criteria. Unfortunately, the samples are out of date (over a year old) and as per our criteria, an insufficient number of samples were initially tested to properly characterize the amount of soil in the entire project.

For projects over 10,000cy we would like one 4:1 composite sample for every 1,000cy of material; however, since you have already provided 28 discrete boring samples throughout the project site one 4:1 composite sample for every 1,500cy will sufficiently characterize the 40,000cy of soil. At that sampling frequency 27 composite samples (spanning the representative depths and distance of the excavation area) would be needed (rather than 40). To err on the side of caution taking 28-30 composite samples will get more soil approved in the event that the excavation yields more soil than was originally anticipated. Along with the laboratory analyses for the new composite samples (with results for: TPHg, TPHd, TPHo and VOCs), I will also need the actual laboratory analyses for the data table that has already been provided. This should include the chain of custody and quality control/quality assurance.

As long as the contamination levels for the new samples come back in line with the contamination levels of the boring samples in the data table, I will be able to approve the contaminated soil for disposal at either the Ostrom Road or Hay Road facility.

If you have any questions feel free to call or email me.

Thank you,
Christine O'Dea
Compliance Specialist

Recology™ Environmental Solutions, Inc.
235 N. First Street | Dixon, CA 95620
Office: 707.693.2106 | Mobile: 707.235.2586 | Fax: 707.678.5148
codea@recology.com
WASTE ZERO



Sampling Requirements and Acceptance Criteria

Recology Hay Road
6426 Hay Road
Vacaville, CA 95687

Recology Ostrom Road
5900 Ostrom Road
Wheatland, CA 95692

Revised: December 2010

Sampling Requirements and Acceptance Criteria

Sampling Requirements

| Project Size Yards Per | Cubic Yards per 4:1 Composite Sample |
|---------------------------|--------------------------------------|
| 0 - 2,499 cy | 250 cy |
| 2,500 - 4,999 cy | 375 cy |
| 5,000 - 7,499 cy | 500 cy |
| 7,500 cy - 10,000 cy | 750 cy |
| >10,000 cy | 1000 cy |

Discrete samples are assigned a sampling frequency of 50 cubic yards per sample. The sampling frequency for 4:1 composite samples is found on the table above. Recology reserves the right to require the generator to perform additional analytical testing. Please contact Recology to confirm sampling requirements and required testing. Analytical results must originate from a CELAP certified laboratory. A Recology waste disposal application and final laboratory results, including QA/QC and Chain-of-Custody, must be submitted prior to approval.

Soil Analysis Guidelines

| Contaminant | Required Analyses | EPA Methods |
|--|--|--|
| Gasoline, Leaded | TPH – Gasoline BTEX Total Lead | EPA 5030/8015 EPA 8020/8260 TTLC-Lead |
| Gasoline, Unleaded | TPH – Gasoline BTEX | EPA 5030/8015 EPA 8020/8260 |
| Diesel | TPH – Diesel BTEX | EPA 3550/8015 EPA 8020/8260 |
| Jet Fuel (A, A-1, B, JP- 1,4,5,6,8) | TPH - Jet Fuel (A, A-1, B, JP- 1,4,5,6,8) BTEX | EPA 3550 or 5030/8015 EPA 8020/8260 |
| Motor Oil | TPH – Motor Oil BTEX | EPA 3550/8015 EPA 8020/8260 |
| Hydraulic Oil | TPH – Hydraulic Oil BTEX | EPA 3550/8015 EPA 8020/8260 |
| Bunker Oil | TPH – Bunker Oil BTEX | EPA 3550/8015 EPA 8020/8260 |
| Fuel Oil | TPH – Fuel Oil BTEX | EPA 3550/8015 EPA 8020/8260 |
| Kerosene | TPH – Kerosene BTEX | EPA 3550/8015 EPA 8020/8260 |
| Waste Oil | TPH – Waste Oil TPH – Diesel TPH – Gasoline VOC's SVOC's Luft 5 Metals (Cd, Cr, Pb, Ni, Zn) PCB's Dioxins (if PCP's are detected) | EPA 3550/8015 EPA 3550/8015 EPA 5030/8015 EPA 8260 EPA 8270 TTLC – Metals EPA 8080 EPA 8280 |

Please contact Recology to obtain waste stream specific sampling requirements.

Sampling Requirements and Acceptance Criteria

Metals Acceptance Criteria (CCR Title 22)

| METAL | TTLIC (mg/kg) | STLC Threshold (10x STLC) | STLC (mg/l) |
|-----------------|---------------|---------------------------|-------------|
| Antimony (Sb) | 500 | 150 | 15 |
| Arsenic (As) | 500 | 50 | 5 |
| Barium (Ba) | 10,000 | 1,000 | 100 |
| Beryllium (Be) | 75 | 7.5 | 0.75 |
| Cadmium (Cd) | 100 | 10 | 1 |
| Chromium (Cr) | 2,500 | 50 | 560/5 |
| Cobalt (Co) | 8,000 | 800 | 80 |
| Copper (Cu) | 2,500 | 250 | 25 |
| Lead (Pb) | 1,000 | 50 | 5 |
| Mercury (Hg) | 20 | 2 | 0.2 |
| Molybdenum (Mo) | 3,500 | 3,500 | 350 |
| Nickel (Ni) | 2,000 | 200 | 20 |
| Selenium (Se) | 100 | 10 | 1 |
| Silver (Ag) | 500 | 50 | 5 |
| Thallium (Tl) | 700 | 70 | 7 |
| Vanadium (Va) | 2,400 | 240 | 24 |
| Zinc (Zn) | 5,000 | 2,500 | 250 |

Total concentrations cannot equal or exceed the TTLIC values. If total concentrations exceed 10x's the STLC, a WET (Waste Extraction Test) is required. Soluble concentration from the WET cannot equal or exceed the STLC values.

Total Petroleum Hydrocarbons Acceptance Criteria

| TPH Range | Threshold |
|---------------|---------------|
| Gasoline | >8,000 mg/kg |
| Diesel | >8,000 mg/kg |
| Jet Fuel | >8,000 mg/kg |
| Motor Oil | >25,000 mg/kg |
| Hydraulic Oil | >25,000 mg/kg |
| Bunker Oil | >25,000 mg/kg |
| Fuel Oil | >25,000 mg/kg |
| TRPH | >25,000 mg/kg |
| Oil & Grease | >25,000 mg/kg |

Ignitibility and toxicity testing is required if the constituents above exceed the listed threshold.

RCI & Toxicity Acceptance Criteria (CCR Title 22)

| | |
|----------------------------|----------------|
| Non-Reactive | (Reactivity) |
| pH ≥ 2.0 or pH ≤ 12.5 | (Corrosivity) |
| Flash Point ≥ 140°F (60°C) | (Ignitability) |
| Acute Aquatic 96-hour | (Toxicity) |
| LC ₅₀ ≥ 500mg/l | |

Potentially Toxic Substances (CCR Title 22)

| Substance | TCLP (mg/l) | STLC (mg/l) | TTLIC (mg/kg) |
|--------------------------------------|-------------|-------------|---------------|
| Aldrin | N/A | 0.14 | 1.4 |
| Benzene | 0.5 | N/A | N/A |
| Chlordane | 0.03 | 0.25 | 2.5 |
| DDT, DDE,DDD | N/A | 0.1 | 1 |
| 2,4-Dichlorophenoxyacetic Acid | 10 | 10 | 100 |
| Dieldrin | N/A | 0.8 | 8 |
| Dioxin (2,3,7,8,-TCDD) | N/A | 0.001 | 0.01 |
| Endrin | 0.02 | 0.02 | 0.2 |
| Heptachlor | 0.008 | 0.47 | 4.7 |
| Kepone | N/A | 2.1 | 21 |
| Lead Compounds, Organic | N/A | N/A | 13 |
| Lindane | 0.4 | 0.4 | 4 |
| Methoxychlor | 10 | 10 | 100 |
| Mirex | N/A | 2.1 | 21 |
| Pentachlorophenol | 100 | 1.7 | 17 |
| PCB's | N/A | 5 | 50 |
| Toxaphene | 0.5 | 0.5 | 5 |
| TCE | 0.5 | 204 | 2040 |
| 2,4,5-Trichlorophenoxypropionic Acid | 1 | 1 | 10 |

Total concentrations cannot equal or exceed the TTLIC values. If total concentrations exceed 20x's the TCLP, a TCLP is required. Soluble concentration from the WET cannot equal or exceed the STLC values. Soluble concentration from the TCLP cannot equal or exceed the TCLP values.

Special Acceptance Provisions

Soil must be > 50% solids with no free liquids

Sludge from a wastewater treatment plant must be >15% solids for secondary treated sludge and >20% solids for primary treated sludge.

APPENDIX D

Dewatering Estimates Technical Memorandum

DEWATERING ESTIMATES

North Truckee Drain Realignment Project

January 6, 2011

Reviewed by: Charlie O'Neill, CEM

Prepared by: Christopher D. Trumbull, P.E.

Introduction

The North Truckee Drain Realignment Project (Project) will consist of realigning the existing drainage and installation of approximately 2½ miles of box culvert from immediately northwest of the I-80/Sparks Boulevard interchange to the Truckee River (Figure 1). The box culverts will be installed approximately 11 to 20 feet below existing grades (varying with surface topography) with excavations depths extending to approximately 4,375 to 4,379 feet above mean sea level (amsl). In order to install the box culverts, it is anticipated that the static groundwater elevation in the shallow water table aquifer will need to be lowered to facilitate “dry” conditions. This memorandum assumes construction dewatering will be accomplished with well points installed along the alignment of the excavation.

The following tasks were completed as part of this project:

- ◆ Review of previously prepared documents to identify estimates of horizontal permeability,
- ◆ Perform gradation analysis on samples collected from shallow aquifer materials,
- ◆ Derive permeability estimates from the gradation analysis performed on aquifer materials,
- ◆ Perform a slug test in three existing groundwater monitoring wells,
- ◆ Estimate required groundwater extraction rates to achieve “dry” conditions, and
- ◆ Prepare this technical memorandum.

Existing Geotechnical Reports

The following reports were reviewed by HDR for historical groundwater elevation data, soil permeability values, and other geotechnical information.

- ◆ *Geotechnical Investigation Report* (Kleinfelder, 2009). This report presents the results from a geotechnical investigation performed in support of the Project. The primary tasks included soil sample collection from 15 exploratory borings advanced along the proposed Project area, gradation analysis of these soil samples, and conversion of three soil borings to groundwater monitoring wells.

- ◆ *Fourth Quarter, 2007 Ground-Water Monitoring Report* (BAI, 2008). This report documents the quarterly groundwater monitoring activities conducted by Broadbent and Associates, Inc. (BAI) at the Washoe County School District site located at 1850 Kleppe Lane in Sparks, Nevada. This report presents the historical groundwater elevation data collected from shallow groundwater monitoring wells.
- ◆ *Seepage Analysis of the Truckee River West Bank Embankment*, (HDR, 2010a). In this report HDR presents hydraulic conductivity values of soil where the box culverts penetrate the embankment and subsurface soil at the east end of the Project area.

Review of information presented in these documents indicates that fill material underlain by Tahoe Outwash deposits (sands and gravels) generally extended to depths of approximately 15 feet below ground surface (bgs) along the alignment. During the 2009 geotechnical investigation performed by Kleinfelder, static groundwater depths along the existing North Truckee Drain were measured between 14½ and 34½ feet below existing grades (4,372 to 4,380 feet amsl). Review of the groundwater elevation data presented in the BAI *Fourth Quarter, 2007 Ground-Water Monitoring Report* indicates a maximum static groundwater elevation of 4,388 feet amsl recorded in January 2008 at the Washoe County School District Site.

The applicable soil permeability data reported in the Kleinfelder and HDR reports was analyzed. These reports indicate a horizontal permeability (k_h) range of 1×10^{-2} to 4×10^{-3} centimeters per second (cm/sec) in the sandy and gravelly soils of the water table aquifer.

For the purposes of this dewatering estimation it was approximated that the static groundwater elevation will need to be lowered approximately five feet to facilitate “dry” conditions. As depicted on Figure 1, the groundwater elevation decreases from west to east, therefore less dewatering will be required on the eastern portion of the excavation.

Permeability Testing

In October 2010, HDR performed geotechnical laboratory and field slug testing to help establish a range of potential permeability values for materials to be dewatered. These test programs are summarized in the paragraphs below.

In May 2010 HDR performed a subsurface investigation in the Project area, which included the collection of soil and groundwater samples for analytical laboratory analysis (HDR, 2010b). The purpose of the May 2010 investigation was to evaluate potential contaminants in soil and groundwater that could restrict disposal options during construction. Although the intent of the May 2010 investigation was not geotechnical, six samples from that investigation were tested to evaluate material gradation by ASTM D422 at AMEC’s geotechnical laboratory. The samples selected and analyzed by this method were recovered from borings advanced in Larkin Circle and collected from 10 and 17 feet bgs. The soil lithology of these samples (sand and silty sand) is representative of the water table aquifer materials. The laboratory gradation report for these samples is provided in Appendix A.

On October 1, 2010 HDR performed a slug test at the three existing monitoring wells (B-03 (MW), B-07 (MW), and B-11 (MW)) installed by Kleinfelder, with locations depicted on Figure 1. The slug tests were performed in general accordance with the procedures in USEPA SOP 2046 (Appendix B). Rising and falling slug tests were performed in each well to obtain a reliable average permeability for each well. Due to the quantity of data obtained from the slug test, the raw data is not attached, but a summary is presented in the following section.

Analyses

Permeability values for the soil in the Project area were based on gradation analysis performed on samples collected in 2009 and 2010 by Kleinfelder and HDR, respectively and the October 2010 slug test. To estimate the aquifer permeability from the samples, HDR utilized methods presented in the following documents; *Permeability Values for Seepage Analysis of Levees in the Natomas Basin, Predicting the Saturated Hydraulic Conductivity of Sand and gravel Using Effective Diameter and Void Ration* (Chapuis, 2004), and *Journal of Geotechnical and Geoenvironmental Engineering* (Carrier, 2003). Following these procedures, HDR calculated the horizontal permeability (K_h) for soil samples collected from the water table aquifer. The soil sample locations are presented on Figure 1, and the results from this analysis are presented in Table 1 below. The horizontal permeability ranges from 2×10^{-1} to 3×10^{-4} .

Table 1. Horizontal Permeability Values - Laboratory Testing-Based

| Boring | Depth | Material | k_h (cm/sec) |
|--------|-------|---|--|
| B-01 | 20.5 | Poorly Graded Gravel with Silt and Sand | 1×10^{-3} |
| B-04 | 15.5 | Poorly Graded Sand | 2×10^{-1} to 3×10^{-3} |
| B-07 | 25.0 | Poorly Graded Gravel with Silt and Sand | 1×10^{-3} |
| B-08 | 20.5 | Silty Sand with Gravel | 3×10^{-4} |
| SB-08 | 10.0 | Sand with Silt | 3×10^{-4} |
| SB-08 | 17.0 | Sand | 1×10^{-3} |
| SB-09 | 10.0 | Silty Sand | 1×10^{-4} |
| SB-09 | 17.0 | Sand with Silt | 3×10^{-4} |
| SB-10 | 10.0 | Silty Sand | 1×10^{-4} |
| SB-10 | 17.0 | Silty Sand with Silt | 3×10^{-4} |

A summary of the October 1, 2010 slug test results, utilizing the Hvorslev analysis procedure (Hvorsley, 1951) to convert the raw data to K_h values, are presented below in Table 2.

Table 2. Horizontal Permeability Values - Slug Testing-Based

| Well | Water | k_h (cm/sec) | Well | Water | k_h (cm/sec) | Well | Water | k_h (cm/sec) |
|------|---------|----------------------|------|---------|----------------------|------|---------|----------------------|
| B-03 | Rising | 2.4×10^{-2} | B-07 | Falling | 1.3×10^{-2} | B-11 | Rising | 6.7×10^{-2} |
| B-03 | Falling | 1.7×10^{-2} | B-07 | Rising | 2.7×10^{-2} | B-11 | Falling | 1.8×10^{-2} |
| B-03 | Rising | 4.3×10^{-2} | B-07 | Falling | 1.3×10^{-2} | B-11 | Rising | 3.0×10^{-2} |
| B-03 | Falling | 2.8×10^{-2} | B-07 | Rising | 3.1×10^{-2} | B-11 | Falling | 1.7×10^{-2} |
| B-03 | Rising | 1.4×10^{-2} | B-07 | Falling | 6.8×10^{-3} | B-11 | Rising | 2.1×10^{-2} |
| B-03 | Falling | 2.8×10^{-2} | B-07 | Rising | 3.3×10^{-2} | B-11 | Falling | 1.5×10^{-2} |
| B-03 | Rising | 1.9×10^{-2} | B-07 | Falling | 6.2×10^{-3} | B-11 | Rising | 3.0×10^{-2} |
| B-03 | Falling | 1.9×10^{-2} | B-07 | Average | 1.9×10^{-2} | B-11 | Falling | 1.4×10^{-2} |
| B-03 | Average | 2.5×10^{-2} | | | | B-11 | Average | 2.6×10^{-2} |

Permeability Summary

Considering the results of the laboratory and slug test analyses, the slug tests provide the best representation of permeability. Because the slug tests were performed in the stratum to be dewatered and at the approximate depth of dewatering, it is HDR's opinion that these results are representative of permeability conditions along North Truckee Drain alignment. Therefore, HDR recommends a K_h of 3×10^{-2} cm/sec be used for dewatering calculations and estimated daily volume.

Daily Flow Estimation

The K_h value of 3×10^{-2} cm/sec was used to estimate a daily flow, using the outlined procedures in *Construction Dewatering and Groundwater Control* (Powers, 1981). Due to the limited depth of explorations, the depth of a lower confining aquifer was not found; therefore HDR assumed a depth of 40 feet for the lower confining aquifer and the bottom of the well points. HDR assumed a drawdown depth at each well point to be no more than 30 feet. The depth to groundwater was assumed to be 15 feet below existing grades.

A sensitivity approach was taken, using the information above, well spacing of 200 feet, and well diameters of 24 to 36 inches (typical well sizes that dewatering contractors might use) to arrive at the combination of dewatering parameters to lower the groundwater at least 5 feet along the entire alignment.

Based on our analysis, the flow for the dewatering scenario discussed above, could be up to about 250,000 gallons per day from each well point. These values will likely be reduced as pumping continues.

Mass Loading Estimates

Groundwater samples were collected from the three existing monitoring wells B-03 (MW), B-07 (MW), and B-11 (MW) in February, April, and September 2010. The September 2010 *Groundwater and Surface Water Sampling Results* report is provided in Appendix C. This report presents the analytical results of groundwater samples collected from three monitoring

wells and surface water samples collected from the North Truckee Drain. The samples were analyzed at a laboratory with respect to the discharge limitations of the Truckee River and Truckee Meadows Water Reclamation Facility (TMWRF). In general, most analyte concentrations were consistent among the wells sampled; however, the nitrate, sulfate, and chloride concentrations did vary between sample locations. For example these analytes were generally detected at a lower concentration in well B-11 (MW), located furthest to the east, than in the other wells; therefore it can be expected that the pounds removed of these compounds will decrease as the project nears the Truckee River.

Mass loading was estimated based on the approximate gallons of groundwater extracted per well per day and the maximum detected concentration of each analyte. These results are summarized in Table 3 below.

Table 3. Estimated Mass Loading

| Flow (Gal. per day) | Pounds per Day | | | | |
|---------------------|----------------|---------|---------|---------|----------|
| | Total Nitrogen | Nitrate | Nitrite | Sulfate | Chloride |
| 250,000 | 2.34 | 2.33 | 0.01 | 40.77 | 37.86 |

| Flow (Gal. per day) | Pounds per Day | | | | |
|---------------------|---------------------|--------|--------|------------|--------|
| | Ammonia as Nitrogen | TDS | TSS | Phosphorus | Sodium |
| 250,000 | 0.14 | 247.52 | 291.20 | 0.35 | 58.24 |

Notes: TDS = Total dissolved solids, TSS = total suspended solids

Closing

The estimates presented above are based on certain conditions and rely on assumptions made on limited data. Should aquifer conditions or well point construction details vary from the assumptions made herein, the mass loading and dewatering estimates will change. Should the extraction well depth increase beyond 40 feet bgs mass loading and volume estimates will need to be increased accordingly. Therefore, consideration should be given to limiting the depth of well point to 40 feet bgs and the drawdown depth at each well point to 30 feet bgs.

Construction dewatering with well points will draw the groundwater down in an approximate radial fashion in all directions. HDR’s intent was to evaluate scenarios capable of lowering the shallow groundwater surface elevation at least 5 feet over the entire alignment. Should the contractor wish to dewater in stages, the data presented above could be used to estimate the appropriate spacing of the well points and the approximate distance from the well point to achieve the “dry” conditions.

Dewatering of the aquifer materials reduces pore pressure in the soil structure and could lead to settlement of soil that supports structures, roadways, embankments, etc. Consideration should be given to evaluating the potential effects of groundwater removal on the surrounding area. A more conclusive approach to quantifying the potential effects of groundwater removal would require more study.

The parameters developed and dewatering estimates presented herein should be used only for estimating purposes. This document is not intended to be used for design of the dewatering system. The dewatering contractor should arrive at its own conclusions and design the dewatering system based on its own assumptions. The dewatering contractor should install and evaluate test wells, prior to installation of all production wells, to confirm the actual flow quantities, drawdown depths, and recovery rates.

Please contact us at 916-817-4700 if you have any questions or comments.

JURAT

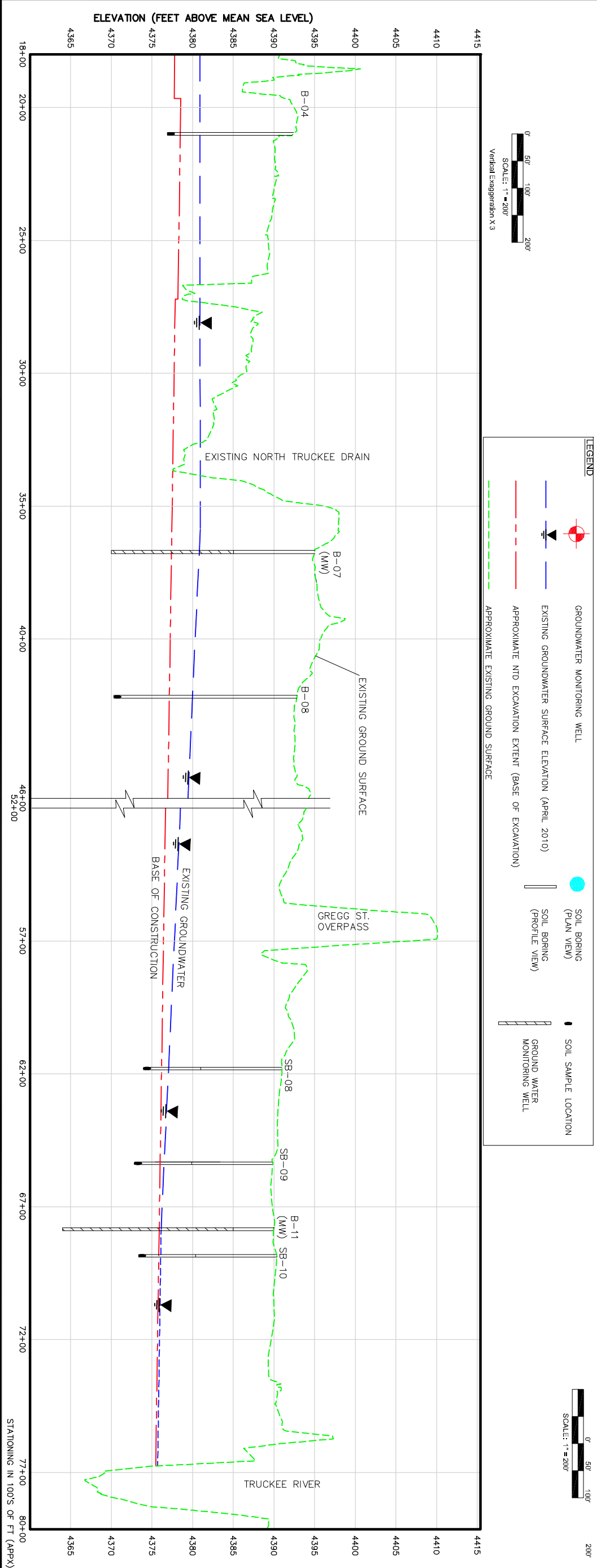
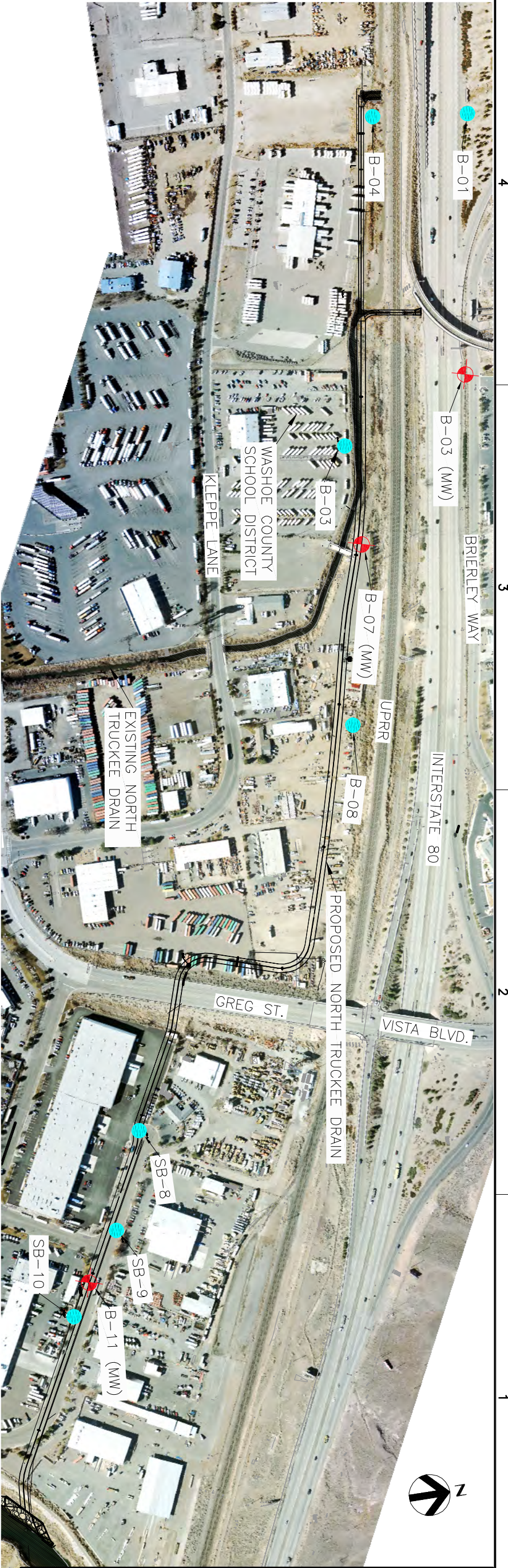
“I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state and local statutes, regulations and ordinances.”



Charles O'Neill,
CEM 2054, Exp. March 1, 2011

References

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- Carrier, 2003, *Goodbye, Hazen: Hello, Kozeny-Carman*, Journal of Geotechnical and Geoenvironmental Engineering, Vol. 129 (No. 11), November
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- Hvorslev, 1951, *Time Lag and Soil Permeability in Ground-Water Observations*,
- Kleinfelder, 2009, *Geotechnical Investigation Report*, November
- Powers, 1981, *Construction Dewatering and Groundwater Control*



| | | | | | | |
|-------------------------|------------------------|----------------------|---|------------------------------|--------------|--------|
| SHT OF JAN., 2011 | FIGURE NO. 1 | NOT FOR CONSTRUCTION | <p>PLAN VIEW AND CROSS-SECTION</p> <p>NORTH TRUCKEE DRAIN REALIGNMENT</p> | <p>HDR Engineering, Inc.</p> | DESIGNED BY: | |
| | | | | | DRAWN BY: | JB |
| | | | | | CHECKED BY: | CM |
| | | | | | APPROVED BY: | |
| | | | | | SCALE | |
| | | | | | HORIZ: | 1"=80' |
| | | | | | VERT: | 1"=16' |
| | | | | | FIELD BOOK | |

Appendix A

Laboratory Gradation Report



Laboratory Report

Report ID: 108536

Sierra
Environmental
Monitoring, Inc.

Alpha Analytical
Attn: Reyna Vallejo
255 Glendale Avenue Suite 21
Sparks, NV 89431

Date: 10/14/2010
Client: ALP-855
Taken by: J. Ruffing
PO #:

Dear Reyna Vallejo,

It is the policy of Sierra Environmental Monitoring, Inc to strictly adhere to a comprehensive Quality Assurance Plan that insures the data presented in this report are both accurate and precise. Sierra Environmental Monitoring, Inc. maintains accreditation in the State of Nevada (NV-15) and the State of California (ELAP 2526).

The data presented in this report were obtained from the analysis of samples received under a chain of custody. Unless otherwise noted below, samples were received in good condition, properly preserved and within the hold time for the requested analyses. Any anomalies associated with the analysis of the samples have been flagged with appropriate explanation in the Analysis Report section of this Laboratory Report.

General Comments:

- There are no general comments for this report.

Individual Sample Comments:

- There are no specific comments that are associated with these samples.

Approved By:

Sierra Environmental Monitoring, Inc.

Date:

10/14/2010

This report is applicable only to the sample received by the laboratory. The liability of the laboratory is limited to the amount paid for this report. This report is for the exclusive use of the client to whom it is addressed and upon the condition that the client assumes all liability for the further distribution of the report or its contents.



Laboratory Report

Report ID: 108536

**Sierra
Environmental
Monitoring, Inc.**

Alpha Analytical
Attn: Reyna Vallejo
255 Glendale Avenue Suite 21
Sparks, NV 89431

Date: 10/14/2010
Client: ALP-855
Taken by: J. Ruffing
PO #:

Analysis Report

| Sample ID: | Customer Sample ID | Date Sampled | Time Sampled | Date Received | Reporting Limit | Analyst | Date Analyzed | Data Flag |
|----------------|---------------------------------|--------------|--------------|-----------------|-----------------|---------------|---------------|-----------|
| S201009-1639 | E2M10052742-03 - SB0810S0052710 | 5/27/2010 | 11:25 AM | 9/27/2010 | | Seher | 10/13/2010 | |
| Parameter | Method | Result | Units | Reporting Limit | Analyst | Date Analyzed | Data Flag | |
| Sieve Analysis | ASTM | See Report | % | | Seher | 10/13/2010 | | |

| Sample ID: | Customer Sample ID | Date Sampled | Time Sampled | Date Received | Reporting Limit | Analyst | Date Analyzed | Data Flag |
|----------------|---------------------------------|--------------|--------------|-----------------|-----------------|---------------|---------------|-----------|
| S201009-1640 | E2M10052742-04 - SB0817SO052710 | 5/27/2010 | 11:35 AM | 9/27/2010 | | Seher | 10/13/2010 | |
| Parameter | Method | Result | Units | Reporting Limit | Analyst | Date Analyzed | Data Flag | |
| Sieve Analysis | ASTM | See Report | % | | Seher | 10/13/2010 | | |

| Sample ID: | Customer Sample ID | Date Sampled | Time Sampled | Date Received | Reporting Limit | Analyst | Date Analyzed | Data Flag |
|----------------|---------------------------------|--------------|--------------|-----------------|-----------------|---------------|---------------|-----------|
| S201009-1641 | E2M10052742-06 - SB0910SO052710 | 5/27/2010 | 10:20 AM | 9/27/2010 | | Seher | 10/13/2010 | |
| Parameter | Method | Result | Units | Reporting Limit | Analyst | Date Analyzed | Data Flag | |
| Sieve Analysis | ASTM | See Report | % | | Seher | 10/13/2010 | | |

| Sample ID: | Customer Sample ID | Date Sampled | Time Sampled | Date Received | Reporting Limit | Analyst | Date Analyzed | Data Flag |
|----------------|---------------------------------|--------------|--------------|-----------------|-----------------|---------------|---------------|-----------|
| S201009-1642 | E2M10052742-07 - SB0917SO052710 | 5/27/2010 | 10:40 AM | 9/27/2010 | | Seher | 10/13/2010 | |
| Parameter | Method | Result | Units | Reporting Limit | Analyst | Date Analyzed | Data Flag | |
| Sieve Analysis | ASTM | See Report | % | | Seher | 10/13/2010 | | |



Laboratory Report
Report ID: 108536

**Sierra
 Environmental
 Monitoring, Inc.**

Alpha Analytical
 Attn: Reyna Vallejo
 255 Glendale Avenue Suite 21
 Sparks, NV 89431

Date: 10/14/2010
 Client: ALP-855
 Taken by: J. Ruffing
 PO #:

Analysis Report

| Sample ID: | Customer Sample ID | Date Sampled | Time Sampled | Date Received | Reporting Limit | Analyst | Date Analyzed | Data Flag |
|----------------|---------------------------------|--------------|--------------|---------------|-----------------|---------|---------------|-----------|
| S201009-1643 | E2M10052742-09 - SB1010SO052710 | 5/27/2010 | 7:50 AM | 9/27/2010 | | Seher | 10/13/2010 | |
| Parameter | Method | Result | Units | | | | | |
| Sieve Analysis | ASTM | See Report | % | | | | | |

| Sample ID: | Customer Sample ID | Date Sampled | Time Sampled | Date Received | Reporting Limit | Analyst | Date Analyzed | Data Flag |
|----------------|---------------------------------|--------------|--------------|---------------|-----------------|---------|---------------|-----------|
| S201009-1644 | E2M10052742-10 - SB1017SO052710 | 5/27/2010 | 8:05 AM | 9/27/2010 | | Seher | 10/13/2010 | |
| Parameter | Method | Result | Units | | | | | |
| Sieve Analysis | ASTM | See Report | % | | | | | |

Data Flag Legend:



Laboratory Report
Report ID: 108536

**Sierra
Environmental
Monitoring, Inc.**

Alpha Analytical
Attn: Reyna Vallejo
255 Glendale Avenue Suite 21
Sparks, NV 89431

Date: 10/14/2010
Client: ALP-855
Taken by: J. Ruffing
PO #:

Quality Control Report

| <i>Parameter</i> | <i>LCS, % Recovery</i> | <i>MS, % Recovery</i> | <i>MSD, % Recovery</i> | <i>RPD, %</i> | <i>Method Blank</i> |
|------------------|----------------------------|---------------------------|----------------------------|---------------|---------------------|
|------------------|----------------------------|---------------------------|----------------------------|---------------|---------------------|

Sierra Environmental Monitoring collected no QC data for report 108536.

| | | | |
|----------------|--|--------------------------------|---|
| Legend: | <i>LCS- Laboratory Control Standard</i> | <i>MS- Matrix Spike</i> | <i>MSD- Matrix Spike Duplicate</i> |
| | <i>RPD- Relative Percent Difference</i> | | |

| Sample ID No | Client Sample ID | Total Mass | Mass (grams) Retained on | | | | | | | | | | Total Recovered | Percent Recovered | Percent Passing | | | | | |
|--------------|----------------------------------|------------|--------------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|-----------------|-------------------|-----------------|--------|--------|--|--|--|
| | | | #16 | #30 | #40 | #50 | #100 | #200 | Pan | #16 | #30 | #40 | | | #50 | #100 | #200 | | | |
| 1010-1639 | E2M10052742-03 - SB0810SO052710 | 300.66 | 1.36 | 0.43 | 0.47 | 3.54 | 113.66 | 120.28 | 60.24 | 299.98 | 99.8% | 99.55% | 99.40% | 99.25% | 98.07% | 60.18% | 20.08% | | | |
| 1010-1639 | ditto, #200 washed | 300.66 | 1.36 | 0.43 | 0.47 | 3.54 | 113.66 | 106.75 | 73.77 | 299.98 | 99.8% | 99.55% | 99.40% | 99.25% | 98.07% | 60.18% | 24.59% | | | |
| 1010-1640 | E2M10052742-04 - SB0817SO052710 | 350.45 | 88.37 | 14.14 | 26.46 | 63.89 | 98.72 | 29.09 | 26.53 | 347.20 | 99.1% | 74.55% | 70.48% | 62.85% | 44.45% | 16.02% | 7.64% | | | |
| 1010-1640 | ditto, #200 washed | 350.45 | 88.37 | 14.14 | 26.46 | 63.89 | 98.72 | 26.02 | 29.60 | 347.20 | 99.1% | 74.55% | 70.48% | 62.85% | 44.45% | 16.02% | 8.53% | | | |
| 1010-1641 | E2M10052742-06 - SB0910SO052710 | 234.22 | 5.44 | 2.32 | 1.11 | 1.62 | 38.11 | 102.36 | 80.76 | 231.72 | 98.9% | 97.65% | 96.65% | 96.17% | 95.47% | 79.03% | 34.85% | | | |
| 1010-1641 | ditto, #200 washed | 234.22 | 5.44 | 2.32 | 1.11 | 1.62 | 38.11 | 93.18 | 89.94 | 231.72 | 98.9% | 97.65% | 96.65% | 96.17% | 95.47% | 79.03% | 38.81% | | | |
| 1010-1642 | E2M10052742-07 - SB0917SO052710 | 337.18 | 0.76 | 0.85 | 7.83 | 40.70 | 166.53 | 73.37 | 42.91 | 332.95 | 98.7% | 99.77% | 99.52% | 97.16% | 84.94% | 34.92% | 12.89% | | | |
| 1010-1642 | ditto, #200 washed | 337.18 | 0.76 | 0.85 | 7.83 | 40.70 | 166.53 | 68.99 | 47.29 | 332.95 | 98.7% | 99.77% | 99.52% | 97.16% | 84.94% | 34.92% | 14.20% | | | |
| 1010-1643 | E2M10052742-04 - SB0101SO052710 | 286.97 | 37.95 | 7.09 | 3.17 | 4.59 | 32.22 | 113.47 | 89.79 | 288.28 | 100.5% | 86.84% | 84.38% | 83.28% | 81.68% | 70.51% | 31.15% | | | |
| 1010-1643 | ditto, #200 washed | 286.97 | 37.95 | 7.09 | 3.17 | 4.59 | 32.22 | 89.15 | 114.11 | 288.28 | 100.5% | 86.84% | 84.38% | 83.28% | 81.68% | 70.51% | 39.58% | | | |
| 1010-1644 | E2M10052742-04 - SB01017SO052710 | 304.74 | 0.07 | 0.30 | 2.90 | 25.60 | 154.09 | 89.53 | 44.65 | 317.14 | 104.1% | 99.98% | 99.88% | 98.97% | 90.90% | 42.31% | 14.08% | | | |
| 1010-1644 | ditto, #200 washed | 304.74 | 0.07 | 0.30 | 2.90 | 25.60 | 154.09 | 63.85 | 70.33 | 317.14 | 104.1% | 99.98% | 99.88% | 98.97% | 90.90% | 42.31% | 22.18% | | | |

| sieve number | Sieve Opening Size | | | | | |
|--------------|--------------------|--------|--------|--------|--------|--------|
| | #16 | #30 | #40 | #50 | #100 | #200 |
| inches | 0.0469 | 0.0234 | 0.0165 | 0.0117 | 0.0059 | 0.0029 |
| millimeters | 1.18 | 0.600 | 0.425 | 0.300 | 0.150 | 0.075 |



October 22, 2010
AMEC Project No. 10-419-00786

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778

Attention: Ms. Reyna Vallejo

**Re: MISCELLANEOUS LAB TESTING
Particle Size Distribution Reports**

We are sending:

As requested For your signature For comment Under separate cover

- Particle Size Distribution Reports, Sample Nos. 1471A through 1471F, sampled on 5-27-10.

Respectfully submitted,

AMEC Earth & Environmental, Inc.

Reviewed by,

Michael P. Hawe, S.E.T.
Laboratory Supervisor

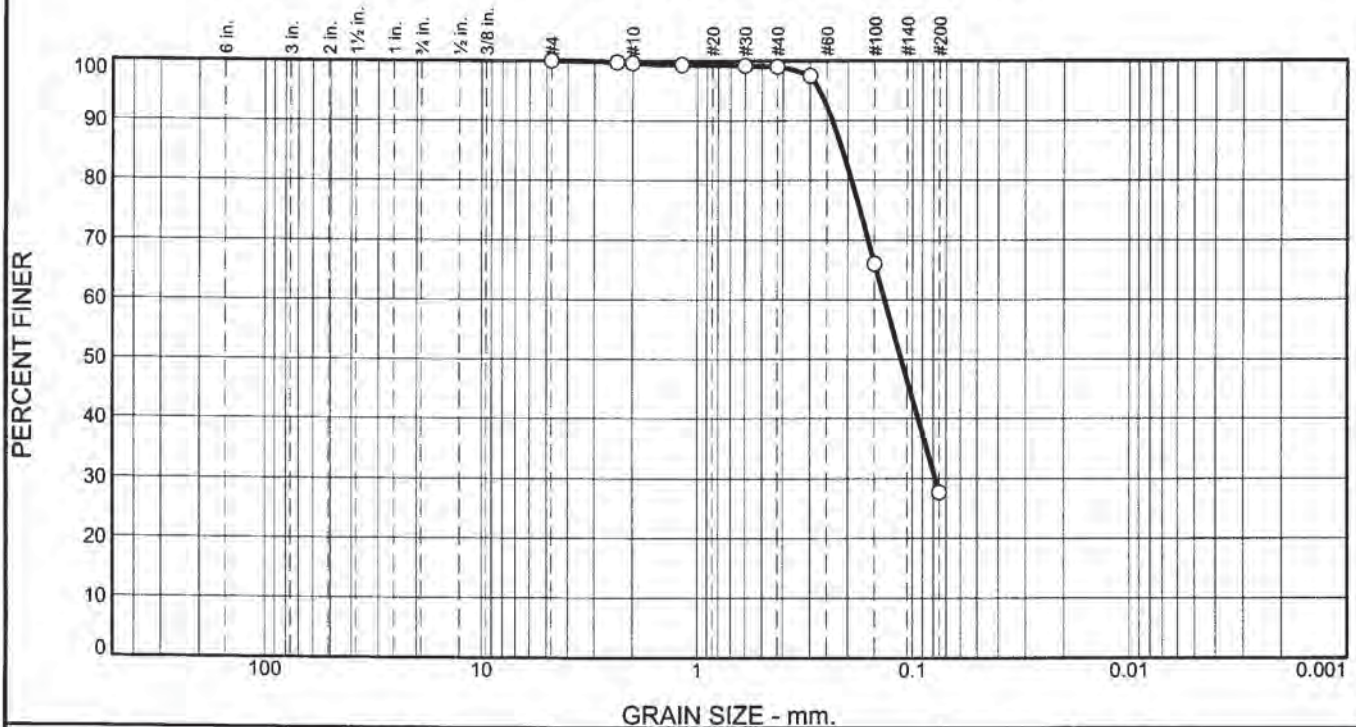
Brenda Hermes, E.I.
Project Manager

MH/BH/mm

Enclosures

J:\4-LAB-FIELD\2010\10419\1041900786_Alpha_Analytical_Inc\TRANSMITTALS\10-786_trans_1.doc

Particle Size Distribution Report



| % +3" | % Gravel | | % Sand | | | % Fines | |
|-------|----------|------|--------|--------|------|---------|------|
| | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| 0.0 | 0.0 | 0.0 | 0.4 | 0.6 | 71.3 | 27.7 | |

| Test Results (ASTM D 422 & ASTM D 1140) | | | |
|---|---------------|------------------|----------------|
| Opening Size | Percent Finer | Spec.* (Percent) | Pass? (X=Fail) |
| #4 | 100.0 | | |
| #8 | 99.8 | | |
| #10 | 99.6 | | |
| #16 | 99.3 | | |
| #30 | 99.2 | | |
| #40 | 99.0 | | |
| #50 | 97.5 | | |
| #100 | 66.0 | | |
| #200 | 27.7 | | |

* (no specification provided)

Material Description

Soil

Atterberg Limits (ASTM D 4318)

PL= LL= PI=

Classification

USCS (D 2487)= AASHTO (M 145)=

Coefficients

D₉₀= 0.2354 D₈₅= 0.2112 D₆₀= 0.1349
D₅₀= 0.1128 D₃₀= 0.0782 D₁₅=
D₁₀= C_u= C_c=

Remarks

Client Sample I.D.: SB0810SO052710

Date Received: 10-18-10 **Date Tested:** 10-19-10
Tested By: Chris Hegge
Checked By: Michael Hawe, S.E.T.
Title: Laboratory Supervisor

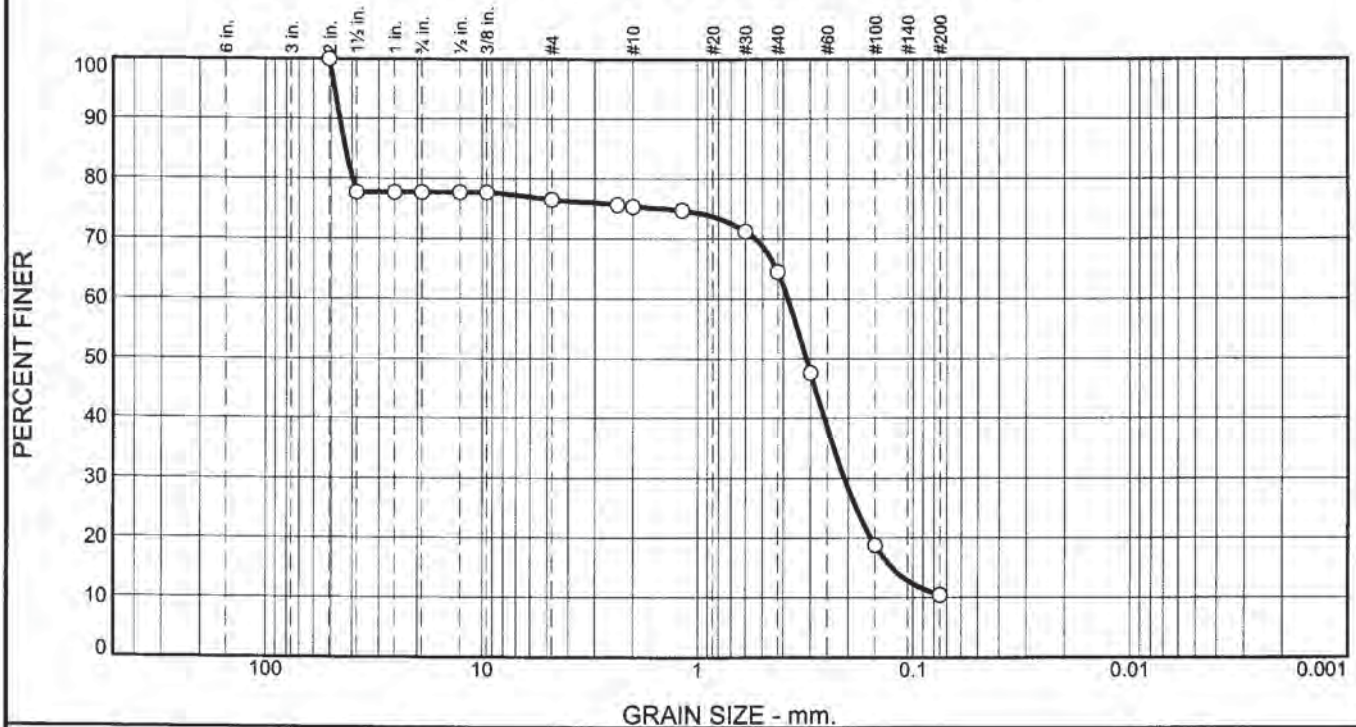
Location: E2M10052742-03A-1639
Sample Number: 1471A

Date Sampled: 5-27-10

| | |
|--|---|
| AMEC Earth & Environmental Reno, NV | Client: Alpha Analytical - Misc. Lab Testing Project: Misc. Lab Testing Project No: 1041900786 |
|--|---|

Figure 03A-1639

Particle Size Distribution Report



| % +3" | % Gravel | | % Sand | | | % Fines | |
|-------|----------|------|--------|--------|------|---------|------|
| | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| 0.0 | 22.3 | 1.2 | 1.2 | 10.8 | 54.1 | 10.4 | |

| Test Results (ASTM D 422 & ASTM D 1140) | | | |
|---|---------------|------------------|----------------|
| Opening Size | Percent Finer | Spec.* (Percent) | Pass? (X=Fail) |
| 2.0" | 100.0 | | |
| 1.5" | 77.7 | | |
| 1.0" | 77.7 | | |
| .750" | 77.7 | | |
| .500" | 77.7 | | |
| .375" | 77.7 | | |
| #4 | 76.5 | | |
| #8 | 75.6 | | |
| #10 | 75.3 | | |
| #16 | 74.7 | | |
| #30 | 71.2 | | |
| #40 | 64.5 | | |
| #50 | 47.7 | | |
| #100 | 18.7 | | |
| #200 | 10.4 | | |

* (no specification provided)

| Material Description | | |
|---|------------------------------|--------------------------|
| Soil | | |
| Atterberg Limits (ASTM D 4318) | | |
| PL= | LL= PI= | |
| Classification | | |
| USCS (D 2487)= | AASHTO (M 145)= | |
| Coefficients | | |
| D ₉₀ = 45.6046 | D ₈₅ = 42.9311 | D ₆₀ = 0.3806 |
| D ₅₀ = 0.3134 | D ₃₀ = 0.2082 | D ₁₅ = 0.1253 |
| D ₁₀ = | C _u = | C _c = |
| Remarks | | |
| Client Sample I.D.: SB0817SO052710 | | |
| Date Received: 10-19-10 | Date Tested: 10-19-10 | |
| Tested By: Chris Hegge | | |
| Checked By: Michael Hawe, S.E.T. | | |
| Title: Laboratory Supervisor | | |

Location: E2M10052742-04A-1640
Sample Number: 1471B

Date Sampled: 5-27-10

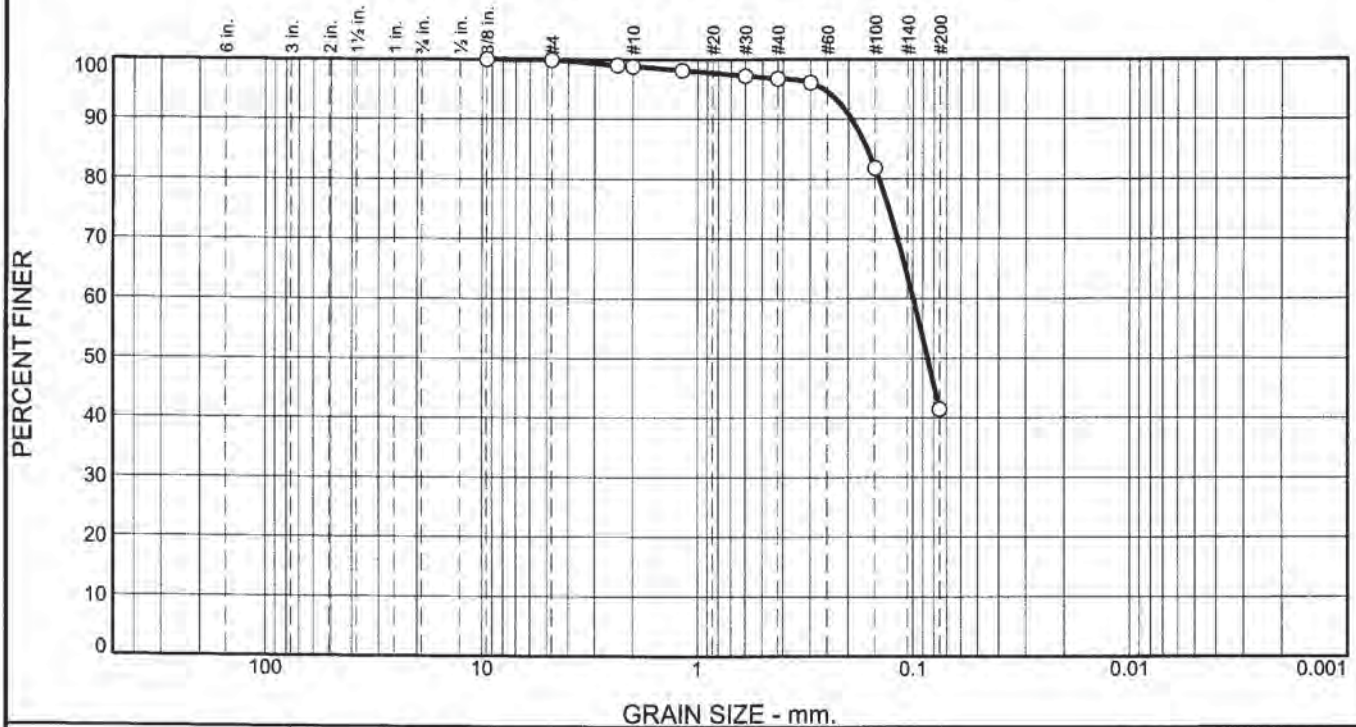
**AMEC Earth & Environmental
Reno, NV**

Client: Alpha Analytical - Misc. Lab Testing
Project: Misc. Lab Testing

Project No: 1041900786

Figure 04A-1640

Particle Size Distribution Report



| % +3" | % Gravel | | % Sand | | | % Fines | |
|-------|----------|------|--------|--------|------|---------|------|
| | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| 0.0 | 0.0 | 0.1 | 1.1 | 2.0 | 55.4 | | 41.4 |

| Opening Size | Percent Finer | Spec.* (Percent) | Pass? (X=Fail) |
|--------------|---------------|------------------|----------------|
| .375" | 100.0 | | |
| #4 | 99.9 | | |
| #8 | 99.0 | | |
| #10 | 98.8 | | |
| #16 | 98.2 | | |
| #30 | 97.2 | | |
| #40 | 96.8 | | |
| #50 | 96.1 | | |
| #100 | 81.8 | | |
| #200 | 41.4 | | |

* (no specification provided)

| Material Description | | |
|---|--------------------------|--------------------------|
| Soil | | |
| Atterberg Limits (ASTM D 4318) | | |
| PL= | LL= | PI= |
| Classification | | |
| USCS (D 2487)= | AASHTO (M 145)= | |
| Coefficients | | |
| D ₉₀ = 0.1928 | D ₈₅ = 0.1629 | D ₆₀ = 0.0996 |
| D ₅₀ = 0.0853 | D ₃₀ = | D ₁₅ = |
| D ₁₀ = | C _u = | C _c = |
| Remarks | | |
| Client Sample I.D.: SB0910SO052710 | | |
| Date Received: 10-19-10 Date Tested: 10-19-10 | | |
| Tested By: Chris Hegge | | |
| Checked By: Michael Hawe, S.E.T. | | |
| Title: Laboratory Supervisor | | |

Location: E2M10052742-06A-1641
 Sample Number: 1471C

Date Sampled: 5-27-10

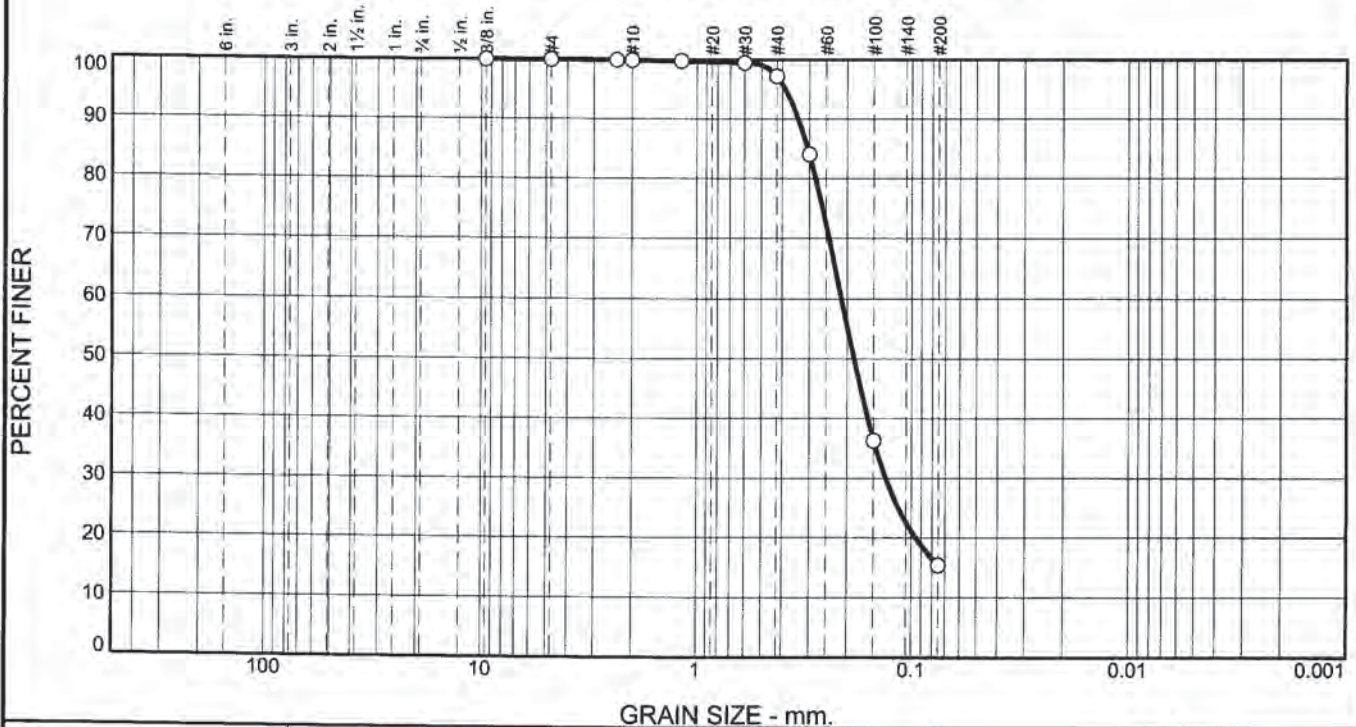
**AMEC Earth & Environmental
 Reno, NV**

Client: Alpha Analytical - Misc. Lab Testing
 Project: Misc. Lab Testing

Project No: 1041900786

Figure 06A-1641

Particle Size Distribution Report



| % +3" | % Gravel | | % Sand | | | % Fines | |
|-------|----------|------|--------|--------|------|---------|------|
| | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| 0.0 | 0.0 | 0.0 | 0.1 | 2.7 | 81.8 | 15.4 | |

| Test Results (ASTM D 422 & ASTM D 1140) | | | |
|---|---------------|------------------|----------------|
| Opening Size | Percent Finer | Spec.* (Percent) | Pass? (X=Fail) |
| .375" | 100.0 | | |
| #4 | 100.0 | | |
| #8 | 99.9 | | |
| #10 | 99.9 | | |
| #16 | 99.8 | | |
| #30 | 99.5 | | |
| #40 | 97.2 | | |
| #50 | 84.0 | | |
| #100 | 36.3 | | |
| #200 | 15.4 | | |

* (no specification provided)

Material Description

Soil

Atterberg Limits (ASTM D 4318)

PL= LL= PI=

Classification

USCS (D 2487)= AASHTO (M 145)=

Coefficients

D₉₀= 0.3377 D₈₅= 0.3052 D₆₀= 0.2119

D₅₀= 0.1851 D₃₀= 0.1319 D₁₅=

D₁₀= C_u= C_c=

Remarks

Client Sample I.D.: SB0917SO052710

Date Received: 10-19-10 Date Tested: 10-19-10

Tested By: Chris Hegge

Checked By: Michael Hawe, S.E.T.

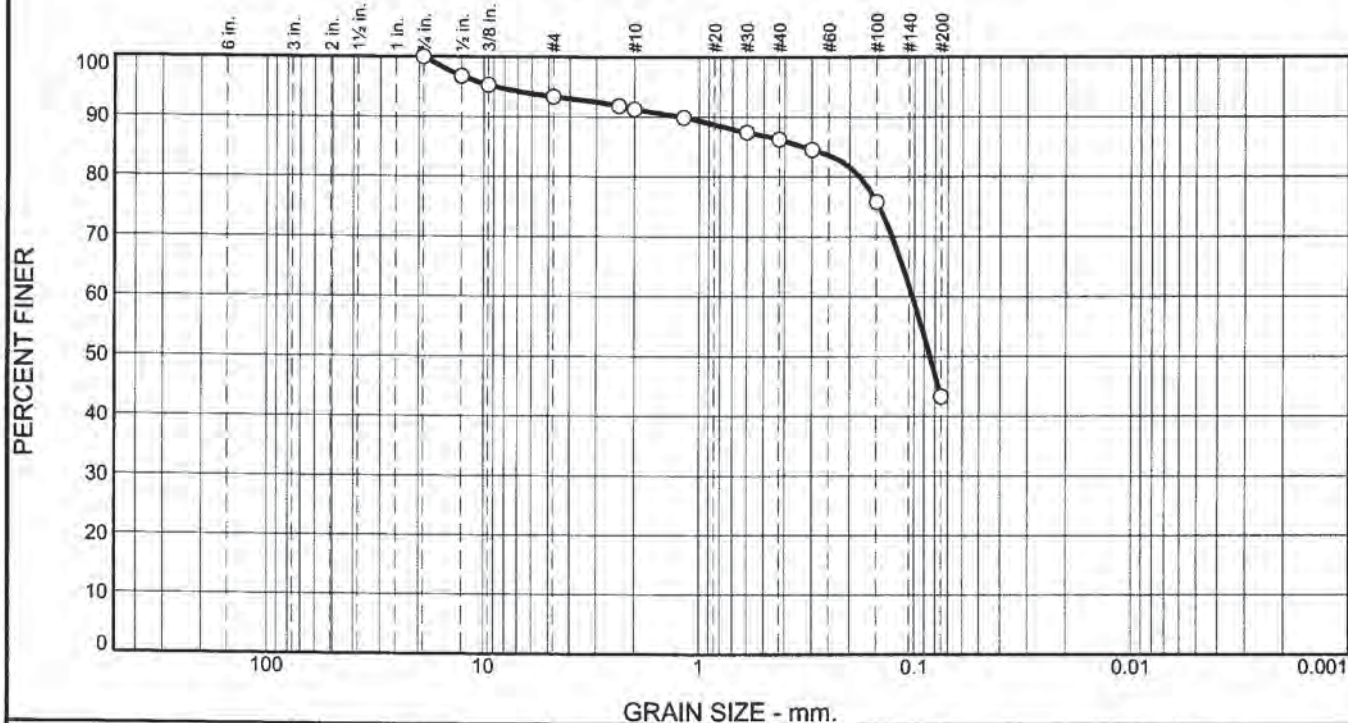
Title: Laboratory Supervisor

Location: E2M10052742-07A-1642
 Sample Number: 1471D

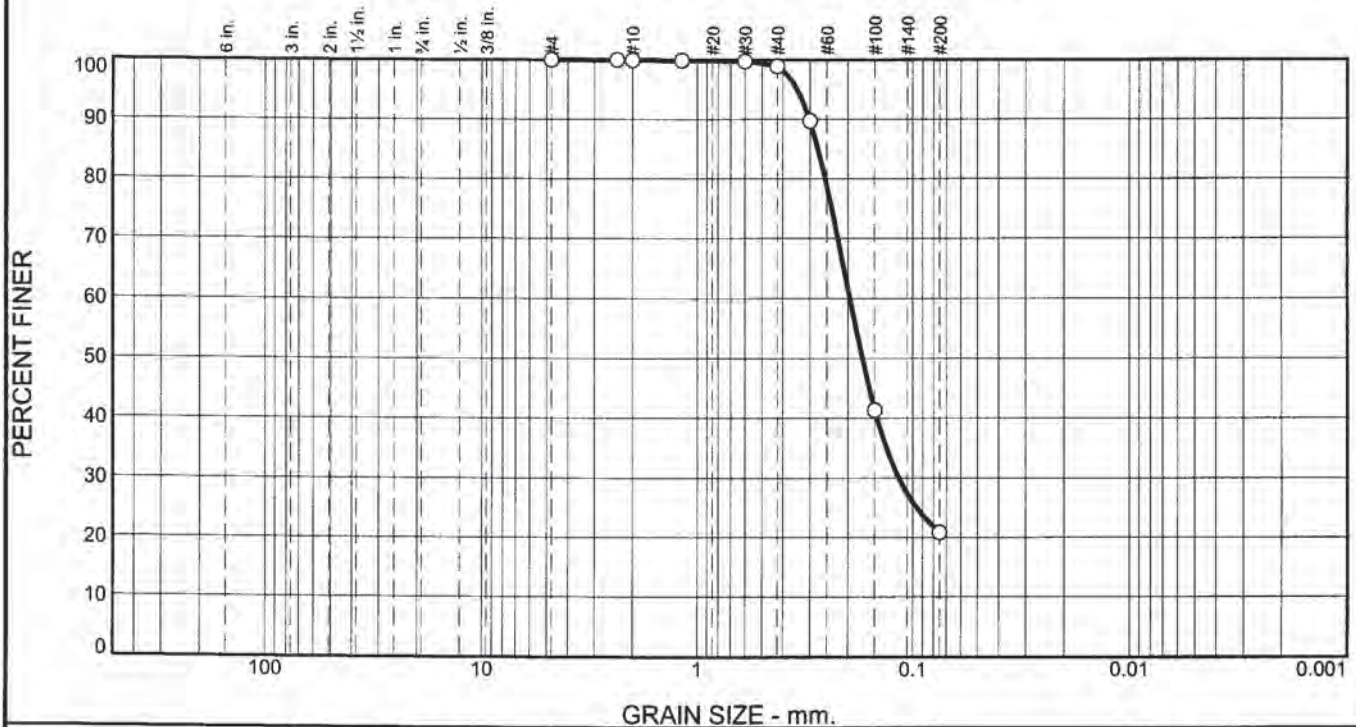
Date Sampled: 5-27-10

| | |
|--|--|
| AMEC Earth & Environmental Reno, NV | Client: Alpha Analytical - Misc. Lab Testing Project: Misc. Lab Testing Project No: 1041900786 |
| Figure 07A-1642 | |

Particle Size Distribution Report



Particle Size Distribution Report



| % +3" | % Gravel | | % Sand | | | % Fines | |
|-------|----------|------|--------|--------|------|---------|------|
| | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| 0.0 | 0.0 | 0.0 | 0.1 | 1.0 | 78.0 | 20.9 | |

| Test Results (ASTM D 422 & ASTM D 1140) | | | |
|---|---------------|------------------|----------------|
| Opening Size | Percent Finer | Spec.* (Percent) | Pass? (X=Fail) |
| #4 | 100.0 | | |
| #8 | 100.0 | | |
| #10 | 99.9 | | |
| #16 | 99.9 | | |
| #30 | 99.7 | | |
| #40 | 98.9 | | |
| #50 | 89.7 | | |
| #100 | 41.4 | | |
| #200 | 20.9 | | |

* (no specification provided)

Material Description

Soil

Atterberg Limits (ASTM D 4318)

PL= LL= PI=

Classification

USCS (D 2487)= AASHTO (M 145)=

Coefficients

D₉₀= 0.3017 D₈₅= 0.2751 D₆₀= 0.1953
D₅₀= 0.1710 D₃₀= 0.1162 D₁₅=
D₁₀= C_u= C_c=

Remarks

Client Sample I.D.: SB1017SO052710

Date Received: 10-19-10 **Date Tested:** 10-19-10

Tested By: Chris Hegge

Checked By: Michael Hawe, S.E.T.

Title: Laboratory Supervisor

Location: E2M10052742-10A-1644
Sample Number: 1471F

Date Sampled: 5-27-10

| | |
|--|---|
| AMEC Earth & Environmental Reno, NV | Client: Alpha Analytical - Misc. Lab Testing Project: Misc. Lab Testing Project No: 1041900786 |
| Figure 10A-1644 | |

Work Order Information

AMENDED #4

E2M10052742

Thursday, October 28, 2010 02:55 PM

Amended 10/28/10 @ 14:48: Per phone conversation w/ Clayton 10/28/10 @ 14:36 added Ni and Zn to samples -03A, -06A, -09A. EA

correct for Ni & Zn - Jy 10/29/10

Appendix B

USEPA SOP 2046



SLUG TESTS

1.0 SCOPE AND APPLICABILITY

This procedure is applicable to determine the horizontal hydraulic conductivity of distinct geologic horizons under in-situ conditions. The hydraulic conductivity (K) is an important parameter for modeling the flow of groundwater in an aquifer.

These are standard (i.e. typically applicable) operating procedures which may be varied or changed as required, dependent upon site conditions, equipment limitations or limitations imposed by the procedure. In all instances, the ultimate procedures employed should be documented and associated with the final report.

Mention of trade names or commercial products does not constitute U.S. Environmental Protection Agency (U.S. EPA) endorsement or recommendation for use.

2.0 METHOD SUMMARY

A slug test involves the instantaneous injection or withdrawal of a volume or slug of water or solid cylinder of known volume. This is accomplished by displacing a known volume of water from a well and measuring the artificial fluctuation of the groundwater level.

The primary advantages of using slug tests to estimate hydraulic conductivities are numerous. First, estimates can be made in-situ, thereby avoiding errors incurred in laboratory testing of disturbed soil samples. Second, tests can be performed quickly at relatively low costs because pumping and observation wells are not required. And lastly, the hydraulic conductivity of small discrete portions of an aquifer can be estimated (e.g., sand layers in a clay).

3.0 SAMPLE PRESERVATION, CONTAINERS, HANDLING AND STORAGE

This section is not applicable to this standard operating procedure (SOP).

4.0 INTERFERENCES AND POTENTIAL PROBLEMS

Limitations of slug testing include: 1) only the hydraulic conductivity of the area immediately surrounding the well is estimated which may not be representative of the average hydraulic conductivity of the area, and 2) the storage coefficient, S, usually cannot be determined by this method.

5.0 EQUIPMENT/APPARATUS

The following equipment is needed to perform slug tests. All equipment which comes in contact with the well should be decontaminated and tested prior to commencing field activities.

- C Tape measure (subdivided into tenths of feet)
- C Water pressure transducer
- C Electric water level indicator
- C Weighted tapes
- C Steel tape (subdivided into tenths of feet)
- C Electronic data-logger (if transducer method is used)
- C Stainless steel slug of a known volume
- C Watch or stopwatch with second hand
- C Semi-log graph paper (if required)
- C Water proof ink pen and logbook
- C Thermometer
- C Appropriate references and calculator
- C Electrical tape
- C 21X micrologger
- C Compact portable computer or equivalent with Grapher installed on the hard disk

6.0 REAGENTS

No chemical reagents are used in this procedure; however, decontamination solvents may be necessary. If decontamination of the slug or equipment is required, refer to the Sampling Equipment Decontamination SOP and the site specific work plan.

7.0 PROCEDURES

7.1 Field Procedures

The following general procedures may be used to collect and report slug test data. These procedures may be modified to reflect site specific conditions:

1. When the slug test is performed using an electronic data-logger and pressure transducer, all data will be stored internally or on computer diskettes or tape. The information will be transferred directly to the main computer and analyzed. A computer printout of the data shall be maintained in the files as documentation.

If the slug test data is collected and recorded manually, the slug test data form (Figure 1, Appendix A) will be used to record observations. The slug test data form shall be completed as follows:

- C Site ID - Identification number assigned to the site.
- C Location ID - Identification of location being tested.
- C Date - The date when the test data was collected in this order: year, month, day (e.g., 900131 for January 31, 1990).
- C Slug volume (ft³) - Manufacturer's specification for the known volume or displacement of the slug device.
- C Logger - identifies the company or person responsible for performing the field measurements.
- C Test method - The slug device is either injected or lowered into the well or withdrawn or pulled-out from the monitor well. Check the method that is applicable to the test situation being run.
- C Comments - Appropriate

observations or information for which no other blanks are provided.

C Elapsed time (min) - Cumulative time readings from beginning of test to end of test, in minutes.

C Depth to water (ft) - Depth to water recorded in tenths of feet.

2. Decontaminate the transducer and cable.
3. Make initial water level measurements on monitor wells in an upgradient to downgradient sequence, if possible.
4. Before beginning the slug test, information will be recorded and entered into the electronic data-logger. The type of information may vary depending on the model used. When using different models, consult the operator's manual for the proper data entry sequence to be used.
5. Test wells from least contaminated to most contaminated, if possible.
6. Determine the static water level in the well by measuring the depth to water periodically for several minutes and taking the average of the readings.
7. Cover sharp edges of the well casing with duct tape to protect the transducer cables.
8. Install the transducer and cable in the well to a depth below the target drawdown estimated for the test but at least two feet from the bottom of the well. Be sure the depth of submergence is within the design range stamped on the transducer. Temporarily tape the transducer cable to the well to keep the transducer at a constant depth.
9. Connect the transducer cable to the electronic data-logger.
10. Enter the initial water level and transducer design range into the recording device according to manufacturer's instructions (the transducer design range will be stamped on the side of the transducer). Record the initial water level on the recording device.
11. "Instantaneously" introduce or remove a

known volume or slug of water to the well. Another method is to introduce a solid cylinder of known volume to displace and raise the water level, allow the water level to restabilize and remove the cylinder. It is important to remove or add the volumes as quickly as possible because the analysis assumes an "instantaneous" change in volume is created in the well.

12. At the moment of volume addition or removal assigned time zero, measure and record the depth to water and the time at each reading. Depths should be measured to the nearest 0.01 foot. The number of depth-time measurements necessary to complete the test are variable. It is critical to make as many measurements as possible in the early part of the test. The number and intervals between measurements will be determined from earlier previous aquifer tests or evaluations.
13. Continue measuring and recording depth-time measurements until the water level returns to equilibrium conditions or a sufficient number of readings have been made to clearly show a trend on a semi-log plot of time versus depth.
14. Retrieve slug (if applicable).

Note: The time required for a slug test to be completed is a function of the volume of the slug, the hydraulic conductivity of the formation and the type of well completion. The slug volume should be large enough that a sufficient number of water level measurements can be made before the water level returns to equilibrium conditions. The length of the test may range from less than a minute to several hours.

If the well is to be used as a monitoring well, precautions should be taken that the wells are not contaminated by material introduced into the well. If water is added to the monitoring well, it should be from an uncontaminated source and transported in a clean container. Bailers or measuring devices should be cleaned prior to the test. If tests are performed on more than one monitor well, care must be taken to avoid cross contamination of the wells.

Slug tests shall be conducted on relatively undisturbed wells. If a test is conducted on a well that has recently been pumped for water sampling purposes, the measured water level must be within 0.1 foot of the water level prior to sampling. At least one week should elapse between the drilling of a well and the performance of a slug test.

7.2 Post Operation Procedures

When using an electronic data-logger use the following procedure:

1. Stop logging sequence.
2. Print data.
3. Send data to computer by telephone.
4. Save memory and disconnect battery at the end of the day's activities.
5. Review field forms for completeness.

8.0 CALCULATIONS

The simplest interpretation of piezometer recovery is that of Hvorslev (1951). The analysis assumes a homogenous, isotropic medium in which soil and water are incompressible. Hvorslev's expression for hydraulic conductivity (K) is:

$$K = \frac{r^2 \ln(L/R)}{2 L T_0} \text{ for } L/R > 8$$

where:

- | | | |
|----------------------|---|--|
| K | = | hydraulic conductivity [ft/sec] |
| r | = | casing radius [ft] |
| L | = | length of open screen (or borehole) [ft] |
| R | = | filter pack (borehole) radius [ft] |
| T₀ | = | Basic Time Lag [sec]; value of t on semi-logarithmic plot of H-h/H-H ₀ vs. t, where H-h/H-H ₀ = 0.37 |
| H | = | initial water level prior to removal of slug |
| H₀ | = | water level at t = 0 |
| h | = | recorded water level at t > 0 |

(Hvorslev, 1951; Freeze and Cherry, 1979)

The Bower and Rice method is also commonly used for K calculations. However, it is much more time consuming than the Hvorslev method. Refer to Freeze and Cherry or Applied Hydrogeology (Fetter) for a discussion of these methods.

9.0 QUALITY ASSURANCE/ QUALITY CONTROL

The following general quality assurance procedures apply:

1. All data must be documented on standard Chain of Custody records, field data sheets, or within personal/site logbooks.
2. All instrumentation must be operated in accordance with operating instructions as supplied by the manufacturer, unless otherwise specified in the work plan. Equipment checkout and calibration activities must occur prior to sampling/operation, and they must be documented.

The following specific quality assurance activity will apply:

1. Each well should be tested at least twice in order to compare results.

10.0 DATA VALIDATION

This section is not applicable to this SOP.

11.0 HEALTH AND SAFETY

When working with potential hazardous materials, follow U.S. EPA, OSHA and corporate health and safety procedures.

12.0 REFERENCES

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APPENDIX A

Slug Test Data Form

Page __ of __

FIGURE 1. Slug Test Data Form

DATE: _____

SITE ID: _____

SLUG VOLUME (ft³): _____

LOCATION ID: _____

LOGGER: _____

TEST METHOD: __ SLUG INJECTION __ SLUG WITHDRAWAL

COMMENTS: _____

Time Beginning of Test #1 _____

Time Beginning of Test #2 _____

Time End of Test #1 _____

Time End of Test #2 _____

=====

ELAPSED TIME
(MIN)

DEPTH TO
WATER (FT)

ELAPSED TIME
(MIN)

DEPTH TO
WATER (FT)

Appendix C

September 2010 *Groundwater and Surface Water Sampling Results*



November 12, 2010

Mr. Danny Rakestraw
Manager, NV Environmental and Resources Management Group
7180 Pollock Drive, Suite 200
Las Vegas, NV 89119-9005

Reference: **Groundwater and Surface Water Sampling Results
North Truckee Drain Realignment and Permitting Project, Sparks, Nevada
HDR | e²M Project No. 135799**

Dear Mr. Rakestraw:

This letter documents procedures performed by engineering-environmental Management, Inc (HDR | e²M) and presents the results of laboratory analysis of groundwater samples collected from three monitoring wells (B-03 (MW), B-07 (MW), and B-11 (MW)) and a surface water sample from the North Truckee Drain (NTD), Figure 1. The samples were collected on September 14, 2010.

Scope of Work

The following Scope of Work outlines the activities conducted during this sampling event:

- Recorded static groundwater levels in three monitoring wells,
- Collected groundwater samples from the three monitoring wells and a surface water sample from the North Truckee Drain,
- Delivered water samples to Alpha Analytical in Sparks, Nevada,
- Analyzed samples for volatile organic compounds (VOCs), total petroleum hydrocarbons as motor oil (TPH-O), total petroleum hydrocarbons as diesel (TPH-d), chlorides, pH, total phosphates as phosphorous, nitrate, nitrite, total nitrogen, total ammonia, total dissolved solids (TDS), turbidity, color, fecal coliform, E. coli, total suspended solids (TSS), sulfate, sodium, and alkalinity CaCO₃, and
- Prepared this letter report.

Field Procedures

On September 14, 2010, static groundwater level measurements were obtained from three groundwater monitoring wells. The depths to groundwater are tabulated on Table 1. Groundwater depths were measured relative to the north side of the well casings using an electronic water level indicator. Prior to taking a measurement, the cap was removed from each well and the water was allowed to equilibrate with atmospheric pressure for approximately 30 minutes. The water level indicator probe was decontaminated after each use by washing it in an Alconox® detergent solution followed by a tap-water rinse. The depth-to-water measurements were recorded on Monitoring Well Sampling Logs, copies of which are included in Appendix A.



Mr. Rakestraw
November 12, 2010
Page 2 of 3

Samples from monitoring wells were collected using low-flow sampling protocols. Observations and water quality parameters recorded during purging include turbidity, volume of water purged, purge rate, water level, temperature, pH, specific conductance, temperature, dissolved oxygen, and any other pertinent Site information were recorded on the Monitoring Well Sampling Logs. Purged water is stored at the HDR | e²M storage shed in five gallon totes pending disposal. Approximately six gallons of groundwater were generated as part of this monitoring event.

On September 14, 2010, a surface water sample was collected from the North Truckee Drain (NTD). The sample was collected from the private bridge located immediately to the south of well B-07 (MW). The sample was collected by lowering a disposable polyethylene bailer from the middle of the bridge into the NTD. The bailer was raised and the NTD sample was decanted into the laboratory-supplied containers.

Groundwater samples were labeled with the project name, sample ID, date, and time the sample was collected. This same information was recorded on a chain-of-custody form. The samples were placed in a cooler chilled with ice, then transported under chain-of-custody procedures to Alpha Analytical.

Discussion of Water Quality Standards

The laboratory analytical results are presented in Table 1 and the laboratory analytical report is attached as Appendix B. For comparison, the water quality standards (WQS) for the Truckee River Lockwood Bridge control point (NAC 445A.187) are also located on Table 1. NAC 445A.187 is provided as Table 3. Where WQS are not available, HDR | e²M used federal drinking water maximum contaminant levels (MCL) as screening levels. As listed on Table 1, WQS violations are either an exceedance of the annual average (A-Avg.), single value (SV), or annual geometric mean (AGM). Table 1 analytical results displayed in bold indicate an exceedance of either the SV or A-Avg.

As displayed on Table 2, standards of water quality are displayed in two columns (requirements to maintain existing higher quality (RMHQ) or water quality standards for beneficial uses). The WQS used on Table 1 are the RMHQs, when available. Telephone conversation with the NDEP indicates that all attempts will be made to maintain the highest water quality of the river. Therefore, unless the receiving water contains analytes in excess of the RMHQs, RMHQs will likely be used as the permitted WQS. However, if the discharger can not meet a specific RMHQ, a formal process does exist where a variance from the RMHQ can be authorized on a case by case basis. This variance will most likely be equivalent to the water quality standards for beneficial uses.

Water Quality Results

As indicated on Table 1, WQS exceedences were reported in all wells and the NTD. Groundwater exceedences include dissolved oxygen, total nitrogen, sulfate, chlorides, TDS, color, phosphorous, and sodium. Analytes which exceeded their respective WQS in the NTD sample include dissolved oxygen, total nitrogen, sulfate, chlorides, TDS, phosphorous and sodium.



Mr. Rakestraw
November 12, 2010
Page 3 of 3

Sincerely,
HDR | e²M

A handwritten signature in blue ink that reads "Charlie O'Neill".

Charlie O'Neill, CEM 2054, exp. 3/1/2011

“I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state and local statutes, regulations and ordinances.”

Enclosures:

Table 1- Laboratory Analytical Results
Table 2-NAC 445A.187
Figure 1 – Site Plan
Appendix A – Monitoring Well Sampling Logs
Appendix B – Laboratory Analytical Report

Table 1
 Depths to Groundwater and Groundwater/Surface Water Analytical Results
 North Truckee Drain Realignment and Permitting Project
 Sparks, Nevada

| Well ID | Sample Date | Temp | TPH-d | TPH-O | pH | DO | Total N | Nitrate | Nitrite | Sulfate | Chloride | Ammonia as N | TDS | TSS | Turbidity | Color | F. Coliform | E. Coli | Phosphorus | Sodium | Alkalinity | MTBE | VOCs |
|--------------|-------------|------|-------|-------|---------|------------|------------|------------|---------|------------|------------|--------------|-------------|--------------|-------------|-------------|---------------|-----------|-------------|------------|------------|--------|--------|
| Units | | °C | mg/L | mg/L | SU | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | NTU | Color units | No./100ml | No./100ml | mg/L | mg/L | mg/L | mg/L | mg/L |
| B-03 (MW) | 02/11/10 | 16.2 | <0.50 | <0.50 | 7.2 | 2.5 | 15 | 12 | <0.25 | 160 | 230 | <0.10 | 1000 | 14000 | 74 | 20 | <2 | <2 | 1.1 | 120 | 430 | <0.001 | All ND |
| | 04/08/10 | 14.3 | <0.50 | <0.50 | 7.5 | 4.0 | 16 | 16 | <0.25 | 160 | 240 | 0.12 | 1200 | 2000 | 14 | 10 | <2 | <2 | 1.2 | 210 | 420 | <0.001 | All ND |
| | 09/14/10 | 19.2 | <0.50 | <0.50 | 7.1 | 2.0 | 14 | 14 | <0.25 | 150 | 89 | <0.10 | 810 | 11 | 6.7 | <5 | <2 | <2 | 0.21 | 160 | 450 | <0.001 | All ND |
| B-07 (MW) | 02/11/10 | 15.2 | <0.50 | 0.52 | 7.5 | 1.2 | 5.8 | 3.9 | <0.25 | 250 | 160 | 0.28 | 1200 | 20000 | 59 | 30 | <2 | <2 | 6.3 | 350 | 690 | <0.001 | All ND |
| | 04/08/10 | 16.4 | <0.50 | <0.50 | 7.7 | 2.6 | 2.0 | 1.6 | <0.25 | 280 | 260 | <0.10 | 1700 | 670 | 7.9 | 10 | <2 | <2 | 0.60 | 400 | 810 | <0.001 | All ND |
| | 09/14/10 | 17.5 | <0.50 | <0.50 | 7.4 | 1.3 | 1.8 | 1.8 | <0.25 | 270 | 250 | <0.10 | 1400 | 24 | 4.2 | 10 | <2 | <2 | 0.35 | 350 | 840 | <0.001 | All ND |
| B-11 (MW) | 02/11/10 | 17.4 | <0.50 | <0.50 | 8.0 | <0.1 | 3.1 | <0.25 | <0.25 | 49 | 23 | 0.99 | 1400 | 7200 | 1900 | 500 | <2 | <2 | 8.8 | 410 | 810 | <0.001 | All ND |
| | 04/08/10 | 16.4 | <0.50 | <0.50 | 8.1 | 1.8 | 1.2 | <0.25 | <0.25 | 61 | 25 | 0.25 | 1100 | 1200 | 100 | 250 | <2 | <2 | 2.4 | 390 | 790 | <0.001 | All ND |
| | 09/14/10 | 19.7 | <0.50 | <0.50 | 7.7 | 2.6 | 0.89 | <0.25 | <0.25 | 52 | 25 | <0.10 | 890 | 4 | 4.0 | 400 | <2 | <2 | 2.7 | 320 | 850 | <0.001 | All ND |
| NTD | 02/11/10 | 9.9 | <0.50 | <0.50 | 8.1 | 9.2 | 4.6 | 0.75 | <0.25 | 190 | 73 | 1.10 | 670 | 860 | 11 | 15 | 170 | 110 | 8.2 | 150 | 320 | 0.0021 | All ND |
| | 04/08/10 | 14.5 | <0.50 | <0.50 | 8.1 | 11 | 2.4 | 1.5 | <0.25 | 170 | 65 | 0.24 | 690 | 28 | 1.6 | <5 | 50 | 50 | 0.19 | 100 | 300 | 0.0029 | All ND |
| | 09/14/10 | 22.8 | <0.50 | <0.50 | 8.0 | 6.9 | 4.8 | 0.73 | <0.25 | 110 | 42 | <0.10 | 390 | 910 | 15 | 15 | > 1600 | 50 | 1.0 | 61 | 220 | <0.001 | All ND |
| WQS - A-Avg. | NE | NE | NE | NE | NE | 0.75 | NE | NE | NE | 40 | ≤26 | + | 211 | 26 | NE | NE | 91 A | 127 | <0.05 | 1.6 | ¥ | NE | NE |
| WQS - SV | Δ0°C | NE | NE | NE | 7.1-8.5 | ≥6.0 | 1.3 B | 2.1 | 0.5 | 47 | ≤30 | + | 261 | 50 | 11 | 76 | 301 | 411 | NE | 2.1 | NE | NE | NE |
| MCL | NE | NE | NE | NE | NE | NE | 10 | 1 | NE | ≤250 | NE | 500 | NE | NE | 15 | 0 | 0 | NE | NE | NE | NE | NE | Varies |

Notes:

- NE not established
- RMHQ Requirements to maintain existing higher quality
- NTU nephelometric turbidity units
- PCU platinum cobalt units
- SU Standard units
- mg/L milligrams per liter
- WQS NAC 445A.187 Truckee River at Lockwood Ridge (NRS 445A.425, 445A.520) Water Quality Standards
- Bold** Bold values indicate and exceedance of the Federal MCL or WQS
- TPH-d total petroleum hydrocarbons as diesel
- TPH-O total petroleum hydrocarbons as oil
- DO Dissolved Oxygen. WQS indicates that DO should be ≥ 6.0 November - March and ≥ 5.0 April - October
- Total N Total Nitrogen
- F. Coliform Fecal Coliform
- No. Number
- Temp Temperature measured in the field during sample collection.
- VOCs Volatile organic compounds
- ND Analyte not detected above laboratory report limit
- MTBE Methyl-tert butyl ether

WQS Notes:

- SV Single Value
- A-Avg. Annual Average
- AGM Annual geometric mean
- DO Nov. - March ≥ 6.0 Apr. Oct. ≥ 5.0
- + See NAC 445A.118
- ¥ Less than 25% change from natural conditions. Current natural conditions are unknown and likely vary over time.
- A Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 90 per 100ml nor may more than 10 % of the total samples taken during any 30-day period exceed 300 per 100ml
- B Total nitrogen also can not exceed the A.-Avg. of 0.75
- E. Coli The WQS standard selected assumes that recreation involving water contact is occurring in the area. If there is no recreation involving water contact the WQS increases to ≤410.

Analytical Methods:

| | | | |
|------------|-----------------------------------|--------------|---------------------------|
| TPH-d | EPA Method SW8015B | Chloride | EPA Method 300.0 |
| TPH-o | EPA Method SW8015B | Ammonia as N | SM4500-NH3D |
| pH | EPA Method 150.2/SM4500HB/SW9040C | TDS | SM2540C |
| DO | SM4500C | TSS | SM2540D |
| Total N | Total by calculation | Turbidity | EPA Method 180.1/SM2130B |
| Nitrate | EPA Method 300.0 | Color | SM2120B |
| Nitrite | EPA Method 300.0 | F. Coliform | SM9221E |
| Sulfate | EPA Method 300.0 | E. Coli | SM9221B |
| Alaklinity | SM2320B | Phosphorus | EPA Method 365.3/SM4500PE |
| VOCs | EPA Method SW8260B | Sodium | EPA Method SW6020/SW6020A |
| MTBE | EPA Method SW8260B | | |

Depths to Groundwater

| | B-03 (MW) | B-03 (MW) | B-07 (MW) | B-07 (MW) | B-11 (MW) | B-11 (MW) |
|-----------|-------------|-------------------|-------------|-------------------|-------------|-------------------|
| | DTW (fbtoc) | Elevation (famsl) | DTW (fbtoc) | Elevation (famsl) | DTW (fbtoc) | Elevation (famsl) |
| TOC Elev. | 4395.3 | | 4398.2 | | 4389.9 | |
| 2/11/2010 | 13.60 | 4381.70 | 17.39 | 4380.81 | 13.66 | 4376.24 |
| 4/8/2010 | 13.45 | 4381.85 | 17.05 | 4381.15 | 13.13 | 4376.77 |
| 9/14/2010 | 13.52 | 4381.78 | 17.07 | 4381.13 | 12.95 | 4376.95 |

Note: depths measured in feet below top of casing
 famsl= feet above mean sea level
 fbtoc = feet below top of casing

NOTE: The above WQOs are assuming that upstream water does not contain analytes in excess of RMHQs. WQS variance can be granted on a case by case basis.

Table 2
North Truckee Drain
Sparks, NV

NAC 445A.187 Truckee River at Lockwood Bridge. (NRS 445A.425, 445A.520)

STANDARDS OF WATER QUALITY
Truckee River

Control Point at Lockwood Bridge. The limits of this table apply from the control point at Lockwood to the East McCarran control point.

| PARAMETER | REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY | WATER QUALITY STANDARDS FOR BENEFICIAL USES | BENEFICIAL USES |
|--|--|--|---|
| Temperature °C- Maximum | | Nov.-Mar. : ≤13°C Apr. : ≤21°C ^e May : ≤22°C ^{e,f} June-Oct. : ≤23°C ^{e,f} | Aquatic life ^b and recreation involving contact with the water. |
| ΔT ^a | ΔT = 0°C | ΔT ≤2°C : ≤23°C ^{e,f} | |
| pH Units | 7.1 - 8.5 | S.V. : 6.5 - 9.0 ΔpH : ±0.5 Max. | Recreation involving contact with the water, ^b propagation of wildlife, ^b aquatic life, irrigation, watering of livestock, municipal or domestic supply and industrial supply. |
| Dissolved Oxygen - mg/l | — | S.V. : Nov.-Mar. : ≥6.0 Apr.-Oct. : ≥5.0 | Aquatic life, ^b recreation involving contact with the water, propagation of wildlife, watering of livestock, municipal or domestic supply and recreation not involving contact with the water. |
| Chlorides - mg/l | Avg. A- : ≤26.0 S.V. : ≤30.0 | S.V. : ≤250 | Municipal or domestic supply, ^b propagation of wildlife, irrigation and watering of livestock. |
| Total Phosphates (as P) - mg/l | — | A-Avg. : ≤0.05 | Aquatic life, ^b recreation involving contact with the water, ^b municipal or domestic supply and recreation not involving contact with the water. |
| Nitrogen Species (N) - mg/l | — | TN A-Avg. : ≤0.75 TN S.V. : ≤1.2 Nitrate S.V. : ≤2.0 Nitrite S.V. : ≤0.4 | Aquatic life, ^b recreation involving contact with the water, ^b municipal or domestic supply and recreation not involving contact with the water. |
| Total Ammonia (as N) - mg/l | — | g | Aquatic life. ^b |
| Total Dissolved Solids - mg/l | Avg. A- : ≤210.0 S.V. : ≤260.0 | A-Avg. : ≤500 | Municipal or domestic supply, ^b irrigation and watering of livestock. |
| Turbidity - NTU | — | S.V. : ≤10 | Aquatic life ^b and municipal or domestic supply. |
| Color - PCU | d | S.V. : ≤75 | Municipal or domestic supply. |
| Alkalinity (as CaCO ₃) - mg/l | — | less than 25% change from natural conditions | Aquatic life ^b and propagation of wildlife. |
| Fecal Coliform - No./100ml | A.G.M. : ≤90.0 S.V.: : ≤300.0 | ≤200/400 ^c | Recreation involving contact with the water, ^b recreation not involving contact with the water, municipal or domestic supply, irrigation, propagation of wildlife and watering of livestock. |
| E. coli - No./100ml Annual Geometric Mean Single Value | — — | ≤126 ≤410 | Recreation involving contact with the water ^b and recreation not involving contact with the water. |
| Suspended Solids - mg/l | Avg. A- : ≤25.0 | S.V. : ≤50 | Aquatic life. ^b |
| Sulfate - mg/l | Avg. A- : ≤39.0 S.V. : ≤46.0 | S.V. : ≤250 | Municipal or domestic supply. ^b |
| Sodium - SAR | Avg. A- : ≤1.5 S.V. : ≤2.0 | A-Avg. : ≤8 | Irrigation ^b and municipal or domestic supply. |

- a. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard. The ΔT of ≤2°C is only for the Reno and Sparks Joint Wastewater Treatment Plant.
- b. The most restrictive beneficial use.
- c. Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100ml.
- d. Increase in color must not be more than 10 PCU above natural conditions.
- e. When flows are adequate to induce spawning runs of cui-ui and Lahontan cutthroat trout, the standard is 14°C from April through June.
- f. The desired temperature for the protection of juvenile Lahontan cutthroat trout is 21°C, even though that temperature is not attainable at all times.
- g. The ambient water quality criteria for ammonia are specified in NAC 445A.118.

[Environmental Comm'n, Water Pollution Control Reg. part § 4.2.5, Table 42, eff. 5-2-78; A 1-25-79; 8-28-79; 1-25-80; 12-3-80]—(NAC A 10-25-84; 10-29-93; R099-02, 12-17-2002)

Appendix A

Groundwater Sampling Logs

MONITORING WELL SAMPLING LOG

SITE NAME/LOCATION North Truckee Drain PROJECT #: 135799 001

DATE: 9/14/10 SAMPLER'S INITIALS: JR

WELL ID: NTD WELL DIAMETER (in): -- Bottom of Channel: 19.5

FLOW RATE: -- DEPTH TO WATER (ft): --

PURGE METHOD: -- SAMPLING METHOD: Disposable Bailer

PURGE MEASUREMENTS

| Time | Liters Purged | Depth to Water (ft) | Temp (C) | pH | SC (mS) | TDS (ppm) | DO (mg/L) | Turbidity | ORP |
|-------------------|---------------|---------------------|----------|------|---------|-----------|--------------|-----------|-----|
| 1630 | — | 17.09 | 22.8 | 9.05 | 0.999 | 0.4 | 38.7 8.27 | 38.7 | 143 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Sample Time/Date: | | | | | | 1630 | 9/14/10 | | |

WELL ID: B-03(MW) WELL DIAMETER (in): 2 WELL DEPTH (ft): 26.5

^{flow rate}
SCREENED INTERVAL (ft): 250 ml/min DEPTH TO WATER (ft): 13.52

PURGE METHOD: Low flow bladder pump SAMPLING METHOD: Poly tubing

PURGE MEASUREMENTS

| Time | Liters Purged | Depth to Water (ft) | Temp (C) | pH | SC (mS) | TDS (ppm) | DO (mg/L) | Turbidity | ORP |
|-------------------|---------------|---------------------|----------|------|---------|-----------|-----------|-----------|-----|
| 1125 | 1 | 13.52 | 19.6 | 7.31 | 1.21 | 0.8 | 0.57 | 509 | 189 |
| 1130 | 2.25 | 13.52 | 19.2 | 7.36 | 1.21 | 0.8 | 0.64 | 435 | 188 |
| 1140 | 4.75 | 13.52 | 19.1 | 7.42 | 1.21 | 0.8 | 0.77 | 466 | 183 |
| 1145 | 6 | 13.52 | 19.0 | 7.44 | 1.21 | 0.8 | 0.79 | 461 | 182 |
| 1150 | 7.25 | 13.52 | 19.1 | 7.47 | 1.20 | 0.8 | 0.93 | 360 | 180 |
| 1210 | 12 | 13.52 | 19.1 | 7.51 | 1.18 | 0.8 | 1.03 | 115 | 178 |
| 1230 | 17 | 13.52 | 19.2 | 7.51 | 1.18 | 0.8 | 1.13 | 50 | 177 |
| 1235 | 18.25 | 13.52 | 19.2 | 7.51 | 1.18 | 0.8 | 1.17 | 49 | 177 |
| 1246 | 19.50 | 13.52 | 19.2 | 7.52 | 1.18 | 0.8 | 1.17 | 46 | 177 |
| Sample Time/Date: | | | | | | 1250 | 9/14 | | |

MONITORING WELL SAMPLING LOG

SITE NAME/LOCATION North Truckee Drain

PROJECT #: 135799 001

DATE: 9/14/10

SAMPLER'S INITIALS: JRC

WELL ID: B-7(MW) WELL DIAMETER (in): 2

WELL DEPTH (ft): 31

^{flow}
SCREENED INTERVAL (ft): 250 ml/min

DEPTH TO WATER (ft): 17.07

PURGE METHOD: Low flow bladder pump

SAMPLING METHOD: Poly tubing

PURGE MEASUREMENTS

| Time | Liters Purged | Depth to Water (ft) | Temp (C) | pH | SC (mS) | TDS (ppm) <i>g/L</i> | DO (mg/L) | Turbidity | ORP |
|------------------------------------|---------------|---------------------|----------|------|---------|-------------------------|-----------|-----------|-----|
| 1510 | 1 | 17.07 | 19.5 | 7.76 | 2.26 | 1.4 | 0.94 | 208 | 94 |
| 1530 | 6 | 17.07 | 17.6 | 7.89 | 2.14 | 1.4 | 0 | 52 | 79 |
| 1535 | 7.25 | 17.07 | 17.5 | 7.90 | 2.16 | 1.4 | 0 | 49 | 78 |
| 1540 | 8.50 | 17.07 | 17.5 | 7.91 | 2.17 | 1.4 | 0 | 47 | 77 |
| Sample Time/Date: <u>1550 9/14</u> | | | | | | | | | |

WELL ID: B-11(MW) WELL DIAMETER (in): 2

WELL DEPTH (ft): 26.5

^{Flow Rate}
SCREENED INTERVAL (ft): 250 ml/min

DEPTH TO WATER (ft): 12.95

PURGE METHOD: Low flow bladder pump

SAMPLING METHOD: Poly tubing

PURGE MEASUREMENTS

| Time | Liters Purged | Depth to Water (ft) | Temp (C) | pH | SC (mS) | TDS (ppm) <i>g/L</i> | DO (mg/L) | Turbidity | ORP |
|------------------------------------|---------------|---------------------|----------|------|---------|-------------------------|-----------|-----------|------|
| 1340 | 1 | 12.95 | 22.4 | 7.86 | 1.16 | 0.7 | 2.14 | 63.1 | -111 |
| 1345 | 2.25 | 12.95 | 20.0 | 7.85 | 1.07 | 0.7 | 2.26 | 43.0 | -119 |
| 1350 | 3.50 | 12.95 | 19.8 | 7.92 | 1.11 | 0.7 | 2.49 | 23.3 | -123 |
| 1355 | 4.75 | 12.95 | 20.0 | 7.98 | 1.13 | 0.7 | 2.61 | 19.3 | -126 |
| 1400 | 6 | 12.95 | 19.9 | 8.04 | 1.15 | 0.7 | 2.70 | 17.3 | -129 |
| 1405 | 7.25 | 12.95 | 19.6 | 8.09 | 1.16 | 0.7 | 2.73 | 17.2 | -131 |
| 1410 | 8.50 | 12.95 | 19.7 | 8.12 | 1.16 | 0.7 | 2.73 | 16.6 | -133 |
| Sample Time/Date: <u>1420 9/14</u> | | | | | | | | | |

Appendix B

Laboratory Analytical Report



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: North Truckee Drain

Attn: Jacob Ruffing
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10091501-01A
Client I.D. Number: NTD

Sampled: 09/14/10
Received: 09/14/10

Method Reference : EPA Method 300.0

| Analyte | Result | Reporting Limit | Qual | Units | Date Extracted | Date Analyzed |
|-------------------|--------|-----------------|------|-------|----------------|----------------|
| Chloride | 42 | 0.50 | | mg/L | 09/15/10 10:23 | 09/15/10 13:49 |
| Nitrite (NO2) - N | ND | 0.25 | | mg/L | 09/15/10 10:23 | 09/15/10 13:49 |
| Nitrate (NO3) - N | 0.73 | 0.25 | | mg/L | 09/15/10 10:23 | 09/15/10 13:49 |
| Sulfate (SO4) | 110 | 75 | | mg/L | 09/15/10 10:23 | 09/15/10 13:49 |

Method Reference : SM4500NORGC / SM4500-NH3D

| Analyte | Result | Reporting Limit | Qual | Units | Date Extracted | Date Analyzed |
|---------------------------|--------|-----------------|------|-------|----------------|---------------|
| Nitrogen, Kjeldahl, Total | 4.1 | 0.25 | | mg/L | 09/16/10 | 09/16/10 |

Method Reference : Total by Calculation

| Analyte | Result | Reporting Limit | Qual | Units | Date Extracted | Date Analyzed |
|---------------------|--------|-----------------|------|-------|----------------|---------------|
| Total Nitrogen as N | 4.8 | 0.25 | | mg/L | 09/16/10 | 09/16/10 |

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

9/22/10

Report Date



Alpha Analytical, Inc.

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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: North Truckee Drain

Attn: Jacob Ruffing
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10091501-02A
Client I.D. Number: B-3 (MW)

Sampled: 09/14/10
Received: 09/14/10

Method Reference : EPA Method 300.0

| Analyte | Result | Reporting Limit | Qual | Units | Date Extracted | Date Analyzed |
|--------------------------------|--------|-----------------|------|-------|----------------|----------------|
| Chloride | 89 | 50 | | mg/L | 09/15/10 10:23 | 09/15/10 14:08 |
| Nitrite (NO ₂) - N | ND | 0.25 | | mg/L | 09/15/10 10:23 | 09/15/10 14:08 |
| Nitrate (NO ₃) - N | 14 | 0.25 | | mg/L | 09/15/10 10:23 | 09/15/10 14:08 |
| Sulfate (SO ₄) | 150 | 75 | | mg/L | 09/15/10 10:23 | 09/15/10 14:08 |

Method Reference : SM4500NORGC / SM4500-NH3D

| Analyte | Result | Reporting Limit | Qual | Units | Date Extracted | Date Analyzed |
|---------------------------|--------|-----------------|------|-------|----------------|---------------|
| Nitrogen, Kjeldahl, Total | ND | 0.25 | | mg/L | 09/16/10 | 09/16/10 |

Method Reference : Total by Calculation

| Analyte | Result | Reporting Limit | Qual | Units | Date Extracted | Date Analyzed |
|---------------------|--------|-----------------|------|-------|----------------|---------------|
| Total Nitrogen as N | 14 | 0.25 | | mg/L | 09/16/10 | 09/16/10 |

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: North Truckee Drain

Attn: Jacob Ruffing
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10091501-03A
Client I.D. Number: B-7 (MW)

Sampled: 09/14/10
Received: 09/14/10

Method Reference : EPA Method 300.0

| Analyte | Result | Reporting Limit | Qual | Units | Date Extracted | Date Analyzed |
|-------------------|--------|-----------------|------|-------|----------------|----------------|
| Chloride | 250 | 50 | | mg/L | 09/15/10 10:23 | 09/15/10 14:26 |
| Nitrite (NO2) - N | ND | 0.25 | | mg/L | 09/15/10 10:23 | 09/15/10 14:26 |
| Nitrate (NO3) - N | 1.8 | 0.25 | | mg/L | 09/15/10 10:23 | 09/15/10 14:26 |
| Sulfate (SO4) | 270 | 75 | | mg/L | 09/15/10 10:23 | 09/15/10 14:26 |

Method Reference : SM4500NORGC / SM4500-NH3D

| Analyte | Result | Reporting Limit | Qual | Units | Date Extracted | Date Analyzed |
|---------------------------|--------|-----------------|------|-------|----------------|---------------|
| Nitrogen, Kjeldahl, Total | ND | 0.25 | | mg/L | 09/16/10 | 09/16/10 |

Method Reference : Total by Calculation

| Analyte | Result | Reporting Limit | Qual | Units | Date Extracted | Date Analyzed |
|---------------------|--------|-----------------|------|-------|----------------|---------------|
| Total Nitrogen as N | 1.8 | 0.25 | | mg/L | 09/16/10 | 09/16/10 |

ND = Not Detected

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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: North Truckee Drain

Attn: Jacob Ruffing
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10091501-04A
Client I.D. Number: B-11 (MW)

Sampled: 09/14/10
Received: 09/14/10

Method Reference : EPA Method 300.0

| Analyte | Result | Reporting Limit | Qual | Units | Date Extracted | Date Analyzed |
|-------------------|--------|-----------------|------|-------|----------------|----------------|
| Chloride | 25 | 0.50 | | mg/L | 09/15/10 10:23 | 09/15/10 14:45 |
| Nitrite (NO2) - N | ND | 0.25 | | mg/L | 09/15/10 10:23 | 09/15/10 14:45 |
| Nitrate (NO3) - N | ND | 0.25 | | mg/L | 09/15/10 10:23 | 09/15/10 14:45 |
| Sulfate (SO4) | 52 | 0.50 | | mg/L | 09/15/10 10:23 | 09/15/10 14:45 |

Method Reference : SM4500NORGC / SM4500-NH3D

| Analyte | Result | Reporting Limit | Qual | Units | Date Extracted | Date Analyzed |
|---------------------------|--------|-----------------|------|-------|----------------|---------------|
| Nitrogen, Kjeldahl, Total | 0.89 | 0.25 | | mg/L | 09/16/10 | 09/16/10 |

Method Reference : Total by Calculation

| Analyte | Result | Reporting Limit | Qual | Units | Date Extracted | Date Analyzed |
|---------------------|--------|-----------------|------|-------|----------------|---------------|
| Total Nitrogen as N | 0.89 | 0.25 | | mg/L | 09/16/10 | 09/16/10 |

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630

Attn: Jacob Ruffing
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 09/14/10

Job: North Truckee Drain

Alkalinity
SM2320B

| Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed |
|--|---------------|-----------------|----------------|---------------|
| Client ID: NTD | | | | |
| Lab ID : E2M10091501-01A Alkalinity, Total (As CaCO3 at pH 4.5) Date Sampled 09/14/10 16:30 | 220 | 10 mg/L | 09/16/10 | 09/16/10 |
| Client ID: B-3 (MW) | | | | |
| Lab ID : E2M10091501-02A Alkalinity, Total (As CaCO3 at pH 4.5) Date Sampled 09/14/10 12:50 | 450 | 10 mg/L | 09/16/10 | 09/16/10 |
| Client ID: B-7 (MW) | | | | |
| Lab ID : E2M10091501-03A Alkalinity, Total (As CaCO3 at pH 4.5) Date Sampled 09/14/10 15:50 | 840 | 10 mg/L | 09/16/10 | 09/16/10 |
| Client ID: B-11 (MW) | | | | |
| Lab ID : E2M10091501-04A Alkalinity, Total (As CaCO3 at pH 4.5) Date Sampled 09/14/10 14:20 | 850 | 10 mg/L | 09/16/10 | 09/16/10 |

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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630

Attn: Jacob Ruffing
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 09/14/10

Job: North Truckee Drain

Ammonia as Nitrogen SM4500-NH3D

| Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed |
|--|---------------|-----------------|----------------|---------------|
| Client ID: NTD | | | | |
| Lab ID : E2M10091501-01A Nitrogen, Ammonia (As N) Date Sampled 09/14/10 16:30 | ND | 0.10 mg/L | 09/17/10 | 09/17/10 |
| Client ID: B-3 (MW) | | | | |
| Lab ID : E2M10091501-02A Nitrogen, Ammonia (As N) Date Sampled 09/14/10 12:50 | ND | 0.10 mg/L | 09/17/10 | 09/17/10 |
| Client ID: B-7 (MW) | | | | |
| Lab ID : E2M10091501-03A Nitrogen, Ammonia (As N) Date Sampled 09/14/10 15:50 | ND | 0.10 mg/L | 09/17/10 | 09/17/10 |
| Client ID: B-11 (MW) | | | | |
| Lab ID : E2M10091501-04A Nitrogen, Ammonia (As N) Date Sampled 09/14/10 14:20 | ND | 0.10 mg/L | 09/17/10 | 09/17/10 |

ND = Not Detected

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A
9/22/10

Report Date



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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630

Attn: Jacob Ruffing
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 09/14/10

Job: North Truckee Drain

Metals by ICPMS
EPA Method SW6020 / SW6020A

| Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed |
|---|---------------|-----------------|----------------|---------------|
| Client ID: NTD | | | | |
| Lab ID : E2M10091501-01A Sodium (Na) Date Sampled 09/14/10 16:30 | 61 | 0.50 mg/L | 09/15/10 13:51 | 09/15/10 |
| Client ID: B-3 (MW) | | | | |
| Lab ID : E2M10091501-02A Sodium (Na) Date Sampled 09/14/10 12:50 | 160 | 0.50 mg/L | 09/15/10 13:51 | 09/15/10 |
| Client ID: B-7 (MW) | | | | |
| Lab ID : E2M10091501-03A Sodium (Na) Date Sampled 09/14/10 15:50 | 350 | 0.50 mg/L | 09/15/10 13:51 | 09/15/10 |
| Client ID: B-11 (MW) | | | | |
| Lab ID : E2M10091501-04A Sodium (Na) Date Sampled 09/14/10 14:20 | 320 | 0.50 mg/L | 09/15/10 13:51 | 09/15/10 |

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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630

Attn: Jacob Ruffing
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 09/14/10

Job: North Truckee Drain

pH (Range 1.7 to 12.4)
EPA Method 150.1 / SM4500HB / SW9040C

| Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed | |
|-----------------------------|------------------|-----------------|----------------|----------------|----------------|
| Client ID: NTD | | | | | |
| Lab ID : E2M10091501-01A | pH | 8.0 | 1.7 pH Units | 09/15/10 14:00 | 09/15/10 14:00 |
| Date Sampled 09/14/10 16:30 | pH - Temperature | 19 | 1.0 °C | 09/15/10 14:00 | 09/15/10 14:00 |
| Client ID: B-3 (MW) | | | | | |
| Lab ID : E2M10091501-02A | pH | 7.1 | 1.7 pH Units | 09/15/10 14:03 | 09/15/10 14:03 |
| Date Sampled 09/14/10 12:50 | pH - Temperature | 19 | 1.0 °C | 09/15/10 14:03 | 09/15/10 14:03 |
| Client ID: B-7 (MW) | | | | | |
| Lab ID : E2M10091501-03A | pH | 7.4 | 1.7 pH Units | 09/15/10 14:06 | 09/15/10 14:06 |
| Date Sampled 09/14/10 15:50 | pH - Temperature | 19 | 1.0 °C | 09/15/10 14:06 | 09/15/10 14:06 |
| Client ID: B-11 (MW) | | | | | |
| Lab ID : E2M10091501-04A | pH | 7.7 | 1.7 pH Units | 09/15/10 14:09 | 09/15/10 14:09 |
| Date Sampled 09/14/10 14:20 | pH - Temperature | 19 | 1.0 °C | 09/15/10 14:09 | 09/15/10 14:09 |

The EPA has established an analytical holding time of 15 minutes for this method as documented in the Methods Update Rule, Federal Register, Vol 72, No 47, March 2007. This holding time will always be exceeded, unless samples are analyzed in the field.

The laboratory performed this analysis in the shortest practical holding time after sample receipt.

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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630

Attn: Jacob Ruffing
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 09/14/10

Job: North Truckee Drain

Phosphorus
EPA Method 365.3 / SM4500PE

| Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed |
|--|---------------|-----------------|----------------|---------------|
| Client ID: NTD | | | | |
| Lab ID : E2M10091501-01A Phosphorus, Total (As P) Date Sampled 09/14/10 16:30 | 1.0 | 0.10 mg/L | 09/22/10 | 09/22/10 |
| Client ID: B-3 (MW) | | | | |
| Lab ID : E2M10091501-02A Phosphorus, Total (As P) Date Sampled 09/14/10 12:50 | 0.21 | 0.10 mg/L | 09/22/10 | 09/22/10 |
| Client ID: B-7 (MW) | | | | |
| Lab ID : E2M10091501-03A Phosphorus, Total (As P) Date Sampled 09/14/10 15:50 | 0.35 | 0.10 mg/L | 09/22/10 | 09/22/10 |
| Client ID: B-11 (MW) | | | | |
| Lab ID : E2M10091501-04A Phosphorus, Total (As P) Date Sampled 09/14/10 14:20 | 2.7 | 0.50 mg/L | 09/22/10 | 09/22/10 |

Roger Scholl *Randy Gardner* *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

✓
9/22/10

Report Date



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630

Attn: Jacob Ruffing
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 09/14/10

Job: North Truckee Drain

Total Dissolved Solids (TDS)
SM2540C

| Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed |
|--|---------------|-----------------|----------------|---------------|
| Client ID: NTD | | | | |
| Lab ID: E2M10091501-01A Solids, Total Dissolved (TDS) Date Sampled 09/14/10 16:30 | 390 | 10 mg/L | 09/16/10 | 09/16/10 |
| Client ID: B-3 (MW) | | | | |
| Lab ID: E2M10091501-02A Solids, Total Dissolved (TDS) Date Sampled 09/14/10 12:50 | 810 | 10 mg/L | 09/16/10 | 09/16/10 |
| Client ID: B-7 (MW) | | | | |
| Lab ID: E2M10091501-03A Solids, Total Dissolved (TDS) Date Sampled 09/14/10 15:50 | 1,400 | 10 mg/L | 09/16/10 | 09/16/10 |
| Client ID: B-11 (MW) | | | | |
| Lab ID: E2M10091501-04A Solids, Total Dissolved (TDS) Date Sampled 09/14/10 14:20 | 890 | 10 mg/L | 09/16/10 | 09/16/10 |

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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630

Attn: Jacob Ruffing
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 09/14/10

Job: North Truckee Drain

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B

| Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed | |
|------------------------------|---------------|-----------------|----------------|----------------|----------|
| Client ID : NTD | | | | | |
| Lab ID : E2M10091501-01A | TPH-E (DRO) | ND | 0.50 mg/L | 09/15/10 09:19 | 09/15/10 |
| Date Sampled 09/14/10 16:30 | TPH-E (ORO) | ND | 0.50 mg/L | 09/15/10 09:19 | 09/15/10 |
| | Surr: Nonane | 98 | (57-147) %REC | 09/15/10 09:19 | 09/15/10 |
| Client ID : B-3 (MW) | | | | | |
| Lab ID : E2M10091501-02A | TPH-E (DRO) | ND | 0.50 mg/L | 09/15/10 09:19 | 09/15/10 |
| Date Sampled 09/14/10 12:50 | TPH-E (ORO) | ND | 0.50 mg/L | 09/15/10 09:19 | 09/15/10 |
| | Surr: Nonane | 100 | (57-147) %REC | 09/15/10 09:19 | 09/15/10 |
| Client ID : B-7 (MW) | | | | | |
| Lab ID : E2M10091501-03A | TPH-E (DRO) | ND | 0.50 mg/L | 09/15/10 09:19 | 09/16/10 |
| Date Sampled 09/14/10 15:50 | TPH-E (ORO) | ND | 0.50 mg/L | 09/15/10 09:19 | 09/16/10 |
| | Surr: Nonane | 95 | (57-147) %REC | 09/15/10 09:19 | 09/16/10 |
| Client ID : B-11 (MW) | | | | | |
| Lab ID : E2M10091501-04A | TPH-E (DRO) | ND | 0.50 mg/L | 09/15/10 09:19 | 09/16/10 |
| Date Sampled 09/14/10 14:20 | TPH-E (ORO) | ND | 0.50 mg/L | 09/15/10 09:19 | 09/16/10 |
| | Surr: Nonane | 87 | (57-147) %REC | 09/15/10 09:19 | 09/16/10 |

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
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Report Date



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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630

Attn: Jacob Ruffing
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 09/14/10

Job: North Truckee Drain

Total Suspended Solids
SM2540D

| Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed |
|---|---------------|-----------------|----------------|---------------|
| Client ID: NTD | | | | |
| Lab ID : E2M10091501-01A Solids, Total Suspended (TSS) Date Sampled 09/14/10 16:30 | 910 | 8.3 mg/L | 09/17/10 | 09/17/10 |
| Client ID: B-3 (MW) | | | | |
| Lab ID : E2M10091501-02A Solids, Total Suspended (TSS) Date Sampled 09/14/10 12:50 | 11 | 2.5 mg/L | 09/17/10 | 09/17/10 |
| Client ID: B-7 (MW) | | | | |
| Lab ID : E2M10091501-03A Solids, Total Suspended (TSS) Date Sampled 09/14/10 15:50 | 24 | 2.5 mg/L | 09/17/10 | 09/17/10 |
| Client ID: B-11 (MW) | | | | |
| Lab ID : E2M10091501-04A Solids, Total Suspended (TSS) Date Sampled 09/14/10 14:20 | 4.1 | 2.5 mg/L | 09/17/10 | 09/17/10 |

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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630

Attn: Jacob Ruffing
Phone: (916) 852-7792
Fax: (916) 852-7836
Date Received : 09/14/10

Job: North Truckee Drain

Turbidity
EPA Method 180.1 / SM2130B

| Parameter | Concentration | Reporting Limit | Date Extracted | Date Analyzed |
|---|---------------|-----------------|----------------|----------------|
| Client ID: NTD | | | | |
| Lab ID : E2M10091501-01A Turbidity Date Sampled 09/14/10 16:30 | 15 | 0.10 NTU | 09/15/10 14:07 | 09/15/10 14:07 |
| Client ID: B-3 (MW) | | | | |
| Lab ID : E2M10091501-02A Turbidity Date Sampled 09/14/10 12:50 | 6.7 | 0.10 NTU | 09/15/10 14:10 | 09/15/10 14:10 |
| Client ID: B-7 (MW) | | | | |
| Lab ID : E2M10091501-03A Turbidity Date Sampled 09/14/10 15:50 | 4.2 | 0.10 NTU | 09/15/10 14:12 | 09/15/10 14:12 |
| Client ID: B-11 (MW) | | | | |
| Lab ID : E2M10091501-04A Turbidity Date Sampled 09/14/10 14:20 | 4.0 | 0.10 NTU | 09/15/10 14:15 | 09/15/10 14:15 |

Roger Scholl

Randy Gardner

Walter Hinchman

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Report Date



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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: North Truckee Drain

Attn: Jacob Ruffing
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10091501-01A
Client I.D. Number: NTD

Sampled: 09/14/10 16:30
Received: 09/14/10
Extracted: 09/16/10
Analyzed: 09/16/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|-----------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 1.0 µg/L | 36 m,p-Xylene | ND | 1.0 µg/L |
| 2 Chloromethane | ND | 2.0 µg/L | 37 Bromoform | ND | 1.0 µg/L |
| 3 Vinyl chloride | ND | 1.0 µg/L | 38 Styrene | ND | 1.0 µg/L |
| 4 Chloroethane | ND | 1.0 µg/L | 39 o-Xylene | ND | 1.0 µg/L |
| 5 Bromomethane | ND | 2.0 µg/L | 40 1,1,2,2-Tetrachloroethane | ND | 1.0 µg/L |
| 6 Trichlorofluoromethane | ND | 1.0 µg/L | 41 1,2,3-Trichloropropane | ND | 2.0 µg/L |
| 7 1,1-Dichloroethane | ND | 1.0 µg/L | 42 Isopropylbenzene | ND | 1.0 µg/L |
| 8 Dichloromethane | ND | 2.0 µg/L | 43 Bromobenzene | ND | 1.0 µg/L |
| 9 trans-1,2-Dichloroethene | ND | 1.0 µg/L | 44 n-Propylbenzene | ND | 1.0 µg/L |
| 10 Methyl tert-butyl ether (MTBE) | ND | 1.0 µg/L | 45 4-Chlorotoluene | ND | 1.0 µg/L |
| 11 1,1-Dichloroethane | ND | 1.0 µg/L | 46 2-Chlorotoluene | ND | 1.0 µg/L |
| 12 cis-1,2-Dichloroethene | ND | 1.0 µg/L | 47 1,3,5-Trimethylbenzene | ND | 1.0 µg/L |
| 13 Bromochloromethane | ND | 1.0 µg/L | 48 tert-Butylbenzene | ND | 1.0 µg/L |
| 14 Chloroform | ND | 1.0 µg/L | 49 1,2,4-Trimethylbenzene | ND | 1.0 µg/L |
| 15 2,2-Dichloropropane | ND | 1.0 µg/L | 50 sec-Butylbenzene | ND | 1.0 µg/L |
| 16 1,2-Dichloroethane | ND | 1.0 µg/L | 51 1,3-Dichlorobenzene | ND | 1.0 µg/L |
| 17 1,1,1-Trichloroethane | ND | 1.0 µg/L | 52 1,4-Dichlorobenzene | ND | 1.0 µg/L |
| 18 1,1-Dichloropropene | ND | 1.0 µg/L | 53 4-Isopropyltoluene | ND | 1.0 µg/L |
| 19 Carbon tetrachloride | ND | 1.0 µg/L | 54 1,2-Dichlorobenzene | ND | 1.0 µg/L |
| 20 Benzene | ND | 1.0 µg/L | 55 n-Butylbenzene | ND | 1.0 µg/L |
| 21 Dibromomethane | ND | 1.0 µg/L | 56 1,2-Dibromo-3-chloropropane (DBCP) | ND | 3.0 µg/L |
| 22 1,2-Dichloropropane | ND | 1.0 µg/L | 57 1,2,4-Trichlorobenzene | ND | 2.0 µg/L |
| 23 Trichloroethene | ND | 1.0 µg/L | 58 Naphthalene | ND | 2.0 µg/L |
| 24 Bromodichloromethane | ND | 1.0 µg/L | 59 Hexachlorobutadiene | ND | 2.0 µg/L |
| 25 cis-1,3-Dichloropropene | ND | 1.0 µg/L | 60 1,2,3-Trichlorobenzene | ND | 2.0 µg/L |
| 26 trans-1,3-Dichloropropene | ND | 1.0 µg/L | 61 Surr: 1,2-Dichloroethane-d4 | 116 | (70-130) %REC |
| 27 1,1,2-Trichloroethane | ND | 1.0 µg/L | 62 Surr: Toluene-d8 | 97 | (70-130) %REC |
| 28 Toluene | ND | 1.0 µg/L | 63 Surr: 4-Bromofluorobenzene | 91 | (70-130) %REC |
| 29 1,3-Dichloropropane | ND | 1.0 µg/L | | | |
| 30 Dibromochloromethane | ND | 1.0 µg/L | | | |
| 31 1,2-Dibromoethane (EDB) | ND | 2.0 µg/L | | | |
| 32 Tetrachloroethene | ND | 1.0 µg/L | | | |
| 33 1,1,1,2-Tetrachloroethane | ND | 1.0 µg/L | | | |
| 34 Chlorobenzene | ND | 1.0 µg/L | | | |
| 35 Ethylbenzene | ND | 1.0 µg/L | | | |

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

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JR

9/22/10

Report Date

Page 1 of 1



Alpha Analytical, Inc.

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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: North Truckee Drain

Attn: Jacob Ruffing
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10091501-02A
Client I.D. Number: B-3 (MW)

Sampled: 09/14/10 12:50
Received: 09/14/10
Extracted: 09/16/10
Analyzed: 09/16/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|-----------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 1.0 µg/L | 36 m,p-Xylene | ND | 1.0 µg/L |
| 2 Chloromethane | ND | 2.0 µg/L | 37 Bromoform | ND | 1.0 µg/L |
| 3 Vinyl chloride | ND | 1.0 µg/L | 38 Styrene | ND | 1.0 µg/L |
| 4 Chloroethane | ND | 1.0 µg/L | 39 o-Xylene | ND | 1.0 µg/L |
| 5 Bromomethane | ND | 2.0 µg/L | 40 1,1,2,2-Tetrachloroethane | ND | 1.0 µg/L |
| 6 Trichlorofluoromethane | ND | 1.0 µg/L | 41 1,2,3-Trichloropropane | ND | 2.0 µg/L |
| 7 1,1-Dichloroethene | ND | 1.0 µg/L | 42 Isopropylbenzene | ND | 1.0 µg/L |
| 8 Dichloromethane | ND | 2.0 µg/L | 43 Bromobenzene | ND | 1.0 µg/L |
| 9 trans-1,2-Dichloroethene | ND | 1.0 µg/L | 44 n-Propylbenzene | ND | 1.0 µg/L |
| 10 Methyl tert-butyl ether (MTBE) | ND | 1.0 µg/L | 45 4-Chlorotoluene | ND | 1.0 µg/L |
| 11 1,1-Dichloroethane | ND | 1.0 µg/L | 46 2-Chlorotoluene | ND | 1.0 µg/L |
| 12 cis-1,2-Dichloroethene | ND | 1.0 µg/L | 47 1,3,5-Trimethylbenzene | ND | 1.0 µg/L |
| 13 Bromochloromethane | ND | 1.0 µg/L | 48 tert-Butylbenzene | ND | 1.0 µg/L |
| 14 Chloroform | ND | 1.0 µg/L | 49 1,2,4-Trimethylbenzene | ND | 1.0 µg/L |
| 15 2,2-Dichloropropane | ND | 1.0 µg/L | 50 sec-Butylbenzene | ND | 1.0 µg/L |
| 16 1,2-Dichloroethane | ND | 1.0 µg/L | 51 1,3-Dichlorobenzene | ND | 1.0 µg/L |
| 17 1,1,1-Trichloroethane | ND | 1.0 µg/L | 52 1,4-Dichlorobenzene | ND | 1.0 µg/L |
| 18 1,1-Dichloropropene | ND | 1.0 µg/L | 53 4-Isopropyltoluene | ND | 1.0 µg/L |
| 19 Carbon tetrachloride | ND | 1.0 µg/L | 54 1,2-Dichlorobenzene | ND | 1.0 µg/L |
| 20 Benzene | ND | 1.0 µg/L | 55 n-Butylbenzene | ND | 1.0 µg/L |
| 21 Dibromomethane | ND | 1.0 µg/L | 56 1,2-Dibromo-3-chloropropane (DBCP) | ND | 3.0 µg/L |
| 22 1,2-Dichloropropane | ND | 1.0 µg/L | 57 1,2,4-Trichlorobenzene | ND | 2.0 µg/L |
| 23 Trichloroethene | ND | 1.0 µg/L | 58 Naphthalene | ND | 2.0 µg/L |
| 24 Bromodichloromethane | ND | 1.0 µg/L | 59 Hexachlorobutadiene | ND | 2.0 µg/L |
| 25 cis-1,3-Dichloropropene | ND | 1.0 µg/L | 60 1,2,3-Trichlorobenzene | ND | 2.0 µg/L |
| 26 trans-1,3-Dichloropropene | ND | 1.0 µg/L | 61 Surr: 1,2-Dichloroethane-d4 | 121 | (70-130) %REC |
| 27 1,1,2-Trichloroethane | ND | 1.0 µg/L | 62 Surr: Toluene-d8 | 99 | (70-130) %REC |
| 28 Toluene | ND | 1.0 µg/L | 63 Surr: 4-Bromofluorobenzene | 92 | (70-130) %REC |
| 29 1,3-Dichloropropane | ND | 1.0 µg/L | | | |
| 30 Dibromochloromethane | ND | 1.0 µg/L | | | |
| 31 1,2-Dibromoethane (EDB) | ND | 2.0 µg/L | | | |
| 32 Tetrachloroethene | ND | 1.0 µg/L | | | |
| 33 1,1,1,2-Tetrachloroethane | ND | 1.0 µg/L | | | |
| 34 Chlorobenzene | ND | 1.0 µg/L | | | |
| 35 Ethylbenzene | ND | 1.0 µg/L | | | |

ND = Not Detected

Roger Scholl

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Walter Hinchman

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RS

9/22/10

Report Date

Page 1 of 1



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ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: North Truckee Drain

Attn: Jacob Ruffing
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10091501-03A
Client I.D. Number: B-7 (MW)

Sampled: 09/14/10 15:50
Received: 09/14/10
Extracted: 09/16/10
Analyzed: 09/16/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|-----------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 1.0 µg/L | 36 m,p-Xylene | ND | 1.0 µg/L |
| 2 Chloromethane | ND | 2.0 µg/L | 37 Bromoform | ND | 1.0 µg/L |
| 3 Vinyl chloride | ND | 1.0 µg/L | 38 Styrene | ND | 1.0 µg/L |
| 4 Chloroethane | ND | 1.0 µg/L | 39 o-Xylene | ND | 1.0 µg/L |
| 5 Bromomethane | ND | 2.0 µg/L | 40 1,1,2,2-Tetrachloroethane | ND | 1.0 µg/L |
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| 7 1,1-Dichloroethene | ND | 1.0 µg/L | 42 Isopropylbenzene | ND | 1.0 µg/L |
| 8 Dichloromethane | ND | 2.0 µg/L | 43 Bromobenzene | ND | 1.0 µg/L |
| 9 trans-1,2-Dichloroethene | ND | 1.0 µg/L | 44 n-Propylbenzene | ND | 1.0 µg/L |
| 10 Methyl tert-butyl ether (MTBE) | ND | 1.0 µg/L | 45 4-Chlorotoluene | ND | 1.0 µg/L |
| 11 1,1-Dichloroethane | ND | 1.0 µg/L | 46 2-Chlorotoluene | ND | 1.0 µg/L |
| 12 cis-1,2-Dichloroethane | ND | 1.0 µg/L | 47 1,3,5-Trimethylbenzene | ND | 1.0 µg/L |
| 13 Bromochloromethane | ND | 1.0 µg/L | 48 tert-Butylbenzene | ND | 1.0 µg/L |
| 14 Chloroform | ND | 1.0 µg/L | 49 1,2,4-Trimethylbenzene | ND | 1.0 µg/L |
| 15 2,2-Dichloropropane | ND | 1.0 µg/L | 50 sec-Butylbenzene | ND | 1.0 µg/L |
| 16 1,2-Dichloroethane | ND | 1.0 µg/L | 51 1,3-Dichlorobenzene | ND | 1.0 µg/L |
| 17 1,1,1-Trichloroethane | ND | 1.0 µg/L | 52 1,4-Dichlorobenzene | ND | 1.0 µg/L |
| 18 1,1-Dichloropropene | ND | 1.0 µg/L | 53 4-Isopropyltoluene | ND | 1.0 µg/L |
| 19 Carbon tetrachloride | ND | 1.0 µg/L | 54 1,2-Dichlorobenzene | ND | 1.0 µg/L |
| 20 Benzene | ND | 1.0 µg/L | 55 n-Butylbenzene | ND | 1.0 µg/L |
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| 22 1,2-Dichloropropane | ND | 1.0 µg/L | 57 1,2,4-Trichlorobenzene | ND | 2.0 µg/L |
| 23 Trichloroethene | ND | 1.0 µg/L | 58 Naphthalene | ND | 2.0 µg/L |
| 24 Bromodichloromethane | ND | 1.0 µg/L | 59 Hexachlorobutadiene | ND | 2.0 µg/L |
| 25 cis-1,3-Dichloropropene | ND | 1.0 µg/L | 60 1,2,3-Trichlorobenzene | ND | 2.0 µg/L |
| 26 trans-1,3-Dichloropropene | ND | 1.0 µg/L | 61 Surr: 1,2-Dichloroethane-d4 | 118 | (70-130) %REC |
| 27 1,1,2-Trichloroethane | ND | 1.0 µg/L | 62 Surr: Toluene-d8 | 101 | (70-130) %REC |
| 28 Toluene | ND | 1.0 µg/L | 63 Surr: 4-Bromofluorobenzene | 94 | (70-130) %REC |
| 29 1,3-Dichloropropane | ND | 1.0 µg/L | | | |
| 30 Dibromochloromethane | ND | 1.0 µg/L | | | |
| 31 1,2-Dibromoethane (EDB) | ND | 2.0 µg/L | | | |
| 32 Tetrachloroethene | ND | 1.0 µg/L | | | |
| 33 1,1,1,2-Tetrachloroethane | ND | 1.0 µg/L | | | |
| 34 Chlorobenzene | ND | 1.0 µg/L | | | |
| 35 Ethylbenzene | ND | 1.0 µg/L | | | |

ND = Not Detected

Roger Scholl

Randy Gardner

Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

PG
9/22/10

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

HDR | E2M
2365 Iron Point Road
Folsom, CA 95630
Job: North Truckee Drain

Attn: Jacob Ruffing
Phone: (916) 852-7792
Fax: (916) 852-7836

Alpha Analytical Number: E2M10091501-04A
Client I.D. Number: B-11 (MW)

Sampled: 09/14/10 14:20
Received: 09/14/10
Extracted: 09/16/10
Analyzed: 09/16/10

Volatile Organics by GC/MS EPA Method SW8260B

| Compound | Concentration | Reporting Limit | Compound | Concentration | Reporting Limit |
|-----------------------------------|---------------|-----------------|---------------------------------------|---------------|-----------------|
| 1 Dichlorodifluoromethane | ND | 1.0 µg/L | 36 m,p-Xylene | ND | 1.0 µg/L |
| 2 Chloromethane | ND | 2.0 µg/L | 37 Bromoform | ND | 1.0 µg/L |
| 3 Vinyl chloride | ND | 1.0 µg/L | 38 Styrene | ND | 1.0 µg/L |
| 4 Chloroethane | ND | 1.0 µg/L | 39 o-Xylene | ND | 1.0 µg/L |
| 5 Bromomethane | ND | 2.0 µg/L | 40 1,1,2,2-Tetrachloroethane | ND | 1.0 µg/L |
| 6 Trichlorofluoromethane | ND | 1.0 µg/L | 41 1,2,3-Trichloropropane | ND | 2.0 µg/L |
| 7 1,1-Dichloroethene | ND | 1.0 µg/L | 42 Isopropylbenzene | ND | 1.0 µg/L |
| 8 Dichloromethane | ND | 2.0 µg/L | 43 Bromobenzene | ND | 1.0 µg/L |
| 9 trans-1,2-Dichloroethene | ND | 1.0 µg/L | 44 n-Propylbenzene | ND | 1.0 µg/L |
| 10 Methyl tert-butyl ether (MTBE) | ND | 1.0 µg/L | 45 4-Chlorotoluene | ND | 1.0 µg/L |
| 11 1,1-Dichloroethane | ND | 1.0 µg/L | 46 2-Chlorotoluene | ND | 1.0 µg/L |
| 12 cis-1,2-Dichloroethene | ND | 1.0 µg/L | 47 1,3,5-Trimethylbenzene | ND | 1.0 µg/L |
| 13 Bromochloromethane | ND | 1.0 µg/L | 48 tert-Butylbenzene | ND | 1.0 µg/L |
| 14 Chloroform | ND | 1.0 µg/L | 49 1,2,4-Trimethylbenzene | ND | 1.0 µg/L |
| 15 2,2-Dichloropropane | ND | 1.0 µg/L | 50 sec-Butylbenzene | ND | 1.0 µg/L |
| 16 1,2-Dichloroethane | ND | 1.0 µg/L | 51 1,3-Dichlorobenzene | ND | 1.0 µg/L |
| 17 1,1,1-Trichloroethane | ND | 1.0 µg/L | 52 1,4-Dichlorobenzene | ND | 1.0 µg/L |
| 18 1,1-Dichloropropene | ND | 1.0 µg/L | 53 4-Isopropyltoluene | ND | 1.0 µg/L |
| 19 Carbon tetrachloride | ND | 1.0 µg/L | 54 1,2-Dichlorobenzene | ND | 1.0 µg/L |
| 20 Benzene | ND | 1.0 µg/L | 55 n-Butylbenzene | ND | 1.0 µg/L |
| 21 Dibromomethane | ND | 1.0 µg/L | 56 1,2-Dibromo-3-chloropropane (DBCP) | ND | 3.0 µg/L |
| 22 1,2-Dichloropropane | ND | 1.0 µg/L | 57 1,2,4-Trichlorobenzene | ND | 2.0 µg/L |
| 23 Trichloroethene | ND | 1.0 µg/L | 58 Naphthalene | ND | 2.0 µg/L |
| 24 Bromodichloromethane | ND | 1.0 µg/L | 59 Hexachlorobutadiene | ND | 2.0 µg/L |
| 25 cis-1,3-Dichloropropene | ND | 1.0 µg/L | 60 1,2,3-Trichlorobenzene | ND | 2.0 µg/L |
| 26 trans-1,3-Dichloropropene | ND | 1.0 µg/L | 61 Surr: 1,2-Dichloroethane-d4 | 118 | (70-130) %REC |
| 27 1,1,2-Trichloroethane | ND | 1.0 µg/L | 62 Surr: Toluene-d8 | 97 | (70-130) %REC |
| 28 Toluene | ND | 1.0 µg/L | 63 Surr: 4-Bromofluorobenzene | 96 | (70-130) %REC |
| 29 1,3-Dichloropropane | ND | 1.0 µg/L | | | |
| 30 Dibromochloromethane | ND | 1.0 µg/L | | | |
| 31 1,2-Dibromoethane (EDB) | ND | 2.0 µg/L | | | |
| 32 Tetrachloroethene | ND | 1.0 µg/L | | | |
| 33 1,1,1,2-Tetrachloroethane | ND | 1.0 µg/L | | | |
| 34 Chlorobenzene | ND | 1.0 µg/L | | | |
| 35 Ethylbenzene | ND | 1.0 µg/L | | | |

ND = Not Detected

Roger Scholl

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Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

RS

9/22/10

Report Date

Page 1 of 1



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC Sample Preservation Report

Work Order: E2M10091501

Job: North Truckee Drain

| Alpha's Sample ID | Client's Sample ID | Matrix | pH |
|-------------------|--------------------|---------|----|
| 10091501-01A | NTD | Aqueous | 2 |
| 10091501-02A | B-3 (MW) | Aqueous | 2 |
| 10091501-03A | B-7 (MW) | Aqueous | 5 |
| 10091501-04A | B-11 (MW) | Aqueous | 5 |

9/22/10

Report Date

Page 1 of 1



Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
17-Sep-10

QC Summary Report

Work Order:
10091501

Method Blank

| Method Blank | | Type | Test Code: EPA Method 300.0 | | | | | | | | |
|---------------------|--------------|------|-----------------------------|-----------|------|---------------------------------|---------|-----------|-------------|------|--|
| File ID: 20 | | MBLK | Batch ID: 25046 | | | Analysis Date: 09/15/2010 11:58 | | | | | |
| Sample ID: MB-25046 | Units : mg/L | | Run ID: IC_1_100915A | | | Prep Date: 09/15/2010 10:23 | | | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual | |
| Chloride | ND | 0.5 | | | | | | | | | |
| Nitrite (NO2) - N | ND | 0.25 | | | | | | | | | |
| Nitrate (NO3) - N | ND | 0.25 | | | | | | | | | |
| Sulfate (SO4) | ND | 0.5 | | | | | | | | | |

Laboratory Fortified Blank

| Laboratory Fortified Blank | | Type | Test Code: EPA Method 300.0 | | | | | | | | |
|----------------------------|--------------|------|-----------------------------|-----------|------|---------------------------------|---------|-----------|-------------|------|--|
| File ID: 31 | | LFB | Batch ID: 25046 | | | Analysis Date: 09/15/2010 15:23 | | | | | |
| Sample ID: LFB-25046 | Units : mg/L | | Run ID: IC_1_100915A | | | Prep Date: 09/15/2010 10:23 | | | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual | |
| Chloride | 49.9 | 0.5 | 50 | | 99.8 | 90 | 110 | | | | |
| Nitrite (NO2) - N | 4.99 | 0.25 | 5 | | 99.8 | 90 | 110 | | | | |
| Nitrate (NO3) - N | 5.27 | 0.25 | 5 | | 105 | 90 | 110 | | | | |
| Sulfate (SO4) | 101 | 0.5 | 100 | | 101 | 90 | 110 | | | | |

Sample Matrix Spike

| Sample Matrix Spike | | Type | Test Code: EPA Method 300.0 | | | | | | | | |
|----------------------------|--------------|------|-----------------------------|-----------|------|---------------------------------|---------|-----------|-------------|------|--|
| File ID: 24 | | LFM | Batch ID: 25046 | | | Analysis Date: 09/15/2010 13:12 | | | | | |
| Sample ID: 10091503-01ALFM | Units : mg/L | | Run ID: IC_1_100915A | | | Prep Date: 09/15/2010 10:23 | | | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual | |
| Chloride | 99.4 | 0.5 | 50 | 70.29 | 58 | 80 | 120 | | | M2 | |
| Nitrite (NO2) - N | 5.52 | 0.25 | 5 | 0 | 110 | 80 | 120 | | | | |
| Nitrate (NO3) - N | 12.3 | 0.25 | 5 | 8.324 | 79 | 80 | 120 | | | M2 | |
| Sulfate (SO4) | 172 | 0.5 | 100 | 98.39 | 74 | 80 | 120 | | | M2 | |

Sample Matrix Spike Duplicate

| Sample Matrix Spike Duplicate | | Type | Test Code: EPA Method 300.0 | | | | | | | | |
|-------------------------------|--------------|------|-----------------------------|-----------|------|---------------------------------|---------|-----------|-------------|------|--|
| File ID: 25 | | LFMD | Batch ID: 25046 | | | Analysis Date: 09/15/2010 13:31 | | | | | |
| Sample ID: 10091503-01ALFMD | Units : mg/L | | Run ID: IC_1_100915A | | | Prep Date: 09/15/2010 10:23 | | | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual | |
| Chloride | 102 | 0.5 | 50 | 70.29 | 63 | 80 | 120 | 99.4 | 2.6(15) | M2 | |
| Nitrite (NO2) - N | 5.51 | 0.25 | 5 | 0 | 110 | 80 | 120 | 5.524 | 0.2(15) | | |
| Nitrate (NO3) - N | 12.6 | 0.25 | 5 | 8.324 | 86 | 80 | 120 | 12.29 | 2.7(15) | | |
| Sulfate (SO4) | 176 | 0.5 | 100 | 98.39 | 78 | 80 | 120 | 172.3 | 2.4(15) | M2 | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M2 = Matrix spike recovery was low, the method control sample recovery was acceptable.



Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
17-Sep-10

QC Summary Report

Work Order:
10091501

Laboratory Control Spike

Type **LCS** Test Code: **SM2320B**

File ID: Batch ID: **W0916AL** Analysis Date: **09/16/2010 14:38**

Sample ID: **LCS-W0916AL** Units : **mg/L** Run ID: **WETLAB_100916C** Prep Date: **09/16/2010 14:38**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Alkalinity, Total (As CaCO ₃ at pH 4.5) | 295 | 10 | 250 | | 118 | 80 | 120 | | | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
17-Sep-10

QC Summary Report

Work Order:
10091501

Method Blank

| Method Blank | | Type | MBLK | | Test Code: SM4500-NH3D | | | | | | |
|--------------------------|--------------|-----------|---------|-----------|------------------------|---------|------------------|-----------|------------------|------|--|
| File ID: | | Batch ID: | W0913AM | | Analysis Date: | | 09/13/2010 09:46 | | | | |
| Sample ID: | MBLK-W0913AM | Units : | mg/L | Run ID: | WETLAB_100913A | | Prep Date: | | 09/13/2010 09:46 | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual | |
| Nitrogen, Ammonia (As N) | ND | | 0.1 | | | | | | | | |

Laboratory Control Spike

| Laboratory Control Spike | | Type | LCS | | Test Code: SM4500-NH3D | | | | | | |
|--------------------------|-------------|-----------|---------|-----------|------------------------|---------|------------------|-----------|------------------|------|--|
| File ID: | | Batch ID: | W0913AM | | Analysis Date: | | 09/13/2010 09:40 | | | | |
| Sample ID: | LCS-W0913AM | Units : | mg/L | Run ID: | WETLAB_100913A | | Prep Date: | | 09/13/2010 09:40 | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual | |
| Nitrogen, Ammonia (As N) | 4.83 | 0.1 | 5 | | 97 | 70 | 130 | | | | |

Sample Matrix Spike

| Sample Matrix Spike | | Type | MS | | Test Code: SM4500-NH3D | | | | | | |
|--------------------------|----------------|-----------|---------|-----------|------------------------|---------|------------------|-----------|------------------|------|--|
| File ID: | | Batch ID: | W0913AM | | Analysis Date: | | 09/13/2010 09:53 | | | | |
| Sample ID: | 10090320-01AMS | Units : | mg/L | Run ID: | WETLAB_100913A | | Prep Date: | | 09/13/2010 09:53 | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual | |
| Nitrogen, Ammonia (As N) | 214 | 10 | 50 | | 180 | 68 | 65 | 138 | | | |

Sample Matrix Spike Duplicate

| Sample Matrix Spike Duplicate | | Type | MSD | | Test Code: SM4500-NH3D | | | | | | |
|-------------------------------|-----------------|-----------|---------|-----------|------------------------|---------|------------------|-----------|------------------|------------|--|
| File ID: | | Batch ID: | W0913AM | | Analysis Date: | | 09/13/2010 09:56 | | | | |
| Sample ID: | 10090320-01AMSD | Units : | mg/L | Run ID: | WETLAB_100913A | | Prep Date: | | 09/13/2010 09:56 | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual | |
| Nitrogen, Ammonia (As N) | 202 | 10 | 50 | | 180 | 44 | 65 | 138 | 214 | 5.8(20) M2 | |

Comments:

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M2 = Matrix spike recovery was low, the method control sample recovery was acceptable.



Alpha Analytical, Inc.

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Date:
20-Sep-10

QC Summary Report

Work Order:
10091501

Method Blank

Type **MBLK** Test Code: **EPA Method SW6020 / SW6020A**

File ID: 091510.B\019_M.D\

Batch ID: 25051

Analysis Date: 09/15/2010 18:46

Sample ID: MB-25051

Units : mg/L

Run ID: ICP/MS_100915A

Prep Date: 09/15/2010 13:51

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Sodium (Na) | ND | 0.5 | | | | | | | | |

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: 091510.B\020_M.D\

Batch ID: 25051

Analysis Date: 09/15/2010 18:51

Sample ID: LCS-25051

Units : mg/L

Run ID: ICP/MS_100915A

Prep Date: 09/15/2010 13:51

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Sodium (Na) | 52.7 | 0.5 | 50 | | 105 | 80 | 120 | | | |

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: 091510.B\025_SS.D\

Batch ID: 25051

Analysis Date: 09/15/2010 19:19

Sample ID: 10091501-01AMS

Units : mg/L

Run ID: ICP/MS_100915A

Prep Date: 09/15/2010 13:51

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-------------|--------|-----|--------|-----------|-------|---------|---------|-----------|-------------|------|
| Sodium (Na) | 109 | 0.5 | 50 | | 60.56 | 96 | 75 | 125 | | |

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW6020 / SW6020A**

File ID: 091510.B\026_SS.D\

Batch ID: 25051

Analysis Date: 09/15/2010 19:25

Sample ID: 10091501-01AMSD

Units : mg/L

Run ID: ICP/MS_100915A

Prep Date: 09/15/2010 13:51

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|-------------|--------|-----|--------|-----------|-------|---------|---------|-----------|-------------|---------|
| Sodium (Na) | 111 | 0.5 | 50 | | 60.56 | 100 | 75 | 125 | 108.5 | 1.9(20) |

Comments:

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
17-Sep-10

QC Summary Report

Work Order:
10091501

Method Blank

| Method Blank | | Type | MBLK | | Test Code: SM4500-NORGC / SM4500NH3D | |
|---------------------------|--------------|--------------|------------------------|--------|--------------------------------------|---|
| File ID: | | | Batch ID: W0909TK | | Analysis Date: 09/09/2010 13:55 | |
| Sample ID: | MBLK-W0909TK | Units : mg/L | Run ID: WETLAB_100909B | | Prep Date: 09/09/2010 13:55 | |
| Analyte | | Result | PQL | SpkVal | SpkRefVal | %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual |
| Nitrogen, Kjeldahl, Total | | ND | 0.25 | | | |

Laboratory Control Spike

| Laboratory Control Spike | | Type | LCS | | Test Code: SM4500-NORGC / SM4500NH3D | |
|---------------------------|-------------|--------------|------------------------|--------|--------------------------------------|---|
| File ID: | | | Batch ID: W0909TK | | Analysis Date: 09/09/2010 13:51 | |
| Sample ID: | LCS-W0909TK | Units : mg/L | Run ID: WETLAB_100909B | | Prep Date: 09/09/2010 13:51 | |
| Analyte | | Result | PQL | SpkVal | SpkRefVal | %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual |
| Nitrogen, Kjeldahl, Total | | 4.4 | 0.25 | 5 | 88 | 65 135 |

Sample Matrix Spike

| Sample Matrix Spike | | Type | MS | | Test Code: SM4500-NORGC / SM4500NH3D | |
|---------------------------|----------------|--------------|------------------------|--------|--------------------------------------|---|
| File ID: | | | Batch ID: W0909TK | | Analysis Date: 09/09/2010 14:08 | |
| Sample ID: | 10090204-01AMS | Units : mg/L | Run ID: WETLAB_100909B | | Prep Date: 09/09/2010 14:08 | |
| Analyte | | Result | PQL | SpkVal | SpkRefVal | %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual |
| Nitrogen, Kjeldahl, Total | | 3.59 | 0.25 | 5 | 0 72 | 55 142 |

Sample Matrix Spike Duplicate

| Sample Matrix Spike Duplicate | | Type | MSD | | Test Code: SM4500-NORGC / SM4500NH3D | |
|-------------------------------|-----------------|--------------|------------------------|--------|--------------------------------------|---|
| File ID: | | | Batch ID: W0909TK | | Analysis Date: 09/09/2010 14:10 | |
| Sample ID: | 10090204-01AMSD | Units : mg/L | Run ID: WETLAB_100909B | | Prep Date: 09/09/2010 14:10 | |
| Analyte | | Result | PQL | SpkVal | SpkRefVal | %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual |
| Nitrogen, Kjeldahl, Total | | 4.16 | 0.25 | 5 | 0 83 | 55 142 3.59 14.7(20) |

Comments:

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Date:
16-Sep-10

QC Summary Report

Work Order:
10091501

Laboratory Control Spike

Type **LCS**

Test Code: **EPA Method 150.1 / SM4500HB / SW9040C**

File ID:

Batch ID: **W0915PH**

Analysis Date: **09/15/2010 13:53**

Sample ID: **LCS-W0915PH**

Units : **pH Units**

Run ID: **WETLAB_100915E**

Prep Date: **09/15/2010 13:53**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|---------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| pH | 4.99 | 1.7 | 5 | | 99.8 | 90 | 110 | | | |

Comments:

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Date:
22-Sep-10

QC Summary Report

Work Order:
10091501

Method Blank

Type: MBLK Test Code: EPA Method 365.3 / SM4500PE

| | | | | | | | | | | | |
|--------------------------|--------------|--------------|-----|------------------------|-----------|---------------------------------|---------|---------|-----------|-------------|------|
| File ID: | | | | Batch ID: W0922TP | | Analysis Date: 09/22/2010 00:00 | | | | | |
| Sample ID: | MBLK-W0922TP | Units : mg/L | | Run ID: WETLAB_100922A | | Prep Date: 09/22/2010 00:00 | | | | | |
| Analyte | | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Phosphorus, Total (As P) | | ND | 0.1 | | | | | | | | |

Laboratory Control Spike

Type: LCS Test Code: EPA Method 365.3 / SM4500PE

| | | | | | | | | | | | |
|--------------------------|-------------|--------------|-----|------------------------|-----------|---------------------------------|---------|---------|-----------|-------------|------|
| File ID: | | | | Batch ID: W0922TP | | Analysis Date: 09/22/2010 00:00 | | | | | |
| Sample ID: | LCS-W0922TP | Units : mg/L | | Run ID: WETLAB_100922A | | Prep Date: 09/22/2010 00:00 | | | | | |
| Analyte | | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Phosphorus, Total (As P) | | 0.942 | 0.1 | 1 | | 94 | 73 | 127 | | | |

Sample Matrix Spike

Type: MS Test Code: EPA Method 365.3 / SM4500PE

| | | | | | | | | | | | |
|--------------------------|----------------|--------------|-----|------------------------|-----------|---------------------------------|---------|---------|-----------|-------------|------|
| File ID: | | | | Batch ID: W0922TP | | Analysis Date: 09/22/2010 00:00 | | | | | |
| Sample ID: | 10091542-01AMS | Units : mg/L | | Run ID: WETLAB_100922A | | Prep Date: 09/22/2010 00:00 | | | | | |
| Analyte | | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Phosphorus, Total (As P) | | 1.31 | 0.1 | 1 | 0.385 | 93 | 73 | 127 | | | |

Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method 365.3 / SM4500PE

| | | | | | | | | | | | |
|--------------------------|-----------------|--------------|-----|------------------------|-----------|---------------------------------|---------|---------|-----------|-------------|------|
| File ID: | | | | Batch ID: W0922TP | | Analysis Date: 09/22/2010 00:00 | | | | | |
| Sample ID: | 10091542-01AMSD | Units : mg/L | | Run ID: WETLAB_100922A | | Prep Date: 09/22/2010 00:00 | | | | | |
| Analyte | | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
| Phosphorus, Total (As P) | | 1.27 | 0.1 | 1 | 0.385 | 88 | 73 | 127 | 1.311 | 3.3(20) | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
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Date:
17-Sep-10

QC Summary Report

Work Order:
10091501

Method Blank

Type **MBLK** Test Code: **SM2540C**

| | | | |
|--------------------------------|---------------------|-------------------------------|--|
| File ID: | | Batch ID: W0914DS | Analysis Date: 09/16/2010 00:00 |
| Sample ID: MBLK-W0914DS | Units : mg/L | Run ID: WETLAB_100914B | Prep Date: 09/16/2010 00:00 |
| Analyte | Result | PQL | SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual |
| Solids, Total Dissolved (TDS) | ND | 10 | |

Laboratory Control Spike

Type **LCS** Test Code: **SM2540C**

| | | | |
|-------------------------------|---------------------|-------------------------------|--|
| File ID: | | Batch ID: W0914DS | Analysis Date: 09/16/2010 00:00 |
| Sample ID: LCS-W0914DS | Units : mg/L | Run ID: WETLAB_100914B | Prep Date: 09/16/2010 00:00 |
| Analyte | Result | PQL | SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual |
| Solids, Total Dissolved (TDS) | 95 | 10 | 100 95 80 120 |

Comments:

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Date:
17-Sep-10

QC Summary Report

Work Order:
10091501

Method Blank

Type **MBLK** Test Code: **EPA Method SW8015B / E**

File ID: **7A09141064.D**

Batch ID: **25045**

Analysis Date: **09/15/2010 15:09**

Sample ID: **MBLK-25045**

Units : **mg/L**

Run ID: **FID_7_100915A**

Prep Date: **09/15/2010 09:19**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-E (DRO) | ND | 0.5 | | | | | | | | |
| TPH-E (ORO) | ND | 0.5 | | | | | | | | |
| Surr: Nonane | 0.143 | | 0.15 | | 95 | 57 | 147 | | | |

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8015B / E**

File ID: **7A09141066.D**

Batch ID: **25045**

Analysis Date: **09/15/2010 16:03**

Sample ID: **LCS-25045**

Units : **mg/L**

Run ID: **FID_7_100915A**

Prep Date: **09/15/2010 09:19**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------|--------|------|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-E (DRO) | 2.27 | 0.05 | 2.5 | | 91 | 67 | 130 | | | |
| Surr: Nonane | 0.142 | | 0.15 | | 95 | 57 | 147 | | | |

Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8015B / E**

File ID: **7A09141085.D**

Batch ID: **25045**

Analysis Date: **09/16/2010 00:26**

Sample ID: **10091501-02AMS**

Units : **mg/L**

Run ID: **FID_7_100915A**

Prep Date: **09/15/2010 09:19**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------|--------|------|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-E (DRO) | 2.29 | 0.05 | 2.5 | 0 | 91 | 49 | 150 | | | |
| Surr: Nonane | 0.132 | | 0.15 | | 88 | 57 | 147 | | | |

Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8015B / E**

File ID: **7A09141086.D**

Batch ID: **25045**

Analysis Date: **09/16/2010 00:52**

Sample ID: **10091501-02AMSD**

Units : **mg/L**

Run ID: **FID_7_100915A**

Prep Date: **09/15/2010 09:19**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------|--------|------|--------|-----------|------|---------|---------|-----------|-------------|------|
| TPH-E (DRO) | 2.47 | 0.05 | 2.5 | 0 | 99 | 49 | 150 | 2.287 | 7.5(38) | |
| Surr: Nonane | 0.118 | | 0.15 | | 79 | 57 | 147 | | | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Alpha Analytical, Inc.

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Date:
17-Sep-10

QC Summary Report

Work Order:
10091501

Method Blank

| Method Blank | | Type | MBLK | | Test Code: SM2540D | | | | | | |
|-------------------------------|--------------|---------|--------|-----------|--------------------|---------|---------------------------------|-----------|-------------|------|--|
| File ID: | | | | | Batch ID: W0910SS | | Analysis Date: 09/13/2010 00:00 | | | | |
| Sample ID: | MBLK-W0910SS | Units : | mg/L | Run ID: | WETLAB_100910E | | Prep Date: 09/13/2010 00:00 | | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual | |
| Solids, Total Suspended (TSS) | ND | 2.5 | | | | | | | | | |

Laboratory Control Spike

| Laboratory Control Spike | | Type | LCS | | Test Code: SM2540D | | | | | | |
|-------------------------------|-------------|---------|--------|-----------|--------------------|---------|---------------------------------|-----------|-------------|------|--|
| File ID: | | | | | Batch ID: W0910SS | | Analysis Date: 09/13/2010 00:00 | | | | |
| Sample ID: | LCS-W0910SS | Units : | mg/L | Run ID: | WETLAB_100910E | | Prep Date: 09/13/2010 00:00 | | | | |
| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual | |
| Solids, Total Suspended (TSS) | 76 | 2.5 | 100 | | 76 | 50 | 140 | | | | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
16-Sep-10

QC Summary Report

Work Order:
10091501

Method Blank

Type **MBLK** Test Code: **EPA Method 180.1 / SM2130B**

File ID: Batch ID: **W0915TU** Analysis Date: **09/15/2010 13:57**
Sample ID: **MBLK-W0915TU** Units : **NTU** Run ID: **WETLAB_100915D** Prep Date: **09/15/2010 13:57**
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual
Turbidity ND 0.1

Laboratory Control Spike

Type **LCS** Test Code: **EPA Method 180.1 / SM2130B**

File ID: Batch ID: **W0915TU** Analysis Date: **09/15/2010 13:57**
Sample ID: **LCS-W0915TU** Units : **NTU** Run ID: **WETLAB_100915D** Prep Date: **09/15/2010 13:57**
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual
Turbidity 5.18 0.1 5 104 90 110

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:
17-Sep-10

QC Summary Report

Work Order:
10091501

Method Blank

Type **MBLK** Test Code: **EPA Method SW8260B**

File ID: **10091604.D**

Batch ID: **MS12W0916A**

Analysis Date: **09/16/2010 09:54**

Sample ID: **MBLK MS12W0916A**

Units : **µg/L**

Run ID: **MSD_12_100916A**

Prep Date: **09/16/2010 09:54**

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|------------------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| Dichlorodifluoromethane | ND | 1 | | | | | | | | |
| Chloromethane | ND | 2 | | | | | | | | |
| Vinyl chloride | ND | 1 | | | | | | | | |
| Chloroethane | ND | 1 | | | | | | | | |
| Bromomethane | ND | 2 | | | | | | | | |
| Trichlorofluoromethane | ND | 1 | | | | | | | | |
| 1,1-Dichloroethene | ND | 1 | | | | | | | | |
| Dichloromethane | ND | 2 | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 1 | | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 1 | | | | | | | | |
| 1,1-Dichloroethane | ND | 1 | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 1 | | | | | | | | |
| Bromochloromethane | ND | 1 | | | | | | | | |
| Chloroform | ND | 1 | | | | | | | | |
| 2,2-Dichloropropane | ND | 1 | | | | | | | | |
| 1,2-Dichloroethane | ND | 1 | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 1 | | | | | | | | |
| 1,1-Dichloropropene | ND | 1 | | | | | | | | |
| Carbon tetrachloride | ND | 1 | | | | | | | | |
| Benzene | ND | 1 | | | | | | | | |
| Dibromomethane | ND | 1 | | | | | | | | |
| 1,2-Dichloropropane | ND | 1 | | | | | | | | |
| Trichloroethene | ND | 1 | | | | | | | | |
| Bromodichloromethane | ND | 1 | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 1 | | | | | | | | |
| trans-1,3-Dichloropropene | ND | 1 | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 1 | | | | | | | | |
| Toluene | ND | 1 | | | | | | | | |
| 1,3-Dichloropropane | ND | 1 | | | | | | | | |
| Dibromochloromethane | ND | 1 | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 2 | | | | | | | | |
| Tetrachloroethene | ND | 1 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1 | | | | | | | | |
| Chlorobenzene | ND | 1 | | | | | | | | |
| Ethylbenzene | ND | 1 | | | | | | | | |
| m,p-Xylene | ND | 1 | | | | | | | | |
| Bromoform | ND | 1 | | | | | | | | |
| Styrene | ND | 1 | | | | | | | | |
| o-Xylene | ND | 1 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 1 | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2 | | | | | | | | |
| Isopropylbenzene | ND | 1 | | | | | | | | |
| Bromobenzene | ND | 1 | | | | | | | | |
| n-Propylbenzene | ND | 1 | | | | | | | | |
| 4-Chlorotoluene | ND | 1 | | | | | | | | |
| 2-Chlorotoluene | ND | 1 | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 1 | | | | | | | | |
| tert-Butylbenzene | ND | 1 | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1 | | | | | | | | |
| sec-Butylbenzene | ND | 1 | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 1 | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 1 | | | | | | | | |
| 4-Isopropyltoluene | ND | 1 | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 1 | | | | | | | | |
| n-Butylbenzene | ND | 1 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 3 | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 2 | | | | | | | | |
| Naphthalene | ND | 2 | | | | | | | | |
| Hexachlorobutadiene | ND | 2 | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 2 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 11.5 | | 10 | | 115 | 70 | 130 | | | |
| Surr: Toluene-d8 | 9.71 | | 10 | | 97 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 9.2 | | 10 | | 92 | 70 | 130 | | | |



Alpha Analytical, Inc.

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Date:
17-Sep-10

QC Summary Report

Work Order:
10091501

Laboratory Control Spike

Type LCS Test Code: EPA Method SW8260B

File ID: 10091603.D

Batch ID: MS12W0916A

Analysis Date: 09/16/2010 09:31

Sample ID: LCS MS12W0916A

Units: µg/L

Run ID: MSD_12_100916A

Prep Date: 09/16/2010 09:31

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| 1,1-Dichloroethene | 10.5 | 1 | 10 | | 105 | 80 | 120 | | | |
| Methyl tert-butyl ether (MTBE) | 9.76 | 0.5 | 10 | | 98 | 62 | 136 | | | |
| Benzene | 10.5 | 0.5 | 10 | | 105 | 70 | 130 | | | |
| Trichloroethene | 10.8 | 1 | 10 | | 108 | 70 | 130 | | | |
| Toluene | 10 | 0.5 | 10 | | 100 | 80 | 120 | | | |
| Chlorobenzene | 10.3 | 1 | 10 | | 103 | 70 | 130 | | | |
| Ethylbenzene | 10.1 | 0.5 | 10 | | 101 | 80 | 120 | | | |
| m,p-Xylene | 10.8 | 0.5 | 10 | | 108 | 70 | 130 | | | |
| o-Xylene | 9.52 | 0.5 | 10 | | 95 | 70 | 130 | | | |
| Surr: 1,2-Dichloroethane-d4 | 11.1 | | 10 | | 111 | 70 | 130 | | | |
| Surr: Toluene-d8 | 9.63 | | 10 | | 96 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 9.95 | | 10 | | 100 | 70 | 130 | | | |

Sample Matrix Spike

Type MS Test Code: EPA Method SW8260B

File ID: 10091616.D

Batch ID: MS12W0916A

Analysis Date: 09/16/2010 14:38

Sample ID: 10091642-04AMS

Units: µg/L

Run ID: MSD_12_100916A

Prep Date: 09/16/2010 14:38

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|------|
| 1,1-Dichloroethene | 55.7 | 2.5 | 50 | | 0 | 111 | 60 | 130 | | |
| Methyl tert-butyl ether (MTBE) | 46.8 | 1.3 | 50 | | 0 | 94 | 56 | 141 | | |
| Benzene | 51 | 1.3 | 50 | | 0 | 102 | 67 | 130 | | |
| Trichloroethene | 52.8 | 2.5 | 50 | | 0 | 106 | 69 | 130 | | |
| Toluene | 45.4 | 1.3 | 50 | | 0 | 91 | 66 | 130 | | |
| Chlorobenzene | 49.4 | 2.5 | 50 | | 0 | 99 | 70 | 130 | | |
| Ethylbenzene | 46.8 | 1.3 | 50 | | 0 | 94 | 68 | 130 | | |
| m,p-Xylene | 49.7 | 1.3 | 50 | | 0 | 99 | 64 | 130 | | |
| o-Xylene | 44.8 | 1.3 | 50 | | 0 | 90 | 70 | 130 | | |
| Surr: 1,2-Dichloroethane-d4 | 62 | | 50 | | | 124 | 70 | 130 | | |
| Surr: Toluene-d8 | 46.2 | | 50 | | | 92 | 70 | 130 | | |
| Surr: 4-Bromofluorobenzene | 48.5 | | 50 | | | 97 | 70 | 130 | | |

Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method SW8260B

File ID: 10091617.D

Batch ID: MS12W0916A

Analysis Date: 09/16/2010 15:01

Sample ID: 10091642-04AMSD

Units: µg/L

Run ID: MSD_12_100916A

Prep Date: 09/16/2010 15:01

| Analyte | Result | PQL | SpkVal | SpkRefVal | %REC | LCL(ME) | UCL(ME) | RPDRefVal | %RPD(Limit) | Qual |
|--------------------------------|--------|-----|--------|-----------|------|---------|---------|-----------|-------------|---------|
| 1,1-Dichloroethene | 57.6 | 2.5 | 50 | | 0 | 115 | 60 | 130 | 55.71 | 3.3(20) |
| Methyl tert-butyl ether (MTBE) | 51.3 | 1.3 | 50 | | 0 | 103 | 56 | 141 | 46.77 | 9.2(20) |
| Benzene | 53 | 1.3 | 50 | | 0 | 106 | 67 | 130 | 51 | 3.9(20) |
| Trichloroethene | 55.3 | 2.5 | 50 | | 0 | 111 | 69 | 130 | 52.82 | 4.6(20) |
| Toluene | 48.5 | 1.3 | 50 | | 0 | 97 | 66 | 130 | 45.38 | 6.6(20) |
| Chlorobenzene | 51.8 | 2.5 | 50 | | 0 | 104 | 70 | 130 | 49.36 | 4.9(20) |
| Ethylbenzene | 49.7 | 1.3 | 50 | | 0 | 99 | 68 | 130 | 46.75 | 6.0(20) |
| m,p-Xylene | 52.8 | 1.3 | 50 | | 0 | 106 | 64 | 130 | 49.74 | 5.9(20) |
| o-Xylene | 47.3 | 1.3 | 50 | | 0 | 95 | 70 | 130 | 44.83 | 5.4(20) |
| Surr: 1,2-Dichloroethane-d4 | 60.9 | | 50 | | | 122 | 70 | 130 | | |
| Surr: Toluene-d8 | 46.8 | | 50 | | | 94 | 70 | 130 | | |
| Surr: 4-Bromofluorobenzene | 47.9 | | 50 | | | 96 | 70 | 130 | | |

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Laboratory Report
Report ID: 108252



**Sierra
Environmental
Monitoring, Inc.**

Alpha Analytical
Attn: Reyna Vallejo
255 Glendale Avenue Suite 21
Sparks, NV 89431

Date: 9/20/2010
Client: ALP-855
Taken by: J. Ruffing
PO #:

Dear Reyna Vallejo,

It is the policy of Sierra Environmental Monitoring, Inc to strictly adhere to a comprehensive Quality Assurance Plan that insures the data presented in this report are both accurate and precise. Sierra Environmental Monitoring, Inc. maintains accreditation in the State of Nevada (NV-15) and the State of California (ELAP 2526).

The data presented in this report were obtained from the analysis of samples received under a chain of custody. Unless otherwise noted below, samples were received in good condition, properly preserved and within the hold time for the requested analyses. Any anomalies associated with the analysis of the samples have been flagged with appropriate explanation in the Analysis Report section of this Laboratory Report.

General Comments:

- There are no general comments for this report.

Individual Sample Comments:

- There are no specific comments that are associated with these samples.

Approved By:

A handwritten signature in black ink, appearing to be a stylized name, is written over a horizontal line.

Sierra Environmental Monitoring, Inc.

Date:

9/20/2010

This report is applicable only to the sample received by the laboratory. The liability of the laboratory is limited to the amount paid for this report. This report is for the exclusive use of the client to whom it is addressed and upon the condition that the client assumes all liability for the further distribution of the report or its contents.



Laboratory Report
Report ID: 108252

**Sierra
Environmental
Monitoring, Inc.**

Alpha Analytical
Attn: Reyna Vallejo
255 Glendale Avenue Suite 21
Sparks, NV 89431

Date: 9/20/2010
Client: ALP-855
Taken by: J. Ruffing
PO #:

Analysis Report

| Sample ID: | Customer Sample ID | Date Sampled | Time Sampled | Date Received | | | | |
|----------------------------|----------------------|--------------|--------------|-----------------|-----------------|---------------|---------------|-----------|
| S201009-0872 | E2M10091501-01 - NTD | 9/14/2010 | 4:30 PM | 9/15/2010 | Reporting Limit | Analyst | Date Analyzed | Data Flag |
| Parameter | Method | Result | Units | Reporting Limit | Analyst | Date Analyzed | Data Flag | |
| Color Apparent | SM 2120 B | 15 | Color Units | 5 | Pacheco | 9/10/2010 | | |
| E. coli MPN | SM 9221 F | 50 | mpn/100ml | 2 | Kobza | 9/15/2010 | | |
| Fecal Coliform MPN | SM 9221 E | >1600 | mpn/100ml | 2 | Kobza | 9/15/2010 | | |
| Oxygen Dissolved - Winkler | SM 4500 O C | 6.9 | mg/L | 0.1 | Kobza | 9/15/2010 | Hr | |

| Sample ID: | Customer Sample ID | Date Sampled | Time Sampled | Date Received | | | | |
|----------------------------|---------------------------|--------------|--------------|-----------------|-----------------|---------------|---------------|-----------|
| S201009-0873 | E2M10091501-02 - B-3 (MW) | 9/14/2010 | 12:50 PM | 9/15/2010 | Reporting Limit | Analyst | Date Analyzed | Data Flag |
| Parameter | Method | Result | Units | Reporting Limit | Analyst | Date Analyzed | Data Flag | |
| Color Apparent | SM 2120 B | <5 | Color Units | 5 | Pacheco | 9/10/2010 | | |
| E. coli MPN | SM 9221 F | <2 | mpn/100ml | 2 | Kobza | 9/15/2010 | | |
| Fecal Coliform MPN | SM 9221 E | <2 | mpn/100ml | 2 | Kobza | 9/15/2010 | | |
| Oxygen Dissolved - Winkler | SM 4500 O C | 2.0 | mg/L | 0.1 | Kobza | 9/15/2010 | Hr | |

| Sample ID: | Customer Sample ID | Date Sampled | Time Sampled | Date Received | | | | |
|----------------------------|---------------------------|--------------|--------------|-----------------|-----------------|---------------|---------------|-----------|
| S201009-0874 | E2M10091501-03 - B-7 (MW) | 9/14/2010 | 3:50 PM | 9/15/2010 | Reporting Limit | Analyst | Date Analyzed | Data Flag |
| Parameter | Method | Result | Units | Reporting Limit | Analyst | Date Analyzed | Data Flag | |
| Color Apparent | SM 2120 B | 10 | Color Units | 5 | Pacheco | 9/10/2010 | | |
| E. coli MPN | SM 9221 F | <2 | mpn/100ml | 2 | Kobza | 9/15/2010 | | |
| Fecal Coliform MPN | SM 9221 E | <2 | mpn/100ml | 2 | Kobza | 9/15/2010 | | |
| Oxygen Dissolved - Winkler | SM 4500 O C | 1.3 | mg/L | 0.1 | Kobza | 9/15/2010 | Hr | |

Laboratory Report
Report ID: 108252



**Sierra
Environmental
Monitoring, Inc.**

Alpha Analytical
Attn: Reyna Vallejo
255 Glendale Avenue Suite 21
Sparks, NV 89431

Date: 9/20/2010
Client: ALP-855
Taken by: J. Ruffing
PO #:

Analysis Report

| | | | | |
|-------------------|----------------------------|---------------------|---------------------|----------------------|
| Sample ID: | Customer Sample ID | Date Sampled | Time Sampled | Date Received |
| S201009-0875 | E2M10091501-04 - B-11 (MW) | 9/14/2010 | 2:20 PM | 9/15/2010 |

| Parameter | Method | Result | Units | Reporting Limit | Analyst | Date Analyzed | Data Flag |
|----------------------------|---------------|---------------|--------------|------------------------|----------------|----------------------|------------------|
| Color Apparent | SM 2120 B | 400 | Color Units | 5 | Pacheco | 9/10/2010 | |
| E. coli MPN | SM 9221 F | <2 | mpn/100ml | 2 | Kobza | 9/15/2010 | |
| Fecal Coliform MPN | SM 9221 E | <2 | mpn/100ml | 2 | Kobza | 9/15/2010 | |
| Oxygen Dissolved - Winkler | SM 4500 O C | 2.6 | mg/L | 0.1 | Kobza | 9/15/2010 | Hr |

Data Flag Legend:

Hr - Sample was received beyond holding time for this parameter and analyzed per client's request.

Laboratory Report
Report ID: 108252



**Sierra
Environmental
Monitoring, Inc.**

Alpha Analytical
Attn: Reyna Vallejo
255 Glendale Avenue Suite 21
Sparks, NV 89431

Date: 9/20/2010
Client: ALP-855
Taken by: J. Ruffing
PO #:

Quality Control Report

| <i>Parameter</i> | <i>LCS, % Recovery</i> | <i>MS, % Recovery</i> | <i>MSD, % Recovery</i> | <i>RPD, %</i> | <i>Method Blank</i> |
|----------------------------|----------------------------|---------------------------|----------------------------|---------------|---------------------|
| Oxygen Dissolved - Winkler | | | | 0.00 | |

Legend: *LCS- Laboratory Control Standard* *MS- Matrix Spike* *MSD- Matrix Spike Duplicate*
RPD- Relative Percent Difference

Billing Information :

E2M
9563 S. Kingsston Ct.
Englewood, CO 80112

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

NV

WorkOrder : E2M10091501

Report Due By : 5:00 PM On : 22-Sep-2010

Client:
HDR | E2M
2365 Iron Point Road
Suite 300
Folsom, CA 95630

Report Attention Phone Number Email Address
Jacob Ruffing (916) 852-7792 x jacob.ruffing@hdrinc.com

EDD Required : Yes

Sampled by : Jacob Ruffing

Client's COC # : none

Job : North Truckee Drain

Cooler Temp 4 °C

Samples Received 14-Sep-2010

Date Printed 15-Sep-2010

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

| Alpha Sample ID | Client Sample ID | Collection Matrix Date | No. of Bottles | | | Requested Tests | | | | | | Sample Remarks | |
|-----------------|------------------|------------------------|----------------|-----|-----|---|--------------|-----------|------------------------------|-------|------|---|-------------------------|
| | | | Alpha | Sub | TAT | 300_0_W | ALKALINITY_W | AMMONIA_W | COLIFORM | COLOR | HOLD | | METALS_A |
| E2M10091501-01A | NTD | AQ 09/14/10 16:30 | 9 | 4 | 5 | N-Total =(NO2+NO3 +TKN)/ SO4, Cl | Alk | NH3 | Fecal Coliform/E. Coli | Color | Na | N-Total =(NO2+NO3 +TKN)/ SO4, Cl | |
| E2M10091501-02A | B-3 (MW) | AQ 09/14/10 12:50 | 9 | 4 | 5 | N-Total =(NO2+NO3 +TKN)/ SO4, Cl | Alk | NH3 | Fecal Coliform/E. Coli | Color | Na | N-Total =(NO2+NO3 +TKN)/ SO4, Cl | |
| E2M10091501-03A | B-7 (MW) | AQ 09/14/10 15:50 | 9 | 4 | 5 | N-Total =(NO2+NO3 +TKN)/ SO4, Cl | Alk | NH3 | Fecal Coliform/E. Coli | Color | Na | N-Total =(NO2+NO3 +TKN)/ SO4, Cl | |
| E2M10091501-04A | B-11 (MW) | AQ 09/14/10 14:20 | 9 | 4 | 5 | N-Total =(NO2+NO3 +TKN)/ SO4, Cl | Alk | NH3 | Fecal Coliform/E. Coli | Color | Na | N-Total =(NO2+NO3 +TKN)/ SO4, Cl | |
| E2M10091501-05A | Trip Blank | AQ 09/14/10 00:00 | 1 | 0 | 5 | | | | | Hold | | | Reno Trip Blank 8/24/10 |

Comments: Samples brought in by client. Frozen ice. Samples received 9/14/10 kept cold and secure until login on 9/15/10. Per Tara's conversation w/ Jacob 9/14/10 @ 16:55 it is o.k. to run analyses outside of hold time. Samples received after the 4:30 pm cutoff : time therefore one day added to TAT. DO, Color, Fecal Coliform, and E. Coli subbed to SEM. Logged in per previous workorders. Trip Blank received and placed on hold by lab.

Logged in by: Elizabeth Aldrey Signature: Elizabeth Aldrey Print Name: Elizabeth Aldrey Company: Alpha Analytical, Inc. Date/Time: 9.15.10 8:16

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

E2M
9563 S. Kingston Ct.
Englewood, CO 80112

CHAIN-OF-CUSTODY RECORD

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

NV

WorkOrder : E2M10091501

Report Due By : 5:00 PM On : 22-Sep-2010

Client:
HDR | E2M
2365 Iron Point Road
Suite 300
Folsom, CA 95630

Report Attention Phone Number (916) 852-7792 x Email Address jacob.ruffing@hadrinc.com
Jacob Ruffing

EDD Required : Yes

Sampled by : Jacob Ruffing

Cooler Temp 4 °C

Samples Received 14-Sep-2010

Date Printed 15-Sep-2010

Client's COC # : none Job : North Truckee Drain

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

| Alpha Sample ID | Client Sample ID | Collection Matrix Date | No. of Bottles Alpha Sub | TAT | Requested Tests | | | | | | | Sample Remarks | | |
|-----------------|------------------|------------------------|--------------------------|-----|-----------------|---|------|---------------|-------|---------|--------|----------------|-----------|-------------------------|
| | | | | | N-TOTAL_ W | OXYGEN_D ISS | PH_W | PHOSPHO RUS_W | TDS_W | TPHE_W | TSS_W | | TURBIDITY | |
| E2M10091501-01A | NTD | AQ 09/14/10 16:30 | 9 | 4 | 5 | N-TOTAL =(NO2+NO3 +TKN)/ SO4, Cl | DO | pH | Total | TDS/TSS | TPHE_N | TDS/TSS | Turbidity | |
| E2M10091501-02A | B-3 (MW) | AQ 09/14/10 12:50 | 9 | 4 | 5 | N-TOTAL =(NO2+NO3 +TKN)/ SO4, Cl | DO | pH | Total | TDS/TSS | TPHE_N | TDS/TSS | Turbidity | |
| E2M10091501-03A | B-7 (MW) | AQ 09/14/10 15:50 | 9 | 4 | 5 | N-TOTAL =(NO2+NO3 +TKN)/ SO4, Cl | DO | pH | Total | TDS/TSS | TPHE_N | TDS/TSS | Turbidity | |
| E2M10091501-04A | B-11 (MW) | AQ 09/14/10 14:20 | 9 | 4 | 5 | N-TOTAL =(NO2+NO3 +TKN)/ SO4, Cl | DO | pH | Total | TDS/TSS | TPHE_N | TDS/TSS | Turbidity | |
| E2M10091501-05A | Trip Blank | AQ 09/14/10 00:00 | 1 | 0 | 5 | | | | | | | | | Reno Trip Blank 8/24/10 |

Comments: Samples brought in by client. Frozen ice. Samples received 9/14/10 kept cold and secure until login on 9/15/10. Per Tara's conversation w/ Jacob 9/14/10 @ 16:55 it is o.k. to run analyses outside of hold time. Samples received after the 4:30 pm cutoff. time therefore one day added to TAT. DO, Color, Fecal Coliform, and E. Coli subbed to SEM. Logged in per previous workorders. Trip Blank received and placed on hold by lab.

Logged in by: Elizabeth Adcox Signature Elizabeth Adcox Print Name Elizabeth Adcox Company Alpha Analytical, Inc. Date/Time 9:15:10 8:16

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

E2M
9563 S. Kingston Ct.
Englewood, CO 80112

CHAIN-OF-CUSTODY RECORD

NV

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : E2M10091501

Report Due By : 5:00 PM On : 22-Sep-2010

Client:

HDR | E2M
2365 Iron Point Road
Suite 300
Folsom, CA 95630

Report Attention

Jacob Ruffing

Phone Number

(916) 852-7792 x jacob.ruffing@hadrinc.com

Email Address

EDD Required : Yes

Sampled by : Jacob Ruffing

Cooler Temp

4 °C

Samples Received

14-Sep-2010

Date Printed

15-Sep-2010

Client's COC # : none

Job : North Truckee Drain

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

| Alpha Sample ID | Client Sample ID | Collection Matrix Date | No. of Bottles | | | VOC_W | Requested Tests | | | | | | Sample Remarks | | | | | |
|-----------------|------------------|------------------------|----------------|-----|-----|-------------|-----------------|--|--|--|--|--|----------------|--|--|--|--|-------------------------|
| | | | Alpha | Sub | TAT | | | | | | | | | | | | | |
| E2M10091501-01A | NTD | AQ 09/14/10 16:30 | 9 | 4 | 5 | 8260/MTBE_N | | | | | | | | | | | | |
| E2M10091501-02A | B-3 (MW) | AQ 09/14/10 12:50 | 9 | 4 | 5 | 8260/MTBE_N | | | | | | | | | | | | |
| E2M10091501-03A | B-7 (MW) | AQ 09/14/10 15:50 | 9 | 4 | 5 | 8260/MTBE_N | | | | | | | | | | | | |
| E2M10091501-04A | B-11 (MW) | AQ 09/14/10 14:20 | 9 | 4 | 5 | 8260/MTBE_N | | | | | | | | | | | | |
| E2M10091501-05A | Trip Blank | AQ 09/14/10 00:00 | 1 | 0 | 5 | | | | | | | | | | | | | Reno Trip Blank 8/24/10 |

Comments:

Samples brought in by client. Frozen ice. Samples received 9/14/10 kept cold and secure until login on 9/15/10. Per Tara's conversation w/ Jacob 9/14/10 @ 16:55 it is o.k. to run analyses outside of hold time. Samples received after the 4:30 pm cutoff. time therefore one day added to TAT. DO, Color, Fecal Coliform, and E. Coli subbed to SEM. Logged in per previous workorders. Trip Blank received and placed on hold by lab.

Logged in by: Emp bath Adcox Elizabeth Adcox Alpha Analytical, Inc. 9.15.10 8.16

Signature: _____ Print Name: _____ Company: _____ Date/Time: _____

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

