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M&A Project No. MA-2003-123

COMPENDIUM OF PROJECT PLANS

FORMER DICO OIL
1845 East Willow Street
Signal Hill, California

Prepared for:

US ENVIRONMENTAL PROTECTION AGENCY
Region 9
200 Ocean Gate, Suite 900
Long Beach, California 90802

Prepared by:

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March 1,2004

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1.0 INTRODUCTION

On September 3, 2003, Dico Oil Company (Dico) and Mr. Luis Marmol (as property owner) were issued a "Unilateral Administrative Order for the Performance of a Removal Action" (Order). At the time of the Order, Dico was not operational and all hazardous waste substances located on-site had been abandoned. As such the responsibility fell to the property owner. The purpose of the Order is to mitigate threats to human health and the environment due to on-going releases or threats of releases of hazardous substances. In addition, the Order requires the cleanup and disposal of PCB remediation waste in conformance with the self-implementing cleanup provisions described at 40 CFR 761.61(a).

Meredith & Associates (M&A) was retained by Mr. Luis Marmol to implement the soil sampling and mitigation requirements of the Order. M&A initially prepared a Soil Sampling Plan (SSP) to comply with the soil sampling provisions of the Order. The purpose of the SSP was to characterize the nature and extent of contamination in soil beneath the Site as the preliminary step in conducting a removal action under the Order. M&A completed the soil sampling described in the SSP. This report summarizes the results of the SSP and presents a Removal Action Workplan (RAW) to mitigate hazardous substances identified during the completion of the SSP.

This RAW presents information corresponding to the following major topics:

- Site Description and Background (Section 2.0)
- Implementation and Results of the Soil Sampling Plan (Section 3.0)
- Applicable Regulations (Section 4.0)
- Removal Action Implementation (Section 5.0)
- Verification Soil Sampling (Section 6.0)
- Project Schedule (Section 7.0).

2.0 SITE DESCRIPTION AND BACKGROUND

2.1 SITE LOCATION AND DESCRIPTION

Dico is located at 1845 East Willow Street in Signal Hill, Los Angeles County, California (hereinafter, the Site). A site location map is provided as Figure 1. The surrounding properties consist of vacant land, oil fields, and commercial developments, as shown in Figure 2.

2.2 SITE OWNERSHIP AND CONTACT INFORMATION

The site is currently owned by:

Mr. Luis Marmol
c/o DESIGN CURVES
824 West 18th Street
Costa Mesa, California 92627
(949) 650-9191

The work is being completed under the oversight of US EPA. The designated contact for this RAW is:

Mr. Craig Benson
US ENVIRONMENTAL PROTECTION AGENCY
Region 9
200 Ocean Gate, Suite 900
Long Beach, California 90802

2.3 OPERATIONAL HISTORY AND CURRENT STATUS

The project background is summarized from the "Findings of Fact" identified in the Order and the Action Memorandum, dated October 3, 2003, prepared by Craig Benson, On-Scene Coordinator for the United States Environmental Protection Agency (USEPA).

Dico operated oil and recycling facility from 1960 to 1995. While in operation, Dico blended oils that contained varying amounts of water and sediment to create a marketable fuel. Asphalt emulsions, crude oil, diesel fuels, jet fuel, kerosene and Stoddard solvents, waste oils, and light to heavy fuel oils contaminated with water and solids were accepted from various sources and placed into six steel above-ground storage tanks (ASTs) for processing and blending. The "recycled oil" was then sold through brokers primarily to the bunker oil market as ship fuel. Dico reportedly purchased, processed and re-sold between 2-3 million gallons of oil per year.

As of January 30, 2004, the following features were present at the Site:

- A concrete truck loading area, which is a rectangular, bermed concrete pad, measuring approximately 87.5 feet by 20 feet and 0.5 feet thick. A sump is located in the northern end of the pad.
- A concrete approach area, which is an L-shaped concrete pad. The main area measures approximately 85 feet by 38 feet, varying in thickness from 6 inches to 1.75 feet. The smaller area measures 37 feet by 20 feet and 0.5 feet thick.
- Two small concrete pads, which were associated with a former storage shed and former lab.
- An aboveground natural gas housing, which may or may not be connected to an active gas line. The structure is immediately adjacent to the north end of the former tank farm.

- An above ground structure, possibly a pump housing, located immediately north of the former drum storage area.
- A chain link fence partially surrounds the Site, separating the Site from the two single-family residences (which are also owned by Mr. Marmol), and the other neighboring properties.

2.4 TOPOGRAPHY

The Site is located in Section 19 of Township 4 South, Range 12 West, of the San Bernardino Baseline and Meridian, on the Torrance 7.5 Minute United States Geological Survey (USGS) topographic map. Geographic coordinates for the Site are Latitude 33° 48′ 21.7" North and Longitude 118° 10′ 07.1 West. The Site lies at an approximate elevation of 135 feet above mean sea level (msl), near the crest of Signal Hill, California. The topographic gradient in the vicinity of the Site is toward the northeast.

2.5 GEOLOGY AND HYDROGEOLOGY

Signal Hill is an uplifted area resulting from activity on the Newport Inglewood Fault Zone, which is located to the southwest in close proximity to the Site.

Based on data summarized in the "RCRA Facility Assessment Report for Dico Oil Corporation", the Site is underlain by silty sand to a depth of 9 feet below ground surface (bgs). Poorly cemented sand was encountered at a depth of nine to eleven feet bgs. Loose sand was encountered at 11 to 13 feet bgs, and poorly indurated sand was encountered from 13 to 16 feet bgs.

As summarized in the Action Memorandum, and based upon research of groundwater data, groundwater is estimated to be present at a depth of 150 to 200 feet beneath the facility. The Memorandum also stated that it is unlikely that significant groundwater contamination resulted from previous Site activities.

2.6 SURROUNDING LAND USE AND SENSITIVE ECOSYSTEMS

The Site is located in a largely commercial zone, as shown in Figure 2, and summarized below:

- North of the Site is an industrial/office park
- East of the Site are two residences, which are located on property owned by Mr. Marmol. According to Mr. Marmol, the renters in both houses have been asked to vacate the property. The houses will be demolished and the property will be redeveloped for commercial/industrial purposes.
- South of the Site is a retail business (Office Max) and associated parking lot
- West of the Site is undeveloped land used primarily for oil production by Signal Hill Petroleum.

2.7 METEOROLOGY

The climate within the Los Angeles Basin is categorized as Mediterranean. This climate type is characterized by pronounced seasonal changes in rainfall -- a dry summer and a rainy winter. During the dry season, the eastern Pacific high-pressure area dominates the weather over much of southern California. This system produces a marine layer generally between late spring through early fall. Due to the stability of the marine layer, significant precipitation is rare between May and October.

During the remainder of the year -- from November through April -- Los Angeles is on the southern margins of the northern hemisphere polar jet stream. Pacific storms, sometimes fed with tropical moisture, often push cold

fronts across California from northwest to southeast. These storms and frontal systems account for most of the area's annual rainfall, which averages between 14 and 18 inches (14.8 inches at downtown Los Angeles).

The annual average high temperature for Los Angeles is 75°F, while the average low is 57°F. Winds are generally light, with frequent afternoon sea breezes of 10 to 15 miles per hour. Although strong offshore winds known as Santa Anas can reach hurricane strength below passes and canyons, damaging winds tend to be rare or highly localized.

2.8 REGULATORY STATUS OF THE SITE

EPA documented six previous soil sampling events conducted at the Site, and are listed in Appendix A, Action Memorandum, Table 1: Historical Data for the Dico Oil Co. Site. Based on the historical data, the following contaminants were identified at the Site:

- The maximum Total Petroleum Hydrocarbons (TPH) concentration was 44,000 milligrams per kilogram (mg/kg).
- The maximum TPH as oil was 680,000 mg/kg.
- The maximum TPH as diesel was 24,000 mg/kg.
- The maximum PCB concentration was 4,400 mg/kg.
- Numerous Volatile Organic Compounds (VOCs) were detected at relatively low concentrations.
- Numerous Semi Volatile Organic Compounds (SVOCs) were detected at relatively low concentrations
- The maximum lead concentration was 2,300 mg/kg.
- The maximum chromium concentration was 484 mg/kg.

Based on the analytical results from these documents, lead, chromium, and PCB concentrations were considered hazardous substances as defined by Section 101(14) of CERCLA. EPA issued a Unilateral Administrative Order US EPA Docket No. 9-2003-14 to mitigate the hazardous substances at the Site.

The following activities were required by the Order:

a) Relocate non-hazardous vehicles and other equipment from the existing truck pad and provide for an unrestricted access corridor from the facility gate to the tank farm area

b) Sample and characterize all containerized materials, including tank sludge, content of piping systems, and any non-bulk containers on-site

c) Segregate all hazardous substances

d) Characterize, dismantle and remove all tanks and vats from the Site, including appurtenant tank farm structures, berm soils, contaminated concrete, vegetation and debris

e) Submit a Soil Sampling Plan to assess Site soils for contamination with hazardous substances, including soils classified as PCB remediation waste as defined by 40 Code Federal Regulations (CFR) Part 761. The assessment shall characterize the zone extending from the surface to a minimum of five (5) feet below ground surface, except as necessary to characterize the extent of soil contamination to the point at which either the contamination terminates or first groundwater is reached

f) Excavate and remove Site-contaminated soils until the conditions of the soil cleanup verification and analysis are achieved. The excavation must be backfilled with clean fill, compacted, and graded, restoring its original condition

g) All hazardous substances shall be disposed of in accordance with Section 121(d)(3) of CERCLA, 42 U.S.C. 9621(d)(3) and the EPA "Procedures for planning and implementing off-site response actions," promulgated at 40 C.F.R. Part 300.400.

2.9 ORDER COMPLIANCE

Aboveground structures. On September 17, 2003, Dico retained The Reynolds Group (Reynolds) to develop and implement a Work Plan in response to provisions a, b, c and d of the Order. Dico retained Consolidated Waste Industries, Inc. (CWI) to perform the actual physical work of packaging, sampling, transporting, and disposal of the ASTs and piping.

The aboveground structures were removed. Most of the berm was removed and contained within covered roll-off bins, and the wastes from inside the ASTs were contained within twenty 55-gallon drums and one roll-off bin. The bins and drums containing the berm and bulk waste materials were transported off-site for appropriate disposal. One bin containing the metal aboveground structures was sent to a metal recycling facility.

Soil Sampling Plan. On November 19, 2003, Mr. Luis Marmol retained M&A to replace the Reynolds Group. Subsequent tasks have included sampling the drums and bins for disposal, preparation and implementation of a Soil Sampling Plan and the preparation of this compendium of a Project Plans. The bins were sampled and tested for characterization and subsequently transported by CWI to Chemical Waste Management in Kettleman Hills. M&A prepared a Soil Sampling Plan (SSP), dated December 10, 2003. That document was approved by the EPA, with some provisions, which were addressed in a letter from M&A dated December 17, 2003. The SSP was implemented and completed as described in detail in Section 3.

Excavation Plan. In order to comply with the removal action requirements of the Order, M&A prepared the Excavation Workplan in Section 5.0 of this report. After EPA approval, the workplan will be implemented, which will include excavation and disposal of the affected soil.

Verification Plan. After the PCB affected soil is excavated in accordance with Excavation Plan, bottom samples will be collected and tested in accordance with the rules of 40 CFR, Subpart O (the PCB Rule). The PCB Subpart O Verification Plan is attached in Section 6.0 of this report.

3.0 IMPLEMENTATION AND RESULTS OF THE SOIL SAMPLING PLAN

The objectives of the SSP were:

- Assess Site soils for contamination with hazardous substances in accordance with the guidelines provided in "Site Characterization Sampling for PCB Remediation Waste" (40 CFR 761.260, Subpart N). PCBs, chromium, and lead were specifically identified in the Order as "hazardous substances" associated with the Site. In addition, Site soils contained elevated concentrations of TPH.
- Provide a report documenting the areas of hazardous substances, which will be used to identify the amount of material to be excavated and removed from the Site.

3.1 PRE-FIELD ACTIVITIES

The pre-field activities consisted of developing the sample grid, identifying the sample depths, developing the soil compositing scheme, identifying the analyses to be completed at each grid location, establishing the cleanup goals for comparison with the field data. In addition, general planning for the excavation of the waste to an appropriate disposal facility was also considered, such as the analytical requirements for a TSCA landfill and non-RCRA landfill.

Sample grid. In accordance with 40 CFR 761.265, a grid interval of 3-meters (10-feet) was used to collect soil samples from within the former tank farm area and drum storage area. Each grid was assigned an individual alphanumeric identifier (i.e. B-42). The grid was staked prior to collecting the soil samples. A boring was advanced within the center of each grid, which was also staked, labeled and surveyed.

Sample Depths. 40 CFR 761.286 requires a maximum depth of 7.5 centimeters (cms), or 3 inches. In addition, the Order requires that the upper 5 feet be characterized for PCBs, lead, and chromium. Therefore, the sample depths were 3 inches, 2 to 2.5 feet, and 4.5 to 5 feet below ground surface. If the sample collected from the 5-foot depth was visibly discolored or odorous, the boring was extended until the discoloration was no longer present or significantly diminished.

Compositing. In accordance with 40 CFR 761.289, the soil samples were composited, as shown in Table 1. The soil compositing was based on the following three criteria: collection from the same depth (i.e., 0.5-feet bgs, 2.5-feet bgs, 5.0-feet bgs, etc.,), similar lithology, and a similar or same point source of contamination (i.e., the location of the former ASTs, or the pipe trench, or drum storage area). The soil samples were composited by weight in the laboratory. A maximum of nine samples is allowed to be composited under 40 CFR 761.289, as long as the samples are from adjacent grids.

The composited squares define the area of inference. For example, the analytical results for sample "Comp-1", representing the 3-inch soil depth, were applied to all nine squares that were included in the composite sample. If the "Comp-1" soil sample contained a PCB concentration exceeding the cleanup goals (described below), all nine squares were marked for excavation. If a composite sample or a discrete sample exceeded the cleanup goal, the grid was extended in the appropriate directions, as necessary, to try to define the lateral extent of contamination.

Laboratory Analyses. To evaluate the nature and extent of contamination, the soil samples were analyzed for PCBs using EPA Method 8082, lead and chromium using EPA Method 6010B, and TPH oil and diesel using EPA Method 8015. To profile the contamination for disposal, selected soil samples were analyzed for volatile organic compounds (VOCs) using EPA Method 8260B, semi-volatile organic compounds (SVOCs) using EPA Method 8270, CAM 17 metals, and ignitability. If light hydrocarbon odors were noted during the site sampling, selected samples were analyzed for benzene, toluene, ethylbenzene, xylene, and methyl-tert butyl ether (BTEX, MTBE) using EPA Method 8260B and or TPH gasoline (TPHg) using EPA Method 8015M.

Clean-up goals. Prior to soil sampling, clean-up goals were described in the Administrative Order and in the Action Memorandum as follows:

- PCBs -- 1 milligram per kilogram (mg/kg), based on the "high occupancy areas cleanup level defined in 40 CFR 761.260,Subpart N, and required in the Order;
- Lead -- 750 mg/kg, based on EPA Region 9 Preliminary Remediation Goals (PRGs) for industrial soil;
- Chromium -- 450 mg/kg, based on PRGs for industrial soil;
- Total Petroleum Hydrocarbons diesel range (TPH-d) -- 1,000 mg/kg based on the guidelines identified in the Los Angeles Regional Water Quality Control Board *Interim Site Assessment and Cleanup Guidebook*; and
- TPH oil (TPH-o) -- 10,000 mg/kg, based on the Board *Interim Site Assessment and Cleanup Guidebook.*

[Note: Based upon the depth to groundwater in excess of 150 feet, the *Interim Site Assessment and Cleanup Guidebook* cleanup goals for the Site should be 10,000 mg/kg of TPH d, and 50,000 mg/kg of TPH-o.] A copy of Table 4.1 from the guidebook is attached in Appendix A for reference.

3.2 FIELD PROGRAM

M&A completed the soil sampling program as described in the SSP. Two rounds of sampling were completed as follows:

Initial Round of Sampling. The first round of sampling began January 5, 2004 and was completed January 12, 2004. Numerous discrete samples were collected in a grid pattern based upon the SSP. A few additional sampling locations were added based upon field conditions. The samples were tested discretely or as composited samples, depending on their locations, source areas and/or locations. The compositing was performed by the laboratory prior to testing. Table 1 lists the composite and discrete samples and the rationale for the sample selection. The testing completed in the initial round of sampling is outlined below:

- Fifty-four composite soil samples (Comp1 through Comp 41, Comp 43, Comp 46, and Comp 48 through Comp 58) were analyzed for PCBs, lead, chromium, TPH-o and TPH-d. Composite samples Comp-42, 44, 45 and 47 were held in the lab and not analyzed. The analytical results are discussed below in Section 3.3.1 and are listed in Table 4 organized by geographic area .
- Thirty-two discrete soil samples were analyzed for PCBs, lead, chromium, and TPH-o and TPH-d. The analytical results are discussed below in Section 3.3.1 and are summarized in Table 4.
- Two composite concrete samples (Con-Comp-1 and Con-Comp-2) were analyzed for PCBs, lead, chromium, and TPH-o and TPH-d. Con-Comp-1 represented the composite sample from the concrete approach and Con-Comp-2 represented the composite sample from the concrete truck loading area. The analytical results are summarized in Table 4.
- One discrete soil sample (B47-14'), representing the visibly discolored and odorous material from the northern end of the tank farm, was submitted for waste profiling of the non-TSCA waste. The results of the profile sample are discussed below in Section 3.3.2 and are summarized in Table 7.
- Four discrete soil samples were analyzed for BTEX, MTBE, and TPH-g because the odor associated with these samples was indicative of light hydrocarbons. The samples were located in the northern end of the drum storage area at locations B-84 (at depths of 10, 15, and 20 feet) and in location B-66 (at a depth of 15 feet). The results of the light hydrocarbon analyses are discussed below in Section 3.3.4 and are summarized in Table 5.

After completion of the initial round of sampling, the analytical results were compared to the clean up goals. The lateral extent of PCBs, TPH-o, or TPH-d which exceeded cleanup goals had not been defined in all directions or depth. Therefore additional sampling in lateral directions ("step-out locations") were required along with additional composite and discrete testing for vertical definition. Table 2 lists the additional composite and discrete sample locations and rationale for their selection.

Step out Locations. The step-out locations were sampled on January 29 and 30, 2004. The samples that were tested are summarized in Table 6 and included:

- Twenty seven composite soil samples were analyzed and four discrete soil samples were analyzed for PCBs, TPHd and/or TPHo. The analytical results are discussed below in Section 3.3.1 and are summarized in Table 4.
- Four discrete soil samples were tested. Samples B-100 2'. and B-101 2' were tested for PCBs and hydrocarbons, while Samples B-125, 15ft and B-125, 20 ft were tested for hydrocarbons only.

Five of the samples from the northern end of the tank farm, Composite 62, Composite 63, and Composite 64, and B-125-15′ and B-125′20 were analyzed for TPH gasoline because they contained a light hydrocarbon odor. The results of the light hydrocarbon analyses are discussed below in Section 3.3.4 and are summarized in Table 6.

- Three soil samples were submitted for waste profiling: one representing the southern end of the tank farm, one representing the northern end of the tank farm, and one representing the upper 1 foot of soil across the site. The profile samples were collected at the request of CWI to aid in the planning the excavation and disposal options for the waste material. The results of the profile samples are discussed below in Section 3.3.2 and are summarized in Table 7

The 3-inch soil samples were collected with either a disposable scoop or by driving a brass or acetate liner into the soil (after clearing away the top few inches of soil with the scoop or other clean utensil) at or to a depth of 3-inches. The deeper samples were collected with either a push-drive rig (i.e., Stratoprobe, Geoprobe) or manually using a hand auger and drive sampler. Sample number identification corresponds to the boring location followed by the sample depth (i.e., Sample No. B1-5 is from boring B1 at 5-feet bgs).

M&A retained HP Laboratories, of Laguna Beach, to provide a Strataprobe rig and a limited access rig to collect the soil samples. Associated Laboratories, a state certified laboratory, was utilized to analyze the soil samples. M&A personnel were on-site to document the soil sample collection and manage the soil samples. M&A also collected soil samples with a hand auger in the southern end of the site where the terrain prohibited use of either the Strataprobe rig or a limited access rig.

Once the targeted depth had been reached, soil samples were collected in either 6-inch long brass sample sleeves driven into the soil column or within acetate liners. The sample sleeve was covered on both ends with Teflon sheets and plastic caps, labeled, and placed in a cooled ice chest to await same-day transfer to the laboratory. Selected samples were screened in the field for VOCs using a portable organic vapor analyzer (OVA). Soil samples also were visually examined for logging purposes. Logs were prepared for each of the borings to document soil lithology, sampling depth, OVA results, and other relevant data. Table 3 summarizes the depths of each sampling location, and field observations of sampled material.

3.3 SUMMARY AND DISCUSSION OF SOIL ANALYTICAL TESTING

During the field program (both the initial and the second round of sampling) the following samples were analyzed.

- One hundred sixteen soil samples were analyzed for PCBs
- Eighty six soil samples were analyzed for lead
- Eighty six soil samples were analyzed for chromium
- One hundred eleven soil samples were analyzed for TPH-d
- One hundred eleven soil samples were analyzed for TPH-o
- Five soil samples were submitted for profiling.
- Four soil samples were analyzed for BTEX, MTBE
- Nine soil samples were analyzed for TPHg.
- Two concrete samples were analyzed for PCBs, lead, chromium, and TPH-d,o.

3.3.1 Summary of Soil Sample Results

The analytical laboratory results of testing for PCBs, lead, chromium, and TPH are included in Appendix B, discussed below and are summarized on Tables 4, 5, and 6. The observations of the field investigation are summarized in Table 3, Summary of Borehole Observations. Based upon a comparison of the laboratory results with the established cleanup goals and borehole observations, Table 7 was prepared to present the anticipated depth of excavation at the site.

PCBs: PCB concentrations ranged from non detect to 310 mg/kg.

3-inch soil samples. PCBs were detected in all the 3-inch soil samples in the tank farm at concentrations exceeding the cleanup up goal of 1 mg/kg. Two composite samples in the former drum storage area along the western fence (Composites 28 and 31) exceeded 50 mg/kg, as shown in Figure 3.

The lateral limits of the two PCB areas located in the former drum storage area are defined by property lines, the concrete, or testing as shown on Figure 3.

The lateral extent of PCBs has been defined in all directions surrounding the tank farm as follows:

- East (in the backyard of the single family residences), represented by grids B91 through B100. The 10-foot sampling grid overlying the tank farm was extended to the other side of the chain link fence which separates the tank farm from the backyard of the residences. None of the soil samples collected at these locations exceeded the PCB cleanup goal.
- South (adjacent to the southern fence line), represented by grids B101 through B105. The grids were extended up to the southern property boundary and none of the 3-inch soil samples collected along this boundary exceeded the PCB cleanup goal
- West, represented by B4, B5, and B6, drilled through the concrete pad.
- North, represented by B1. In addition, three boreholes were hand augered to a depth of 2 feet between the north end of the tank farm and the concrete pad of the former storage trailer. The soil was brown in all locations and did not contain visible indications of contamination.

6-inch and 1-foot soil samples. Two locations along the western fence, represented by grids B57 through B65 and grids B66 through B73 (represented by Composites 28 and 31, respectively) along the western fence exceeded 50 mg/kg of PCB at the 3 inch depth. However, these, same squares contained less than 1 ppm at 2 feet (Composites 29 and 32). These areas were further sampled to evaluate the depth required for excavation. Each of the nine squares represented by Composite 28, and the six squares represented by Composite 31, were also sampled at depths of 6 inches and 1-foot. Composite 79-6-inches and 79-1-foot, representing samples below Composite 28, contained PCB concentrations of 18 and 2.6 mg/kg, respectively. Therefore, only the upper 6 inches of soil at this location will require disposal at a TSCA landfill. Composites 82 and 83, representing the 6-inch and 1-foot sample below Composite 31, contained PCB concentrations of 110 and 250, respectively. Therefore, the upper 2 feet of soil at this location will require disposal at a TSCA landfill (see Figure 7A).

2-foot soil samples. PCB concentrations exceeding 1 mg/kg were present in several areas of the tank farm (i.e., Composite 2, Composite 5, Composite 8, Composite 14, and B44-2), as shown in Figure 4. One location (Composite 11) contains PCB concentrations in excess of 50 (80) mg/kg requiring disposal as TSCA waste.

5-foot soil samples. No PCBs exceeded 50 mg/kg at a depth of 5 feet. The area containing a PCB concentration greater than 1 mg/kg is limited to the northern and southern end of the tank farm (i.e., Composite 3, Composite 12, Composite 15, and Composite 18), as shown in Figure 5.

In order to determine the depth of excavation deeper samples were analyzed. In the northern end of the tank farm, two soil samples were analyzed from a depth of 13.5 feet (Composite 48 and Composite 55). Composite 48 contained a PCB concentration of 0.76 mg/kg, and Composite 55 contained a PCB concentration of 2.44 mg/kg. The soil samples representing the 13.5-foot depth were also discolored grey and were odorous. No visible discoloration was observed at a depth of 19 feet. Therefore, the depth of PCBs in the northern end of the tank farm is estimated to be between 11 and 19 feet. In the southern end of the tank farm, two soil samples were analyzed from a depth of 15 feet (Composite 78, representing grids B26 and B38 and Composite 85 representing grids B102 and B103). Composite 78 contained a PCB concentration of 21 mg/kg and Composite 85 contained a PCB concentration of 1.3 mg/kg. Soil sampling at depth in the southern end of the tank was difficult due to the terrain, and the soil samples must be obtained by hand auger or limited access rig. Therefore, the depth of sample collection was limited to about 15 feet. The soil samples collected from a depth of 15 feet in the southern end were also discolored grey and were odorous. The anticipated depth of excavation due to the presence of PCB is shown on Figure 5.

Lead: Lead concentrations ranged from 0.471 mg/kg to 531 mg/kg. None of the lead concentrations exceeded the Federal PRG or the California total threshold limit concentration (TTLC). If the total lead concentration was 50 mg/kg or greater, a Waste Extraction Test was completed to determine if the lead would exceed the California soluble threshold limit concentration (STLC) for lead. If the lead concentration was 100 mg/kg or greater, a Toxicity Characteristic Leaching Procedure (TCLP) was completed for determination of Federal status. Both the STLC and TCLP concentrations are used for disposal purposes only. If the STLC in the soil sample is greater than 5 mg/L, and/or the TCLP in the soil sample is greater than 5 mg/L, the soil sample would be classified as a California/Federal hazardous waste. The STLC and the TCLP data are summarized as follows:

- Sixteen soil samples were analyzed for STLC, fourteen samples representing the 3-inch depth and two samples representing the 5-foot depth. Seven of the STLC samples exceeded 5 mg/L (Comp 16, Comp 28, Comp 31, Comp 34, Comp 37, and B2-3" and B-84-3"), and all seven represented the 3-inch depth. The two 5-foot soil samples did not exceed the STLC. Four of the six soil samples (Comp 16, Comp 28, Comp 31, and B2-3") represent areas that need to be excavated due to either PCB or TPH concentrations which exceeded the cleanup criteria. Two soil samples, Comp 34 (representing grids B69, B70, B74, B75, B76) and Comp 37 (representing grids B77 through B80) did not contain concentrations of either PCBs or TPH which exceeded the clean-up criteria. Comp 34 and Comp 37 are located along the western fence line.

- Ten soil samples were analyzed for TCLP, and none exceeded 5 mg/L.

Chromium: Chromium concentration ranged from 8.78 mg/kg to 105 mg/kg. None of the chromium concentrations exceeded the PRG or the TTLC for chromium. Two soil samples (Comp 18 and Comp 31) were analyzed for STLC. Neither sample contained a chromium concentration which exceeded the STLC criteria of 5 mg/L. Chromium concentrations did not exceed the PRG, TTLC, STLC, or TCLP cleanup criteria. Based on this data, chromium does not appear to be concern at this Site.

TPH: TPH diesel (TPH-d) concentrations ranged from non-detect to 14,900 mg/kg. TPH -o concentrations ranged from non-detect to 10,900 mg/kg. The TPH-d and TPH-o generally corresponds to PCB concentrations above 1 mg/kg. The major exception to this was location B-84, which contained the highest concentration of TPH-d (14,900 mg/kg) and only 0.20 mg/kg of PCBs. Elevated concentrations of TPH were typically identified in the field as a grey discolored soil material. Areas of TPH concentrations that exceeded the clean up goals are shown in Figure 6.

3.3.2 Results of Waste Profiling

TSCA Waste: Soil which exceeds 50 ppm PCB was identified in three different areas at the site and requires disposal in a TSCA landfill. These areas include two surficial areas along the western boundary and one in the southern area of the tank farm. These areas are shown on Figure 7A and represented by:

- squares, B-66, 67, 68, 71, 72 and 73, with a depth of 2 feet,
- squares B-57 to 65 with a depth of 6 inches,
- squares B24, 25, 34 and 35: to a depth of 5 feet.

Non TSCA Waste: Testing for PCB, lead, chromium and TPH as described above determined the extent of the required excavation for those constituents and their relative regulatory requirements. Additional testing of the material was required to determine if the non-TSCA waste would be regulated as Federal RCRA waste. Accordingly, further testing of the waste stream was conducted. Five soil samples were submitted for profiling that were generally representative of the three worst areas at the Site. Two soil samples (B-47-14′ and B-47 bulk) represent visibly discolored, odorous, material from the northern end of the tank farm. Two samples (B-36-12.5 and B26-12.5) represent visibly discolored, odorous, material from the southern end of the tank farm. One sample (Surface 1) represents a composite of the upper 1-foot of soil from across the tank farm and drum storage area. The samples were tested for heavy metals, fuel and oil hydrocarbons, volatile organic compounds (VOC) and semi volatile organic compounds (SVOC) along with ignitability/flash point determination. The results of this profiling are summarized in Table 7 and below:

- The VOCs detected and their maximum concentrations are: 1,3-dichlorobenzene (1.56 mg/kg), 1,4-dichlorobenzene (13.8 mg/kg), 1,2,4-trimethylbenzene (16.9 mg/kg), 1,3,5-trimethylbenzene (4.68 mg/kg), benzene (4.4 mg/kg), ethyl benzene (21mg/kg), MTBE (1.5 mg/kg), n-propylbenzene (8.3 mg/kg), naphthalene (18 mg/kg), and xylenes (8.86 mg/kg).

- The SVOCs detected and their maximum concentrations are: 1.4-dichlorobenzene (10.6 mg/kg), 2-methylnapthalene (53.6 mg/kg), bis(2-ethylhexyl)phthalate (18.6 mg/kg), naphthalene (30.7 mg/kg), phenanthrene (11.3 mg/kg), and pyrene (5.28 mg/kg).

- None of the metals exceeded PRGs for industrial soil.

- PCBs (PCB-1242 and PCB-1260) were detected at a maximum concentration of 3.3 mg/kg and 21 mg/kg respectively.

- TPH-diesel was detected at a concentration of 7,000 mg/kg, and TPH oil was not detected, TPH gasoline was detected at a concentration of 300 mg/kg.

The analytical results were compared to the waste codes (D, F, K, P and U) identified in 40 CFR Part 261 to determine if sample (B47-14) would be classified as a RCRA waste. None of the 40 compounds identified in the D code (40 CFR Part 261.24) were exceeded. Based on the generation process, the waste materials at the site do not meet the definition of the waste codes for F waste (40 CFR Part 261.31), K waste (40 CFR Part 261.32), P and U waste (40 CFR 261.33). Therefore, the waste material in the tank farm would be classified as non-RCRA, California regulated waste.

3.3.3 Results of Light Hydrocarbon Analyses

During the first round of sampling, four samples were analyzed for BTEX, MTBE, and TPHg (B-84-10′, B-84-15′, B-84-22′ feet and B-66-15′). As the 5-foot samples were being collected at these two locations (B84 and B66) north of the drum storage area, visible contamination was observed. Soil sampling continued and at a depth of 10 feet the odor was indicative of a light hydrocarbon. Therefore, the 10-, 15, and 22-foot soil samples were analyzed for the lighter hydrocarbons. Based on the analytical results, no BTEX or MTBE were detected in any of the four samples, and TPHg was only detected in sample B-84-15′ at a concentration of 11 mg/kg. These concentrations do not require excavation and removal.

During the second round of sampling, a light hydrocarbon was noted during the soil sample collection in grids B88, B89, and B890. Therefore, Composites 62, 63, and 64 were analyzed for TPHg; no TPHg was detected in these samples. Discrete samples B125-15′ and B125-20′ were also analyzed for TPHg which was detected at 330 mg/kg and 1,900 mg/kg, respectively. Concentrations of TPH-d were also exceeded in those samples; therefore the soil will be removed.

3.3.4 Drum and Roll-Off Bin Disposal

As of January 21, 2004, there were nine drums and seven roll-off bins on Site containing waste material. A composite sample was analyzed representing the drums, and a sample from each of the roll-off bins was analyzed. The analytical results of the drums and containers are summarized in Tables 8 and 9. Based on the analytical results, the drums were classified as RCRA waste based upon the TCLP for lead; and five roll-off bins (RO-8, RO-9, RO-10, RO-11, and RO-13) are classified as non-RCRA, California designated waste. Bin RO-12 is classified as a TSCA waste due to the PCB concentration of 66 mg/kg. Bin RO-14 was left at the site pending future disposal. The drums and bins RO-2, RO-9, RO-10, RO-11, RO-12, and RO-13 were removed from the Site until the excavation process and will sent off as TSCA waste with the soil exceeding 50 ppm.

3.3.5 Quality Assurance/Quality Control

The quality assurance/quality control (QA/QC) was based on the batch QA/QC data provided by the laboratory, which is appropriate for a removal action. Table 10 summarizes the data associated with the QA/QC.

3.3.5.1 Quality Assurance/Quality Control (QA/QC)

The field investigation was conducted in accordance with a Quality Assurance Project Plan (QAPP) that is provided in Appendix A of the SSP. QA/QC procedures were implemented during the collection and analysis of the field data to ensure that the data would be valid and acceptable. QA/QC procedures include the following:

- Adherence to prescribed sample collection, preservation, and holding time requirements for individual test methods

- Adherence to proper decontamination procedures. The sampler was decontaminated between uses by scrubbing it in an Alconox cleaning solution, followed by clean water and deionized water rinses.
- Collection and analysis of equipment blanks and duplicate samples.
- Laboratory analysis of duplicate samples, matrix spikes, duplicate matrix spikes, surrogate recoveries, and method blanks.

3.3.5.2 Data Validation Summary

A review of the sampling and analytical data determined that all samples were analyzed as requested and that all holding times were met. The following comments are specific to the data quality evaluation:

- Duplicate samples were prepared and analyzed during the field investigation (an approximate rate of 10%). In general, the duplicate samples showed good correlation with the primary sample results (see Table 10) Three duplicate samples Composite 16, Composite 27, and Composite 57 exceeded the QAPP relative percent difference (RPD) goal of 100% (for PCB-1248, PCB-1260, and TPH-Oil, respectively), as calculated using the following formula:

  $$RPD = \{(X_1 - X_2) / [(X_1 + X_2) / 2]\} \times 100$$

  where X_1 and X_2 are measurements of the same parameter in primary/duplicate sample analyses.

  Due to the low concentrations observed in the samples and natural soil heterogeneity, the differences between the field duplicate and primary samples are not unexpected. Large RPDs between duplicates and primary samples do not, by themselves, indicate problems with respect to the quality of the corresponding data. Therefore, the duplicate samples are considered acceptable for use.

- One equipment blank was prepared after the 15-foot sample from boring B-84 had been collected. The equipment blank was prepared by pouring distilled water over and though the decontaminated sample barrel and capturing the water in a sample container. The captured water was analyzed for the same constituents as the soil samples (i.e., TPH-d, TPH-o, lead, chromium, and PCBs). None of these compounds were detected in the equipment blank.
- Two field blanks, FB-1 and TB-1, were prepared in the field using silica sand obtained from the laboratory. The field blanks were analyzed for the same constituents as the soil samples (i.e. TPH-d, TPH-o, lead, chromium, and PCBs). Chromium was detected 2.54 mg/kg and 3.38 mg/kg and lead was detected at 0.399 mg/kg and 0.744 mg/kg in FB-1 and TB-1 respectively. The presence of metals in the field blanks does not indicate problems with field procedures. In discussions with the laboratory, it was determined that the sand used was guaranteed to be solvent and organic free, however trace amounts of inorganic materials (e.g. metals) may be present. Due to the low concentrations observed in these field blanks, the field blanks are considered acceptable for use.
- Method blanks were run for each test method and each sample batch by the laboratory when analyzing the soil matrix samples. A review of the laboratory reports indicates that no compounds were detected in any of the method blanks. The recovery of the surrogate (Decachloro biphenyl (DCB)) from the method blank was outside the quality control limit (recovery 46%, QC limit 60%-130%) due to matrix interferences. All other surrogate recoveries in the QC batch were within limits, as were spike recoveries from the LCS and LCSD samples. The extraction and analysis methodologies are considered valid.
- Matrix spike and matrix spike duplicate samples were run for each test method and each sample batch when analyzing the soil matrix samples. A review of the laboratory reports indicates that the calibration verification was within acceptable limits.

- Surrogates were run for each of the soil matrix samples. A review of the laboratory reports indicates that the recovery rates for these samples were within the ranges established by the laboratory for QA/QC purposes, except for the following:

SURROGATE RECOVERY SUMMARY				
Sample ID	**Surrogate**	**QC Limits (%)**	**Recovered (%)**	**Comment**
Composite 31	Decachloro biphenyl	50-135	123	Matrix interference
B-47-14′	Phenol-d5	24-113	113	Matrix interference
B-84-15′	a,a,a-Trifluorotoluene	70-130	130	Matrix interference
Composite 82	Decachloro biphenyl	50-135	0	Matrix interference
Composite 83	Decachloro biphenyl	50-135	174	Matrix interference

Matrix interference effects are common in soil samples and can mask the presence of target compounds by inhibiting their extraction or because of the need for sample dilution. The out-of-bounds surrogate recoveries in both cases were high, suggesting that target organic compounds, if present in the samples, more likely than not would be extracted and detected. Consequently, the data associated with the above-listed samples is considered acceptable for use.

Based on the review of field and laboratory QA/QC procedures and results, all of the collected data met the data quality objectives of the QAPP and can be used to complete the Site characterization.

4.0 APPLICABLE REGULATIONS

This section discusses the most relevant regulations applicable to this RAW. These provisions are considered "applicable or relevant and appropriate requirements" (ARAR) as provided at 40 CFR 300.415(j).

4.1 FEDERAL ARARS

Federal ARARs, which were identified in the Action Memorandum, are:

- PCB Rule, 40 CFR Part 761 Subpart N -- Cleanup Site Characterization and Subpart O -- Sampling to Verify Completion of Self-Implementing Cleanup
- RCRA Land Disposal Restrictions 40 CFR Part 268.40 Subpart D
- CRCLA Off-Site Disposal Rules OSWER Directive 9347.3-8FS
- US Department of Transportation of Hazardous Materials Regulations 49 DFR Part 171, 172, and 173.

4.2 STATE ARARS

State ARARS, which were identified in the Action Memorandum, are:

- Characteristics of Hazardous Waste, California Health and Safety Code, Title 22, Part 66261. 20, Part 66261.21 Part 66261.22, Part 66261.23, and Part 66261.24
- Interim Site Assessment & Cleanup Guidebook, May 1996, California Regional Water Quality Control Board, Los Angeles and Ventura Counties

Table 4.1 from the 1996 guideline document is attached in Appendix A for reference regarding cleanup standards for hydrocarbons.

4.3 LOCAL APPLICABLE REGULATIONS

The South Coast Air Quality Management District (SCAQMD) Rule 1166 requires monitoring of VOC-contaminated soil during an excavation. In accordance with the regulations, specific actions are required if the total VOCs readings, as collected by an organic vapor analyzed (OVA) or photo ionization detector (PID), exceed 50 and 1,000 ppm.

4.4 HEALTH AND SAFETY PLAN (HASP)

All contractors will be responsible for operating in accordance with the most current Occupational Safety and Health Administration (OSHA) regulations, including 29 CFR 1910.120, "Hazardous Waste Operations and Emergency Response," and 29 CFR 1926, "Construction Industry Standards," as well as other applicable Federal, State and local laws and regulations. A site-specific HASP is included as Appendix B. The project Health and Safety Officer (HSO) will be responsible for maintaining compliance on-site with the HASP.

4.5 OTHER POTENTIAL REQUIREMENTS

Any necessary permits and approvals required to implement this RAW will be obtained prior to initiating. City permits will be obtained for utility abandonment or removal, if necessary.

5.0 EXCAVATION PLAN

Removal, transportation, and disposal activities will be performed in accordance with applicable Federal, State, and local laws, regulations, and ordinances. The active construction portion of the proposed removal action is estimated to require approximately 8 to 10 working days. This period of time will include excavation, direct loading, transport, and disposal of the impacted soil.

5.1 SITE PREPARATION AND SECURITY MEASURES

Prior to equipment mobilization, Site preparation activities may include visual inspections, further demarcation of specific areas to be removed, improvement of access roads, utility disconnections, or fencing installation. There is an existing natural gas line that may be active, and protrudes above grade immediately north of the tank farm. This structure will be evaluated and removed prior to excavation. Another above grade structure (possibly a pump housing) is located immediately north of the former drum storage area. This structure will also be removed.

5.1.1 Delineation of Excavation Areas

The areas to be excavated have been divided into grids, as discussed in Section 3. Each grid has been surveyed and each grid square will be visibly marked as the excavation proceeds to ensure complete excavation. The field personnel will control and ensure the locations of the grids by utilizing a combination of stakes, string, paint and surveyed monuments.

5.1.2 Utility Clearance

No invasive activities will begin without notification of local Underground Services Alert (USA) and identification of utilities in and around the excavation areas at least 48 hours prior to beginning excavation.

5.1.3 Security Measures

Appropriate barriers will be installed as needed during the excavation process to limit access to the work areas and to create a work area that is secure and safe. To prevent trespassers or unauthorized personnel from entering the work areas, security measures may include, but are not limited to:

- Posting notices directing visitors to the Site Manager.
- Installing barrier fencing, to restrict access to the work area and sensitive areas such as exclusion zones.
- Maintaining a safe and secure work area, including areas where equipment is stored or stationed, at the close of each work day.

5.1.4 Dust/Contaminant Control

In order to prevent potential fugitive dust exposures, a water hose will be available at the site during excavation for spraying the soil. The soil will be kept moist. At the end of the day, any dry contaminated soil will be sprayed and/or covered.

5.1.5 Permits

All necessary permits or approvals will be obtained prior to implementation of the RAW. M&A has contacted the City of Signal Hill regarding permitting requirements. According to Mr. Donn Showers at Building and Safety, a copy of the excavation workplan will be submitted to the City with evidence that the EPA is overseeing the soil

cleanup. A grading permit will be issued in order to document the excavation activities and compaction of soil backfill if performed. Dust control measures implemented during excavation activities will be in compliance with Rule 1166.

5.2 EXCAVATION

The proposed removal action includes the excavation of approximately 1,750 to 2,000 cubic yards of impacted soil at the Site. The maximum anticipated excavation depth will be 20 feet bgs. Fieldwork will be completed by properly trained and equipped hazardous waste workers. The excavation will be conducted using an excavator and/or front end loader or functionally similar equipment with the capability of excavating soil and loading the soil directly into the staged waste transport trucks. The soil will be excavated, to the extent possible, in a manner that reduces the potential to generate dust.

Prior to excavation, existing above ground structure will be carefully removed and loaded into awaiting trucks or stockpiled on site. The existing concrete pads associated with the truck loading area and concrete approach will remain until most of the site has been excavated. The concrete pads will be utilized during excavation as a staging and loading area, and will provide a controlled decontamination area.

The soil within each grid will be excavated down to the predetermined depth as indicated by the results of the SSP, as shown in Figure 7. The soil volume associated with each grid is summarized in Table 11. Based on the results of the SSP, the waste materials from the Site will be classified as three types of wastes:

- Approximately 170 cubic yards of soil will be excavated and disposed of as TSCA waste.
- Approximately 1,800 cubic yards of soil will be excavated and disposed of as non-RCRA, California designated waste.
- The concrete pads will be disposed of as non-hazardous waste if removed from the Site.

5.2.1 Health and Safety Plan

Excavation will be conducted in accordance with the M&A Health and Safety Plan (HASP; Appendix C), which will be on-site at all times. The project Health and Safety Officer (HSO) stationed on-site during removal activities is responsible for maintaining compliance with the HASP.

5.2.2 Soil Staging and Storage Operations

The three areas containing PCB concentrations in excess of 50 mg/kg, along with the area exceeding the STLC criteria, will be excavated together for simplicity of hauling and manifesting. The remaining soil is not considered TSCA or RCRA waste, but is classified as non-RCRA, California designated waste. Many areas have been tested to be free from contamination. This clean material may need to be removed to allow access to the deeper contaminated soil below. Clean soil that needs to be removed will be removed and stockpiled in a designated clean area.

It is assumed that the shallowest soils will be excavated and temporarily stockpiled prior to loading. If stockpile staging areas are necessary, excavated soil will be placed on an impermeable barrier and covered with plastic to prevent any run-on and/or dust generation and bermed to contain any run-off. Each excavation area will be secured and water spray will be used to control any fugitive dust from blowing onto other properties. The soil staging process will be monitored to ensure dust is not created. During non-work hours, temporary contaminated soil stockpiles will be covered with plastic sheeting.

5.2.3 Decontamination Procedures

Entry to the contaminated areas will be limited to avoid unnecessary exposure and related transfer of contaminants. In unavoidable circumstances, equipment or trucks will be decontaminated in a designated decontamination area before leaving the Site.

The existing concrete truck loading area will be used as the decontamination area as long as possible. After most of the tank farm has been excavated, portions of the concrete truck loading area will have to be removed to allow access to the underlying contaminated soil. The decontamination area will be moved to a new location and will be constructed with plastic sheeting and bermed to control the decontamination water, as needed.

The waste transportation trucks will be decontaminated prior to leaving the Site by pressure washing the tires in the decontamination area. A vacuum truck will be on-site to remove the water contained in the decontamination area. Excavation equipment will be inspected for contamination before it leaves the exclusion area.

5.2.4 Dust Suppression

A water spray vapor suppressant will be used at the excavation and loading area to minimize dust generation.

5.3 AIR MONITORING

During the implementation of the SSP, several areas in the tank farm have the potential to contain high total VOC concentrations (greater than 1,000 parts per million). The air will be monitored for personnel safety purposes as well as for AQMD requirements. The personnel monitoring requirements is identified in the attached health and safety plan (HASP). The HASP indicates that 5 ppm VOC above background will be cause for concern, including renewed safety consideration, additional monitoring, and re-evaluation of the site conditions and possible upgrade to the next protective level of personal protection equipment..

South Coast Air Quality Management District Rule 1166 requires monitoring of VOC-contaminated soil. In accordance with the regulations, the following actions would be implemented if organic vapor analyzer readings exceed 50 or 1,000 ppm as defined by Rule 1166.

- If the OVA measurement is greater than 50 ppm but less than 1000 ppm, the affected work area and loading of soil shall be sprayed with water and/or approved vapor suppressant.
- If the OVA measurement is equal or greater than 1,000 ppm, stop excavation to notify the District immediately or within one hour of detection and,
    1) The effected soil and work area shall be immediately sprayed with water and/or a vapor suppressant, and either:
    2) The contaminated soil excavated shall be immediately placed in an AQMD approved sealed container or,
    3) Directly loaded on trucks, sprayed with additional water, covered and transported off site.

During removal operations, excavations will be monitored with a Foxboro 128A organic vapor analyzer (OVA) , or photoionization detector (PID) or equivalent to monitor air quality for both AQMD Rule 1166 requirements and Health and Safety Requirements. AQMD Rule 1166 requires that the VOCs be monitored no more than 3-inches above the soil. If the total volatiles exceed 50 ppm (calibrated to hexane) and/or 1000 ppm, appropriate mitigation measures pursuant to SCAQMD Rule 1166 will be implemented. Monitoring of the breathing zone will also be performed in accordance with the requirements described in the HASP which is attached in Appendix C.

5.4 CONTINGENCY SAMPLING

It is anticipated that all of the excavated soil will be loaded into trucks and immediately transported to the disposal or recycling facility. However, in the event that additional characterization is necessary for waste disposal purposes, soil may be temporarily stored on-site in bins or stockpiles to await further analysis and hazard classification. Soil stockpiles, if generated, will not exceed 100 cubic yards in volume. If it is necessary to characterize stockpiled soil for waste disposal purposes, four random soil samples will be collected from the stockpile and combined into a single composite sample for analysis.

5.5 TRANSPORTATION PLAN FOR OFF-SITE DISPOSAL

Based on analytical data collected during implementation of the SSP, the excavated soil will be pre-approved for disposal as non-RCRA California designated waste and as TSCA waste in accordance with State and Federal regulations. All excavated soil will be transported to Chem-Waste Management in Kettleman Hills, California. All disposal and transportation will be performed in accordance with applicable Federal, State, and local laws, regulations, and ordinances.

Disposal transportation contractors will provide a transportation route map prior to off-site shipment of contaminated soil if required by the city. Approximately six to ten trucks per day will be loaded on-site and sent to the landfill.

5.6 SITE RESTORATION

After the waste material has been excavated and the confirmation sampling has been completed, the site will be redeveloped as commercial/industrial property. The actual design or timing has not been identified. Therefore, because of the uncertain redevelopment plans, the Site will only berough-graded and/or fenced off pending the final selection of building designs and use of the property. Stock piled clean soil will be placed back into the excavation. The excavation bottom will be scarified, moisture conditioned and backfilled as needed for safety. No slopes exceeding 3:1 (horizontal to vertical) will be allowed to remain. Side slopes will be trimmed and the bottom filled as needed to achieve such a safe condition.

5.7 VARIANCE

As conditions in the field may vary, it may become necessary to implement minor modifications to soil removal activities as presented in this SRP. Field personnel will notify the project manager when deviations from this SRP are necessary.

5.8 FIELD DOCUMENTATION

Field logbooks will document where, when, how, and from whom any vital project information was obtained. Logbook entries will be complete and accurate enough to permit reconstruction of field activities. Logbooks will be bound with consecutively numbered pages. Each page will be dated and the time of entry noted in military time. All entries will be legible, written in blue or black ink, and signed by the individual making the entries. Language will be factual, objective, and free from personal opinions or other terminology that is inappropriate. If an error is made, corrections will be made by crossing a line through the error and entering the correct information. Corrections will be dated and initialed. No entries will be obliterated or rendered unreadable. When appropriate, field log data sheets will be used in lieu of the field logbook to record routine data or observations.

Entries in the field logbook will include, at a minimum, the following for each fieldwork date:

- Site name and address

- Recorder's name
- Team members and their responsibilities
- Times of Site arrival and departure
- Other personnel on-site
- A summary of any on-site meetings
- Changes in personnel and responsibilities as well as reasons for the changes
- Levels of safety protection
- Calibration readings for any equipment used and equipment model and serial number.

Photographs will be taken of the excavation process and other on-site areas of interest. They will serve to verify information entered in the field logbook.

6.0 PCB RULE, SUBPART O, VERIFICATION SAMPLING PLAN

To verify completion of cleanup, confirmation samples will be collected from the excavation bottom. The samples will be composited as described below. Depending on the excavation location and the contaminants identified previously, the composited samples then will be analyzed for PCBs, TPH-diesel, or lead.

6.1 PROPOSED VERIFICATION SAMPLE COLLECTION

Soil confirmation sample collection and compositing for PCBs will be done in accordance with 40 CFR 761, Subpart O, and will be applied over the former tank farm and the former drum storage area where PCBs were detected above 1 mg/kg. Subpart O requires a 5-foot sampling grid, as described below in Section 6.1.1. Confirmation sampling and compositing for TPH will be done in accordance with standard practices for excavation of TPH in Los Angeles County, which typically require confirmation samples every 20 feet.

The depth of excavation varies from 6 inches to 20 feet across the site. Therefore, the following general considerations will be made when collecting the confirmation samples:

1)Most of the gray, odorous material in the tank farm was associated with PCBs above 1 mg/kg or TPH diesel above 1,000 mg/kg. Therefore, much of the excavation will be focused on removing the gray, odorous material.

2)Many of the soil confirmation samples will be collected below a depth of 5 feet. Therefore, many of the soil confirmation samples will be collected with the use of a backhoe or excavator. Due to safety considerations (and OSHA requirements), field personnel will not enter an open hole to collect samples unless the hole is stepped or shored, or approved by a certified engineering geologist. It is not anticipated that steps or shoring will be required to meet the objectives of this project.

3)In locations B86, B87, B88, and B89, located on the northern edge of the tank farm, the 2-foot and the 5-foot soil samples did not exceed the cleanup criteria. However, the 15-foot sample contains PCBs which exceed the cleanup goal. Therefore, the clean overburden in these locations will be pulled back and stockpiled on-site to allow access to the deeper material which needs to be removed. The 15-foot sample was also discolored and odorous. The northern extent of contamination will be defined as the gray, obviously affected material is excavated. Confirmation samples will be collected at the bottom of the excavation as described below, when visible contamination is no longer present, or has visibly diminished.

4)Sidewall samples may be collected at the discretion of the field personnel. It is anticipated that sidewall samples may be collected where practical to help define lateral limits and verify cleanup goals have been met. If collected, multiple sidewall samples may be composited for PCB testing in accordance with the compositing rules described in 40 CFR 761 Subpart O.

5)In no case will the excavation extend beyond the property line.

6.1.1 PCB Verification Soil Sample Collection

The soil verification sampling for PCBs will be performed in accordance with 40 CFR 761, Subpart O.. Each bottom sample location will be centered within an approximate 5′ x 5′ square. The proposed sample locations are shown on Figure 8

The 5′ x 5′ locations will be created by dividing the 10′ x 10′ squares, used during the investigation, into four equal quadrants. The confirmation sample numbers will use the basic numbering system used during the site investigation, as follows:

- The 5′ x 5′ quadrants then will be designated as A, B, C, or D, as shown in Figure 8.
- Any sidewall samples will be designated as N, E, S, or W (north, east south, or west respectively), followed by the distance below ground surface (bgs).

For example: A bottom confirmation sample collected from location 17, quadrant "A" will be labeled B-17A. A sample collected 15-feet bgs along the north sidewall of location 17, quadrant "A" will be labeled B-17A-N(15).

During soil sampling, an organic vapor analyzer (OVA) or photoionization detector (PID) field instrument will be used to monitor the presence and level of VOC vapors in the samples and to monitor the worker's breathing zone for health and safety protection. Soil samples will be visually inspected by the field geologist to note stained or odorous soil and make field adjustments if warranted.

Laboratory duplicate soil samples will be collected at the rate of approximately 10%. Additionally, equipment blanks will be collected at the rate of one per day. Duplicate samples and equipment blanks will be analyzed for the same parameters as the primary sample

6.1.2 Lead Verification Sample Collection

Only one problematic area (soluble lead) was identified at the site that will not be over-excavated. This area is located along the western boundary. After removal of the approximate six inches of affected soil, the bottom of the excavation will be sampled. Soil samples will be collected from nine bottom locations (B-69, B70, B74, B75, B-76, B-77, B-78, B-79, and B-80). Each bottom sample location will be centered within an approximate 10′ x 10′ square, and two samples will be acquired from each square, approximately six inches below the previous sample collected. The soil samples from these squares will be composited into two composite samples (from the same depth) and analyzed for total lead. If the lead concentration exceeds 50 mg/kg, a waste extraction test will be completed to determine if the STLC for lead has been exceeded. The listed squares are shown on Figure 8.

6.1.3 TPH Verification Sample Collection

Soil affected with TPH is readily identifiable based upon odor and color. Once the identified hydrocarbon contaminated soil is removed, selected representative confirmation samples will be collected and tested for TPH-d by EPA Method 8015M. Bottom samples will be tested on approximate 20-foot centers where the excavation exceeds a depth of 15 feet or previous testing did not define the removal depth.

6.2 SAMPLE COLLECTION PROCEDURES

PCB confirmation samples will be collected from the bottoms of the multi-depth excavations at the locations shown on Figure 8. Prior to analyses, the samples will be composited according to Table 12.

Analytical results from confirmation samples that exceed cleanup criteria will result in further excavation, with subsequent additional confirmation sampling. Additional excavation would be undertaken in approximate 1.0-foot increments.

Soil confirmation samples will be collected from the surface of the excavation, using scoops, shovels, a hand auger, hand-driving a metal sample sleeve directly into the surface soil, or by retrieving a soil sample collected from the excavator bucket. The sample container will be secured, labeled, and placed in an ice chest to maintain a

target sample temperature of 4°C. At the conclusion of each workday, the samples will be transported under chain-of-custody control to State-certified laboratory for analyses.

Any equipment that comes into contact with potentially contaminated material will be decontaminated to assure the quality of the samples collected. Sampling devices used for the collection of soil samples will be decontaminated between uses by scrubbing them in an Alconox cleaning solution, using a brush when necessary, followed by clean water rinses.

The soil samples will be composited by the laboratory by weight. The soil compositing will be based on the following criteria:

- Soil samples from no more than two adjacent 10′ x 10′ squares (eight 5′ x 5′ squares) will be composited
- Bottom samples will be from the approximate same depth interval

Because conditions in the field can vary, it might be necessary to implement minor modifications to the sampling program. When appropriate, the USEPA will be notified of the modifications and a verbal approval will be obtained before implementing the modifications. Any modifications to the approved plan will be documented in the final report.

6.3 SAMPLE ANALYSES

The samples will be analyzed for one or more of the following:

- Polychlorinated biphenyls (PCBs) -- USEPA Method 8082
- Lead -- USEPA Method 6010B/7000
- Total Petroleum Hydrocarbons diesel -- USEPA Method 8015M.

The results of the analyses will be compared to the established cleanup criteria. In areas where the analytical results are below the cleanup criteria will require no further excavation. In areas where the analytical results are exceeded, excavation will continue in 1.0- to 2.0-feet increments followed by resampling and analysis, following the same guidelines described herein.

6.4 REPORT PREPARATION

Once the field program has been completed, the analytical results will be compiled to verify site cleanup goals have been achieved.

The contents of the report will include the following:

- Site description
- Background
- Environmental setting, Sampling activities and results
- Conclusions
- Supporting documentation, including analytical reports

7.0 PROJECT SCHEDULE

The fieldwork associated with this RAW is scheduled to begin March 2, 2004. The fieldwork is expected to take between 8 and 10 working days. Verification sampling will begin when specific areas have been excavated, and will be on-going until verification sampling is completed.

TABLES

TABLE 1

INITIAL SOIL SAMPLE SELECTION RATIONAL
Former Dico Oil, Signal Hill, CA
(Page 1 of 4)

Sample ID	Sample Depth	Discrete Sample IDs	Location/Rational
Comp-1	3-inches	B-7-3", B-8-3", B-9-3", B-17-3", B-18-3", B-19-3", B-27-3", B-28-3", B-29-3"	Within berm area (tank farm), at north end; fill expected; samples may be within fill material.
Comp-2	2.5-feet	B-17-2.5, B-18-2.5, B-19-2.5, B-27-2.5, B-28-2.5, B-29-2.5	Within berm area (tank farm), at north end; fill expected; samples within native material.
Comp-3	5.0-feet	B-17-5.0, B-18-5.0, B-19-5.0, B-27-5.0, B-28-5.0, B-29-5.0	Within berm area (tank farm), at north end; fill expected; samples within native material.
Comp-4	3-inches	B-10-3", B-11-3", B-20-3", B-21-3", B-30-3", B-31-3"	Within berm area (tank farm); soil beneath and adjacent to tank T-1
Comp-5	2.5-feet	B-30-2.5, B-31-2.5	Within berm area (tank farm); soil beneath and adjacent to tank T-1
Comp-6	5.0-feet	B-30-5.0, B-31-5.0	Within berm area (tank farm); soil beneath and adjacent to tank T-1
Comp-7	3-inches	B-12-3", B-13-3", B-22-3", B-23-3", B-32-3", B-33-3"	Within berm area (tank farm); soil beneath and adjacent to tank T-2
Comp-8	2.5-feet	B-22-2.5, B-23-2.5, B-32-2.5, B-33-2.5	Within berm area (tank farm); soil beneath and adjacent to tank T-2
Comp-9	5.0-feet	B-22-5.0, B-23-5.0, B-32-5.0, B-33-5.0	Within berm area (tank farm); soil beneath and adjacent to tank T-2
Comp-10	3-inches	B-14-3", B-15-3", B-24-3", B-25-3", B-34-3", B-35-3"	Within berm area (tank farm); soil beneath and adjacent to tank T-3
Comp-11	2.5-feet	B-24-2.5, B-25-2.5, B-34-2.5, B-35-2.5	Within berm area (tank farm); soil beneath and adjacent to tank T-3
Comp-12	5.0-feet	B-24-5.0, B-25-5.0, B-34-5.0, B-35-5.0	Within berm area (tank farm); soil beneath and adjacent to tank T-3
Comp-13	3-inches	B-16-3", B-26-3", B-36-3", B-46-3"	Within berm area (tank farm);in excavated area at south end
Comp-14	2.5-feet	B-16-2.5, B-26-2.5, B-36-2.5, B-46-2.5	Within berm area (tank farm);in excavated area at south end
Comp-15	5.0-feet	B-26-5.0, B-36-5.0	Within berm area (tank farm);in excavated area at south end
Comp-16	3-inches	B-37-3", B-38-3", B-39-3", B-47-3", B-48-3", B-49-3"	Within berm area (tank farm); soil under piping
Comp-17	2.5-feet	B-37-2.5, B-38-2.5, B-39-2.5, B-47-2.5, B-48-2.5, B-49-2.5	Within berm area (tank farm); soil under piping
Comp-18	5.0-feet	B-37-5.0, B-38-5.0, B-39-5.0, B-47-5.0, B-48-5.0, B-49-5.0	Within berm area (tank farm); soil under piping

TABLE 1

INITIAL SOIL SAMPLE SELECTION RATIONAL
Former Dico Oil, Signal Hill, CA
(Page 2 of 4)

Sample ID	Sample Depth	Discrete Sample IDs	Location/Rational
Comp-19	3-inches	B-40-3", B-41-3", B-50-3", B-51-3"	Within berm area (tank farm); trench area; soil under piping
Comp-20	2.5-feet	B-40-2.5, B-41-2.5, B-50-2.5, B-51-2.5	Within berm area (tank farm); trench area; soil under piping
Comp-21	5.0-feet	B-40-5.0, B-41-5.0, B-50-5.0, B-51-5.0	Within berm area (tank farm); trench area; soil under piping
Comp-22	3-inches	B-42-3", B-43-3", B-52-3", B-53-3"	Within berm area (tank farm); trench area; soil under piping
Comp-23	2.5-feet	B-42-2.5, B-43-2.5, B-52-2.5, B-53-2.5	Within berm area (tank farm); trench area; soil under piping
Comp-24	5.0-feet	B-42-5.0, B-43-5.0, B-52-5.0, B-53-5.0	Within berm area (tank farm); trench area; soil under piping
Comp-25	3-inches	B-44-3", B-45-3", B-54-3", B-55-3", B56-3"	Within berm area (tank farm); at pit
Comp-26	2.5-feet	B-45-2.5, B-54-2.5, B-55-2.5, B56-2.5	Within berm area (tank farm); at pit
Comp-27	5.0-feet	B-45-5.0, B-54-5.0, B-55-5.0, B-56-5.0	Within berm area (tank farm); at pit
Comp-28	3-inches	B-57-3", B-58-3", B-59-3", B-60-3", B-61-3", B-62-3", B-63-3", B-64-3", B-65-3"	West side of site; former drum storage
Comp-29	2.5-feet	B-57-2.5, B-58-2.5, B-59-2.5, B-60-2.5, B-61-2.5, B-62-2.5, B-63-2.5, B-64-2.5, B-65-2.5	West side of site; former drum storage
Comp-30	5.0-feet	B-57-5.0, B-58-5.0, B-59-5.0, B-60-5.0, B-61-5.0, B-62-5.0, B-63-5.0, B-64-5.0, B-65-5.0	West side of site; former drum storage
Comp-31	3-inches	B-66-3", B-67-3", B-68-3", B-71-3", B-72-3", B-73-3"	West side of site; former drum storage
Comp-32	2.5-feet	B-66-2.5, B-67-2.5, B-68-2.5, B-71-2.5, B-72-2.5, B-73-2.5	West side of site; former drum storage
Comp-33	5.0-feet	B-66-5.0, B-67-5.0, B-68-5.0, B-71-5.0, B-72-5.0, B-73-5.0	West side of site; former drum storage
Comp-34	3-inches	B-69-3", B-70-3", B-74-3", B-75-3", B-76-3"	West side of site; former drum storage
Comp-35	2.5-feet	B-69-2.5, B-70-2.5, B-74-2.5, B-75-2.5, B-76-2.5	West side of site; former drum storage
Comp-36	5.0-feet	B-69-5.0, B-70-5.0, B-74-5.0, B-75-5.0, B-76-5.0	West side of site; former drum storage
Comp-37	3-inches	B-77-3", B-78-3", B-79-3", B-80-3"	West side of site; former drum storage
Comp-38	2.5-feet	B-77-2.5, B-78-2.5, B-79-2.5, B-80-2.5	West side of site; former drum storage
Comp-39	5.0-feet	B-77-5.0, B-78-5.0, B-79-5.0, B-80-5.0	West side of site; former drum storage
Comp-40	2.0-feet	B-7-2.0, B-8-2.0, B-9-2.0	Along eastern fence
Comp-41	5.0-feet	B-7-5.0, B-8-5.0, B-9-5.0	Along eastern fence
Comp-43	10.0-feet	B-26-10.0, B-36-10.0	Southern end of tank farm

TABLE 1

INITIAL SOIL SAMPLE SELECTION RATIONAL
Former Dico Oil, Signal Hill, CA
(Page 3 of 4)

Sample ID	Sample Depth	Discrete Sample IDs	Location/Rational
Comp -46	9.5-feet	B-17-9.5, B-18-9.5, B-27-9.5, B-28-9.5, B29-9.5	North end of tank farm
Comp -48	13.5-feet	B-17-13.5, B-18-13.5, B-27-13.5, B-28-13.5	North end of tank farm
Comp-49	5.0-feet	B-10-5.5, B,11-5.0, B-20-5.0, B-21-5.0	East side of tank farm
Comp-50	2.5-feet	B-10-2.5, B-11-2.5, B-20-2.5, B-21-2.5	East side of tank farm
Comp-51	2.5-feet	B-12-2.5, B-13-2.5	Along eastern fence
Comp-52	5.0-feet	B-12-5.0, B-13-5.0	Along eastern fence
Comp 53	9.5-feet	B-30-9.5, B-31-9.5	Center of tank farm
Comp-54	9.5-feet	B-37-9.5, B-38-9.5, B-47-9.5, B-49-9.5	North end of tank farm
Comp-55	13. 5-feet	B-37-13.5, B-38-13.5, B-47-13.5, B-29-13.5	North end of tank farm
Comp-56	2.5-feet	B-14-2.5, B-15-2.5	Along eastern fence
Comp-57	5.0-feet	B-14-5.0, B-15-5.0	Along eastern fence
Comp-58	10.0-feet	B-24-10, B-25-10, B-34-10, B-35-10	Within berm area (tank farm) beneath T-3
B-1	3-inches	B-1-3"	Beneath concrete slab
B-1	2.0-feet	B-1-2'	Beneath concrete slab
B-2	3-inches	B-2-3"	Beneath concrete slab
B-2	2.0-feet	B-2-2'	Beneath concrete slab
B-3	3-inches	B-3-3"	Beneath concrete slab
B-3	2.0-feet	B-3-2'	Beneath concrete slab
B-3	5.0-feet	B-3-5'	Beneath concrete slab
B-4	3-inches	B-4-3"	Beneath concrete slab
B-4	2.0-feet	B-4-2'	Beneath concrete slab
B-5	3-inches	B-5-3"	Beneath concrete slab
B-5	2.0-feet	B-5-2'	Beneath concrete slab
B-6	3-inches	B-6-3"	Beneath concrete slab
B-6	2.0-feet	B-6-2'	Beneath concrete slab
B-16	5.0-feet	B-16-5'	South end of tank farm
B-44	2.0-feet	B-44-2'	Within berm area of pit
B-44	5.0-feet	B-44-5'	Within berm area of pit
B-44	10.0-feet	B-44-10'	Within berm area of pit
B-46	5.0-feet	B-46-5'	South end of tank farm
B-81	3-inches	B-81-3"	Offsite sampling; Background
B-81	2.0-feet	B-81-2'	Offsite sampling; Background
B-82	3-inches	B-82-3"	Offsite sampling; Background
B-82	2.0-feet	B-82-2'	Offsite sampling; Background
B-83	3-inches	B-83-3"	Offsite sampling; Background
B-83	2.0-feet	B-83-2'	Offsite sampling; Background
B-83	5.0-feet	B-83-5'	Offsite sampling; Background

TABLE 1

INITIAL SOIL SAMPLE SELECTION RATIONAL
Former Dico Oil, Signal Hill, CA

Sample ID	Sample Depth	Discrete Sample IDs	Location/Rational
B-84	3-inches	B-84-3"	Surface staining adjacent to pump
B-84	2.5-feet	B-84-2.5	Surface staining adjacent to pump
B-84	5.0-feet	B-84-5'	Surface staining adjacent to pump
B-84	8.0-feet	B-84-8	Surface staining adjacent to pump
B-85	3-inches	B-85-3"	Surface staining adjacent to pump
B-85	2.0-feet	B-85-2'	Surface staining adjacent to pump
B-85	5.0-feet	B-85-5'	Surface staining adjacent to pump
Con-Comp 1	Core	Con-1, Con-2, Con-3	Concrete approach
Con-Comp 2	Core	Con-4, Con-5, Con-6	Truck loading area
Comp-42	--	B-26-7.0,B-36-7.0	Hold
Comp-44	--	B26-12, B-36-12	Hold
Comp-45	--	B-17-7.5, B-18-7.5, B27-7.5, B28-7.5, B29-7.5	Hold
Comp- 47	--	B-17-11.5, B-18-11.5, B-27-11.5, B-28-11	Hold

TABLE 2
STEP OUT SAMPLING RATIONALE
Former Dico Oil, Signal Hill, CA

Composite Sample ID	Sample Depth	Discrete sample IDs	Analyses to be Com[pleted	Location/Rationale
Comp 59	3 inches	B-86, B-87	PCBs, TPHo,d	North side of tank farm
Comp 60	2 feet	B-86, B-87	PCBs, TPHo,d	North side of tank farm
Comp 61	5 feet	B-86, B-87	PCBs, TPHo,d	North side of tank farm
Comp 62	3 inches	B-88, B-89, B90	PCBs, TPHo,d	North side of tank farm
Comp 63	2 feet	B-88, B-89, B90	PCBs, TPHo,d	North side of tank farm
Comp 64	5 feet	B-88, B-89, B90	PCBs, TPHo,d	North side of tank farm
Comp 65	3 inches	B91, B92, B-93	PCBs	East side of tank farm
Comp 66	3 inches	B94, B-95	PCBs	East side of tank farm
Comp 67	3 inches	B96, B97	PCBs	East side of tank farm
Comp 68	3 inches	B98, B99, B100	PCBs	East side of tank farm
Comp 69	3 inches	B101, B102,B103	PCBs, TPHd	South side of tank farm
Comp 70	2 feet	B102, B103, B104	PCBs, TPHd	South side of tank farm
Comp 71	5 feet	B102, B103	PCBs, TPHd	South side of tank farm
Comp 72	3 inches	B104, B105	PCBs, TPHd	South side of tank farm
Comp 73	3 inches	B-106, B-107, B-108, B-109, B-120, B-111 B-112, B-113	PCBs	Under approach, surrounding B2
Comp 74	3 inches	B114, B115	PCBs	North side of area with high concentration of PCBs
Comp 75	3 inches	B-116, B-117, B-118	PCBs	Southern property line
Comp 76	3 inches	B-119, B-120, B-121	PCBs	Western property line
Comp 77	3 inches	B-122, B-123, B-124	PCBs	Western property line
Comp 78	12 feet	B26, B27	PCBs	Determine depth of PCBs
Comp 79	6 inches	B57, B58, B59, B60, B61, B62, B63 B64, B65	PCBs	Determine depth of PCBs for excavation
Comp 80	1 foot	B57, B58, B59, B60, B61, B62, B63 B64, B65	PCBs	Determine depth of PCBs for excavation
Comp 81	1.5 foot (hold)	B57, B58, B59, B60, B61, B62, B63 B64, B65	PCBs	Determine depth of PCBs for excavation
Comp 82	6 inches	B66, B67, B68, B71, B72, B73	PCBs	Determine depth of PCBs for excavation
Comp 83	1 foot	B66, B67, B68, B71, B72, B73	PCBs	Determine depth of PCBs for excavation
Comp 84	1.5 foot (hold)	B66, B67, B68, B71, B72, B73	PCBs	Determine depth of PCBs for excavation
Comp-85	15 feet	B-101, B-102	PCBs, TPHd	Southerly limit/depth of Tank Farm
Comp-87	15 feet	B-86, B-87, B-88	PCBs, TPHd	Northern limit of Tank Farm
Comp-88	B-106, B-109, B-111	B-106, B-109, B-111	PCBs	Soil below concrete surrounding B-2
B-100	2 feet	B-100	PCBs, TPHd	East side of tank farm
B-101	2 feet	B-101	PCBs, TPHd	South side of tank farm
B-125-15'	15 feet	B-125	TPH	Depth of TPH near NWC of Tank Farm
B-125-20'	20 feet	B-125	TPH	Depth of TPH near NWC of Tank Farm

TABLE 3
SUMMARY OF BOREHOLE OBSERVATIONS
Former Dico Oil, Signal Hill, CA
(Page 1 of 3)

Borehole Number	Depth (feet)	Comments
B1	5	No visible contamination in borehole.
B2	5	Slight hydrocarbon odor at 2 feet, and discolored grey. No visible contamination at 5 feet.
B3	10	Hydrocarbon odor at 2 feet, and discolored grey. No visible contamination at 5 feet.
B4	7.5	No visible contamination in borehole.
B5	5	No visible contamination in borehole.
B6	5	No visible contamination in borehole.
B7	5	No visible contamination in borehole.
B8	5	No visible contamination in borehole.
B9	5	No visible contamination in borehole.
B10	5	No visible contamination in borehole.
B11	5	No visible contamination in borehole.
B12	5	No visible contamination in borehole.
B13	5	No visible contamination in borehole.
B14	5	No visible contamination in borehole.
B15	5	No visible contamination in borehole.
B16	5	No visible contamination in borehole.
B17	13.5	Black and odorous at 5 feet. Dary grey to 11 feet. No visible contamination at 13.5 feet.
B18	11.5	Black and odorous between 5 and 9.5 feet. Light grey and no odor at 11.5 feet.
B19	5	Black at 2 feet. No visible contamination at 5 feet.
B20	7.5	No visible contamination in borehole.
B21	5	No visible contamination in borehole.
B22	5	No visible contamination in borehole.
B23	10	Grey to 7.5 feet. No discoloration at 10 feet, but with slight odor.
B24	10	Grey to 8 feet. No discoloration at 10 feet.
B25	13.5	Grey to 7.5 feet. No discoloration at 9.5 feet.
B26	10	Dark grey and odorous to 7.5 feet. Light grey at 10 feet.
B27	19.5	Black and odorous to 9.5 feet. Grey and slight hydrocarbon odor to 17 feet. No visible contamination at 19.5 feet.
B28	15	Grey and odorous to 13.5 feet. No visible contamination at 15 feet.
B29	9.5	Black and 2 feet. Grey to 7.5 feet. No visible contamination at 9.5 feet.
B30	13.5	Grey to 9.5 feet. No visible contamination at 13.5 feet.
B31	9.5	Grey to 7.5 feet. No visible contamination at 9.5 feet.
B32	7.5	Dark grey to 4 feet. No visible contamination at 7.5 feet.
B33	9.5	Grey and odorous to 7.5 feet. No visible contamination at 11.5 feet.
B34	11.5	Grey to 10 feet. No visible contamination at 11.5
B35	15	Black mottling to 12 feet. No visible contamination at 15 feet.
B36	9.5	Black and odorous to 7.5 feet. Light grey and slight odor at 9.5 feet.
B37	15.5	Black and oddorous to 13.5 feet. Light grey, no odor at 15.5 feet.
B38	15.5	Black and odorous to 14 feet. No visible contamination at 15.5 feet.
B39	13.5	Black and odorous to 9.5 feet. Grey to 11.5 feet. No visible contamination at 13.5 feet.
B40	7.5	No visible contamination in borehole.
B41	7.5	No visible contamination in borehole.
B42	5	No visible contamination in borehole.

TABLE 3
SUMMARY OF BOREHOLE OBSERVATIONS
Former Dico Oil, Signal Hill, CA

Borehole Number	Depth (feet)	Comments
B43	5	No visible contamination in borehole.
B44	10	Light grey. No odor.
B45	9.5	Grey. No odor.
B46	7.5	No visible contamination in borehole.
B47	19	Black, odorous, oil seeping from samples between 9.5 and 15.5 feet. No visible contamination at 19 feet.
B48	5	Black to 5 feet. Refusal at 7 feet.
B49	20	Grey to 15 feet. No visible contamination at 20 feet.
B50	7.5	No visible contamination in borehole.
B51	7.5	No visible contamination in borehole.
B52	7.5	No visible contamination in borehole.
B53	5	No visible contamination in borehole.
B54	5	No visible contamination in borehole.
B55	5	No visible contamination in borehole.
B56	5	No visible contamination in borehole.
B57	5	No visible contamination in borehole.
B58	5	No visible contamination in borehole.
B59	5	No visible contamination in borehole.
B60	5	No visible contamination in borehole.
B61	5	No visible contamination in borehole.
B62	5	No visible contamination in borehole.
B63	5	No visible contamination in borehole.
B64	5	No visible contamination in borehole.
B65	5	No visible contamination in borehole.
B66	15	No visible contamination, slight gasoline odor at 15 feet.
B67	5	No visible contamination in borehole.
B68	5	No visible contamination in borehole.
B69	5	No visible contamination in borehole.
B70	5	No visible contamination in borehole.
B71	5	No visible contamination in borehole.
B72	5	No visible contamination in borehole.
B73	5	No visible contamination in borehole.
B74	5	No visible contamination in borehole.
B75	5	No visible contamination in borehole.
B76	5	No visible contamination in borehole.
B77	5	No visible contamination in borehole.
B78	5	No visible contamination in borehole.
B79	5	No visible contamination in borehole.
B80	5	No visible contamination in borehole.
B81	5	No visible contamination in borehole.
B82	5	No visible contamination in borehole.
B83	5	No visible contamination in borehole.
B84	22	Grey to 8 feet. Moderate hydrocarbon odor at 2.5 feet. Gasoline odor at 10 feet. No visible contamination at 22 feet, but slight gasoline odor.
B85	5	No visible contamination in borehole.

TABLE 3
SUMMARY OF BOREHOLE OBSERVATIONS
Former Dico Oil, Signal Hill, CA
(Page 3 of 3)

Borehole Number	Depth (feet)	Comments
B86	25	Black at 4 feet. Brown to 15 feet. Light grey silty sand at 15 to 20 feet, slight hydrocarbon odor.
B87	20	Brown sandy silt to 15 feet. Light grey silty sand. No odor.
B88	20	Brown/black at 1 to 2 feet. Brown silt to 15 feet. Dark grey silty sand 15 to 20 feet. Slight hydrocarbon odor
B89	15	Brown silty sand. No visible contamination in borehole.
B90	10	Brown silty sand. No visible contamination in borehole.
B91	3"	No visible contamination. Residential backyard.
B92	3"	No visible contamination. Residential backyard.
B93	3"	No visible contamination. Residential backyard.
B94	3"	No visible contamination. Residential backyard.
B95	3"	No visible contamination. Residential backyard.
B96	3"	No visible contamination. Residential backyard.
B97	3"	No visible contamination. Residential backyard.
B98	3"	No visible contamination. Residential backyard.
B99	3"	No visible contamination. Residential backyard.
B100	2	No visible contamination. Residential backyard.
B101	15	No visible contamination. Southern fenceline.
B102	20	Brown silty sand to 5 feet. Black mottling at 10 feet. Light grey silty sand, hydrocarbon odor to 20 feet.
B103	15	Brown silty sand to 10 feet. Black sandy silt to 15 feet.
B104	15	Brown silty sand to 15 feet. No visible contamination in borehole.
B105	3"	No visible contamination.
B106	3"	Grey silty sand.
B107	3"	Brown silty sand. No visible contamination in borehole.
B108	3"	Grey silty sand. Hydrocarbon odor.
B109	3"	Grey silty sand. Slight hydrocarbon odor.
B110	3"	Grey silty sand. Hydrocarbon odor.
B111	3"	Dark grey silty sand. Slight hydrocarbon odor.
B112	3"	Grey silty sand. Hydrocarbon odor.
B113	3"	Grey silty sand.
B114	3"	No visible contamination.
B115	3"	No visible contamination.
B116	3"	No visible contamination. Southern fenceline.
B117	3"	No visible contamination. Southern fenceline.
B118	3"	No visible contamination. Southern fenceline.
B119	3"	No visible contamination. Western fenceline
B120	3"	No visible contamination. Western fenceline
B121	3"	No visible contamination. Western fenceline
B122	3"	No visible contamination. Western fenceline
B123	3"	No visible contamination. Western fenceline
B124	3"	No visible contamination. Western fenceline
B125	20	Dark grey, black to 15 feet. Heavy hydrocarbon odor 5 to 15 feet. Light hydrocarbon odor at 15 to 20 feet.

Samples ar in groups by geographic area and in order of depth

TABLE 4
SUMARY OF SOIL ANALYTICAL RESULTS
(Initial Sampling)
Former Dico Oil, Signal Hill, CA
(Page 1 of 4)

Lead & chrome TCLP = 5.0 mg/L

1000 10,000

Sample ID	Sample Date	Discrete Sample IDs	Sample Depth	PCB-1242 (mg/kg)	PCB-1248 (mg/kg)	PCB-1254 (mg/kg)	PCB-1260 (mg/kg)	Total PCBs (mg/kg)	TPH Diesel (mg/kg)	TPH Oil (mg/kg)	Chromium (mg/kg)	Chromium STLC (mg/l)	Lead (mg/kg)	Lead STLC (mg/l)	Lead TCLP (mg/l)
Regulatory Criteria									1000	10,000	PRG - 450 TTLC - 2,500 STLC - 50	STLC - 5	PRG - 750 TTLC - 1,000 STLC - 50 TCLP - 100	STLC - 5	TCLP - 5
Comp-1	1/5/2004	B-7, B-17, B-27, B-8, B-18, B-29, B-9, B-19, B-28	3 Inches	ND	ND	ND	6.3	6.3	438	10,200	19.2	NA	126	3.8	0.204
Comp-2	1/7/2004	B-17, B-18, B-19, B-27, B-28, B-29	2 Feet	0.57	ND	0.5	1.3	2.37	9,100	3,600	12.3	NA	22.8	NA	NA
Comp-3	1/7/2004	B-17, B-18, B-19, B-27, B-28, B-29	5 Feet	ND	ND	ND	46	46	14,400	10,900	17.6	NA	85.2	2.82	NA
Comp-46	1/7/2004	B-17, B-18, B-19, B-27, B-28, B-29	9.5 Feet	0.49	ND	0.53	0.94	1.96	14,400	5,030	16.3	NA	26.2	NA	NA
Comp-48	1/7/2004	B-17, B-18, B-19, B-27, B-28	13.5 Feet	0.35	ND	0.34	0.07	0.76	2,220	300	11.6	NA	1.53	NA	NA
Comp-40	1/7/2004	B-7, B-8, B-9	2 Feet	ND	ND	ND	ND	ND	ND	6	9.88	NA	2.99	NA	NA
Comp-41	1/7/2004	B-7, B-8, B-9	5 Feet	ND	ND	ND	ND	ND	ND	ND	10.5	NA	1.71	NA	NA
Comp-4	1/5/2004	B-10, B-11, B-20, B-21, B-30, B-31	3 Inches	ND	ND	ND	5.2	5.2	685	10,400	14.3	NA	60.8	2.28	NA
Comp-5	1/8/2004	B-30, B-31	2 Feet	1.4	ND	0.55	0.12	2.07	5,400	10,700	12.7	NA	2.24	NA	NA
Comp-6	1/8/2004	B-30, B-31	5 Feet	0.72	ND	ND	0.077	0.797	2,400	1,100	14.2	NA	2.44	NA	NA
Comp-49	1/8/2004	B-10, B-11, B-20, B-21	5 Feet	ND	ND	ND	ND	ND	ND	15	14.1	NA	2.21	NA	NA
Comp-50	1/8/2004	B-10, B-11, B-20, B-21	2 Feet	ND	ND	ND	0.049	0.049	ND	300	12.3	NA	10.2	NA	NA
Comp-53	1/8/2004	B-30, B-31	9.5 Feet	0.31	ND	0.28	ND	0.59	1,430	700	18.9	NA	2.7	NA	NA
Comp-7	1/5/2004	B-12, B-13, B-22, B-23, B-32, B-33	3 Inches	ND	ND	ND	7.2	7.2	1,600	1,150	10.6	NA	23.1	NA	NA
Comp-8	1/12/2004	B-22, B-23, B-32, B-33	2 Feet	0.15	ND	ND	2.8	2.95	713	240	14.9	NA	2.32	NA	NA
Comp-9	1/12/2004	B-22, B-23, B-32, B-33	5 Feet	0.12	ND	ND	0.18	0.3	1,030	80	17.7	NA	2.56	NA	NA
Comp-51	1/8/2004	B-12, B-13	2 Feet	ND	ND	ND	ND	ND	3.2	13	11.8	NA	1.95	NA	NA
Comp-52	1/8/2004	B-12, B-13	5 Feet	ND	ND	ND	ND	ND	ND	ND	10.8	NA	1.47	NA	NA
Comp-10	1/5/2004	B-14, B-24, B-34, B-15, B-25, B-35	3 Inches	ND	ND	ND	28	28	610	416	15.1	NA	47.4	NA	NA
Comp-11	1/12/2004	B-24, B-25, B-34, B-35	2 Feet	ND	ND	ND	80	80	3,900	420	15.6	NA	3.39	NA	NA
Comp-12	1/12/2004	B-24, B-25, B-34, B-35	5 Feet	ND	ND	ND	11	11	2,200	160	17.8	NA	2.48	NA	NA

Samples ar\ in groups by geographic area and in order of depth

TAbLE 4
SUMARY OF SOIL ANALYTICAL RESULTS
(Initial Sampling)
Former Dico Oil, Signal Hill, CA
(Page 2 of 4)

Sample ID	Sample Date	Discrete Sample IDs	Sample Depth	PCB-1242 (mg/kg)	PCB-1248 (mg/kg)	PCB-1254 (mg/kg)	PCB-1260 (mg/kg)	Total PCBs (mg/kg)	TPH Diesel (mg/kg)	TPH Oil (mg/kg)	Chromium (mg/kg)	Chromium STLC (mg/l)	Lead (mg/kg)	Lead STLC (mg/l)	Lead TCLP (mg/l)
Regulatory Criteria									1,000	10,000	PRG = 450 PHLG = 2,500 STLC = 50	STLC = 5	PRG = 750 PHLG = 4,000 STLC = 50 TCLP = 100	STLC = 5	TCLP = 5
Comp-58	1/12/2004	B-24, B-25, B-34, B-35	10 Feet	ND	ND	ND	3.7	3.7	NA	NA	NA	NA	NA	NA	NA
Comp-56	1/12/2004	B-14, B-15	2 Feet	ND	ND	ND	0.042	0.042	ND	8	13.2	NA	1.37	NA	NA
Comp-57	1/12/2004	B-14, B-15	5 Feet	ND	ND	ND	0.031	0.031	ND	ND	15.4	NA	2.04	NA	NA
Comp-13	1/5/2004	B-16, B-26, B-36, B-46	3 Inches	ND	ND	ND	4.5	4.5	124	182	21.3	NA	28.6	NA	NA
Comp-14	1/7/2004	B-16, B-26, B-36, B-46	2 Feet	ND	ND	ND	15	15	335	150	16.4	NA	3.35	NA	NA
Comp-15	1/7/2004	B-26, B-36	5 Feet	ND	ND	ND	22	22	3,700	1,200	15.4	NA	2.6	NA	NA
Comp-43	1/7/2004	B-26, B-36	10 Feet	ND	ND	ND	31	31	4,400	1,100	8.78	NA	0.471J	NA	NA
B-16-5'	1/7/2004	B-16	5 Feet	ND	ND	ND	ND	ND	ND	ND	16.8	NA	2.56	NA	NA
B-46-5'	1/7/2004	B-46	5 Feet	ND	ND	ND	0.056	0.056	5	ND	16.6	NA	2.39	NA	NA
Comp-78	1/29/04	B-26, B-36	15 feet	ND	ND	ND	21	21	5040	ND	NA	NA	NA	NA	NA
Comp-16	1/5/2004	B-37, B-47, B-38, B-48, B-39, B-49	3 Inches	ND	ND	ND	5.3	5.3	947	4,470	34.9	NA	311	10.8	0.707
Comp-17	1/8/2004	B-37, B-38, B-39, B-47, B-48, B-49	2 Feet	0.13	ND	ND	0.82	0.95	1,800	2,400	18.2	NA	49.3	NA	NA
Comp-18	1/8/2004	B-37, B-38, B-39, B-47, B-48, B-49	5 Feet	1.3	ND	ND	8.1	9.4	2,000	3,700	105	0.301	149	0.965	0.371
Comp-54	1/8/2004	B-37,B-38, B-39, B-47, B-49	9.5 Feet	1.5	ND	ND	0.24	1.74	1,200	350	20.3	NA	3.81	NA	NA
Comp-55	1/8/2004	B-37,B-38, B-39, B-47, B-49	13.5	2.3	ND	ND	0.14	2.44	2,350	10,200	16.5	NA	2.09	NA	NA
Comp-19	1/5/2004	B-40, B-50, B-41, B-51	3 Inches	ND	1.1	1.2	1.1	3.4	622	728	11	NA	66.2	2.68	NA
Comp-20	1/12/2004	B-40, B-41, B-50, B-51	2 Feet	ND	ND	ND	ND	ND	ND	ND	14.5	NA	1.69	NA	NA
Comp-21	1/12/2004	B-40, B-41, B-50, B-51	5 Feet	ND	ND	ND	ND	ND	ND	ND	15.3	NA	1.87	NA	NA
Comp-22	1/5/2004	B-42, B-52, B-43, B-53	3 Inches	ND	ND	ND	4.6	4.6	1,210	3,260	41	NA	101	3.69	ND
Comp-23	1/6/2004	B-42, B-52, B-43, B-53	2 Feet	ND	ND	ND	ND	ND	ND	60	11.7	NA	1.9	NA	NA
Comp-24	1/6/2004	B-42, B-52, B-43, B-53	5 Feet	ND	ND	ND	ND	ND	ND	ND	13.8	NA	2.34	NA	NA
Comp-25	1/5/2004	B-44, B-54, B-45, B-55, B-56	3 Inches	ND	ND	ND	37	37	160	1,660	18.6	NA	77.5	1.71	NA
Comp-26	1/7/2004	B-45, B-54, B-55, B-56	2 Feet	ND	ND	0.22	0.75	0.97	81	222	12.4	NA	3.65	NA	NA

Samples a[illegible] in groups
by geographic area and in
order of depth

TA[illegible]E 4
SUMARY OF SOIL ANALYTICAL RESULTS
(Initial Sampling)
Former Dico Oil, Signal Hill, CA
(Page 3 of 4)

Sample ID	Sample Date	Discrete Sample IDs	Sample Depth	PCB-1242 (mg/kg)	PCB-1248 (mg/kg)	PCB-1254 (mg/kg)	PCB-1260 (mg/kg)	Total PCBs (mg/kg)	TPH Diesel (mg/kg)	TPH Oil (mg/kg)	Chromium (mg/kg)	Chromium STLC (mg/l)	Lead (mg/kg)	Lead STLC (mg/l)	Lead TCLP (mg/l)
Regulatory Criteria									1000	0.000	PRG - 450 BTLC - 2,500 STLC - 50	STLC - 5	PRG - 150 BTLC - 1,000 STLC - 30 TCLP - 100	STLC - 5	TCLP - 5
Comp-27	1/7/2004	B-45, B-54, B-55, B-56	5 Feet	ND	ND	ND	ND	ND	ND	5	15.8	NA	2.89	NA	NA
B-44-2'	1/7/2004	B-44	2 Feet	0.34	ND	0.6	0.3	1.24	1,330	560	10.8	NA	6.19	NA	NA
B-44-5'	1/7/2004	B-44	5 Feet	0.34	ND	0.24	0.26	0.84	2,300	520	15.1	NA	20	NA	NA
B-44-10'	1/8/2004	B-44	10 Feet	0.074	ND	ND	0.075	0.149	160	ND	15.2	NA	6.12	NA	NA
Comp-28	1/6/2004	B-59, B-58, B-57, B-62, B-61, B-60, B-65, B-64, B-63	3 Inches	ND	ND	ND	56	56	1,010	1,700	26	NA	186	5.84	0.076
Comp-79	1/29/04	B-59, B-58, B-57, B-62, B-61, B-60, B-65, B-64, B-63	6 Inches	ND	ND	ND	18	18	NA	NA	NA	NA	NA	NA	NA
Comp-80	1/29/04	B-59, B-58, B-57, B-62, B-61, B-60, B-65, B-64, B-63	1 Foot	ND	ND	ND	2.6	2.6	NA	NA	NA	NA	NA	NA	NA
Comp-29	1/6/2004	B-59, B-58, B-57, B-62, B-61, B-60, B-65, B-64, B-63	2 Feet	ND	ND	ND	ND	ND	ND	ND	11.2	NA	1.67	NA	NA
Comp-30	1/6/2004	B-59, B-58, B-57, B-62, B-61, B-60, B-65, B-64, B-63	5 Feet	ND	ND	ND	ND	ND	ND	ND	12.3	NA	2	NA	NA
Comp-31	01/09/04	B-66, B-67, B-68, B-71, B-72, B-73	3 Inches	ND	ND	ND	310	310	ND	300	77.7	0.27	531	15.5	0.78
Comp- 82	1/29/04	B-68, B-67, B-66, B-71, B-72, B-73	6 Inches	ND	ND	ND	110	110	NA	NA	NA	NA	NA	NA	NA
Comp- 83	1/29/04	B-68, B-67, B-66, B-71, B-72, B-73	1 Foot	ND	ND	ND	250	250	NA	NA	NA	NA	NA	NA	NA
Comp-32	01/09/04	B-66, B-67, B-68, B-71, B-72, B-73	2 Feet	ND	ND	ND	0.15	0.15	400	ND	12.6	NA	2.31	NA	NA
Comp-33	01/09/04	B-66, B-67, B-68, B-71, B-72, B-73	5 Feet	ND	ND	0.23	0.67	0.9	470	ND	14.7	NA	10.5	NA	NA
Comp-34	01/09/04	B-69, B-70, B-74, B-75, B-76	3 Inches	ND	ND	0.24	0.088	0.328	ND	600	19.3	NA	216	5.63	0.039J
Comp-35	01/09/04	B-69, B-70, B-74, B-75, B-76	2 Feet	ND	ND	ND	ND	ND	ND	ND	13	NA	1.78	NA	NA

Samples ai . in groups
by geographic area and in
order of depth

TABLE 4
SUMARY OF SOIL ANALYTICAL RESULTS
(Initial Sampling)
Former Dico Oil, Signal Hill, CA
(Page 4 of 4)

Sample ID	Sample Date	Discrete Sample IDs	Sample Depth	PCB-1242 (mg/kg)	PCB-1248 (mg/kg)	PCB-1254 (mg/kg)	PCB-1260 (mg/kg)	Total PCBs (mg/kg)	TPH Diesel (mg/kg)	TPH Oil (mg/kg)	Chromium (mg/kg)	Chromium STLC (mg/l)	Lead (mg/kg)	Lead STLC (mg/l)	Lead TCLP (mg/l)
Regulatory Criteria									1000	10,000	PRG - 450 THLC - 2,500 STLC - 50	STLC - 5	PRG - 750 THLC - 1,000 STLC - 50 TCLP - 100	STLC - 5	TCLP - 5
Comp-36	01/09/04	B-69, B-70, B-74, B-75, B-76	5 Feet	ND	ND	ND	0.033	0.033	ND	ND	12.8	NA	2.13	NA	NA
Comp-37	01/09/04	B-77, B-78, B-79, B-80	3 Inches	ND	ND	ND	ND	ND	ND	1,800	32.6	NA	197	7.09	0.02J
Comp-38	01/09/04	B-77, B-78, B-79, B-80	2 Feet	ND	ND	ND	0.067	0.067	ND	ND	12.6	NA	1.53	NA	NA
Comp-39	01/09/04	B-77, B-78, B-79, B-80	5 Feet	ND	ND	ND	ND	ND	ND	ND	13.7	NA	1.23	NA	NA
B-1-3"	1/6/2004	B-1	3 Inches	ND	ND	ND	0.19	0.19	ND	1,170	13.3	NA	48.4	NA	NA
B-1-2'	1/6/2004	B-1	2 Feet	ND	ND	ND	ND	ND	ND	ND	12.2	NA	1.72	NA	NA
B-2-3"	1/6/2004	B-2	3 Inches	ND	ND	0.76	0.25	1.01	ND	4,910	29.1	NA	376	19.1	1.44
B-2-2'	1/6/2004	B-2	2 Feet	ND	ND	ND	ND	ND	549	7,460	8.92	NA	28.6	NA	NA
B-3-3"	1/6/2004	B-3	3 Inches	ND	ND	ND	0.33	0.33	797	1,950	11.2	NA	23.1	NA	NA
B-3-2'	1/6/2004	B-3	2 Feet	ND	ND	ND	ND	ND	93	635	11.9	NA	6.46	NA	NA
B-3-5'	1/6/2004	B-3	5 Feet	ND	ND	ND	ND	ND	ND	ND	12.9	NA	2.02	NA	NA
B-4-3"	1/6/2004	B-4	3 Inches	ND	ND	ND	0.077	0.077	ND	1,500	18.5	NA	14.6	NA	NA
B-4-2'	1/6/2004	B-4	2 Feet	ND	ND	ND	ND	ND	39	168	12	NA	2.86	NA	NA
B-5-3"	1/6/2004	B-5	3 Inches	ND	ND	ND	0.42	0.42	544	964	15.5	NA	33.5	NA	NA
B-5-2'	1/6/2004	B-5	2 Feet	ND	ND	ND	ND	ND	ND	ND	11.9	NA	1.58	NA	NA
B-6-3"	1/6/2004	B-6	3 Inches	ND	ND	ND	0.11	0.11	90	1,390	12.2	NA	6.75	NA	NA
B-6-2'	1/6/2004	B-6	2 Feet	ND	ND	ND	ND	ND	ND	ND	12.5	NA	2.12	NA	NA
B-81-3"	1/6/2004	B-81	3 Inches	ND	ND	ND	0.39	0.39	ND	391	22.8	NA	88.8	NA	NA
B-81-2'	1/6/2004	B-81	2 Feet	ND	ND	ND	ND	ND	ND	ND	13.1	NA	1.83	NA	NA
B-82-3"	1/6/2004	B-82	3 Inches	ND	ND	ND	0.36	0.36	ND	237	15	NA	54.2	NA	NA
B-82-2'	1/6/2004	B-82	2 Feet	ND	ND	ND	ND	ND	ND	ND	13.4	NA	2.35	NA	NA
B-83-3"	1/6/2004	B-83	3 Inches	ND	ND	ND	0.13	0.13	ND	242	13.5	NA	44.5	NA	NA
B-83-2'	1/6/2004	B-83	2 Feet	ND	ND	ND	ND	ND	ND	ND	12.7	NA	2.13	NA	NA
B-83-5'	1/6/2004	B-83	5 Feet	ND	ND	ND	ND	ND	ND	ND	19.2	NA	1.25	NA	NA
B-84-3"	01/09/04	B-84	3 Inches	ND	ND	ND	0.2	0.2	14,900	ND	27.4	NA	179	6.98	0.256
B-84-2.5	01/09/04	B-84	2.5 Feet	ND	ND	ND	ND	ND	10	ND	11.4	NA	1.68	NA	NA
B-84-5'	01/09/04	B-84	5 Feet	ND	ND	ND	ND	ND	450	ND	15.7	NA	2.65	NA	NA
B-84-8	01/09/04	B-84	8 Feet	ND	ND	ND	ND	ND	60	ND	13.2	NA	2.12	NA	NA
B-85-3"	1/12/2004	B-85	3 Inches	ND	ND	ND	0.49	0.49	ND	720	17.5	NA	74.2	2.37	NA
B-85-2'	1/12/2004	B-85	2 Feet	ND	ND	ND	ND	ND	ND	ND	13.7	NA	3.26	NA	NA
B-85-5'	1/12/2004	B-85	5 Feet	ND	ND	ND	ND	ND	ND	ND	15	NA	1.98	NA	NA
Con-Comp-1	1/6/2004	Con-1, Con-2, Con-3	--	ND	ND	ND	ND	ND	ND	ND	13.7	NA	3.42	NA	NA
Con-Comp-2	1/6/2004	Con-4, Con-5, Con-6	--	ND	ND	ND	ND	ND	ND	224	11.8	NA	6.76	NA	NA

ND = Not Detected; NA = Not Analyzed
Note: PCB-1016, -1221, and -1232 were not detected.

TABLE 5
SUMMARY OF GASOLINE CONSTITUENTS
(Initial Sampling, North End of Drum Storage Area)
Former Dico Oil, Signal Hill, CA

Compound	Units	B-84-10'	B-84-15'	B-84-22'	B-66-15'
Depth		10 Feet	15 Feet	22 Feet	15 Feet
Benzene	mg/kg	ND	ND	ND	ND
Ethyl benzene	mg/kg	ND	ND	ND	**0.038**
Toluene	mg/kg	ND	ND	ND	**0.027**
Xylenes, total	mg/kg	ND	ND	ND	**0.138**
Gasoline	mg/kg	ND	**11**	ND	**26**
Methyl-tert-butylether (MTBE)	mg/kg	ND	ND	ND	ND

ND -- Not detected

TABLE 6
SOIL ANALYTICAL RESULTS AT STEP OUT LOCATIONS
Former Dico Oil, Signal Hill, CA
(Page 1 of 2)

Sample ID	Sample Date	Discrete Sample IDs	Sample Depth	PCB-1242 (mg/kg)	PCB-1248 (mg/kg)	PCB-1254 (mg/kg)	PCB-1260 (mg/kg)	Total PCBs (mg/kg)	TPH Diesel (mg/kg)	TPH Oil (mg/kg)	TPH Gasoline (mg/kg)
Comp-59	1/29/04	B-86, B-87	3 Inches	ND	ND	ND	8.3	8.3	300	4100	NA
Comp-60	1/29/04	B-86, B-87	2 Feet	ND	ND	0.11	0.04	0.15	48	780	NA
Comp-61	1/29/04	B-86, B-87	5 Feet	ND	ND	ND	ND	ND	ND	ND	NA
Comp-87	1/29/04	B-86, B-87, B-88	15 feet	0.91	ND	0.54	0.1	1.55	800	ND	NA
Comp-62	1/29/04	B-88, B-89, B-90	3 Inches	ND	ND	0.3	0.89	1.19	ND	126	ND
Comp-63	1/29/04	B-88, B-89, B-90	2 Feet	ND	ND	0.1	0.07	0.17	ND	554	ND
Comp-64	1/29/04	B-88, B-89, B-90	5 Feet	ND	ND	ND	0.07	0.07	34	260	ND
Comp-65	1/29/04	B-91, B-92, B-93	3 Inches	ND	ND	ND	0.81	0.81	5	150	NA
Comp-66	1/29/04	B-94, B-95	3 Inches	ND	ND	ND	0.42	0.42	ND	217	NA
Comp-67	1/29/04	B-96, B-97	3 Inches	ND	ND	ND	0.47	0.47	ND	175	NA
Comp-68	1/29/04	B-98, B-99, B-100	3 Inches	ND	ND	ND	0.74	0.74	ND	1290	NA
B-100-2	1/29/04	B-100	2 Feet	ND	ND	ND	0.7	0.7	24	26	NA
Comp-69	1/29/04	B-101, B-102, B-103	3 Inches	ND	ND	ND	0.11	0.11	ND	74	NA
Comp-70	1/29/04	B-102, B-103, B-104	2 Feet	ND	ND	ND	0.12	0.12	6	302	NA
B-101-2	1/29/04	B-101	2 Feet	ND	ND	ND	0.23	0.23	4.3	67	NA
Comp-71	1/29/04	B-102, B-103	5 Feet	ND	ND	ND	3.6	3.6	780	650	NA
Comp-85	1/29/04	B-101, B-102	15 feet	ND	ND	ND	1.3	1.3	4700	ND	NA
Comp-72	1/29/04	B-104, B-105	3 Inches	ND	ND	ND	0.17	0.17	ND	132	NA
Comp-73	1/30/04	B-107, B-108, B-110, B-112, B-113	3 Inches	ND	ND	0.1	0.06	0.16	NA	NA	NA

TABLE 6
SOIL ANALYTICAL RESULTS AT STEP OUT LOCATIONS
Former Dico Oil, Signal Hill, CA
(Page 2 of 2)

Sample ID	Sample Date	Discrete Sample IDs	Sample Depth	PCB-1242 (mg/kg)	PCB-1248 (mg/kg)	PCB-1254 (mg/kg)	PCB-1260 (mg/kg)	Total PCBs (mg/kg)	TPH Diesel (mg/kg)	TPH Oil (mg/kg)	TPH Gasoline (mg/kg)
Comp-74	1/29/04	B-114, B-115	3 Inches	ND	ND	ND	1.90	1.9	ND	400	NA
Comp-75	1/29/04	B-116, B-117, B-118	3 Inches	ND	ND	ND	56	56	ND	550	NA
Comp-76	1/29/04	B-119, B-120, B-121	3 Inches	ND	ND	ND	17	17	ND	117	NA
Comp-77	1/29/04	B-122, B-123, B-124	3 Inches	ND	ND	ND	25	25	ND	600	NA
Comp-78	1/29/04	B-26, B-36	15 feet	ND	ND	ND	21	21	5040	ND	NA
Comp-79	1/29/04	B-59, B-58, B-57, B-62, B-61, B-60, B-65, B-64, B-63	6 Inches	ND	ND	ND	18	18	NA	NA	NA
Comp-80	1/29/04	B-59, B-58, B-57, B-62, B-61, B-60, B-65, B-64, B-63	1 Foot	ND	ND	ND	2.6	2.6	NA	NA	NA
Comp- 82	1/29/04	B-68, B-67, B-66, B-71, B-72, B-73	6 Inches	ND	ND	ND	110	110	NA	NA	NA
Comp- 83	1/29/04	B-68, B-67, B-66, B-71, B-72, B-73	1 Foot	ND	ND	ND	250	250	NA	NA	NA
B-125-15'	1/30/04	B-125	15 feet	NA	NA	NA	NA	NA	1600	ND	330
B-125-20'	1/30/04	B-125	20 Feet	NA	NA	NA	NA	NA	5000	ND	1900
Comp-88	1/30/04	B-106, B-109, B-111	3 Inches	ND	ND	0.35	0.21	0.56	NA	NA	NA

ND = Not Detected; NA = Not Analyzed
Note: PCB-1016, -1221, and -1232 were not detected.

TABLE 7
SUMMARY OF PROFILE DATA
Former Dico Oil, Signal Hill, CA

Compound	Units	B-47-13'	B-47	B-36-12.5'	B-26-12.5'	Surface 1'
Location		North	Bulk North	South	South	
CAM Metal 6010B/7000						
Antimony	mg/kg	ND	ND	ND	ND	3.54
Aresnic	mg/kg	7.61	8.58	13.7	7.51	12.8
Barium	mg/kg	60.6	262	70.1	63.5	286
Beryllium	mg/kg	0.635	0.71	0.603	0.342J	0.313J
Cadmium	mg/kg	0.218J	1.20	2.02	0.272J	1.02
Chromium	mg/kg	16.3	20.9	15.0	14.6	22.5
Cobalt	mg/kg	6.23	6.33	9.01	7.48	6.91
Copper	mg/kg	6.79	64.5	7.90	19.1	60.2
Lead	mg/kg	2.11	141	2.13	0.568	154
Molybdenum	mg/kg	ND	13.3	5.65	5.28	9.12
Nickel	mg/kg	11.1	21.0	11.6	10.3	17.3
Silver	mg/kg	ND	0.29	0.469	0.123J	ND
Vanadium	mg/kg	34.8	29.0	41.8	42.2	29.5
Zinc	mg/kg	28.7	116	43.7	46.9	178
Mercury	mg/kg	0.021J	0.31	ND	ND	0.31
PCBs 8082						
PCB-1242	mg/kg	3.3	ND		ND	ND
PCB-1260	mg/kg	0.49	3.3		21	7.2
Gasoline/Diesel/Oil, 8015M						
Gasoline	mg/kg	NA	ND	ND	300	4.1
Diesel	mg/kg	NA	NA	6000	7000	582
Oil	mg/kg	NA	NA	ND	ND	NA
VOCs 8260B						
1,3-Dichlorobenzene	ug/kg	ND	ND	1560	ND	ND
1,4-Dichlorobenzene	ug/kg	ND	ND	13800	7340	ND
1,2,4-Trichlorobenzene	ug/kg	ND	ND	ND	ND	633
1,2,4-Trimethlybenzene	ug/kg	1,140J	16,900	ND	ND	ND
1,3,5-Trimethlybenzene	ug/kg	ND	4,680	ND	ND	ND
Benzene	ug/kg	ND	4,400	ND	ND	ND
Ethyl benzene	ug/kg	2770	21,000	149 J	ND	ND
Methyl-tert-butylether (MTBE)	ug/kg	ND	1,510	ND	ND	ND
Isopropylbenzene	ug/kg	788J	ND	186 J	ND	ND
n-Propylbenzene	ug/kg	1,460J	8,360	450	ND	ND
Naphthalene	ug/kg	4,420	18,000	5310	8010	ND
p-Isopropyltoluene	ug/kg	578J	ND	ND	ND	ND
Xylenes, total	ug/kg	638J	8,860	ND	ND	116J
SVOCs, 8270C						
1,4-Dichlorobenzene	ug/kg	ND	ND	10600	5690	ND
1,2,4-Trichlorobenzene	ug/kg	ND	ND	ND	ND	ND
2-Methylnapthalene	ug/kg	45,000	53600	27000	24200	ND
bis(2-ethylhexyl)phthalate	ug/kg	5,620J	18600	668	449 J	ND
Naphthalene	ug/kg	13,900	30700	7860	7970	ND
Phenanthrene	ug/kg	11,300	8960	4760	4150	ND
Pyrene	ug/kg	ND	5280	ND	ND	ND
Ignitability, 1030						
Ignitability of Solids	P/F		Passes	Passes	Passes	Passes

J -- Detected below the reporting limit but above the detection limit
ND -- Not detected
Note: Other compounds not detected

TABLE 8
SUMMARY OF CONTAINER DATA
(Organics)

Compound	Units	Composite Drums	RO-8	RO-9	RO-9 Dup	RO-10	RO-11	RO-12	RO-13	RO-14
Waste Classification										
PCB-1242	mg/kg	0.7	ND	ND	ND	ND	ND	ND	1.5	ND
PCB-1254	mg/kg	ND	ND	ND	ND	ND	2.9	ND	1.6	6.4
PCB-1260	mg/kg	1.3	18	9.3	9.2	12	27	66	5.4	86
TPH-Gasoline 8015M										
TPH-G	mg/kg	NA	NA	NA	NA	NA	NA	121	61J	11
Ignitability of Solids, 1030										
Ignitability	P/F	NA	NA	NA	NA	NA	NA	Passes	Passes	Passes
VOCs 8260B										
1,2,4-Trichlorobenzene	ug/kg	ND	ND	ND	ND	ND	4,610	5,270	60	ND
1,2,4-Trimethlybenzene	ug/kg	96,600	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethlybenzene	ug/kg	34,300	ND	ND	ND	ND	ND	4,000	ND	ND
2-Butanone(MEK)	ug/kg	ND	ND	ND	ND	11	ND	ND	ND	ND
Acetone	ug/kg	ND	ND	ND	ND	29	ND	ND	ND	ND
Benzene	ug/kg	3,740	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	ug/kg	30,000	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	ug/kg	8,450	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	ug/kg	10,900	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	ug/kg	15,100	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/kg	31,700	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ug/kg	ND	ND	ND	ND	3	ND	ND	ND	ND
p-Isopropyltoluene	ug/kg	12,900	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/kg	80,300	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes, total	ug/kg	153,000	ND	ND	ND	ND	ND	813	116	ND
SVOCs, 8270C										
1,2,4-Trichlorobenzene	ug/kg	ND	ND	ND	ND	ND	4,000	4,500	ND	2,770
2-Methylnapthalene	ug/kg	351,000	ND	ND	ND	ND	ND	2,620	17,500	10,300
bis(2-ethylhexyl)phthalate	ug/kg	275,000	1,170	1,110	1,070	ND	1,540	1,110	ND	ND
benzo(a)anthracene	ug/kg	ND	ND	ND	ND	ND	ND	ND	ND	5,950
Chrysene	ug/kg	ND	ND	ND	ND	ND	ND	ND	ND	6,570
Naphthalene	ug/kg	13,900	ND	ND	ND	ND	ND	ND	6,130	ND
Fluoranthene	ug/kg	ND	ND	ND	ND	ND	ND	ND	ND	7,220
Fluorene	ug/kg	ND	ND	ND	ND	ND	ND	ND	3,820	3,980
Phenanthrene	ug/kg	133,000	ND	ND	ND	ND	2,080	1,370	5,540	12,600
Pyrene	ug/kg	ND	ND	ND	ND	ND	1,830	1,420	4,460	ND

ND -- Not detected at or above the reporting limit
Note: Other compounds not detected

TABLE 9
SUMMARY OF CONTAINER DATA
(Metals)
Former Dico Oil, Signal Hill, CA

			CAM Metals															
Sample ID	Location	Container ID	Arsenic (mg/kg)	Barium (mg/kg)	Beryllium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Cobalt (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Molybdenum (mg/kg)	Nickel (mg/kg)	Silver (mg/kg)	Vanadium (mg/kg)	Zinc (mg/kg)	STLC Lead (mg/l)	TCLP Lead (mg/l)
RO-8	Roll-off 8	CWI-10	8.31	185	0.466	0.995	17.4	6.53	27.4	93.6	0.75	2.58	12.4	0.694	25.2	131	3.04	NA
RO-9	Roll-off 9	MVI-103	7.88	228	0.311	0.801	17.7	6.02	24.1	145	0.31	2.05	16	0.124	25.8	131	3.08	0.019
RO-9 Dup	Roll-off 9	MVI-103	6.43	139	0.447	0.844	14.5	6.85	23.9	93.5	0.32	0.904	13.1	0.257	23.8	118	NA	NA
RO-10	Roll-off 10	MVI-188	7.81	193	0.377	0.841	16	6.06	24.3	122	0.58	1.1	12.7	0.293	26.6	160	4.73	1.97
RO-11	Roll-off 11	MVI-108	5.42	83.8	0.465	0.468	10.6	5.83	10.7	40.6	0.072	ND	7.8	ND	20.1	61.4	NA	NA
RO-12	Roll-off 12	MVI-193	6.8	91.6	0.391	0.549	12.5	6.09	14.5	87.8	0.069	0.575	8.03	0.143	23.1	78.7	2.31	NA
RO-13	Roll-off 13	CWI-5	5.24	83.9	0.437	0.399	12.8	5.53	8.65	40	0.055	ND	8.58	0.393	21.7	53.3	NA	NA
RO-14	Roll-off 14	MVI-215	4.17	254	ND	1.97	21.2	7.3	130	378	0.52	3.58	20.8	0.972	20.6	254	2.39	ND
Drum Comp-2	Drums	NA	18.3	474	ND	20.4	45.5	4.72	490	7240	0.29	66.7	21	ND	17.2	1690	NA	22.4

TABLE 10
SUMMARY OF SOIL QA/QC DATA
Former Dico Oil, Signal Hill, CA

Sample ID	PCB-1242 (mg/kg)	PCB-1248 (mg/kg)	PCB-1254 (mg/kg)	PCB-1260 (mg/kg)	TPH Diesel (mg/kg)	TPH Oil (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	TPH Gasoline (mg/kg)
Comp-16	ND	0	ND	**5.3**	**947**	**4,470**	**34.9**	**311**	NA
Comp-16 DUP	ND	**0.92**	ND	**6.6**	**1,040**	**5,300**	**36.7**	**333**	NA
B-6-2'	ND	ND	ND	ND	ND	ND	**12.5**	**2.12**	NA
B-6-2' Dup	ND	ND	ND	ND	ND	ND	**12.1**	**1.88**	NA
Con-Comp-1	ND	ND	ND	ND	ND	ND	**13.7**	**3.42**	NA
Con-Comp-1 Dup	ND	ND	ND	ND	ND	ND	**13.3**	**3.03**	NA
Comp-46	**0.49**	ND	**0.53**	**0.94**	**14,400**	**5,030**	**16.3**	**26.2**	NA
Comp-46 Dup	**0.46**	ND	**0.46**	**0.81**	**13,800**	**3,300**	**16.3**	**30**	NA
Comp-27	ND	ND	ND	0	ND	**5**	**15.8**	**2.89**	NA
Comp-27 Dup	ND	ND	ND	**0.11**	ND	**7**	**16.5**	**3.15**	NA
Comp-53	**0.31**	ND	**0.28**	ND	**1,430**	**700**	**18.9**	**2.7**	NA
Comp-53 Dup	**0.34**	ND	**0.18**	ND	**941**	**500**	**19.7**	**2.8**	NA
Comp-51	ND	ND	ND	ND	**3.2**	**13**	**11.8**	**1.95**	NA
Comp-51 Dup	ND	ND	ND	ND	**3**	**6**	**11.9**	**2.14**	NA
Comp-38	ND	ND	ND	**0.067**	ND	ND	**12.6**	**1.53**	NA
Comp-38 Dup	ND	ND	ND	**0.082**	ND	ND	**12.5**	**1.45**	NA
Comp-57	ND	ND	ND	**0.031**	ND	0	**15.4**	**2.04**	NA
Comp-57 Dup	ND	ND	ND	**0.037**	ND	**10**	**16.3**	**2.65**	NA
Comp-64	ND	ND	ND	**0.07**	**34**	**260**	NA	NA	ND
Comp-64 Dup	ND	ND	ND	**0.07**	**68**	**560**	NA	NA	ND
Comp-78	ND	ND	ND	**21**	**5040**	ND	NA	NA	NA
Comp-DUP	ND	ND	ND	**21**	**5450**	ND	NA	NA	NA
Comp- 83	ND	ND	ND	**250**	NA	NA	NA	NA	NA
Comp- 83 Dup	ND	ND	ND	**240**	NA	NA	NA	NA	NA
TB-1	ND	ND	ND	ND	ND	ND	**3.38**	**0.744**	NA
FB-1	ND	ND	ND	ND	ND	NA	**2.54**	**ND**	NA
EB-2	ND	ND	ND	ND	ND	ND	ND	ND	NA

mg/kg = milligram per kilogram
ND = Not Detected
NA = Not Analyzed

TABLE 11

SUMMARY OF EXCAVATION DEPTHS
Former Dico Oil, Signal Hill, CA
(Page 1 of 2)

Grids	Waste classification	Reason	Length (feet)	Width (feet)	Depth (feet)	Volume (cubic feet)	Volume (cubic yards)
B57, B58, B59, B60, B61, B61, B63, B64, B65	TSCA	PCB > 50 mg/kg	30	30	0.5	450	16.67
B66, B67, B68, B71, B72, B73	TSCA	PCB > 50 mg/kg	30	20	2.0	1200	44.44
B24, B25, B34, B35	TSCA	PCB> 50 mg/kg	20	20	5.0	2000	74.07
B69, B70, B74, B75, B76, B77, B78, B79 B80	non-RCRA, California Designated	STLC > 5 mg/L	-	-	0.5	900	33.33
Approximate total cubic yards							**168.52**
B7, B8, B9, B10, B11, B12, B13 B14, B15, B20,B21, B89, B90, B40, B41, B42, B43, B50, B51, B52, B53	non-RCRA, California Designated	PCBs	210	10	0.5	1050	38.89
B16	non-RCRA, California Designated	PCBs	10	10	4.0	400	14.81
B101	non-RCRA, California Designated	PCBs, diesel	10	10	16.0	1600	59.26
B26, B36	non-RCRA, California Designated	PCBs, diesel	10	10	20.0	2000	74.07
B102, B103	non-RCRA, California Designated	PCBs, diesel	20	10	20.0	4000	148.15
B24, B34	non-RCRA, California Designated	PCBs, diesel	20	10	12.0	2400	88.89
B25, B35	non-RCRA, California Designated	PCBs, diesel	20	10	15.0	3000	111.11
B22, B23,	non-RCRA, California Designated	PCBs, diesel	20	10	6.0	1200	44.44
B32, B33	non-RCRA, California Designated	PCBs, diesel	20	10	6.0	1200	44.44
B30, B31	non-RCRA, California Designated	PCBs, diesel	20	10	12.0	2400	88.89
B17	non-RCRA, California Designated	PCBs, diesel	10	20	14.0	2800	103.70
B27	non-RCRA, California Designated	PCBs, diesel	10	10	20.0	2000	74.07
B18, B28	non-RCRA, California Designated	PCBs, diesel	20	10	15.0	3000	111.11
B19, B29	non-RCRA, California Designated	PCBs, diesel	20	10	10.0	2000	74.07
B86, B87, B88	non-RCRA, California Designated	PCBs, diesel	30	10	17.0	5100	188.89
B37, B47	non-RCRA, California Designated	PCBs, diesel	20	10	20.0	4000	148.15
B38, B48	non-RCRA, California Designated	PCBs, diesel	20	10	16.0	3200	118.52

TABLE 11

SUMMARY OF EXCAVATION DEPTHS
Former Dico Oil, Signal Hill, CA
(Page 2 of 2)

B39	non-RCRA, California Designated	PCBs, diesel	10	10	15.0	1500	55.56
B49	non-RCRA, California Designated	PCBs, diesel	10	10	20.0	2000	74.07
B44	non-RCRA, California Designated	PCBs, diesel	10	10	6.0	600	22.22
B45, B46	non-RCRA, California Designated	PCBs, diesel	20	10	3.0	600	22.22
B54	non-RCRA, California Designated	PCBs, diesel	10	10	2.0	200	7.41
B55, B56	non-RCRA, California Designated	PCBs, diesel	20	10	2.0	400	14.81
B104, B105	non-RCRA, California Designated	PCBs, diesel	0	0	0.0	0	0.00
B114, B115	non-RCRA, California Designated	PCBs, diesel	20	10	2.0	400	14.81
B57, B58, B59, B60, B61, B62, B63, B64, B65	non-RCRA, California Designated	PCBs, diesel	30	30	1.5	1350	50.00
B84	non-RCRA, California Designated	Diesel	10	10	2.0	200	7.41
B2	non-RCRA, California Designated	PCBs	5	5	1.0	25	0.93
Total							**1800.93**

TABLE 12
CONFIRMATION SOIL SAMPLE SUMMARY
Former Dico Oil, Signal Hill, CA
(Page 1 of 3)

Confirmation Sample ID	Sample Location and Estimated Depth	Discrete Sample Ids	Analytical Parameter
CS-1	Bottom – 6"	B-7A, B-7B, B-7C, B-7D B-8A, B-8B, B-8C, B-8D	PCBs USEPA Method 8082
CS-2	Bottom – 6"	B-9A, B-9B, B-9C, B-9D B-10A, B-10B, B-10C, B-10D	PCBs USEPA Method 8082
CS-3	Bottom – 6"	B-11A, B-11B, B-11C, B-11D B-12A, B-12B, B-12C, B-12D	PCBs USEPA Method 8082; TPH-d USEPA Method 8015M
CS-4	Bottom – 6"	B-13A, B-13B, B-13C, B-13D B-14A, B-14B, B-14C, B-14D	PCBs USEPA Method 8082; THP-d USEPA Method 8015M
CS-5	Bottom – 6"	B-15A, B-15B, B-15C, B-15D	PCBs USEPA Method 8082
CS-6	Bottom – 6"	B-20A, B-20B, B-20C, B-20D B-21A, B-21B, B-21C, B-21D	PCBs USEPA Method 8082 THP-o USEPA Method 8015M
CS-7	Bottom – 6"	B-89A, B-89B, B-89C, B-89D B-90A, B-90B, B-90C, B-90D	PCBs USEPA Method 8082
CS-8	Bottom – 6"	B-40A, B-40B, B-40C, B-40D B-41A, B-41B, B-41C, B-41D	PCBs USEPA Method 8082
CS-9	Bottom – 6"	B-42A, B-42B, B-42C, B-42D B-43A, B-43B, B-43C, B-43D	PCBs USEPA Method 8082, THP-d USEPA Method 8015M
CS-10	Bottom – 6"	B-50A, B-50B, B-50C, B-50D B-51A, B-51B, B-51C, B-51D	PCBs USEPA Method 8082
CS-11	Bottom – 6"	B-52A, B-52B, B-52C, B-52D B-53A, B-53B, B-53C, B-53D	PCBs USEPA Method 8082, THP-d USEPA Method 8015M
CS-12	Bottom – 4'	B-16A, B-16B, B-16C, B-16D	PCBs USEPA Method 8082
CS-13	Bottom – 6'	B-22A, B-22B, B-22C, B-22D B-23A, B-23B, B-23C, B-23D	PCBs USEPA Method 8082, THP-d USEPA Method 8015M
CS-14	Bottom – 6'	B-32A, B-32B, B-32C, B-32D B-33A, B-33B, B-33C, B-33D	THP-d USEPA Method 8015M
CS-15	Bottom – 3'	B-45A, B-45B, B-45C, B-45D B-46A, B-46B, B-46C, B-46D	PCBs USEPA Method 8082
CS-16	Bottom – 2'	B-55A, B-55B, B-55C, B-55D B-56A, B-56B, B-56C, B-56D	PCBs USEPA Method 8082
CS-17	Bottom – 2'	B-54A, B-54B, B-54C, B-54D	PCBs USEPA Method 8082
CS-18	Bottom – 2'	B-57A, B-57B, B-57C, B-57D B-58A, B-58B, B-58C, B-58D	PCBs USEPA Method 8082

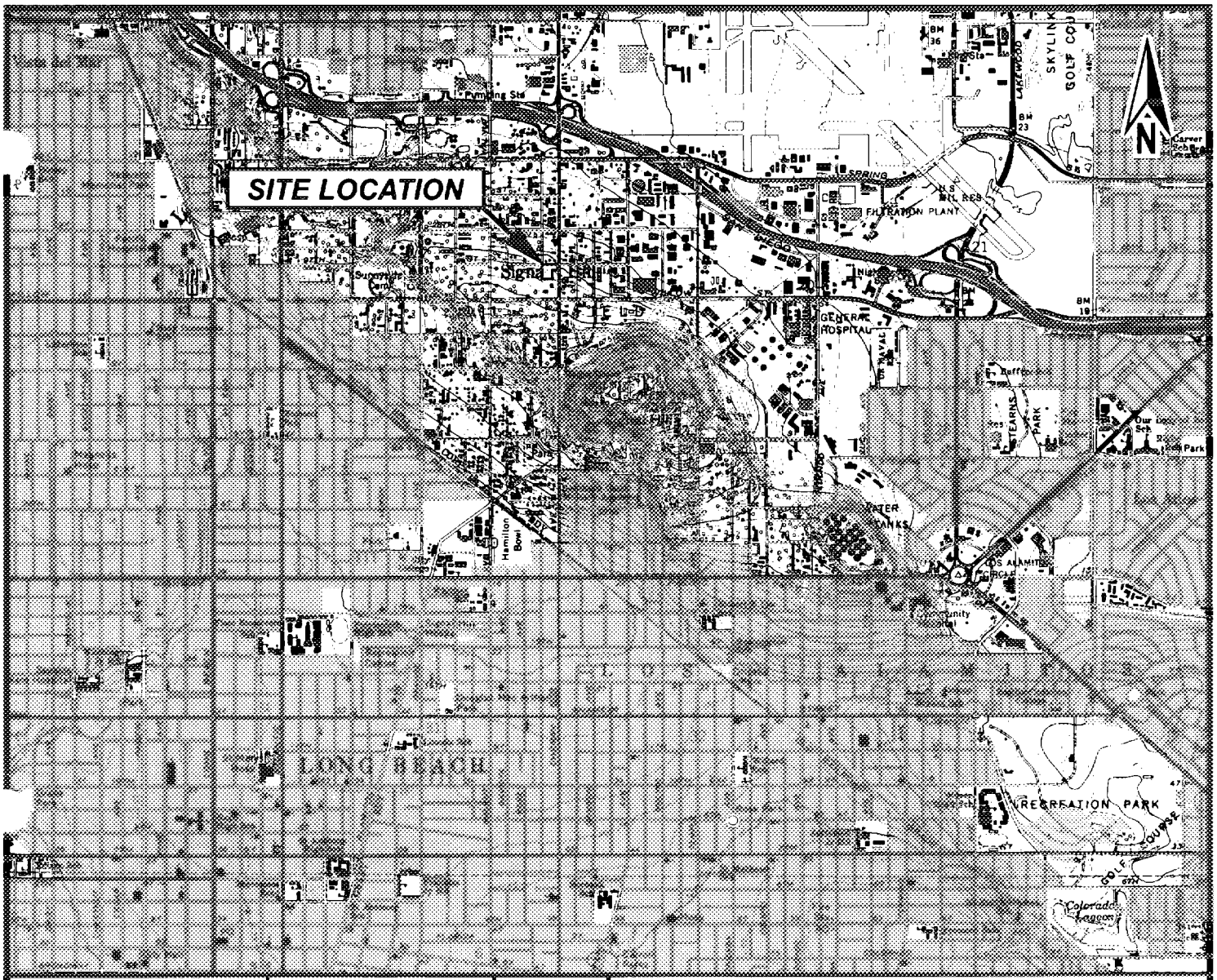
TABLE 12
PROPOSED CONFIRMATION SOIL SAMPLE SUMMARY
Former Dico Oil, Signal Hill, CA
(Page 2 of 3)

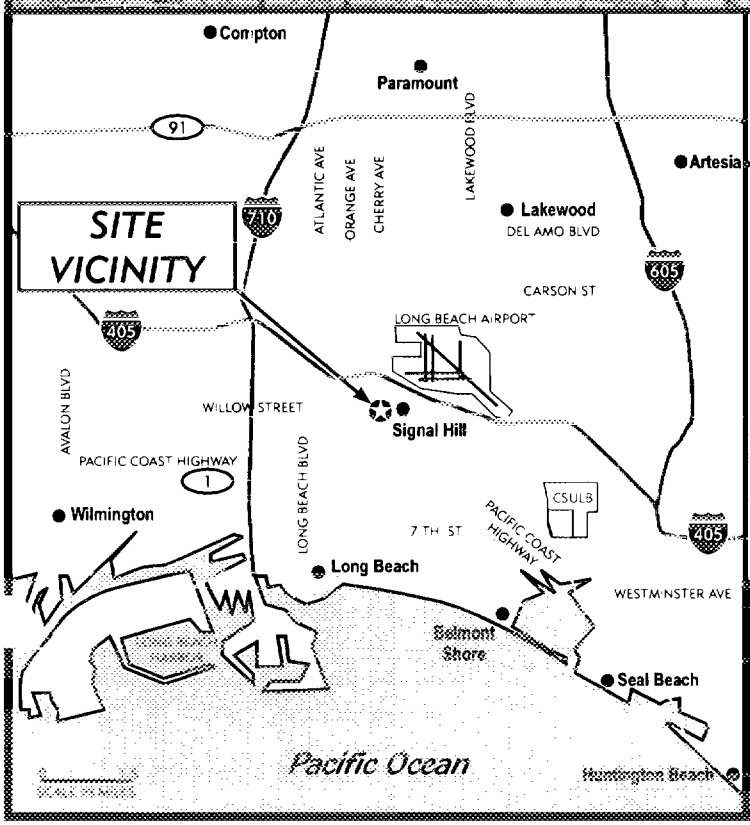
Confirmation Sample ID	Sample Location and Estimated Depth	Discrete Sample Ids	Analytical Parameter
CS-19	Bottom – 2'	B-59A, B-59B, B-59C, B-59D B-62A, B-62B, B-62C, B-62D	PCBs USEPA Method 8082
CS-20	Bottom – 2'	B-60A, B-60B, B-60C, B-60D B-61A, B-61B, B-61C, B-61D	PCBs USEPA Method 8082
CS-21	Bottom – 2'	B-63A, B-63B, B-63C, B-63D B-64A, B-64B, B-64C, B-64D	PCBs USEPA Method 8082
CS-22	Bottom – 2'	B-65A, B-65B, B-65C, B-65D	PCBs USEPA Method 8082
CS-23	Bottom – 6"	B-114A, B-114B, B-114C, B-114D, B-115A, B-115B, B-115C, B-115D	PCBs USEPA Method 8082
CS-24	Bottom – 2'	B-66A, B-66B, B-66C, B-66D B-71A, B-71B, B-71C, B-71D	PCBs USEPA Method 8082
CS-25	Bottom – 2'	B-67A, B-67B, B-67C, B-67D, B-72A, B-72B, B-72C, B-72D	PCBs USEPA Method 8082
CS-26	Bottom – 2'	B-68A, B-68B, B-68C, B-68D, B-73A, B-73B, B-73C, B-73D	PCBs USEPA Method 8082
CS-27	Bottom – 10'	B-30A, B-30B, B-30C, B-30D B-31A, B-31B, B-31C, B-31D	PCBs USEPA Method 8082, THP-d USEPA Method 8015M
CS-28	Bottom – 14'	B-17A, B-17B, B-17C, B-17D	PCBs USEPA Method 8082; THP-d USEPA Method 8015M
CS-29	Bottom – 20'	B-27A, B-27B, B-27C, B-27D	PCBs USEPA Method 8082; THP-d USEPA Method 8015M
CS-30	Bottom – 15'	B-18A, B-18B, B-18C, B-18D B-28A, B-28B, B-28C, B-28D	PCBs USEPA Method 8082; THP-d USEPA Method 8015M
CS-31	Bottom – 10'	B-19A, B-19B, B-19C, B-19D B-29A, B-29B, B-29C, B-29D	PCBs USEPA Method 8082; THP-d USEPA Method 8015M
CS-32	Bottom – 20'	B-88A, B-88B, B-88C, B-88D	PCBs USEPA Method 8082, THP-d USEPA Method 8015M
CS-33	Bottom – 20'	B-86A, B-86B, B-86C, B-86D B-87A, B-87B, B-87C, B-87D	PCBs USEPA Method 8082
CS-34	Bottom – 20'	B-37A, B-37B, B-37C, B-37D B-47A, B-47B, B-47C, B-47D	PCBs USEPA Method 8082, THP-d USEPA Method 8015M
CS-35	Bottom – 16'	B-38A, B-38B, B-38C, B-38D B-48A, B-48B, B-48C, B-48D	PCBs USEPA Method 8082; THP-d USEPA Method 8015M
CS-36	Bottom – 15'	B-39A, B-39B, B-39C, B-39D	PCBs USEPA Method 8082
CS-37	Bottom – 20'	B-49A, B-49B, B-49C, B-49D	PCBs USEPA Method 8082
CS-38	Bottom – 12'	B-24A, B-24B, B-24C, B-24D	PCBs USEPA Method 8082; THP-d USEPA Method 8015M

TABLE 12
PROPOSED CONFIRMATION SOIL SAMPLE SUMMARY
Former Dico Oil, Signal Hill, CA
(Page 3 of 3)

Confirmation Sample ID	Sample Location and Estimated Depth	Discrete Sample Ids	Analytical Parameter
		B-34A, B-34B, B-34C, B-34D	
CS-39	Bottom – 15'	B-25A, B-25B, B-25C, B-25D B-35A, B-35B, B-35C, B-35D	PCBs USEPA Method 8082; THP-d USEPA Method 8015M
CS-40	Bottom – 6'	B-44A, B-44B, B-44C, B-44D	PCBs USEPA Method 8082; THP-d USEPA Method 8015M
CS-41	Bottom	B-101A, B-101B, B-101C, B-101D	PCBs USEPA Method 8082; THP-d USEPA Method 8015M
CS-42	Bottom – 16'	B-101A, B-101B, B-101C, B-101D	PCBs USEPA Method 8082; THP-d USEPA Method 8015M
CS-43	Bottom – 20'	B-26A, B-26B, B-26C, B-26D B-36A, B-36B, B-36C, B-36D	PCBs USEPA Method 8082; THP-d USEPA Method 8015M
CS-44	Bottom – 20'	B-102A, B-102B, B-102C, B-102D, B-103A, B-103B, B-103C, B-103D	PCBs USEPA Method 8082; THP-d USEPA Method 8015M
CS-45	Bottom – 6"	B-2	PCBs USEPA Method 8082; Lead USEPA Method 6010B/7000
CS-46	Bottom – 6"	B-69, B-70, B-74, B-75, B-76	Lead USEPA Method 6010B/7000
CS-47	Bottom – 6"	B-77, B-78, B-79, B-80	Lead USEPA Method 6010B/7000

FIGURES





0 ½ 1

BASE MAP: U.S. Geological Survey 7.5 Minute Series Long Beach, CA Quadrangle 1964, Photorevised 1981

Scale (Miles)

M&A Meredith & Associates, Inc.
Scientific, Environmental Engineering, and Regulatory Consultants

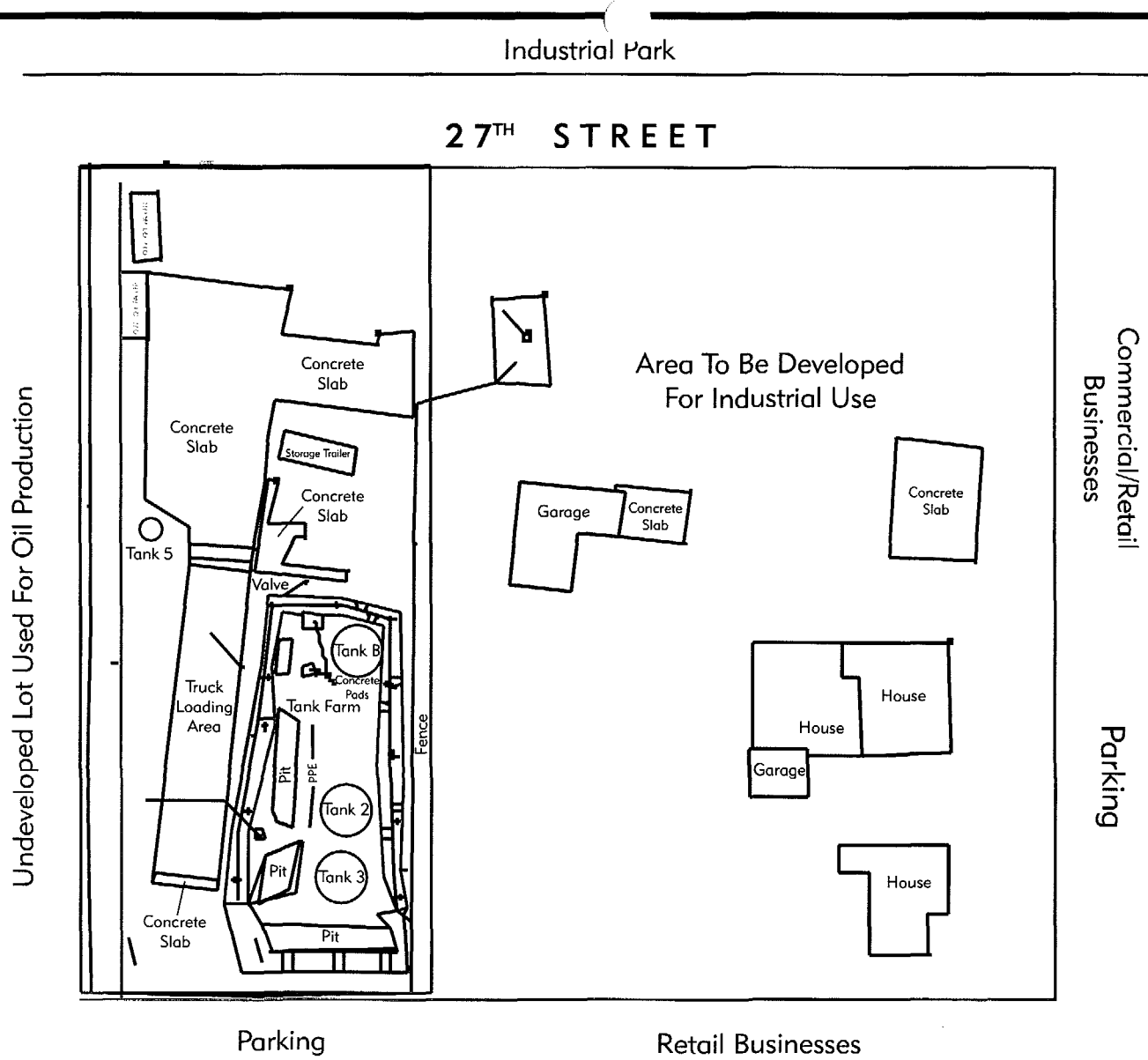
DICO OIL COMPANY SITE
1845 EAST WILLOW STREET
SIGNAL HILL, CALIFORNIA

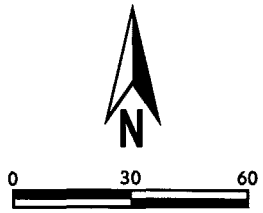
SITE LOCATION MAP

FIGURE 1

2003-123

03/01/04





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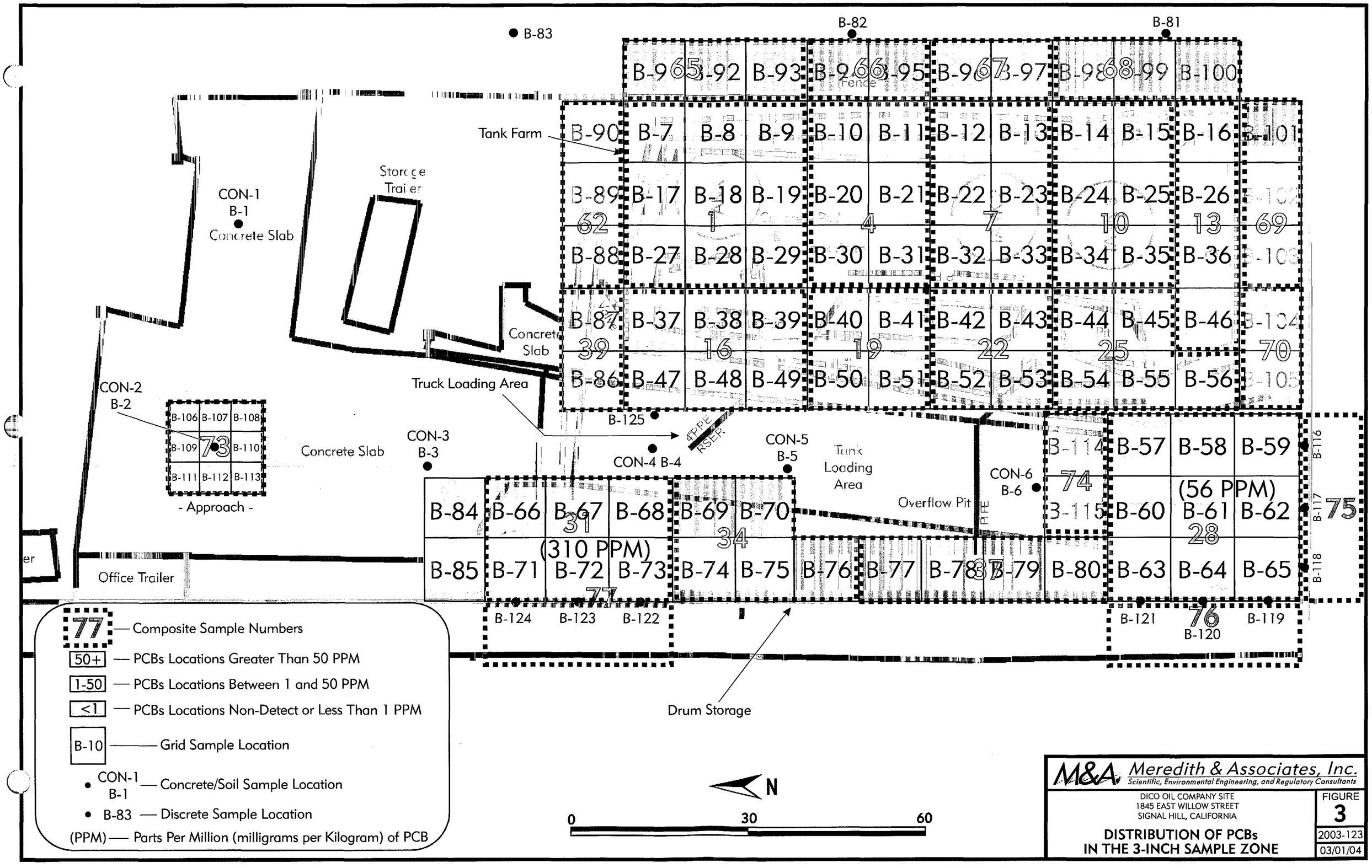
DICO OIL COMPANY SITE
1845 EAST WILLOW STREET
SIGNAL HILL, CALIFORNIA

SITE PLAN AND ADJACENT LAND USE

FIGURE 2

2003-123

03/01/04



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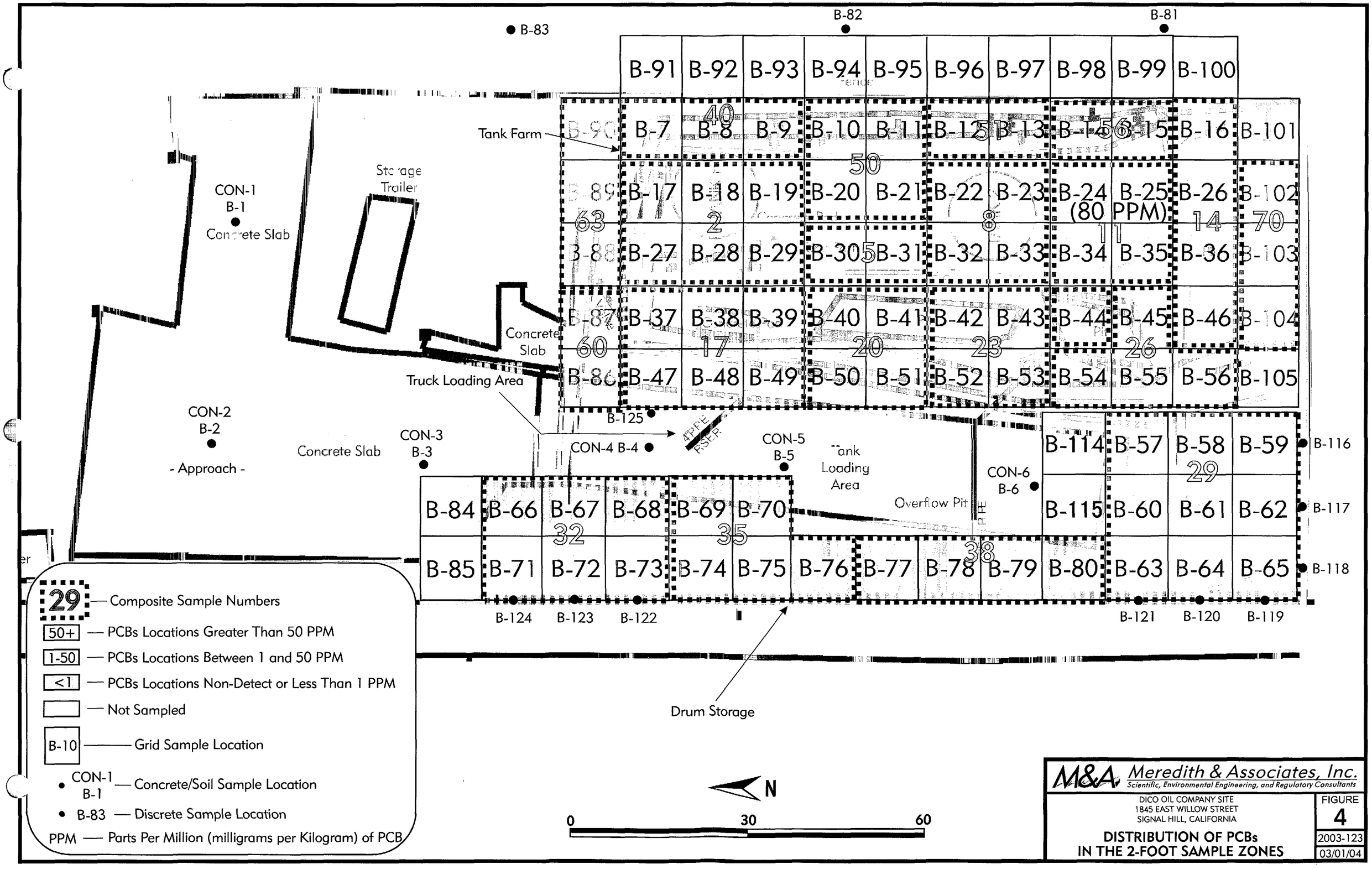
DICO OIL COMPANY SITE
1845 EAST WILLOW STREET
SIGNAL HILL, CALIFORNIA

DISTRIBUTION OF PCBs IN THE 3-INCH SAMPLE ZONE

FIGURE 3

2003-123

03/01/04



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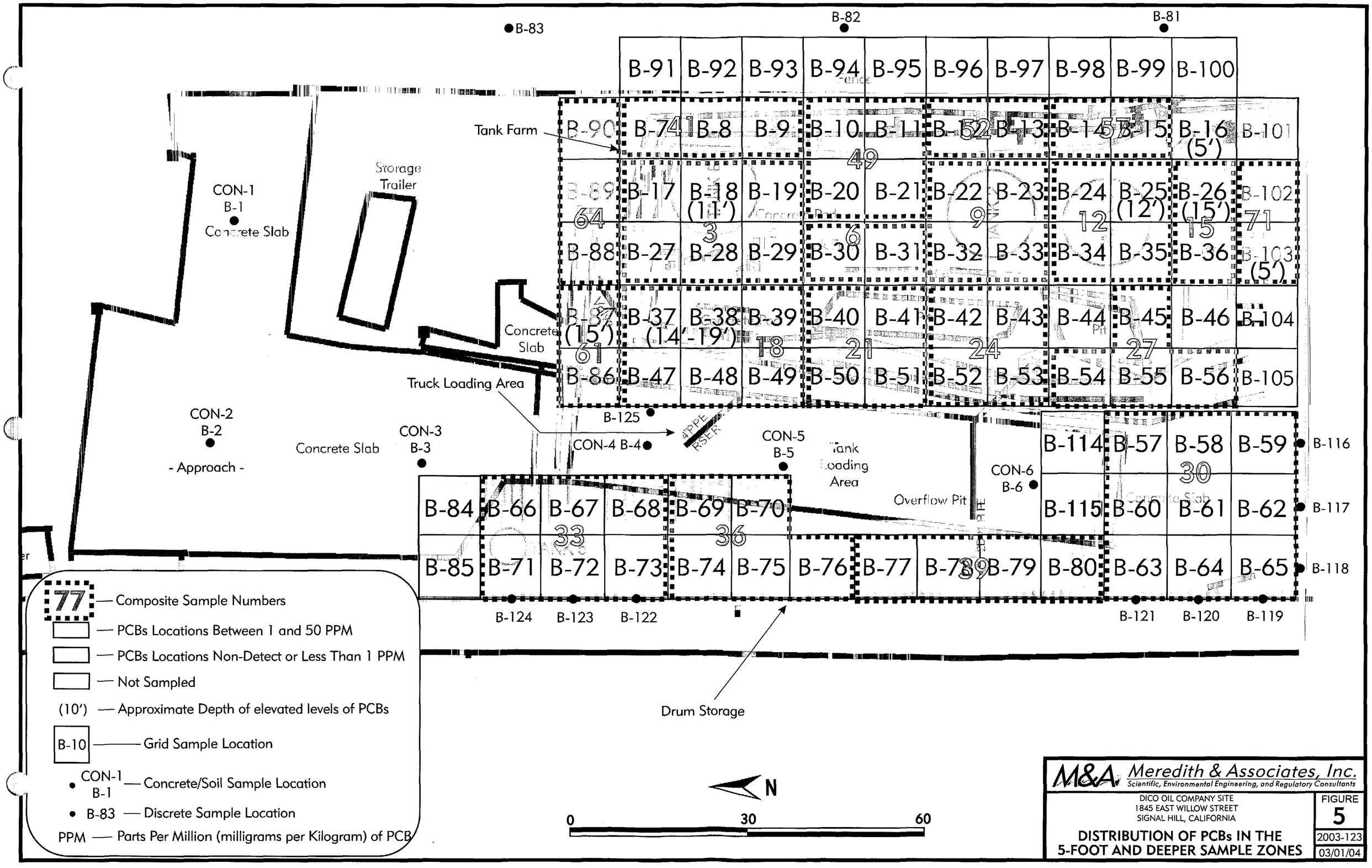
DICO OIL COMPANY SITE
1845 EAST WILLOW STREET
SIGNAL HILL, CALIFORNIA

DISTRIBUTION OF PCBs IN THE 2-FOOT SAMPLE ZONES

FIGURE 4

2003-123

03/01/04



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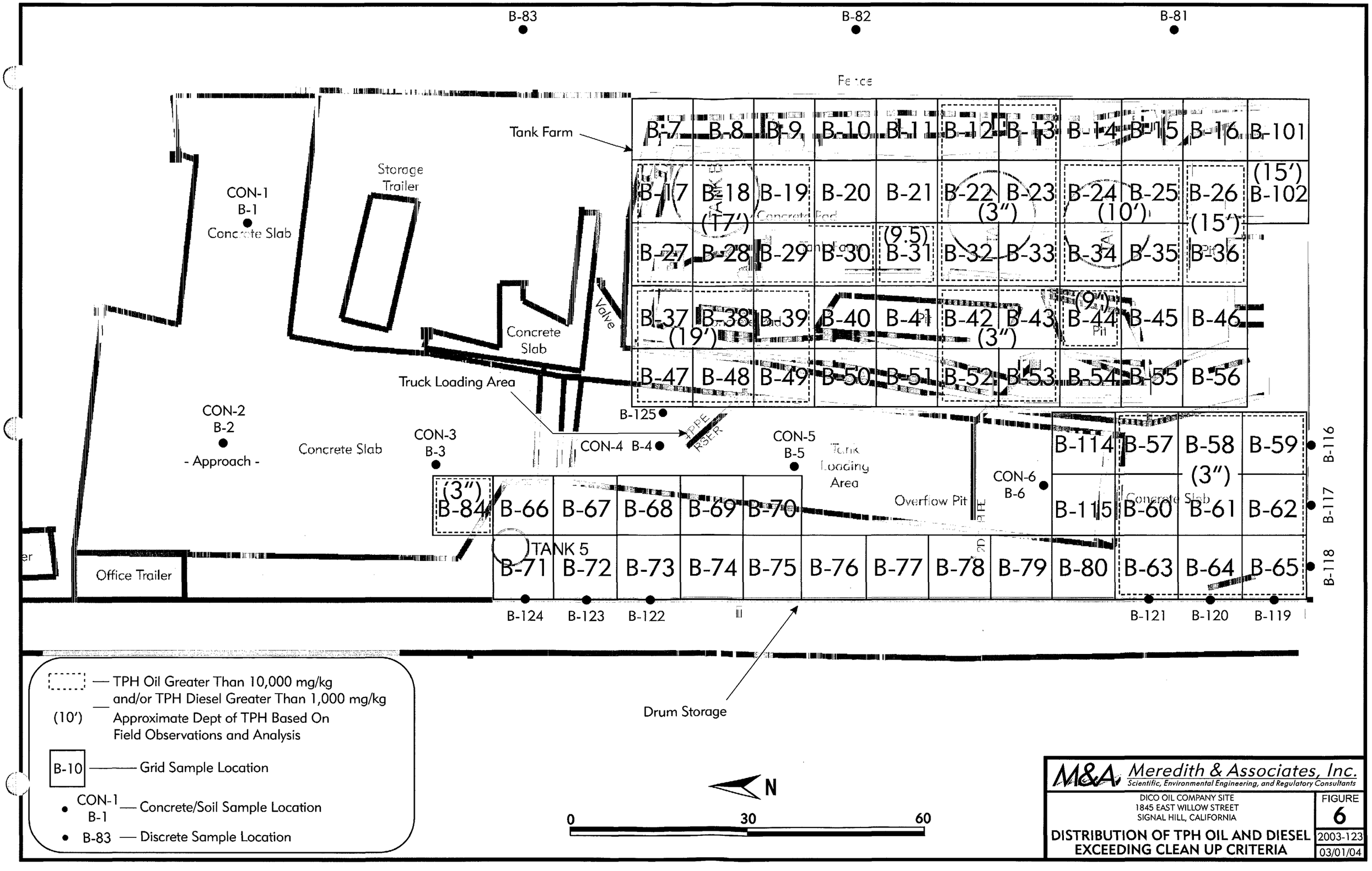
DICO OIL COMPANY SITE
1845 EAST WILLOW STREET
SIGNAL HILL, CALIFORNIA

DISTRIBUTION OF PCBs IN THE 5-FOOT AND DEEPER SAMPLE ZONES

FIGURE 5

2003-123

03/01/04



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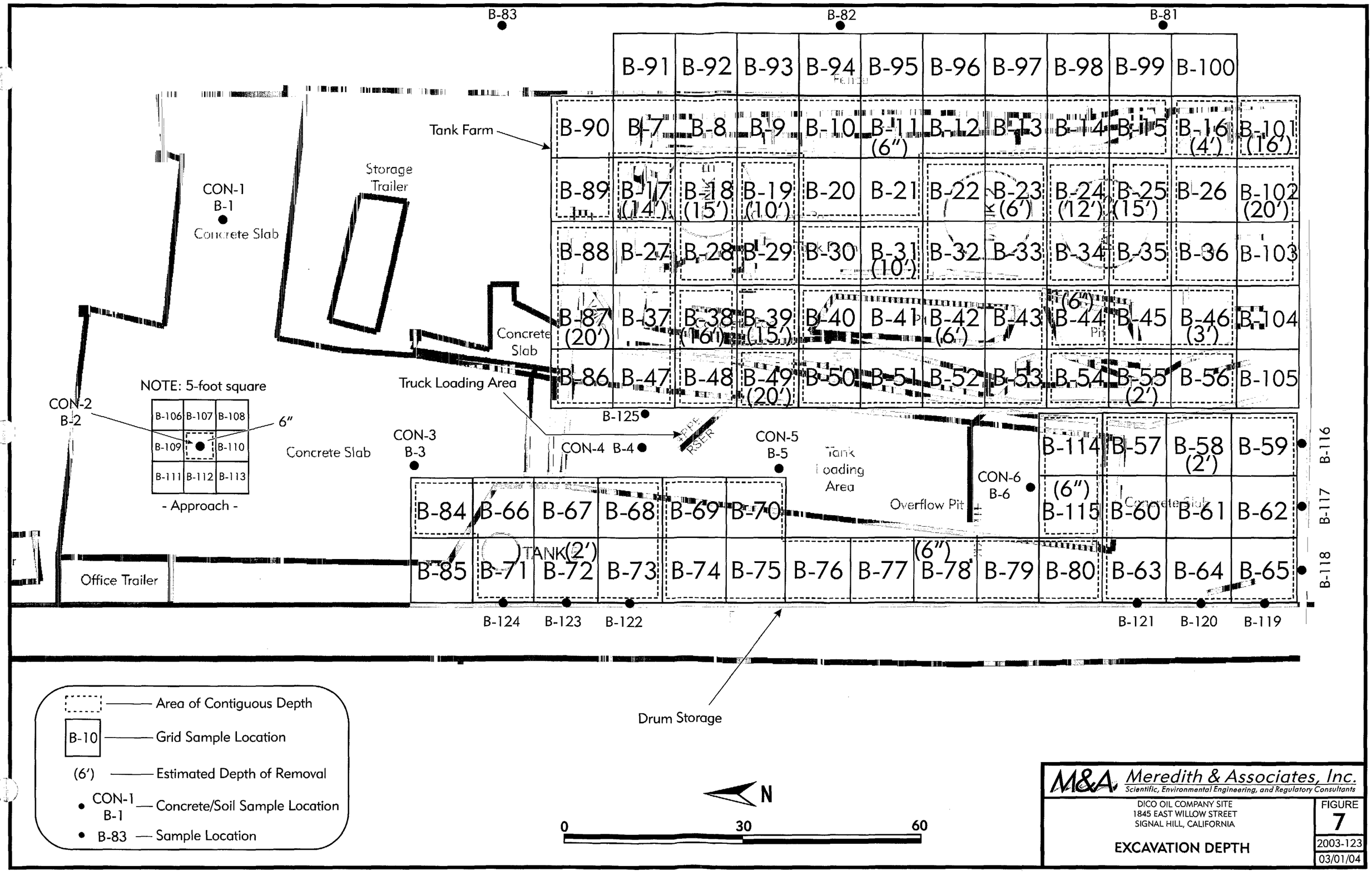
DICO OIL COMPANY SITE
1845 EAST WILLOW STREET
SIGNAL HILL, CALIFORNIA

DISTRIBUTION OF TPH OIL AND DIESEL EXCEEDING CLEAN UP CRITERIA

FIGURE 6

2003-123

03/01/04



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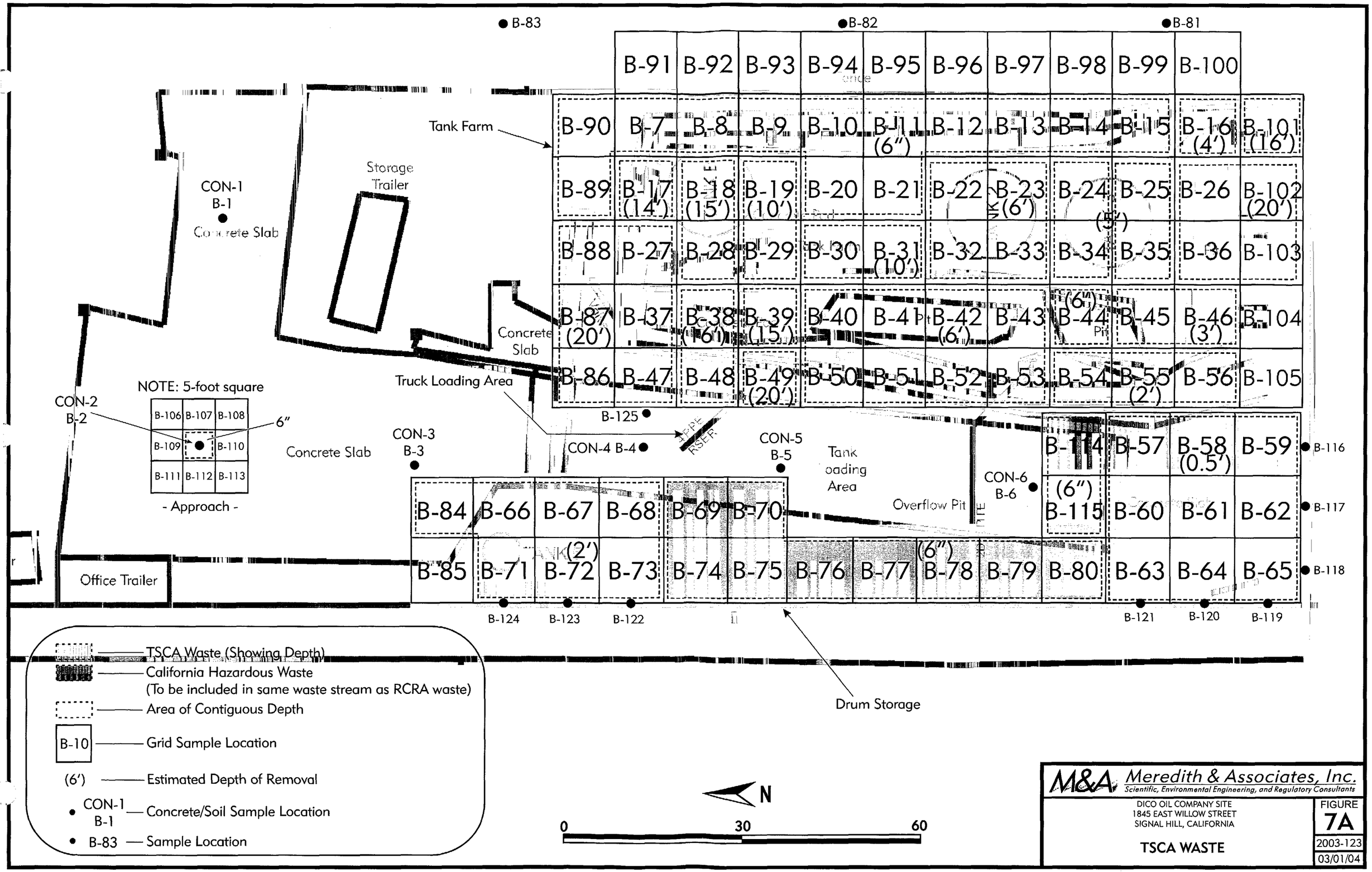
DICO OIL COMPANY SITE
1845 EAST WILLOW STREET
SIGNAL HILL, CALIFORNIA

EXCAVATION DEPTH

FIGURE 7

2003-123

03/01/04



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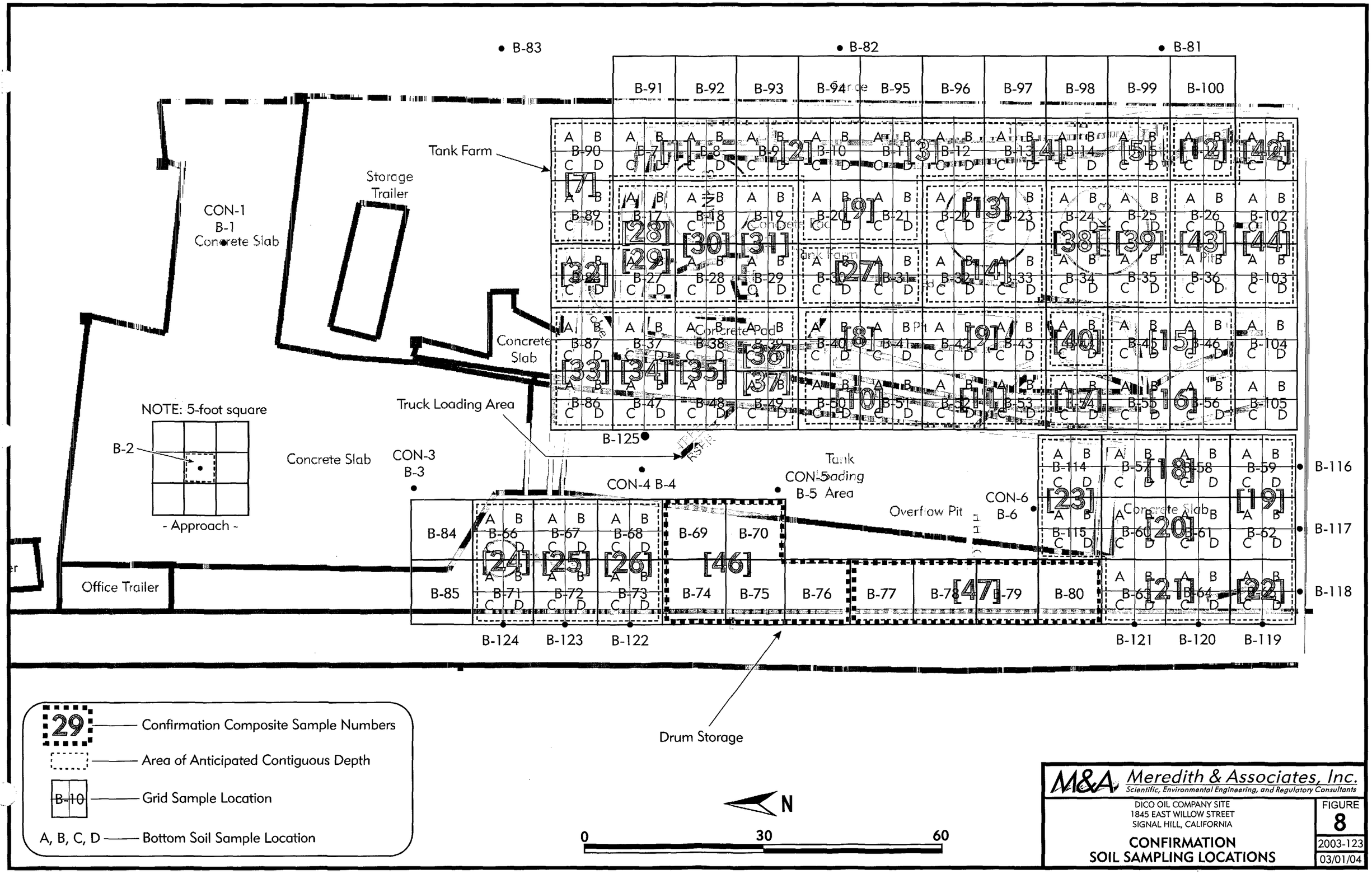
DICO OIL COMPANY SITE
1845 EAST WILLOW STREET
SIGNAL HILL, CALIFORNIA

TSCA WASTE

FIGURE **7A**

2003-123

03/01/04


B-83
B-82
B-81
B-91
B-92
B-93
B-94
B-95
B-96
B-97
B-98
B-99
B-100
Tank Farm
Storage Trailer
CON-1
B-1
Concrete Slab
Concrete Slab
Truck Loading Area
NOTE: 5-foot square
B-2
- Approach -
Concrete Slab
CON-3
B-3
CON-4 B-4
Tank Loading
CON-5
B-5 Area
Overflow Pit
CON-6
B-6
Office Trailer
B-125
B-116
B-117
B-118
B-84
B-85
B-69
B-70
B-74
B-75
B-76
B-77
B-78
B-79
B-80
B-124
B-123
B-122
B-121
B-120
B-119
Drum Storage
29 — Confirmation Composite Sample Numbers
Area of Anticipated Contiguous Depth
B-10 — Grid Sample Location
A, B, C, D — Bottom Soil Sample Location
N
0
30
60
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DICO OIL COMPANY SITE
1845 EAST WILLOW STREET
SIGNAL HILL, CALIFORNIA
CONFIRMATION
SOIL SAMPLING LOCATIONS
FIGURE
8
2003-123
03/01/04

APPENDIX A

COURT ORDER AND ACTION MEMORANDUM

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX

IN THE MATTER OF: Dico Oil Company, Inc., Luis Marmol, an individual and Richard Cowan, an individual Proceeding Under Section 106(a) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, 42 U.S.C. § 9606(a).	U.S. EPA Docket No. 9-2003-14 UNILATERAL ADMINISTRATIVE ORDER FOR THE PERFORMANCE OF A REMOVAL ACTION

I. AUTHORITY

This Unilateral Administrative Order ("Order") is issued pursuant to the authority vested in the President of the United States by Section 106(a) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, 42 U.S.C. § 9606(a), as amended by the Superfund Amendments and Reauthorization Act of 1986, and the Small Business Liability Relief and Brownfields Revitalization Act of 2002 ("CERCLA"). The President delegated this authority to the Administrator of the United States Environmental Protection Agency ("EPA" or "Agency") by Executive Order 12580, January 23, 1987, 52 Fed. Reg. 2923, and further delegated it to the Assistant Administrator for Solid Waste and Emergency Response and the Regional Administrators by EPA Delegation Nos. 14-14-A and 14-14-B. This authority has been duly redelegated to the Branch Chief, Superfund Division, EPA Region 9 ("Branch Chief"), by a delegation dated November 16, 2001.

II. PARTIES BOUND

1. This Order shall apply to and be binding on the following: Dico Oil Company, Inc., a California corporation, Luis Marmol in his individual and personal capacity, and Richard Cowan in his individual and personal capacity (collectively "Respondents"). This Order shall be binding on Respondents, their agents, successors and assigns. No change in ownership or operational status will alter Respondents' obligations under this Order. Notwithstanding the terms of any contract or agreement, Respondents are responsible for compliance with this Order and for ensuring that their employees, contractors, and agents comply with this Order. Respondents shall provide a copy of this Order to all contractors, subcontractors, and consultants that are retained by Respondents to perform the work required by this Order within three (3) days after the Effective Date of this Order or within three (3) days of retaining their services, whichever is later.

2. Respondents may not convey any title, easement, or other interest they may have, in any property comprising the Site, as the term "Site" is defined below, without a provision permitting the continuous implementation of the provisions of this Order. If Respondents wish to transfer any title, easement, or other interest they may have in any property comprising the Site, Respondents shall provide a copy of this Order to any subsequent owner(s) or successor(s) before any ownership rights are transferred. In such case, Respondents shall advise EPA as soon as practical in advance of any anticipated transfer of interest.

III. DEFINITIONS

3. Unless otherwise expressly provided herein, the terms used in this Order that are defined in CERCLA or in regulations promulgated under CERCLA shall have the meaning assigned to them in CERCLA or in such regulations. Whenever the terms listed below are used

in this Order, or in the exhibits attached hereto and incorporated hereunder, the following definitions shall apply:

"Days" shall mean consecutive calendar days unless expressly stated otherwise. "Working days" shall mean consecutive calendar days other than a Saturday, Sunday, or federal holiday. In computing any period of time under this Order, where the last day would fall on a Saturday, Sunday, or federal holiday, the period shall run until the close of business of the next working day.

"CERCLA" shall mean the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended by the Superfund Amendments and Reauthorization Act of 1986 and by the Small Business Liability Relief and Brownfields Revitalization Act of 2002, 42 U.S.C. § 9601 et seq.

"Unilateral Order" or "Order" shall mean this Unilateral Administrative Order, EPA docket number 9-2003-0014, and all exhibits attached hereto. In the event of a conflict between this Order and any exhibit, this Order shall control.

"EPA" shall mean the United States Environmental Protection Agency and any successor departments or agencies of the United States.

"National Contingency Plan" or "NCP" shall mean the National Oil and Hazardous Substances Pollution Contingency Plan promulgated pursuant to Section 105 of CERCLA, 42 U.S.C. § 9605, codified at 40 C.F.R. Part 300.

"Paragraph" shall mean a portion of this Order identified by an Arabic numeral.

"Response Action" shall be those specific work items Respondents are required to perform at the Site pursuant to this Order, as set forth in Section VII of this Order.

"Respondents" shall mean, both individually and collectively, Dico Oil Company, Inc., Luis Marmol, and Richard Cowan.

"Section" shall mean a portion of this Order identified by a Roman numeral, unless otherwise stated.

"Site" shall mean the former Dico Oil facility located at 1845 E. Willow Street, Signal Hill, California.

"State" shall mean the state of California, and all of its political subdivisions, including the Department of Toxic Substances Control ("DTSC").

"United States" shall mean the United States of America.

IV. FINDINGS OF FACT

4. Dico Oil Company, Inc., ("Dico Oil") operated at the Site from 1960 to 1995. While in operation Dico Oil reprocessed and blended used oils to create marketable fuels. Asphalt emulsions, crude oil, diesel fuels, jet fuel, kerosene and solvents were accepted from various sources and placed into storage tanks for processing and blending. The recycled oil was then sold through brokers to the bunker oil market as ship fuel.

5. The Site is located in a largely commercial zone. Adjacent land use includes retail outlets, office buildings, light industry, oil production and some residences. Site access is unrestricted.

6. The Site is approximately 19,000 square feet and consists of a tank farm, a truck pad, a laboratory, and several tool sheds. The tank farm has three large steel above-ground storage tanks ("AST") and associated above-ground and below-ground piping. A small receiving laboratory structure and tool shed contain several drums. The facility has not been in operation since the mid-1990s and is heavily overgrown with vegetation.

7. The real property is currently owned by Luis Marmol ("Marmol"). Richard Cowan ("Cowan") owned and operated Dico Oil and maintained control over the operations of facility, including decisions regarding the method or means of hazardous substance transportation, delivery, storage, disposal or abandonment. Dico Oil ceased operating in 1995.

8. Several tanks were observed to have external deterioration due to corrosion, cracks, rust spots, blisters and leaking valves. The tank farm has no secondary containment capable of containing any spills or leaks. The loading/offloading piping system is located aboveground and underground with manual control valves. The exposed portions of the piping system are aged with evidence of leakage at coupling joints. Site soils are contaminated with elevated levels of total petroleum hydrocarbons ("TPHs"), polychlorinated biphenyls ("PCBs") (concentrations up to 160 mg/kg), lead (concentrations up to 1,000 mg/kg), and chromium (concentrations up to 76 mg/kg). Tank sludge is contaminated with lead concentrations up to 1,640 mg/kg and chromium concentrations up to 484 mg/kg. Further details related to Site conditions may be found in the Memorandum *Request for a Time-Critical Removal Action at the Dico Waste Oil Site* (the "Action Memorandum"), included with this Order as Appendix B.

9. The facility is currently not operational; all hazardous substances located on site have been abandoned. The Site poses an imminent and substantial endangerment to human health and the environment due to on-going releases and threats of releases of hazardous substances.

10. The administrative record supporting this action is available for review at the EPA, Region 9 offices located at 75 Hawthorne Street, San Francisco, California.

V. CONCLUSIONS OF LAW AND DETERMINATIONS

Based on the Findings of Fact and the Conclusions of Law stated herein, EPA has made the following determinations:

11. The Site is a "facility" as that term is defined in Section 101(9) of CERCLA, 42 U.S.C. § 9601(9).

12. The Respondents Dico Oil, Marmol and Cowan are "persons" as that term is defined in Section 101(21) of CERCLA, 42 U.S.C. § 9601(21).

13. Dico Oil and Cowan were the operators of the facility at the time of disposal of hazardous substances, and are "liable" within the meaning of Section 107(a)(2) of CERCLA, 42 U.S.C. §9607(a)(2), and are subject to this Order under Section 106(a) of CERCLA, 42 U.S.C. §9606(a). Cowan exercised decisionmaking authority over operations at the Site including but not limited to the handling and disposal of hazardous substances. Marmol is the owner of the Site and is "liable" within the meaning of Section 107(a)(1) of CERCLA, 42 U.S.C. § 9607(a)(1), and is subject to this Order under Section 106(a) of CERCLA, 42 U.S.C. § 9606(a).

14. Materials identified in the Action Memorandum including, but not limited to, PCBs, chromium and lead are "hazardous substances" as that term is defined in Section 101(14) of CERCLA, 42 U.S.C. § 9601(14). Hazardous substances disposed, leaking or threatening to leak from the abandoned Site constitute a "release," as that term is defined in Section 101(22) of CERCLA, 42 U.S.C. § 9601(22).

15. The actual or threatened release of hazardous substances from the Site constitutes an imminent and substantial endangerment to the public health or welfare or the environment, within the meaning of Section 106(a) of CERCLA, 42 U.S.C. § 9606(a).

16. The conditions at the Site constitute a threat to public health or welfare or the environment based on consideration of the factors stated in the NCP at 40 C.F.R. § 300.415(b), and that the actions required by this Order are necessary to protect the public health or welfare or the environment.

17. The actions required by this Order, if properly performed, will be consistent with the NCP, and are appropriate to protect the public health or welfare or the environment.

VI. NOTICE TO THE STATE

18. Pursuant to Section 106(a) of CERCLA, 42 U.S.C. § 9606(a), EPA has notified the State of the issuance of this Order by providing a copy of this Order.

VII. ORDER

19. Based upon the foregoing Findings of Fact, Conclusions of Law, Determinations, and the Administrative Record for this Site, it is hereby Ordered and Agreed that Respondents shall comply with the following provisions, including, but not limited to, all attachments to this Order and all documents incorporated by reference into this Order, and perform the following actions:

Work to be Performed

20. Respondents shall immediately restrict access to the Site and shall not allow any materials, equipment, or any other item to be removed from the Site without prior EPA approval.

21. Within seven (7) days after the Effective Date of this Order, Respondents shall submit to EPA for approval, a Work Plan for the removal of hazardous substances from the Site. The Work Plan shall provide a concise description of the activities to be conducted to comply with the requirements of this Order, and shall include a proposed schedule for implementing and completing such activities. The Work Plan shall comply with the guidelines for preparation

provided in Paragraph 23, below, and at a minimum, shall require the Respondents to perform and complete the following removal activities within ninety (90) days after EPA approves the Work Plan pursuant to Paragraphs 23 and 26 of this Order.

a. Respondents shall relocate non-hazardous vehicles and other equipment from the existing truck pad and provide for an unrestricted access corridor from the facility gate to the tank farm area.

b. Respondents shall sample and characterize all containerized materials, including tank sludge, content of piping systems, and any non-bulk containers on-site.

c. Respondents shall segregate all hazardous substances to ensure incompatible substances pose no threat of violent reaction, fire, or explosion; remove non-hazardous chemicals to the appropriate solid waste disposal facility, recycling facility or return to the distributor/manufacturer.

d. Respondents shall characterize, dismantle and remove all tanks and vats from the site, including appurtenant tank farm structures, berm soils, contaminated concrete, vegetation and debris.

e. Respondents shall prepare and submit to EPA a Soil Sampling Plan to assess Site soils for contamination with hazardous substances, including soils classified as PCB remediation waste as defined by 40 C.F.R. Part 761. The assessment provided in the Soil Sampling Plan shall characterize the zone extending from the surface to a minimum of five (5) feet below ground surface, except as necessary to characterize the extent of soil contamination to the point at which either the contamination terminates or first groundwater is reached. The Soil Sampling Plan should take into account the specific methods for collecting site characterization data and for verifying soils cleanup through sampling and analysis as specified at 40 C.F.R. Part

761, Subparts N and O.

f. Respondents shall continue the excavation and removal of Site contaminated soils until the conditions of the soil cleanup verification and analysis are achieved. Respondents shall backfill, compact, and grade the excavated areas. This involves the backfilling of the excavated areas with clean fill, compacting the fill, grading and restoring to its original condition.

g. Respondents shall properly containerize into United Nations specification packaging, transport and dispose in accordance with all applicable or appropriate regulations, all hazardous substances at the Site or, where feasible, implement alternative treatment or reuse/recycling options. Each transfer of hazardous substances, pollutants or contaminants off-site must be consistent with Section 121(d)(3) of CERCLA, 42 U.S.C. § 9621(d)(3), and the EPA "Procedures for planning and implementing off-site response actions," promulgated at 40 C.F.R. Part 300.440.

h. Respondents shall perform air monitoring and sampling in accordance with Occupational Safety and Health Administration ("OSHA") regulations during appropriate phases of the removal action, especially when there is a potential for airborne releases of toxic air contaminants. Respondents shall use operational controls such as dust containment or suppression to abate fugitive dust emissions. Respondents shall comply with all appropriate OSHA General Industry Standards including, as necessary, the Permit-Required Confined Space Entry Rule.

i. Respondents shall provide EPA with copies of all documentation related to off-site disposal or other disposition of wastes including, but not limited to, manifests, waste profiles and analytical data and disposal costs.

j. Respondents shall notify the EPA OSC at least twenty-four (24) hours prior to commencement of any on-Site work and notify the EPA OSC at least forty-eight (48) hours prior to disposal or other disposition of wastes.

22. Within ten (10) days of the Effective Date of this Order, the Respondents shall provide EPA with documentation that adequately demonstrates their financial ability to complete the work to be performed pursuant to this Order. Examples of adequate financial documentation that EPA may accept include, but are not limited to a signed contract or guarantee on the part of the Respondents' contractor that it will complete the work to be performed, a letter of credit from a financial institution, or an escrow account for the work to be performed.

23. The Work Plan required in Paragraph 21 shall be reviewed by EPA, which may approve, disapprove, require revisions, or modify the Work Plan. Once approved, the Work Plan shall be deemed to be incorporated into and made a fully enforceable part of this Order. The Soil Sampling Plan prepared pursuant to Paragraph 21(e) of this Order may be included in a separate document from the remainder of the Work Plan and provided to EPA for review no later than fourteen (14) days after the Effective Date. The Respondents shall implement all work plans as finally approved by the EPA. In addition to the requirements listed in Paragraph 21, the Work Plan shall include:

a. A Health and Safety Plan, prepared in accordance with EPA's Superfund Standard Operating Safety Guide, dated June 1992, which complies with all current OSHA regulations applicable to Hazardous Waste Operations and Emergency Response, 29 C.F.R. Part 1910. Respondents shall incorporate all changes to the Health and Safety Plan requested by EPA and implement the Health and Safety Plan throughout the performance of the removal action.

b. A Quality Assurance Project Plan ("QAPP") that is consistent with "EPA Guidance for Quality Assurance Project Plans" (EPA QA/G-5); "Preparation of a U.S. EPA Region 9 Field Sample Plan for EPA-Lead Superfund Projects" (Document Control No.: 9QA-05-93); and "Guidance for the Data Quality Objectives Process" (EPA QA/G-4). The Soil Sampling Plan shall utilize proper soil assessment techniques as defined in "EPA Document SW-846, Chapter 9: EPA Environmental Response Team Standard Operating Procedures" or the appropriate ASTM Standard.

24. Within fifteen (15) days after completing the Response Action, Respondents shall provide EPA with a final summary report. This report should contain a summary of the activities performed to comply with this Order. The final summary report shall include all invoices submitted by contractors, identify specific work performed under each invoice, and provide copies of all analytical data generated during the response action.

25. All documents, including technical reports, and other correspondence to be submitted by the Respondents pursuant to this Order, shall be sent by over-night mail to the following addressees or to such other addressees as EPA hereafter may designate in writing, and shall be deemed submitted on the date received by EPA.

Craig Benson, Federal On-Scene Coordinator
US Environmental Protection Agency
EPA, Region 9
200 Oceangate, Suite 900
Long Beach, CA 90802

Respondents shall submit two (2) copies of each document to EPA.

26. EPA shall review, comment, and approve or disapprove each plan, report, or other deliverable submitted by Respondents. All EPA comments on draft deliverables shall be incorporated by the Respondents. EPA shall notify the Respondents in writing of EPA's

approval or disapproval of a final deliverable. In the event of any disapproval, EPA shall specify the reasons for such disapproval, EPA's required modifications, and a time frame for submission of the revised report, document, or deliverable. If the modified report, document or deliverable is again disapproved by EPA, EPA first shall notify the Respondents of its disapproval of the resubmitted report, document, or deliverable, and then may draft its own report, document or deliverable and incorporate it as part of this Order, may seek penalties from the Respondents for failing to comply with this Order, and may conduct the remaining work required by this Order and seek to recover costs from Respondents.

27. For purposes of this Order, EPA's authorized representatives shall include, but not be limited to, consultants and contractors hired by EPA to oversee the activities required by this Order.

Selection of Contractor(s) and Subcontractor(s)

28. All work performed by or on behalf of Respondents pursuant to this Order shall be performed by qualified individuals or contractors with expertise in hazardous waste site investigation or remediation, unless agreed otherwise by EPA. Respondents shall, within three (3) days after the Effective Date of this Order, notify EPA in writing of the name, title and qualifications of the individual(s) who will be responsible for carrying out the terms of this Order, and the name(s) of any contractor(s) or subcontractor(s). The qualifications of the persons, contractors, and subcontractors undertaking the work for Respondents shall be subject to EPA review and approval.

29. If EPA disapproves of any person's or contractor's technical or work experience qualifications, EPA will notify the Respondents in writing. Respondents shall, within five (5) working days of Respondents' receipt of EPA's written notice, notify EPA of the identity and

qualifications of the replacement(s). Should EPA disapprove of the proposed replacement(s), Respondents shall be deemed to have failed to comply with the Order.

30. Respondents may propose to change the individual(s), contractor(s), or subcontractor(s) retained to direct and supervise the work required by this Order. If Respondents wish to propose such a change, the Respondents shall notify EPA in writing of the name, title, and qualifications of the proposed individual(s), proposed contractor(s), or proposed subcontractor(s), and such individual(s), contractor(s) or subcontractor(s) shall be subject to approval by EPA in accordance with the terms of Paragraphs 28 and 29, above. The naming of any replacement(s) by Respondents shall not extend any deadlines required by this Order nor relieve the Respondents of any of their obligations to perform the work required by this Order.

31. Respondents will notify EPA of their respective field activities at least twenty-four (24) hours before initiating them so that EPA may adequately schedule oversight tasks.

32. Respondents shall submit to EPA a certification that Respondents or their contractor(s) and subcontractor(s) have adequate insurance coverage or other ability, subject to approval of EPA, to compensate for liabilities for injuries or damages to persons or property that may result from the activities to be conducted by or on behalf of Respondents pursuant to this Order. Adequate insurance shall include comprehensive general liability insurance and automobile insurance with limits of one million dollars, combined single limit. If the Respondents demonstrate by evidence satisfactory to EPA that any contractor or subcontractor maintains insurance equivalent to that described above, or insurance covering the same risks but in a lesser amount, then the Respondents need provide only that portion of the insurance described above that is not maintained by such contractor or subcontractor. Respondents shall ensure that such insurance or indemnification is maintained for the duration of performance of

the work required by this Order. Respondents shall ensure that the United States is named as an additional insured on any such insurance policies.

General Provisions

33. All work required by this Order shall be conducted in accordance with: CERCLA; the NCP; EPA Region 9 "Guidance for Preparing Quality Assurance Project Plans for Superfund Remedial Projects" (EPA, November 1992); any final amended or superseding versions of such documents provided by EPA; other applicable EPA guidance documents; any Work Plan or individual components approved pursuant to Paragraph 23 of this Order; and any report, document or deliverable prepared by EPA because Respondents failed to comply with this Order.

34. All plans, schedules, and other reports that require EPA's approval and are required to be submitted by the Respondents pursuant to this Order shall, after approval by EPA, be incorporated into and enforceable under this Order.

35. EPA will oversee Respondents' activities as specified in Section 104(a)(1) of CERCLA, 42 U.S.C. § 9604(a)(1). Respondents will support EPA's initiation and implementation of activities needed to carry out its oversight responsibilities. Respondents also shall cooperate and coordinate the performance of all work required to be performed under this Order with all other work being performed at the Site, including work performed by EPA, the State, or any other party performing work at the Site with the approval of EPA.

36. Respondents shall undertake all actions required by this Order in accordance with the requirements of all applicable local, state, and federal laws and regulations unless an exemption from such requirements is specifically provided under CERCLA or unless the Respondents obtain a variance or exemption from the appropriate governmental authority.

VIII. EFFECTIVE DATE

37. This Order is deemed effective on receipt (the "Effective Date"), unless a conference is requested as provided herein. If such a conference is requested, this Order shall be effective the second (2nd) day following the day of such conference unless modified in writing by EPA.

IX. NOTICE OF INTENT TO COMPLY

38. Respondents shall, within one (1) working day of the Effective Date of this Order, provide written notice to EPA of Respondents' irrevocable intent to comply with this Order. Failure to respond, or failure to agree to comply with this Order, shall be deemed a refusal to comply with this Order.

X. OPPORTUNITY TO CONFER

39. Respondents may, within one (1) day of receipt of this Order, request a conference with the Section Chief of the Emergency Response Section in the Response, Planning and Assessment Branch in the EPA Region 9 Superfund Division, or whomever the Section Chief may designate. If requested, the conference shall occur within three (3) days of the request, unless extended by mutual agreement of the Parties, at EPA's Regional Office, 75 Hawthorne Street, San Francisco, California.

40. At any conference held pursuant to Respondents' request, the Respondents may appear in person, or be represented by an attorney or other representative. If Respondents desire such a conference, the Respondents shall contact Thanne Cox, EPA Attorney Advisor, at (415) 972-3908 or at cox.elizabeth@epa.gov.

41. The purpose and scope of any such conference held pursuant to this Order shall be limited to issues involving the implementation of the Response Action required by this Order and the extent to which Respondents intend to comply with this Order. If such a conference is held, the Respondents may present any evidence, arguments or comments regarding this Order, its applicability, any factual determinations on which the Order is based, the appropriateness of any action that the Respondents are ordered to take, or any other relevant and material issue. Any such evidence, arguments or comments should be reduced to writing and submitted to EPA within three (3) days following the conference. This conference is not an evidentiary hearing, and does not constitute a proceeding to challenge this Order. It does not give Respondents a right to seek review of this Order, or to seek resolution of potential liability, and no official record of the conference will be made. If no conference is requested, any such evidence, arguments or comments must be submitted in writing within four (4) days following the Effective Date of this Order. Any such writing should be directed to Thanne Cox, at the following address:

Environmental Protection Agency
75 Hawthorne Street, ORC-3
San Francisco, CA 94105

42. Respondents are hereby placed on notice that EPA will take any action that may be necessary in the opinion of EPA for the protection of public health and welfare and the environment, and Respondents may be liable for the costs of those actions under Section 107(a) of CERCLA, 42 U.S.C. § 9607(a).

XI. ENDANGERMENT AND EMERGENCY RESPONSE

43. In the event of any action or occurrence during the performance of the work that causes or threatens to cause a release of a hazardous substance or that may present an immediate threat to public health or welfare or the environment, Respondents shall immediately take all

appropriate action(s) to prevent, abate, or minimize the threat, and shall immediately notify EPA's primary OSC, or, if the primary OSC is unavailable, EPA's alternate OSC, as designated below in Paragraph 49. If neither of these persons is available, Respondents shall notify the EPA Emergency Response Unit, Region 9, by calling (415) 947-4400. Respondents shall take such action(s) in consultation with EPA's OSC and in accordance with all applicable provisions of this Order, including but not limited to the approved Health and Safety Plan.

44. Nothing in the preceding Paragraph shall be deemed to limit any authority of the United States to take, direct, or order all appropriate action to protect human health and the environment or to prevent, abate, or minimize an actual or threatened release of hazardous substances at or from the Site.

XII. MODIFICATION OF WORK REQUIRED

45. In the event of unanticipated or changed circumstances at the Site, Respondents shall notify the EPA OSC by telephone within twenty-four (24) hours of discovery of the unanticipated or changed circumstances. This verbal notification shall be followed by written notification postmarked no later than within three (3) days of discovery of the unanticipated or changed circumstances.

46. EPA may determine that in addition to tasks addressed herein, additional work may be required to address the unanticipated or changed circumstances referred to in Paragraphs 43 and 45. Where consistent with Section 106(a) of CERCLA, EPA may direct, as an amendment to this Order, that Respondents perform these tasks in addition to those required herein. Respondents shall implement the additional tasks that EPA identifies. The additional work shall be completed according to the standards, specifications, and schedules set forth by EPA in any modifications to this Order.

XIII. DESIGNATED PROJECT MANAGERS

47. EPA designates Craig Benson, an employee of EPA Region 9, as its primary OSC and designated representative at the Site, who shall have the authorities, duties, and responsibilities vested in the OSC by the NCP. This includes, but is not limited to, the authority to halt, modify, conduct, or direct any tasks required by this Order or undertake the Response Action (or portions of the Response Action) when conditions at the Site present or may present a threat to public health or welfare or the environment as set forth in the NCP. Within three (3) days of the Effective Date of this Order, Respondents shall designate a Project Coordinator who shall be responsible for overseeing Respondents' implementation of this Order. To the maximum extent possible, all oral communications between Respondents and EPA concerning the activities performed pursuant to this Order shall be directed through EPA's OSC and Respondents' Project Coordinator. All documents, including progress and technical reports, approvals, and other correspondence concerning the activities performed pursuant to the terms and conditions of this Order, shall be delivered in accordance with Paragraph 25, above.

48. EPA and Respondents may change their respective OSC and Project Coordinator. Notification of such a change shall be made by notifying the other party in writing at least five (5) days prior to the change, except in the case of an emergency, in which case notification shall be made orally followed by written notification as soon as possible.

49. Consistent with the provisions of this Order, the EPA designates Pete Guria as an alternate OSC, in the event Craig Benson is not present at the Site or is otherwise unavailable. During such times, Pete Guria shall have the authority vested in the OSC by the NCP, as set forth in Paragraph 47 above.

50. The absence of the EPA OSC from the Site shall not be cause for the stoppage of work. Nothing in this Order shall limit the authority of the EPA OSC under federal law.

XIV. SITE ACCESS

51. Respondents shall permit EPA and its authorized representatives, including its contractors and the State, to have access at all times to the Site to monitor any activity conducted pursuant to this Order and to conduct such tests or investigations as EPA deems necessary. Nothing in this Order shall be deemed a limit on EPA's authority under federal law to gain access to the Site.

52. To the extent that Respondents require access to land other than land that they own to carry out the terms of this Order, Respondents shall, within three (3) days of the Effective Date of this Order, obtain access for: EPA, its contractors, oversight officials, or other authorized representatives; state oversight officials or contractors; and Respondents and their authorized representatives. If Respondents fail to gain access within three (3) days, they shall continue to use best efforts to obtain access until access is granted. For purposes of this Paragraph, "best efforts" include, but are not limited to, the payment of money as consideration for access. If access is not provided within the time referenced above, EPA may obtain access under Sections 104(e) or 106(a) of CERCLA and recover any costs incurred pursuant to Section XV of this Order.

XV. REIMBURSEMENT OF OVERSIGHT COSTS

53. Respondents shall reimburse EPA, on written demand, for all response costs incurred by the United States in overseeing Respondents' implementation of the requirements of this Order, unless otherwise exempted from this requirement by federal law. EPA may submit to Respondents on a periodic basis a bill for all response costs incurred by the United States with

respect to this Order. Respondents shall, within thirty (30) days of receipt of the bill, remit by cashier's or certified check for the amount of those costs made payable to the "Hazardous Substance Superfund," to the following address:

U.S. Environmental Protection Agency
Attn: David Wood
Region 9, Attn.: Superfund Accounting
P.O. Box 360863M
Pittsburgh, PA 15251

Respondents shall send a cover letter with any check and the letter shall identify the Dico Waste Oil Site by name and make reference to this Order, including the EPA docket number stated above. Respondents shall send notification of any amount paid, including a photocopy of the check, simultaneously to the EPA OSC.

54. Interest at the rate established under Section 107(a) of CERCLA shall begin to accrue on the unpaid balance from the due day of the original demand notwithstanding any dispute or objection to any portion of the costs.

XVI. DELAY IN PERFORMANCE

55. Any delay in the performance of any requirement of this Order that, in the EPA's sole judgment and discretion, is not properly justified by Respondents under the terms of this Section shall be considered a violation of this Order. Any delay in performance of any requirement of this Order shall not affect any other obligation of Respondents under the terms and conditions of this Order.

56. Respondents shall notify EPA of any delay or anticipated delay in performing any requirement of this Order. Such notification shall be made by telephone to EPA's primary OSC within twenty-four (24) hours after Respondents first knew or should have known that a delay might occur. The Respondents shall adopt all reasonable measures to avoid or minimize any

such delay. Within three (3) days after notifying EPA by telephone, the Respondents shall provide written notification fully describing the nature of the delay, any justification for delay, any reason why the Respondents should not be held strictly accountable for failing to comply with any relevant requirements of this Order, the measures planned and taken to minimize the delay, and a schedule for implementing the measures that will be taken to mitigate the effect of the delay. Increased costs or expenses associated with implementation of the activities called for in this Order are not justifications for any delay in performance.

57. If Respondents are unable to perform any activity or submit any document within the time required under this Order, the Respondents may, prior to the expiration of the time, request an extension of time in writing. The extension request shall include a justification for the delay. The submission of an extension request shall not itself affect or extend the time to perform any of Respondents' obligations under this Order.

58. If EPA determines that good cause exists for an extension of time, it may grant a request made by Respondents pursuant to Paragraph 57 above, and specify in writing to the Respondents the new schedule for completion of the activity or submission of the document for which the extension was requested.

XVII. RECORD PRESERVATION

59. Respondents shall maintain, during the pendency of this Order, and for a minimum of five (5) years after EPA provides notice to Respondents that the work has been completed, a depository of the records and documents required to be prepared under this Order. In addition, Respondents shall retain copies of the most recent version of all documents that relate to hazardous substances at the Site and that are in their possession or in the possession of its employees, agents, contractors, or attorneys. After this five-year period, Respondents shall

notify EPA at least thirty (30) days before the documents are scheduled to be destroyed. If EPA so requests, Respondents shall provide these documents to EPA.

XVIII. ENFORCEMENT AND RESERVATIONS

60. EPA reserves the right to bring an action against Respondents under Section 107 of CERCLA, 42 U.S.C. § 9607, for recovery of any response costs incurred by the United States related to this Order or otherwise incurred at the Site and not reimbursed by Respondents. This reservation shall include but not be limited to past costs, direct costs, indirect costs, the costs of oversight, the costs of compiling the cost documentation to support oversight costs, as well as accrued interest as provided in Section 107(a) of CERCLA, 42 U.S.C. § 9607(a).

61. Notwithstanding any other provision of this Order, at any time during the Response Action, EPA may perform its own studies, complete the Response Action (or any portion of the Response Action) and seek reimbursement from Respondents for its costs, or seek any other appropriate relief.

62. Nothing in this Order shall preclude EPA from taking any additional enforcement action, including modification of this Order or issuance of additional Orders, or additional remedial or removal actions as EPA may deem necessary, or from requiring Respondents in the future to perform additional activities pursuant to CERCLA, 42 U.S.C. § 9601, et seq., or any other applicable law. Respondents may be liable under CERCLA Section 107(a) for the costs of any such additional actions.

63. Notwithstanding any provision of this Order, the United States hereby retains all of its information gathering, inspection and enforcement authorities and rights under CERCLA, the Resource Conservation and Recovery Act, or any other applicable statutes or regulations.

64. Notwithstanding compliance with the terms of this Order, including the completion of the EPA-approved Response Action, Respondents are not released from liability, if any, for any enforcement actions beyond the terms of this Order taken by EPA.

65. EPA reserves the right to take any enforcement action pursuant to CERCLA or any other legal authority, including the right to seek injunctive relief, monetary penalties, reimbursement of response costs, and punitive damages for any violation of law or this Order.

66. EPA expressly reserves all rights and defenses that it may have, including EPA's right both to disapprove of work performed by Respondents and to request the Respondents to perform tasks in addition to those detailed in Section VII of this Order.

67. This Order does not release Respondents from any claim, cause of action or demand in law or equity, including, but not limited to, any claim, cause of action, or demand that lawfully may be asserted by representatives of the United States or the State.

68. No informal advice, guidance, suggestions, or comments by EPA regarding reports, plans, specifications, schedules, and any other writing submitted by Respondents will be construed as relieving Respondents of their obligation to obtain such formal approval as may be required by this Order.

XIX. SEVERABILITY

69. If a court issues an order that invalidates any provision of this Order or finds that Respondent(s) has sufficient cause not to comply with one or more provisions of this Order, Respondent(s) shall remain bound to comply with all provisions of this Order not invalidated or determined to be subject to a sufficient cause defense by the court's order.

XX. DISCLAIMER

70. The United States, by issuance of this Order, assumes no liability for any injuries or damages to persons or property resulting from acts or omissions by Respondents, or their employees, agents, successors, assigns, contractors, or consultants in carrying out any action or activity pursuant to this Order. Neither EPA nor the United States shall be held as a party to any contract entered into by Respondents, or their employees, agents, successors, assigns, contractors, or consultants in carrying out any action or activity pursuant to this Order. This Order does not constitute a pre-authorization of funds under section 111(a)(2) of CERCLA, 42 U.S.C. § 9611(a)(2).

XXI. PENALTIES FOR NONCOMPLIANCE

71. Respondents are advised pursuant to Section 106(b) of CERCLA, 42 U.S.C. § 9606(b), that violation of this Order or subsequent failure or refusal to comply with this Order, or any portion thereof, may subject Respondents to a civil penalty of up to $27,500 per day for each day in which such violation occurs, or such failure to comply continues. Failure to comply with this Order, or any portion thereof, also may subject Respondents to liability for punitive damages in an amount three times the amount of any cost incurred by the government as a result of the failure of Respondents to take proper action, pursuant to Section 107(c)(3) of CERCLA, 42 U.S.C. § 9607(c)(3).

XXII. TERMINATION AND SATISFACTION

72. The provisions of this Order shall be deemed satisfied on Respondents' receipt of written notice from EPA that Respondents have demonstrated, to the satisfaction of EPA, that all of the terms of this Order, including any additional tasks that EPA has determined to be necessary, have been completed.

IT IS SO ORDERED:

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY

By: Daniel A. Meer Date: 3 September 2003

Daniel A. Meer
Branch Chief, Response, Planning and Assessment Branch
EPA, Region 9

APPENDIX B

Action Memorandum,

"Request for a Time-Critical Removal Action at the Dico Waste Oil Site."

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105

MEMORANDUM

DATE: SEP 8 – 2003

SUBJECT: Request for a Time-Critical Removal Action at the Dico Waste Oil Site, 1845 E. Willow St., Signal Hill, Los Angeles County, California

FROM: Craig Benson, On-Scene Coordinator
Emergency Response Section (SFD-9-2)

TO: Daniel Meer, Chief
Response, Planning & Assessment Branch (SFD-9)

THROUGH: Peter Guria, Chief
Emergency Response Section (SFD-9-2)

I. PURPOSE

The purpose of this Action Memorandum is to obtain approval to spend up to $480,048 to mitigate threats to human health and the environment posed by the presence of polychlorinated biphenyls ("PCBs"), heavy metals, and hydrocarbon contaminated soils and structures located at the Dico Waste Oil ("Site"), 1845 E. Willow St., in Signal Hill, Los Angeles County, California [90806]. The proposed removal of hazardous substances would be taken pursuant to Section 104(a)(1) of the Comprehensive Environmental Response, Compensation and Liability Act ("CERCLA"), 42 U.S.C. § 9604(a)(1), and Section 300.415 of the National Oil and Hazardous Substances Pollution Contingency Plan ("NCP"), 40 CFR § 300.415.

II. SITE CONDITIONS AND BACKGROUND

Site Status: Non-NPL
Category of Removal: Time-Critical
CERCLIS ID: CAD980737076
SITE ID: KP

A. Site Description

1. Physical Location

The Site is located at 1845 East Willow Street in Signal Hill, Los Angeles County, California. The Site also includes property identified as 2700 Rose Avenue and 2623 Gardenia Avenue. The coordinates of the Site are N 33° 48' 21.7", W 118° 10'07.1", as interpolated from the Long Beach USGS 7.5-minute quadrangle, 1981.

2. Site characteristics

The property appears to be first developed in1952, and Dico Oil Corporation ("Dico") used the property to operate an oil and recycling facility from 1960 to 1995. While in operation, Dico blended oils with varying amounts of water and sediment levels to create a marketable fuel. Asphalt emulsions, crude oil, diesel fuels, jet fuel, kerosene and stoddard solvents, waste oils, and light to heavy fuel oils contaminated with water and solids were accepted from various sources and placed into six steel above-ground storage tanks ("ASTs") for processing and blending. The "recycled oil" was then sold through brokers primarily to the bunker oil market as ship fuel. Dico reportedly purchased, processed and re-sold between 2-3 million gallons of oil per annum.

The approximate 19,000 square foot operations area of the Site consists of a tank farm, a truck pad, a laboratory, and a few tool sheds. The tank farm has three remaining large steel ASTs in a partially bermed containment. The berm has been removed, along with several cubic yards of soil, from the south side of the tank farm. The truck pad is a concrete drive with a concrete secondary containment depression at the loading point. A small receiving laboratory structure and a tool shed contain several drums, which are either empty or partially empty. The facility is not in operation and is heavily overgrown with vegetation.

The Site is located in a largely commercial zone, with adjacent land use including retail outlets, office buildings, light industry, oil production, and residences. The Site is bounded to the north by a prefabricated industrial/office park. The Site is bounded to the east by two residences. The Site is bounded to the south by a retail business and associated parking lot. The Site is bounded to the west by an undeveloped lot used primarily for oil production by Signal Hill Petroleum. The main streets that border the Site are 27th Street to the north, E. Willow Street to the south, Rose Street to the west, and Cherry Avenue to the east.

The larger parcel that includes the Site operations area is fenced with gated access on 27th Street. The gate generally remains open for access by two businesses that rent vehicle parking space on the parcel. The Site operations area is unmanned, is not separately fenced, or enclosed, and access appears unrestricted.

3. Removal Site evaluation

On June 9, 2003, the California Department of Toxic Substances Control ("DTSC") submitted a formal Request for Federal Action to the United States Environmental Protection Agency (U.S. EPA) to address the environmental issues posed by the Site (copy included in the Administrative Record for this Site). In April and May, 2003, the Superfund Technical Assessment and Response Team ("START") contractor completed a records review, comprised primarily of the Site file available from DTSC.

On June 6, 2003, the START and On-Scene Coordinator (OSC) C. Benson conducted a visual survey of the Site. On June 19, 2003, OSC Benson, U.S. EPA Investigator J. Jaros and START personnel toured the Site with the current property owner and his consultant. Observations made during this assessment included:

- The number of tanks and configuration of the tank farm was different than as depicted in the most recent Site diagram available from the DTSC Site file (1994).
- The tanks were observed to have severe external deterioration due to corrosion, cracks, rust spots, blisters and leaking valves. The tank farm has no secondary containment capable of containing any spills or leaks from the tanks.
- Areas within and surrounding the tank farm that were previously identified as contaminated with PCBs, heavy metals and hydrocarbons remained on-site.
- The loading/offloading piping system is located aboveground and underground with manual control valves. The exposed portions of the piping system appeared aged with evidence of leakage at couplings.
- The Site operations area is heavily overgrown with vegetation, is unsecured and directly abuts two residential backyards containing grass, plants and animals.

Formal Site access was obtained from the property owner and OSC Benson and START returned to the Site on June 20, 2003 to conduct a sampling event. The main objective of this event was to obtain an analytical data set meeting U.S. EPA Quality System guidelines that is representative of current Site conditions and that could be compared to the historical record. A total of fourteen samples were collected and submitted for U.S. EPA approved analysis of PCBs, heavy metals, and total petroleum hydrocarbons. The Appendix 1 ("Figure 4: Sample Locations Dico Removal Assessment") illustrates the current configuration of the Site operations area, sample locations, and summary analytical findings for the key analytes of concern.

4. Release or threatened release into the environment of a hazardous substance, or pollutant or contaminant

Site soils are documented to contain percentage range total petroleum hydrocarbons ("TPH") contaminated with PCBs up to 160 milligrams per kilogram (mg/kg) and lead and chromium up to 1,000 mg/kg and 76 mg/kg, respectively. A sludge sample from Tank "T2" contained lead and chromium concentrations of 1,640

mg/kg and 484 mg/kg, respectively. Applicable California hazardous waste determining Total Threshold Limit Concentrations ("TTLC"), Region IX U.S. EPA Residential Preliminary Remediation Goals ("PRGs"), and Los Angeles Regional Water Quality Control Board ("LARWQCB") Site Assessment and Cleanup Levels for TPH are presented in Table 1 below:

Table 1
Federal and State Cleanup Goals

Analyte	TTLC mg/kg	PRGs mg/kg	LARWQCB ppm
PCBs	50.0	0.22	-
Lead	1,000.0	150.0 (CA modified)	-
Chrome	2,500.0	210.0	-
TPH diesel	-	-	1,000.0
TPH oil	-	-	10,000.0

The current removal assessment data set is consistent with historical data (see Appendix 2, "Table 1: Historical Data for the Dico Oil Co. Site"). Lead, chromium, and PCBs are hazardous substances as defined by Section 101(14) of CERCLA. Other hazardous substances or pollutants and contaminants not discovered to date or not specifically identified herein may exist at the Site. These substances may also pose a threat to human health and the environment.

Contaminated soils and wastes on-site are accessible to nearby residents and workers. A continual threat of release to the surrounding environment exists due to the poor condition of the tanks and piping systems containing an unknown volume of hazardous wastes and lack of secondary containment at the facility. A significant confined space entry hazard exists due to open hatches and breaches in the on-site tanks.

5. National Priorities List ("NPL") status

The Site is not currently on or proposed for inclusion on the NPL. A CERCLA Preliminary Assessment (1986) and Screening Site Inspection (1990) have been conducted.

B. Other Actions to Date

Dico submitted a Part A application to DTSC (formerly the Department of Health Services) on April 17, 1986. The facility was issued an Interim Status Document (ISD) under the Resource Conservation and Recovery Act ("RCRA") on March 29, 1989. Prior to issuance of the ISD, Dico operated as an unpermitted facility. An application

for a Hazardous Waste Facility Permit (Part B permit application) was submitted to DTSC in 1992. The DTSC denied the Hazardous Waste Facility Permit on July 28, 1995, which also terminated Dico's ability to operate under the ISD.

Throughout the period 1986 to 1994, DTSC cited Dico on numerous occasions and issued several Violation Notices and Enforcement Orders for failure to comply with financial responsibility requirements and other noncompliance items associated with the ISD operating permit and state Hazardous Waste Control Laws and Regulations.

C. State and Local Authorities' Roles

1. State and local actions to date

DTSC has represented that no RCRA closure funds exist for Dico and neither local nor State authorities have the resources to conduct required response actions at this Site. On June 9, 2003, DTSC submitted a formal Request for Federal Action to U.S. EPA. U.S. EPA is coordinating with the business owner and current property owner concerning whether either party will initiate the required response actions.

Representatives from State and local response organizations may be requested to assist and coordinate with the OSC in various tasks including planning and community relations.

III. THREATS TO PUBLIC HEALTH OR WELFARE OR THE ENVIRONMENT, AND STATUTORY AND REGULATORY AUTHORITIES

Conditions at the Site represent a release, and potential threat of release, of a CERCLA hazardous substance threatening to public health, or welfare, or the environment based on the factors set forth in the National Oil and Hazardous Substances Pollution Contingency Plan ("NCP"), 40 CFR § 300.415(b)(2). These factors include:

1. Actual or potential exposure to hazardous substances or pollutants or contaminants by nearby populations or the food chain

This factor is present at the Site due to the presence of PCBs, chromium and lead in soils and process tanks that greatly exceed the Region 9 Residential PRGs and, in some cases, State hazardous waste determining levels. The potential exists for soil contamination to impact humans and animals either by direct contact on-site or through wind-blown migration and particulate migration/inhalation.

Lead is a heavy metal that bio-accumulates in human tissues. Short-term exposure to large amounts of lead can cause harmful effects on the nervous system, gastrointestinal system, kidneys, and circulatory system. Long-term exposure to low levels, such as those that occur in the work place, can cause damage to the central nervous system, kidneys, blood, gastrointestinal tract, and gingival tissues.

Chromium is an ecotoxic heavy metal that is an inhalation, ingestion, and dermal exposure risk. Chromium bioaccumulates and targets the liver, kidneys, reproductive organs, circulatory system, and gastrointestinal system. Acute exposure to chromium can cause harmful effects to the gastrointestinal system. Chronic exposure can cause harmful effects to the skin, lungs, mucous membranes, and possibly cancer.

PCBs are chlorinated oils that are extremely persistent in the environment and are resistant to chemical and biological degradation. PCBs bioaccumulate in fatty tissues and are known to increase in concentration up the food chain. Acute exposure of large amounts of PCBs can cause harmful effects to the eyes, liver, and reproductive system. Chronic exposure can cause harmful effects to the skin, eyes, liver, and reproductive system; PCBs are carcinogens and have been shown to cause tumors of the pituitary gland and liver, as well as leukemia.

2. Hazardous substances or pollutants or contaminants in drums, barrels, tanks, or other bulk storage containers, that may pose a threat of release.

There are four tanks on-Site with the following dimensions:

Table 2
Site Tank Specifications

Tank I.D.	Capacity (gal.)	Diameter (ft.)	Height (ft.)
T2	21,149	15	16
T3	28,071	14.1	24
T5	8,663	9.6	16
TB	21,149	15	16

All of the tanks are severely deteriorated, with evidence of leakage at pipe fittings, cracks and valves. The side hatch opening in Tank T2 is large enough to allow an adult entry. The current volume estimate of Tank T2 is approximately 10 cubic yards of hazardous sludge documented to contain lead and chromium concentrations of 1,640 mg/kg and 484 mg/kg, respectively. The volume of material remaining in other tanks, if any, has not been determined, although a pourable sample was collected from a hose connection to Tank TB and found to have a TPH content of over 680,000 mg/kg. The tank farm has no secondary containment capable of containing any spills or leaks from the tanks.

3. High levels of hazardous substances or pollutants or contaminants in soils at or near the surface, that may migrate

This factor is present at the facility due to the documented presence of high concentrations of PCBs, TPH, lead and chromium contamination in several distinct areas of the Site (see Appendix 2, "Table 1: Historical Data for the Dico Oil Co. Site").

Trench within tank farm

Initially created to facilitate runoff and oil spillage flow within the tank farm, the piping system is exposed within this trench. This trench is approximately four feet deep and is heavily stained and overgrown with vegetation. Site records indicate past sampling results for PCBs in this trench as high as 4,400 mg/kg.

Berm partially surrounding tank farm

In 1988, two underground storage tanks were removed from the north end of the tank farm (approximate location of Tank TB today). PCB contaminated soils removed from this excavation area were used to build-up this berm in 1989.

Truck loading/unloading area

The concrete truck loading and unloading area contains a sump and approximately six inches of berm located along both sides of the pad in a north-south direction. The date of construction and the condition of the underlying soils is unknown at this time.

Piping system

The piping system was used to transfer oil among tank trucks and the storage tanks. The piping is located aboveground and underground with manual control valves. The entire system appears aged, with evidence of leakage at couplings.

Surface contaminant migration to the adjacent residential properties, retail outlets, and office buildings may occur by wind dispersion, vehicular traffic, storm water run-off and directly by individuals entering the unrestricted operational area.

The nearest storm water drains are located approximately 60 yards to the north and downgradient of the Site, which drain to the Los Cerritos Channel and eventually into the Pacific Ocean.

4. Actual or potential contamination of drinking water supplies or sensitive ecosystems

The groundwater from the underlying aquifer is used for drinking water. The nearest production well is located about one mile east of the Site and is operated by the City of Long Beach. This well produces water from depths of about 300 to 900 feet. Although groundwater beneath the facility is estimated to be present below depths of 150 to 200 feet, local perched groundwater could be present at much shallower depths, particularly after the heavier than normal rainfall events. There is currently insufficient data available to fully evaluate conditions at the Site and the extent of subsurface contamination resulting from Dico's activities which may further threaten groundwater.

5. Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released

Given the poor condition of the storage tanks, structural failure and contaminant release would be expected in the event of a seismic event.

6. Availability of other appropriate Federal or State response mechanisms to respond to the release

This factor supports the actions proposed in this Memorandum because the DTSC asserts that it does not have resources to conduct the removal at the Site. On April 14, 2002, DTSC submitted a formal Request for Federal Action to U.S. EPA. No other appropriate local or State public funding source has been identified.

IV. ENDANGERMENT DETERMINATION

Actual or threatened releases of hazardous substances from this Site, if not addressed by implementing the response action selected in this Action Memorandum, may present an imminent and substantial endangerment to public health, or welfare, or the environment.

V. PROPOSED ACTIONS AND ESTIMATED COSTS

A. Proposed Actions

1. Proposed action description

The objective of this removal action is to mitigate the threats to human health and the environment posed by the PCB, heavy metal and hydrocarbon contaminated soils and structures at the Site. At present, PCBs are considered the main constituent of concern that will dictate the extent of necessary soil excavation and removal.

On receipt of the delivery order and prior to mobilization the contractor will develop a Site Health and Safety Plan (HASP). This plan should be clear and concise and state the precautions and procedure to be followed throughout the course of this removal action. The HASP will be in conformance with OSHA 1910.120. Additionally, and also prior to mobilization the contractor will begin procurement efforts to initiate site operations, including: support zone services (trailers, power, water, sanitary) and necessary security services.

On mobilization, the contractor will establish the support zone and contamination reduction zone ("CRZ"). The CRZ will employ cost effective techniques for minimizing contamination to vehicles as well effective decontamination measures.

Tank farm decommissioning

U.S. EPA proposes to removal all surface and subsurface structures associated with the existing tank farm area, including the berm, tanks and contents, vats, piping and related components. Tanks and non-bulk containers containing hazardous substances in other areas of the operations area will also be removed in this phase.

Lateral and vertical extent of contamination study

A Quality Assurance Sampling and Analysis Plan will be developed to characterize the extent of contamination requiring excavation and off-site disposal. The Plan will consider, as guidance, the self-implementing cleanup provisions for PCB Remediation Waste as described at 40 CFR § 761.61.

Excavation and off-site disposal

Contaminated soils are proposed to be excavated to the "high occupancy area" PCB cleanup level of 1 mg/kg as defined by the PCB Rule. At this time, there is insufficient data to accurately determine the soil excavation volume. For initial planning purposes, the excavation area is estimated at 190 x 60 x 4 feet.

Cleanup verification and restoration

Cleanup verification sampling techniques as provided by the PCB Rule will be employed. Site restoration will include the backfilling of the excavation area with clean fill.

All wastes will be properly characterized, packaged and transported for treatment or disposal at facilities in compliance with Section V.4. Additional cleanup or removal actions will be taken as appropriate and necessary.

2. Contribution to remedial performance

Long term remedial action at this Site is not anticipated. This removal action should complete all Site work.

The long-term cleanup plan for the Site:

It is expected that this removal action will eliminate any threat of direct or indirect contact of hazardous substances at the Site. There is no known groundwater contamination at the Site. U.S. EPA considers it unlikely that significant groundwater contamination exists from the Site. Consequently, U.S. EPA considers this a final action for the Site.

Threats that will require attention prior to the start of a long-term cleanup:

There is no long-term cleanup planned for this Site.

The extent to which the removal will ensure that threats are adequately abated:

The removal of abandoned, above ground hazardous substances and contaminated soils is expected to abate the threats from the Site.

Consistency with the long-term remedy:

As described above, U.S. EPA considers this action to be a final action for the Site.

3. Description of alternative technologies

Alternative technologies are not considered for the proposed response action.

4. Applicable or relevant and appropriate requirements (ARARs)

Section 300.415(j) of the NCP provides that removal actions must attain ARARs to the extent practicable, considering the exigencies of the situation.

Section 300.5 of the NCP defines applicable requirements as cleanup standards, standards of control, and other substantive environmental protection requirements, criteria or limitations promulgated under Federal environmental or State environmental or facility siting laws that specifically address a hazardous substance, pollutant, contaminant, remedial action, location or other circumstances at a CERCLA site.

Section 300.5 of the NCP defines relevant and appropriate requirements as cleanup standards, standards of control and other substantive requirements, criteria, or limitations promulgated under Federal environmental or State environmental or facility siting laws that, while not "applicable" to a hazardous substance, pollutant, or

contaminant, remedial action, location, or other circumstances at a CERCLA site, address problems or situations sufficiently similar to those encountered at the CERCLA site and are well-suited to the particular site.

Because CERCLA on-site response actions do not require permitting, only substantive requirements are considered as possible ARARs. Administrative requirements such as approval of, or consultation with administrative bodies, issuance of permits, documentation, reporting, record keeping, and enforcement are not ARARs for the CERCLA sections confined to the site.

The following ARARs have been identified for the proposed response action. All can be attained.

Federal ARARs: Potential Federal ARARs are the TSCA PCB Rule, 40 CFR Part 761; RCRA Land Disposal Restrictions, 40 CFR § 268.40 Subpart D; the CERCLA Off-Site Disposal Rule OSWER Directive 9347.3-8FS; and the U.S. Department of Transportation of Hazardous Materials Regulations 49 CFR Part 171, 172 and 173.

State ARARs: Potential State ARARs are Characteristics of Hazardous Waste implemented through the California Health and Safety Code, Title 22, § 66261.20, § 66261.21, § 66261.22, § 66261.23, § 66261.24.

5. Project schedule

Removal activities will require approximately 180 on-site days to complete.

B. Estimated Costs

Regional Removal Allowance Costs

Cleanup Contractor	$ 370,040

Extramural Costs Not Funded from the Regional Allowance

START Contractor	$ 30,000
Extramural Subtotal	$ 400,040
Extramural Contingency (20%)	$ 80,008
TOTAL, Removal Action Project Ceiling	$ 480,048

VI. EXPECTED CHANGE IN THE SITUATION SHOULD ACTION BE DELAYED OR NOT TAKEN

Given the Site conditions, the nature of the hazardous substances documented on Site, and the potential exposure pathways to nearby populations described in Sections III and IV above, actual or threatened releases of hazardous substances from the Site, if not addressed by implementing the response actions selected in this Action Memorandum, may present an imminent and substantial endangerment to public health, or welfare, or the environment.

VII. OUTSTANDING POLICY ISSUES

There are no outstanding policy issues with the Site identified at this time.

VIII. ENFORCEMENT

Please see the attached Confidential Enforcement Addendum for a discussion regarding potentially responsible parties. In addition to the extramural costs estimated for the proposed action, a cost recovery enforcement action also may recover the following intramural costs:

Intramural Costs[1]

U.S. EPA Direct Costs	$ 9,000
U.S. EPA Indirect Costs (35.28%)	3,175
TOTAL Intramural Costs	$12,175

The total U.S. EPA extramural and intramural costs for this removal action, based on full-cost accounting practices, that will be eligible for cost recovery are estimated to be $493,223.

1. Direct costs include direct extramural costs and direct intramural costs. Indirect costs are calculated based on an estimated indirect cost rate expressed as a percentage of site-specific direct costs, consistent with the full cost accounting methodology effective October 2, 2000. These estimates do not include pre-judgement interest, do not take into account other enforcement costs, including Department of Justice costs, and may be adjusted during the course of a removal action. The estimates are for illustrative purposes only and their use is not intended to create any rights for responsible parties. Neither the lack of a total cost estimate nor deviation of actual costs from this estimate will affect the United States' right to cost recovery.

IX. RECOMMENDATION

This decision document represents the selected removal action for the Dico Waste Oil Site, 1845 E. Willow St., in Signal Hill, Los Angeles County, California [90806], as developed in accordance with CERCLA as amended, and not inconsistent with the NCP. This decision is based on the Administrative Record for the Site.

Because conditions at the Site meet the NCP criteria for a time-critical removal, I recommend that you concur on the removal action proposed in this Action Memorandum. The total project ceiling if approved will be $ 493,223, of which an estimated $ 480,048 comes from the Regional removal allowance. You may indicate your decision by signing below.

Approve: Daniel A Meer 3 September 2003
Daniel Meer, Chief — Date
Response, Planning and Assessment Branch

Disapprove: _____ _____
Daniel Meer, Chief — Date
Response, Planning and Assessment Branch

Enforcement Addendum

Attachments:

1. Index to the Administrative Record

Appendices

1. Figure 4: Sample Locations Dico Removal Assessment
2. Table 1: Historical Data for the Dico Oil Co. Site

cc: Lisa Boyton, USEPA, OERR, HQ
Director, California Department of Toxic Substances Control
Department of the Interior

bcc: Site File
Craig Benson, SFD-9-2
Elizabeth Cox, ORC-3
Andrew Helmlinger, ORC-3
Celeste Temple, SFD-9-2

Attachment 1
Administrative Record Index

Ball, 1988. Geotechnical Report, Subsurface Tank Site at 2623 Gardenia Avenue, Signal Hill. Alexander R. Ball, Canoga Park, California, 6/22/88.

E & E, 1988. Reassessment of the Dico Oil Company; Ecology & Environment, Inc. Los Angeles, California, 9/28/88.

DOHS, 1989. Hazard Appraisal and Recognition Plan Daily Site Visit Document, Dico Oil Company; State Of California, Department of Health Services, 1989.

DOHS, 1989. Hazard Appraisal and Recognition Plan Daily Site Visit Document, Dico Oil Company; State Of California, Department of Health Services, 1989.

Pilko, et al., 1990. Environmental Risk Assessment of Dico Oil Company, Signal Hill, California; Pilko and Associates, Inc., May 1990.

JRJ Associates, 1990. Workplan for Delineation of PCB Contamination in Soils at Dico Oil Company; JRJ Associates, San Pedro, CA. 10/11/90

DTSC, 1993. Inspection Report: Dico Oil Company; State of California, Department of Toxic Substances Control; September 24, 1993.

DTSC 1994a. RCRA Visual Site Inspection and Facility Sampling Plan; State of California Environmental Protection Agency Department of Toxic Substances Control; 1994.

DTSC 1994b. RCRA Facility Assessment Report; State of California Environmental Protection Agency Department of Toxic Substances Control; June 1994.

Geological Research, 1994. Environmental Site Assessment and Soil Analyses Report; Geological Research, Newport Beach, CA., September 30, 1994.

DTSC, 1995a. Letter to Dico Re: Tank Assessment; State of California Environmental Protection Agency Department of Toxic Substances Control; February 10, 1995.

DTSC 1995b. Statement of Basis Intent to Deny a Permit To Operate Under California Hazardous Waste Control Laws, DTSC, Glendale, CA. 1995

DTSC 1995c. Final Permit Decision, DTSC, Glendale, CA. 6/19/95

Superfund Technical Assessment and Response Team Analytical Data Package for Samples collected on June 20, 2003

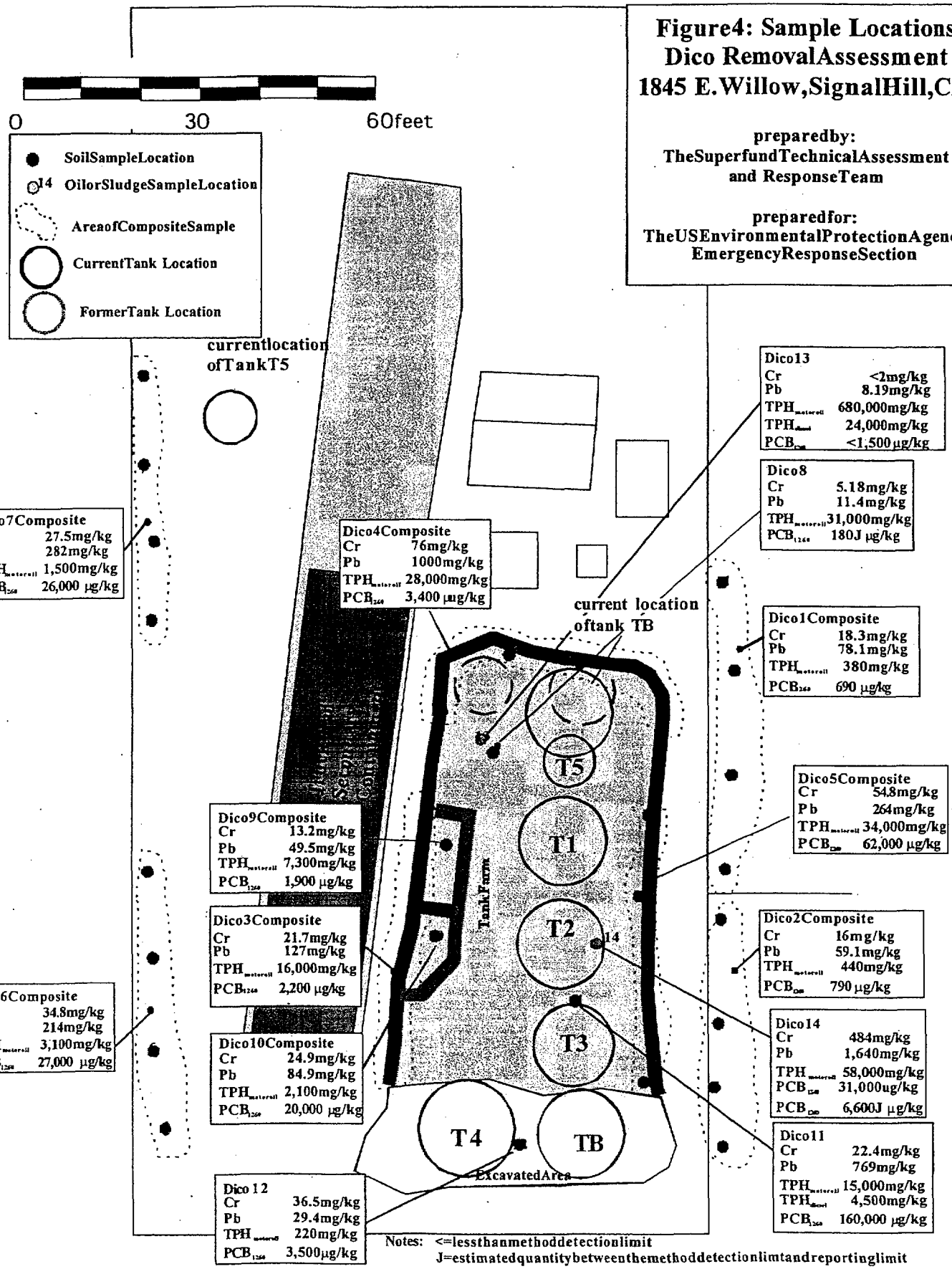
Appendix 1

Figure 4: Sample Locations Dico Removal Assessment

Figure4: Sample Locations Dico RemovalAssessment 1845 E.Willow,SignalHill,CA

preparedby:
TheSuperfundTechnicalAssessment and ResponseTeam

preparedfor:
TheUSEnvironmentalProtectionAgency EmergencyResponseSection



Notes: <=lessthanmethoddetectionlimit
J=estimatedquantitybetweenthemethoddetectionlimtandreportinglimit

Appendix 2

Table 1: Historical Data for the Dico Oil Co. Site

Table 1: Historical Data for the Dico Oil Company Site, 1845 E. Willow St., Sig

Sample	Method	Analyte	Result	units	depth
Ball, 1988. Geotechnical Report, Subsurface Tank Site at 2623 Gardenia Aven					
1-14.5'	418.1	TPH	22.5	mg/kg	14.5
2-12.5'	418.1	TPH	27.1	mg/kg	12.5
3-10.0'	418.1	TPH	945.3	mg/kg	10
4-15.5'	418.1	TPH	19.7	mg/kg	15.5
E&E, 1990 quoting Bryant and Associates, 1989					
unknown	418.1	TPH	44,000	mg/kg	0
unknown	VOCs	VOCs	ND		0
unknown	metals	Pb	340	mg/kg	0
unknown	metals	Cr	37	mg/kg	0
DOHS, 1989. Hazard Appraisal and Recognition Plan Daily Site Visit Docume California, Department of Health Services, 1989.					
1	8082	PCB 1260	1.4	mg/kg	0
2	8082	PCB 1260	160	mg/kg	0
3	8082	PCB 1260	180	mg/kg	0
DTSC 1994a. RCRA Visual Site Inspection and Facility Sampling Plan; State Agency Department of Toxic Substances Control; 1994.					
unknown	8082	PCB 1260	4400	mg/kg	0
unknown	8082	PCB 1260	3600	mg/kg	0
DTSC 1994a. RCRA Facility Assessment Report; State of California Environ Toxic Substances Control; 1994.					
YMDO-1	VOCs	VOCs	nd	ug/kg	0
YMDO-1	metals	metals	nd	mg/kg	0
YMDO-1	PCBs	PCB 1260	nd	mg/kg	0
YMDO-1	TPH	TPH	nd	mg/kg	0
YMDO-1	SVOCs	SVOCs	nd	mg/kg	0
YMDO-2	VOCs	toluene	3.1	ug/kg	0
YMDO-2	VOCs	ethylbenzene	3.3	ug/kg	0
YMDO-2	VOCs	m&p xylenes	23	ug/kg	0
YMDO-2	VOCs	o xylene	13	ug/kg	0
YMDO-2	VOCs	isopropylbenzene	1.8	ug/kg	0
YMDO-2	VOCs	propylbenzene	3	ug/kg	0
YMDO-2	VOCs	1,2,4 trimethylbenzene	34	ug/kg	0
YMDO-2	VOCs	sec-butylbenzene	4.6	ug/kg	0
YMDO-2	VOCs	isopropyltoluene	6.5	ug/kg	0
YMDO-2	VOCs	1,2 Dichlorobenzene	1.4	ug/kg	0
YMDO-2	VOCs	1,2,4 Trichlorobenzene	2.7	ug/kg	0
YMDO-2	VOCs	Naphthalene	24	ug/kg	0
YMDO-2	metals	lead	2300	mg/kg	0
YMDO-2	PCBs	PCB 1260	7.5	mg/kg	0
YMDO-2	SVOCs	Naphthalene	41	mg/kg	0
YMDO-2	SVOCs	Fluorene	17	mg/kg	0
YMDO-2	SVOCs	phenanthrene	45	mg/kg	0
YMDO-2	SVOCs	fluoranthene	10	mg/kg	0
YMDO-2	SVOCs	pyrene	19	mg/kg	0
YMDO-2	SVOCs	Benzo(a)anthracene	11	mg/kg	0
YMDO-2	SVOCs	chrysene	17	mg/kg	0

Table 1: Historical Data for the Dico Oil Company Site, 1845 E. Willow St., Sig

Sample	Method	Analyte	Result	units	depth
YMDO-2	SVOCs	Benzo(b)fluoranthene	8	mg/kg	0
YMDO-2	SVOCs	Benzo(a)pyrene	9.6	mg/kg	0
YMDO-2	SVOCs	2 methyl naphthalene	130	mg/kg	0
YMDO-3	VOCs	VOCs	nd	ug/kg	0
YMDO-3	metals	metals	nd	mg/kg	0
YMDO-3	PCBs	PCB 1260	nd	mg/kg	0
YMDO-3	TPH	TPH	nd	mg/kg	0
YMDO-3	SVOCs	SVOCs	nd	mg/kg	0
YMDO-4	VOCs	m&p xylenes	1.4	ug/kg	0
YMDO-4	VOCs	1,2,4 trimethylbenzene	1.5	ug/kg	0
YMDO-4	VOCs	1,2,4 Trichlorobenzene	6.7	ug/kg	0
YMDO-4	metals	metals	nd	mg/kg	0
YMDO-4	PCBs	PCB 1260	16	mg/kg	0
YMDO-4	TPH	TPH	17,000	mg/kg	0
YMDO-4	SVOCs	1,2,4 Trichlorobenzene	7	mg/kg	0
YMDO-4	SVOCs	pyrene	2	mg/kg	0
YMDO-5	VOCs	toluene	160	ug/kg	0
YMDO-5	VOCs	benzene	8.7	ug/kg	0
YMDO-5	VOCs	methylene chloride	11	ug/kg	0
YMDO-5	VOCs	tetrachloroethene	15	ug/kg	0
YMDO-5	VOCs	ethylbenzene	27	ug/kg	0
YMDO-5	VOCs	m&p xylenes	99	ug/kg	0
YMDO-5	VOCs	o xylene	43	ug/kg	0
YMDO-5	VOCs	1,3,5 trimethylbenzene	15	ug/kg	0
YMDO-5	VOCs	1,2,4 trimethylbenzene	38	ug/kg	0
YMDO-5	VOCs	1,2,4 Trichlorobenzene	114	ug/kg	0
YMDO-5	metals	metals	nd	mg/kg	0
YMDO-5	PCBs	PCB 1260	360	mg/kg	0
YMDO-5	TPH	TPH	4,300	mg/kg	0
YMDO-5	SVOCs	SVOCs	nd	mg/kg	0
YMDO-6	VOCs	m&p xylenes	1.2	ug/kg	0
YMDO-6	VOCs	1,2,4 trimethylbenzene	2.2	ug/kg	0
YMDO-6	metals	metals	nd	mg/kg	0
YMDO-6	PCBs	PCB 1260	24	mg/kg	0
YMDO-6	TPH	TPH	29,000	mg/kg	0
YMDO-6	SVOCs	pyrene	5.4	mg/kg	0
YMDO-6	SVOCs	chrysene	6.3	mg/kg	0
YMDO-7	VOCs	toluene	2.4	ug/kg	0
YMDO-7	VOCs	tetrachloroethene	2	ug/kg	0
YMDO-7	VOCs	m&p xylenes	5.7	ug/kg	0
YMDO-7	VOCs	o xylene	5.2	ug/kg	0
YMDO-7	VOCs	1,3,5 trimethylbenzene	4.2	ug/kg	0
YMDO-7	VOCs	1,2,4 trimethylbenzene	6.6	ug/kg	0
YMDO-7	VOCs	Naphthalene	2	ug/kg	0
YMDO-7	metals	metals	nd	mg/kg	0
YMDO-7	PCBs	PCB 1260	nd	mg/kg	0
YMDO-7	TPH	TPH	23,000	mg/kg	0

Table 1: Historical Data for the Dico Oil Company Site, 1845 E. Willow St., Sig

Sample	Method	Analyte	Result	units	depth
YMDO-7	SVOCs	Naphthalene	2	ug/kg	0
YMDO-7	SVOCs	methyl naphthalene	6.1	ug/kg	0
YMDO-8	VOCs	toluene	22	ug/kg	0
YMDO-8	VOCs	m&p xylenes	19	ug/kg	0
YMDO-8	VOCs	1,2,4 trimethylbenzene	10	ug/kg	0
YMDO-8	VOCs	1,2,4 Trichlorobenzene	17	ug/kg	0
YMDO-8	metals	metals	nd	mg/kg	0
YMDO-8	PCBs	PCB 1260	nd	mg/kg	0
YMDO-8	TPH	TPH	690	mg/kg	0
YMDO-8	SVOCs	SVOCs	nd	mg/kg	0
YMDO-9	VOCs	ethylbenzene	9.9	ug/kg	0
YMDO-9	VOCs	m&p xylenes	38	ug/kg	0
YMDO-9	VOCs	toluene	79	ug/kg	0
YMDO-9	VOCs	o xylene	15	ug/kg	0
YMDO-9	VOCs	1,2,4 trimethylbenzene	11	ug/kg	0
YMDO-9	metals	metals	nd	mg/kg	0
YMDO-9	PCBs	PCB 1260	1.1	ug/kg	0
YMDO-9	TPH	TPH	1,700	mg/kg	0
YMDO-9	SVOCs	SVOCs	nd	mg/kg	0

Geological Research, 1994. Environmental Site Assessment and Soil Analyses September, 1994

HA-1	TPH	TPH	nd	mg/kg	3
HA-1	metals	chromium	nd	mg/kg	3
HA-1	metals	lead	nd	mg/kg	3
HA-1	PCBs	PCB 1260	nd	ug/kg	3
HA-1	VOCs	acetone	nd	ug/kg	3
HA-1	VOCs	benzene	33	ug/kg	3
HA-1	VOCs	2-butanone	nd	ug/kg	3
HA-1	VOCs	ethylbenzene	nd	ug/kg	3
HA-1	VOCs	tetrachloroethene	nd	ug/kg	3
HA-1	VOCs	1,1,1 trichloroethane	nd	ug/kg	3
HA-1	VOCs	toluene	230	ug/kg	3
HA-1	VOCs	xylenes	7,500	ug/kg	3
HA-1	TPH	TPH	12	mg/kg	6
HA-1	metals	chromium	nd	mg/kg	6
HA-1	metals	lead	5.7	mg/kg	6
HA-1	PCBs	PCB 1260	51	ug/kg	6
HA-1	VOCs	acetone	nd	ug/kg	6
HA-1	VOCs	benzene	nd	ug/kg	6
HA-1	VOCs	2-butanone	nd	ug/kg	6
HA-1	VOCs	ethylbenzene	nd	ug/kg	6
HA-1	VOCs	tetrachloroethene	nd	ug/kg	6
HA-1	VOCs	1,1,1 trichloroethane	nd	ug/kg	6
HA-1	VOCs	toluene	11	ug/kg	6
HA-1	VOCs	xylenes	33	ug/kg	6
HA-1	TPH	TPH	nd	mg/kg	9
HA-1	metals	chromium	nd	mg/kg	9

Table 1: Historical Data for the Dico Oil Company Site, 1845 E. Willow St., Sig

Sample	Method	Analyte	Result	units	depth
HA-1	metals	lead	nd	mg/kg	9
HA-1	PCBs	PCB 1260	66	ug/kg	9
HA-1	VOCs	acetone	nd	ug/kg	9
HA-1	VOCs	benzene	nd	ug/kg	9
HA-1	VOCs	2-butanone	nd	ug/kg	9
HA-1	VOCs	ethylbenzene	nd	ug/kg	9
HA-1	VOCs	tetrachloroethene	nd	ug/kg	9
HA-1	VOCs	1,1,1 trichloroethane	nd	ug/kg	9
HA-1	VOCs	toluene	24	ug/kg	9
HA-1	VOCs	xylenes	100	ug/kg	9
HA-2	TPH	TPH	160	mg/kg	3
HA-2	metals	chromium	nd	mg/kg	3
HA-2	metals	lead	nd	mg/kg	3
HA-2	PCBs	PCB 1260	250	ug/kg	3
HA-2	VOCs	acetone	nd	ug/kg	3
HA-2	VOCs	benzene	nd	ug/kg	3
HA-2	VOCs	2-butanone	nd	ug/kg	3
HA-2	VOCs	ethylbenzene	nd	ug/kg	3
HA-2	VOCs	tetrachloroethene	nd	ug/kg	3
HA-2	VOCs	1,1,1 trichloroethane	nd	ug/kg	3
HA-2	VOCs	toluene	nd	ug/kg	3
HA-2	VOCs	xylenes	nd	ug/kg	3
HA-2	TPH	TPH	nd	mg/kg	6
HA-2	metals	chromium	nd	mg/kg	6
HA-2	metals	lead	nd	mg/kg	6
HA-2	PCBs	PCB 1260	89	ug/kg	6
HA-2	VOCs	acetone	18	ug/kg	6
HA-2	VOCs	benzene	nd	ug/kg	6
HA-2	VOCs	2-butanone	nd	ug/kg	6
HA-2	VOCs	ethylbenzene	nd	ug/kg	6
HA-2	VOCs	tetrachloroethene	5	ug/kg	6
HA-2	VOCs	1,1,1 trichloroethane	nd	ug/kg	6
HA-2	VOCs	toluene	6	ug/kg	6
HA-2	VOCs	xylenes	17	ug/kg	6
HA-2	TPH	TPH	nd	mg/kg	9
HA-2	metals	chromium	8.9	mg/kg	9
HA-2	metals	lead	nd	mg/kg	9
HA-2	PCBs	PCB 1260	nd	ug/kg	9
HA-2	VOCs	acetone	nd	ug/kg	9
HA-2	VOCs	benzene	nd	ug/kg	9
HA-2	VOCs	2-butanone	nd	ug/kg	9
HA-2	VOCs	ethylbenzene	nd	ug/kg	9
HA-2	VOCs	tetrachloroethene	nd	ug/kg	9
HA-2	VOCs	1,1,1 trichloroethane	nd	ug/kg	9
HA-2	VOCs	toluene	nd	ug/kg	9
HA-2	VOCs	xylenes	nd	ug/kg	9
HA-3	TPH	TPH	100	mg/kg	3

Table 1: Historical Data for the Dico Oil Company Site, 1845 E. Willow St., Sig

Sample	Method	Analyte	Result	units	depth
HA-3	metals	chromium	nd	mg/kg	3
HA-3	metals	lead	nd	mg/kg	3
HA-3	PCBs	PCB 1260	44	ug/kg	3
HA-3	VOCs	acetone	nd	ug/kg	3
HA-3	VOCs	benzene	nd	ug/kg	3
HA-3	VOCs	2-butanone	nd	ug/kg	3
HA-3	VOCs	ethylbenzene	nd	ug/kg	3
HA-3	VOCs	tetrachloroethene	nd	ug/kg	3
HA-3	VOCs	1,1,1 trichloroethane	nd	ug/kg	3
HA-3	VOCs	toluene	nd	ug/kg	3
HA-3	VOCs	xylenes	nd	ug/kg	3
HA-3	TPH	TPH	nd	mg/kg	6
HA-3	metals	chromium	nd	mg/kg	6
HA-3	metals	lead	nd	mg/kg	6
HA-3	PCBs	PCB 1260	nd	ug/kg	6
HA-3	VOCs	acetone	nd	ug/kg	6
HA-3	VOCs	benzene	nd	ug/kg	6
HA-3	VOCs	2-butanone	nd	ug/kg	6
HA-3	VOCs	ethylbenzene	nd	ug/kg	6
HA-3	VOCs	tetrachloroethene	nd	ug/kg	6
HA-3	VOCs	1,1,1 trichloroethane	nd	ug/kg	6
HA-3	VOCs	toluene	nd	ug/kg	6
HA-3	VOCs	xylenes	nd	ug/kg	6
HA-3	TPH	TPH	nd	mg/kg	9
HA-3	metals	chromium	nd	mg/kg	9
HA-3	metals	lead	nd	mg/kg	9
HA-3	PCBs	PCB 1260	nd	ug/kg	9
HA-3	VOCs	acetone	nd	ug/kg	9
HA-3	VOCs	benzene	nd	ug/kg	9
HA-3	VOCs	2-butanone	nd	ug/kg	9
HA-3	VOCs	ethylbenzene	nd	ug/kg	9
HA-3	VOCs	tetrachloroethene	nd	ug/kg	9
HA-3	VOCs	1,1,1 trichloroethane	nd	ug/kg	9
HA-3	VOCs	toluene	nd	ug/kg	9
HA-3	VOCs	xylenes	nd	ug/kg	9
HA-4	TPH	TPH	1100	mg/kg	3
HA-4	metals	chromium	nd	mg/kg	3
HA-4	metals	lead	nd	mg/kg	3
HA-4	PCBs	PCB 1260	nd	ug/kg	3
HA-4	VOCs	acetone	98	ug/kg	3
HA-4	VOCs	benzene	nd	ug/kg	3
HA-4	VOCs	2-butanone	51	ug/kg	3
HA-4	VOCs	ethylbenzene	570	ug/kg	3
HA-4	VOCs	tetrachloroethene	110	ug/kg	3
HA-4	VOCs	1,1,1 trichloroethane	52	ug/kg	3
HA-4	VOCs	toluene	1400	ug/kg	3
HA-4	VOCs	xylenes	2,900	ug/kg	3

Table 1: Historical Data for the Dico Oil Company Site, 1845 E. Willow St., Sig

Sample	Method	Analyte	Result	units	depth
HA-4	TPH	TPH	11	mg/kg	6
HA-4	metals	chromium	nd	mg/kg	6
HA-4	metals	lead	nd	mg/kg	6
HA-4	PCBs	PCB 1260	nd	ug/kg	6
HA-4	VOCs	acetone	nd	ug/kg	6
HA-4	VOCs	benzene	nd	ug/kg	6
HA-4	VOCs	2-butanone	nd	ug/kg	6
HA-4	VOCs	ethylbenzene	33	ug/kg	6
HA-4	VOCs	tetrachloroethene	8	ug/kg	6
HA-4	VOCs	1,1,1 trichloroethane	nd	ug/kg	6
HA-4	VOCs	toluene	69	ug/kg	6
HA-4	VOCs	xylenes	250	ug/kg	6
HA-4	TPH	TPH	nd	mg/kg	9
HA-4	metals	chromium	nd	mg/kg	9
HA-4	metals	lead	nd	mg/kg	9
HA-4	PCBs	PCB 1260	nd	ug/kg	9
HA-4	VOCs	acetone	nd	ug/kg	9
HA-4	VOCs	benzene	nd	ug/kg	9
HA-4	VOCs	2-butanone	nd	ug/kg	9
HA-4	VOCs	ethylbenzene	nd	ug/kg	9
HA-4	VOCs	tetrachloroethene	nd	ug/kg	9
HA-4	VOCs	1,1,1 trichloroethane	nd	ug/kg	9
HA-4	VOCs	toluene	nd	ug/kg	9
HA-4	VOCs	xylenes	nd	ug/kg	9
HA-5	TPH	TPH	10,000	mg/kg	3
HA-5	metals	chromium	nd	mg/kg	3
HA-5	metals	lead	nd	mg/kg	3
HA-5	PCBs	PCB 1260	1,500	ug/kg	3
HA-5	VOCs	acetone	220	ug/kg	3
HA-5	VOCs	benzene	48	ug/kg	3
HA-5	VOCs	2-butanone	nd	ug/kg	3
HA-5	VOCs	ethylbenzene	nd	ug/kg	3
HA-5	VOCs	tetrachloroethene	nd	ug/kg	3
HA-5	VOCs	1,1,1 trichloroethane	nd	ug/kg	3
HA-5	VOCs	toluene	nd	ug/kg	3
HA-5	VOCs	xylenes	nd	ug/kg	3
HA-5	TPH	TPH	1,300	mg/kg	6
HA-5	metals	chromium	nd	mg/kg	6
HA-5	metals	lead	nd	mg/kg	6
HA-5	PCBs	PCB 1260	200	ug/kg	6
HA-5	VOCs	acetone	nd	ug/kg	6
HA-5	VOCs	benzene	nd	ug/kg	6
HA-5	VOCs	2-butanone	nd	ug/kg	6
HA-5	VOCs	ethylbenzene	nd	ug/kg	6
HA-5	VOCs	tetrachloroethene	nd	ug/kg	6
HA-5	VOCs	1,1,1 trichloroethane	nd	ug/kg	6
HA-5	VOCs	toluene	56	ug/kg	6

Table 1: Historical Data for the Dico Oil Company Site, 1845 E. Willow St., Sig

Sample	Method	Analyte	Result	units	depth
HA-5	VOCs	xylenes	350	ug/kg	6
HA-5	TPH	TPH	790	mg/kg	9
HA-5	metals	chromium	5.2	mg/kg	9
HA-5	metals	lead	nd	mg/kg	9
HA-5	PCBs	PCB 1260	nd	ug/kg	9
HA-5	VOCs	acetone	98	ug/kg	9
HA-5	VOCs	benzene	nd	ug/kg	9
HA-5	VOCs	2-butanone	nd	ug/kg	9
HA-5	VOCs	ethylbenzene	nd	ug/kg	9
HA-5	VOCs	tetrachloroethene	nd	ug/kg	9
HA-5	VOCs	1,1,1 trichloroethane	nd	ug/kg	9
HA-5	VOCs	toluene	nd	ug/kg	9
HA-5	VOCs	xylenes	nd	ug/kg	9
HA-6	TPH	TPH	nd	mg/kg	3
HA-6	metals	chromium	nd	mg/kg	3
HA-6	metals	lead	nd	mg/kg	3
HA-6	PCBs	PCB 1260	nd	mg/kg	3
HA-6	VOCs	acetone	nd	ug/kg	3
HA-6	VOCs	benzene	nd	ug/kg	3
HA-6	VOCs	2-butanone	nd	ug/kg	3
HA-6	VOCs	ethylbenzene	nd	ug/kg	3
HA-6	VOCs	tetrachloroethene	nd	ug/kg	3
HA-6	VOCs	1,1,1 trichloroethane	nd	ug/kg	3
HA-6	VOCs	toluene	nd	ug/kg	3
HA-6	VOCs	xylenes	nd	ug/kg	3
HA-6	TPH	TPH	nd	mg/kg	6
HA-6	metals	chromium	nd	mg/kg	6
HA-6	metals	lead	nd	mg/kg	6
HA-6	PCBs	PCB 1260	nd	mg/kg	6
HA-6	VOCs	acetone	nd	ug/kg	6
HA-6	VOCs	benzene	nd	ug/kg	6
HA-6	VOCs	2-butanone	nd	ug/kg	6
HA-6	VOCs	ethylbenzene	nd	ug/kg	6
HA-6	VOCs	tetrachloroethene	nd	ug/kg	6
HA-6	VOCs	1,1,1 trichloroethane	nd	ug/kg	6
HA-6	VOCs	toluene	nd	ug/kg	6
HA-6	VOCs	xylenes	nd	ug/kg	6
HA-6	TPH	TPH	nd	mg/kg	9
HA-6	metals	chromium	nd	mg/kg	9
HA-6	metals	lead	nd	mg/kg	9
HA-6	PCBs	PCB 1260	nd	mg/kg	9
HA-6	VOCs	acetone	nd	ug/kg	9
HA-6	VOCs	benzene	nd	ug/kg	9
HA-6	VOCs	2-butanone	nd	ug/kg	9
HA-6	VOCs	ethylbenzene	nd	ug/kg	9
HA-6	VOCs	tetrachloroethene	nd	ug/kg	9
HA-6	VOCs	1,1,1 trichloroethane	nd	ug/kg	9

Table 1: Historical Data for the Dico Oil Company Site, 1845 E. Willow St., Sig

Sample	Method	Analyte	Result	units	depth
HA-6	VOCs	toluene	nd	ug/kg	9
HA-6	VOCs	xylenes	nd	ug/kg	9
HA-7	TPH	TPH	nd	mg/kg	3
HA-7	metals	chromium	7.5	mg/kg	3
HA-7	metals	lead	nd	mg/kg	3
HA-7	PCBs	PCB 1260	nd	mg/kg	3
HA-7	VOCs	acetone	nd	ug/kg	3
HA-7	VOCs	benzene	nd	ug/kg	3
HA-7	VOCs	2-butanone	nd	ug/kg	3
HA-7	VOCs	ethylbenzene	nd	ug/kg	3
HA-7	VOCs	tetrachloroethene	nd	ug/kg	3
HA-7	VOCs	1,1,1 trichloroethane	nd	ug/kg	3
HA-7	VOCs	toluene	nd	ug/kg	3
HA-7	VOCs	xylenes	nd	ug/kg	3
HA-7	TPH	TPH	nd	mg/kg	6
HA-7	metals	chromium	nd	mg/kg	6
HA-7	metals	lead	nd	mg/kg	6
HA-7	PCBs	PCB 1260	nd	mg/kg	6
HA-7	VOCs	acetone	nd	ug/kg	6
HA-7	VOCs	benzene	nd	ug/kg	6
HA-7	VOCs	2-butanone	nd	ug/kg	6
HA-7	VOCs	ethylbenzene	nd	ug/kg	6
HA-7	VOCs	tetrachloroethene	nd	ug/kg	6
HA-7	VOCs	1,1,1 trichloroethane	nd	ug/kg	6
HA-7	VOCs	toluene	nd	ug/kg	6
HA-7	VOCs	xylenes	nd	ug/kg	6
HA-7	TPH	TPH	nd	mg/kg	9
HA-7	metals	chromium	nd	mg/kg	9
HA-7	metals	lead	nd	mg/kg	9
HA-7	PCBs	PCB 1260	nd	mg/kg	9
HA-7	VOCs	acetone	nd	ug/kg	9
HA-7	VOCs	benzene	nd	ug/kg	9
HA-7	VOCs	2-butanone	nd	ug/kg	9
HA-7	VOCs	ethylbenzene	nd	ug/kg	9
HA-7	VOCs	tetrachloroethene	nd	ug/kg	9
HA-7	VOCs	1,1,1 trichloroethane	nd	ug/kg	9
HA-7	VOCs	toluene	nd	ug/kg	9
HA-7	VOCs	xylenes	nd	ug/kg	9
HA-8	TPH	TPH	nd	mg/kg	3
HA-8	metals	chromium	nd	mg/kg	3
HA-8	metals	lead	nd	mg/kg	3
HA-8	PCBs	PCB 1260	4,500	ug/kg	3
HA-8	VOCs	acetone	nd	ug/kg	3
HA-8	VOCs	benzene	nd	ug/kg	3
HA-8	VOCs	2-butanone	nd	ug/kg	3
HA-8	VOCs	ethylbenzene	nd	ug/kg	3
HA-8	VOCs	tetrachloroethene	190	ug/kg	3

Table 1: Historical Data for the Dico Oil Company Site, 1845 E. Willow St., Sig

Sample	Method	Analyte	Result	units	depth
HA-8	VOCs	1,1,1 trichloroethane	nd	ug/kg	3
HA-8	VOCs	toluene	230	ug/kg	3
HA-8	VOCs	xylenes	1,100	ug/kg	3
HA-8	TPH	TPH	1,800	mg/kg	6
HA-8	metals	chromium	nd	mg/kg	6
HA-8	metals	lead	nd	mg/kg	6
HA-8	PCBs	PCB 1260	410	ug/kg	6
HA-8	VOCs	acetone	nd	ug/kg	6
HA-8	VOCs	benzene	nd	ug/kg	6
HA-8	VOCs	2-butanone	nd	ug/kg	6
HA-8	VOCs	ethylbenzene	nd	ug/kg	6
HA-8	VOCs	tetrachloroethene	nd	ug/kg	6
HA-8	VOCs	1,1,1 trichloroethane	nd	ug/kg	6
HA-8	VOCs	toluene	nd	ug/kg	6
HA-8	VOCs	xylenes	150	ug/kg	6
HA-8	TPH	TPH	nd	mg/kg	9
HA-8	metals	chromium	nd	mg/kg	9
HA-8	metals	lead	nd	mg/kg	9
HA-8	PCBs	PCB 1260	2,600	ug/kg	9
HA-8	VOCs	acetone	95	ug/kg	9
HA-8	VOCs	benzene	nd	ug/kg	9
HA-8	VOCs	2-butanone	nd	ug/kg	9
HA-8	VOCs	ethylbenzene	nd	ug/kg	9
HA-8	VOCs	tetrachloroethene	nd	ug/kg	9
HA-8	VOCs	1,1,1 trichloroethane	nd	ug/kg	9
HA-8	VOCs	toluene	nd	ug/kg	9
HA-8	VOCs	xylenes	67	ug/kg	9

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APPENDIX B

ANALYTICAL REPORTS

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Meredith & Associates, Inc (10577)
ATTN: Roger McCracken
9841 Airport Blvd.
Suite 1010
Los Angeles, CA 90045-5409

LAB REQUEST 122625
REPORTED 01/21/2004
RECEIVED 01/09/2004

PROJECT #2003-123 Dico Oil

SUBMITTER Client

COMMENTS Added TCLP/STLC Lead to order #489849 on 2-4-04.

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.	Client Sample Identification
489849	B-84-3"
489850	B-84-2.5
489851	B-84-5
489852	B-84-8
489853	B-84-10
489854	B-84-15
489855	B-84-22
489856	B-66-15
489857	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.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 489849 **Client Sample ID**: B-84-3"

Matrix: SOLID

Date Sampled: 01/09/2004
Time Sampled: 12:32

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	27.4	1	1.0	0.14	mg/Kg	01/14/04 KN
6010B	Lead	179	1	0.5	0.16	mg/Kg	01/14/04 KN
1311/6010	Lead TCLP	0.256	1	0.05	0.002	mg/L	02/06/04 KN
6010/STLC	Lead, STLC	6.98	10	0.05	0.002	mg/L	02/06/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/17/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/17/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/17/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/17/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/17/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/17/04 RB
8082	PCB-1260	0.20	1	0.03	0.002	mg/Kg	01/17/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	100				%	50 - 135
8015	Diesel	14900	400	1200.0	0.7	mg/Kg	01/14/04 AF
8015	Oil	ND	400	2000.0		mg/Kg	01/14/04 AF

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489850 **Client Sample ID:** B-84-2.5

Matrix: SOLID

Date Sampled: 01/09/2004
Time Sampled: 11:38

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	11.4	1	1.0	0.14	mg/Kg	01/14/04 KN
6010B	Lead	1.68	1	0.5	0.16	mg/Kg	01/14/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/17/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/17/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/17/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/17/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/17/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/17/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/17/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	110				%	50 - 135
8015	Diesel	10	1	3	0.7	mg/Kg	01/13/04 AF
8015	Oil	ND	1	5		mg/Kg	01/13/04 AF

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489851 **Client Sample ID:** B-84-5

Matrix: SOLID

Date Sampled: 01/09/2004
Time Sampled: 11:40

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	15.7	1	1.0	0.14	mg/Kg	01/14/04 KN
6010B	Lead	2.65	1	0.5	0.16	mg/Kg	01/14/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/17/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/17/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/17/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/17/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/17/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/17/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/17/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	109	%	50 - 135

8015	Diesel	450	100	300.0	0.7	mg/Kg	01/14/04 AF
8015	Oil	ND	100	500.0		mg/Kg	01/14/04 AF

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489852 **Client Sample ID:** B-84-8

Matrix: SOLID

Date Sampled: 01/09/2004
Time Sampled: 11:46

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	13.2	1	1.0	0.14	mg/Kg	01/14/04 KN
6010B	Lead	2.12	1	0.5	0.16	mg/Kg	01/14/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/17/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/17/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/17/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/17/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/17/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/17/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/17/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	116				%	50 - 135
8015	Diesel	60	1	3	0.7	mg/Kg	01/13/04 AF
8015	Oil	ND	1	5		mg/Kg	01/13/04 AF

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489853 **Client Sample ID:** B-84-10

Matrix: SOLID

Date Sampled: 01/09/2004
Time Sampled: 11:59

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8021B/AVO	Benzene	ND	1	0.005	0.0003	mg/Kg	01/16/04 LT
8021B/AVO	Ethyl benzene	ND	1	0.005	0.0006	mg/Kg	01/16/04 LT
TPH-DHS	Gasoline	ND	1	3	0.401	mg/Kg	01/16/04 LT
8021B/AVO	Methyl t - butyl ether	ND	1	0.035	0.0006	mg/Kg	01/16/04 LT
8021B/AVO	Toluene	ND	1	0.005	0.0007	mg/Kg	01/16/04 LT
8021B/AVO	Xylene (total)	ND	1	0.015	0.0016	mg/Kg	01/16/04 LT

Surrogates			Units	Control Limits
8021B/AVO	a,a,a-Trifluorotoluene	97	%	70 - 130
TPH-DHS	a,a,a-Trifluorotoluene	97	%	55 - 200

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489854 **Client Sample ID:** B-84-15

Matrix: SOLID

Date Sampled: 01/09/2004
Time Sampled: 12:08

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8021B/AVO	Benzene	ND	1	0.005	0.0003	mg/Kg	01/16/04 LT
8021B/AVO	Ethyl benzene	ND	1	0.005	0.0006	mg/Kg	01/16/04 LT
TPH-DHS	Gasoline	11	1	3	0.401	mg/Kg	01/16/04 LT
8021B/AVO	Methyl t - butyl ether	ND	1	0.035	0.0006	mg/Kg	01/16/04 LT
8021B/AVO	Toluene	ND	1	0.005	0.0007	mg/Kg	01/16/04 LT
8021B/AVO	Xylene (total)	ND	1	0.015	0.0016	mg/Kg	01/16/04 LT

Surrogates			Units	Control Limits
8021B/AVO	a,a,a-Trifluorotoluene	132 S	%	70 - 130
TPH-DHS	a,a,a-Trifluorotoluene	132	%	55 - 200

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489855 **Client Sample ID:** B-84-22

Matrix: SOLID

Date Sampled: 01/09/2004
Time Sampled: 12:24

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8021B/AVO	Benzene	ND	1	0.005	0.0003	mg/Kg	01/16/04 LT
8021B/AVO	Ethyl benzene	ND	1	0.005	0.0006	mg/Kg	01/16/04 LT
TPH-DHS	Gasoline	ND	1	3	0.401	mg/Kg	01/16/04 LT
8021B/AVO	Methyl t - butyl ether	ND	1	0.035	0.0006	mg/Kg	01/16/04 LT
8021B/AVO	Toluene	ND	1	0.005	0.0007	mg/Kg	01/16/04 LT
8021B/AVO	Xylene (total)	ND	1	0.015	0.0016	mg/Kg	01/16/04 LT

Surrogates			Units	Control Limits
8021B/AVO	a,a,a-Trifluorotoluene	103	%	70 - 130
TPH-DHS	a,a,a-Trifluorotoluene	103	%	55 - 200

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489856 **Client Sample ID:** B-66-15

Matrix: SOLID

Date Sampled: 01/09/2004
Time Sampled: 11:19

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8021B/AVO	Benzene	ND	1	0.005	0.0003	mg/Kg	01/16/04 LT
8021B/AVO	Ethyl benzene	0.038	1	0.005	0.0006	mg/Kg	01/16/04 LT
TPH-DHS	Gasoline	26	1	3	0.401	mg/Kg	01/16/04 LT
8021B/AVO	Methyl t - butyl ether	ND	1	0.035	0.0006	mg/Kg	01/16/04 LT
8021B/AVO	Toluene	0.027	1	0.005	0.0007	mg/Kg	01/16/04 LT
8021B/AVO	Xylene (total)	0.138	1	0.015	0.0016	mg/Kg	01/16/04 LT

Surrogates			Units	Control Limits
8021B/AVO	a,a,a-Trifluorotoluene	150 S	%	70 - 130
TPH-DHS	a,a,a-Trifluorotoluene	70	%	55 - 200

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489857 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	ND	1	1.00	0.14	mg/Kg	01/14/04 KN
6010B	Lead	ND	1	0.50	0.16	mg/Kg	01/14/04 KN
8021B/AVO	Benzene	ND	1	0.005	0.0003	mg/Kg	01/16/04 LT
8021B/AVO	Ethyl benzene	ND	1	0.005	0.0006	mg/Kg	01/16/04 LT
TPH-DHS	Gasoline	ND	1	3	0.401	mg/Kg	01/16/04 LT
8021B/AVO	Methyl t - butyl ether	ND	1	0.035	0.0006	mg/Kg	01/16/04 LT
8021B/AVO	Toluene	ND	1	0.005	0.0007	mg/Kg	01/16/04 LT
8021B/AVO	Xylene (total)	ND	1	0.015	0.0016	mg/Kg	01/16/04 LT
Surrogates						**Units**	**Control Limits**
TPH-DHS	a,a,a-Trifluorotoluene	105				%	55 - 200
8021B/AVO	a,a,a-Trifluorotoluene	105				%	70 - 130
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/17/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/17/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/17/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/17/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/17/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/17/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/17/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	111				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	01/12/04 AF
8015	Oil	ND	1	5		mg/Kg	01/12/04 AF

E\ - Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 122613-489817 QC# 011304SO3

Matrix: SOLID

Prep. Date: 01/13/04

Analysis Date: 01/14/04

Lab ID#'s in Batch: LR 122613, 122625

REPORTING UNITS = mg/Kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	6010	2.13		97	93	92	94	93	1
Chromium	6010	12.80		97	109	105	99	95	4

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - 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 = 75 -125
RPD LIMITS = 20

LCS/MB REPORT FORM

LCS Source(s) : QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank MB	Method Blank ND
Lead	6010	191	200	96	80%	120%	0.50	U
Chromium	6010	201	200	101	80%	120%	1.00	U

*Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True*

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Method Blank; ND = " U " for Non- Detected

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 122461-207

Matrix: SOLID

Extraction Method : 3545

Prep. Date: 01/12/04

Analysis Date: 01/12/04

ID#'s in Batch: LR 122461, 122625, 122686

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = mg/Kg

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
DIESEL	8015D	ND	25	26	26	104	104	0

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 = 70 - 130
RPD LIMITS = 30

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

	PREP BLK					
	Value	Result	True	%Rec	L.Limit	H.Limit
LCS	ND	20.4	25	82	70%	130%
LCSD	ND	21.2	25	85	70%	130%

LCS Result = Lab Control Sample Result
True = True Value of LCS
L.Limit / H.Limit = LCS Control Limits

SURROGATE RECOVERY

Sample No.	O-Terphenyl
QC Limit	55-200
MS	82
MSD	87
Method Blank	135
LCS	124
LCSD	128

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: 104659-962

Matrix: SOLID

Prep. Date: 01/15/04

Analysis Date: 01/15/04 - 01/16/04

ID#'s in Batch: LR 122625

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = ug/Kg

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
TPH	8015M-G	ND	5	4.90	5.00	98	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 = 70 - 130
RPD LIMITS = 30

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

	PREP BLK Value	Result	True	%Rec	L.Limit	H.Limit
LCS	ND	5.10	5	102	80%	120%
LCSD	ND	5.10	5	102	80%	120%

LCS Result = Lab Control Sample Result
True = True Value of LCS
L.Limit / H.Limit = LCS Control Limits

SURROGATE RECOVERY

Sample No.	AAA-TFT
QC Limit	**55-200**
QA Sample	103
MS	148
MSD	154
Method Blank	105
LCS	181
LCSD	141

AAA-TFT = a,a,a-Trifluorotoluene

ASSOCIATED LABORATORIES

QA REPORT FORM

QC Sample: 122625-855

Matrix: SOLID

Prep. Date: 01/15/04

Analysis Date: 01/15/04 - 01/16/04

LAB ID#'s in Batch: LR 122625

REPORTING UNITS = mg/Kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spk. Dup	%Rec MS	%Rec MSD	RPD
Benzene	8021	ND	0.04	0.044	0.044	110	110	0
Toluene	8021	ND	0.04	0.043	0.043	108	108	0
Ethylbenzene	8021	ND	0.04	0.042	0.041	105	103	2
Xylenes	8021	ND	0.12	0.126	0.121	105	101	4

ND = Not Detected
RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Dup
%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

%REC LIMITS = 70 - 130
RPD LIMITS = 30

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

Test	Method	PREP BLK	LCS			LCSD	
		Value	Result	TRUE	%Rec	Result	%Rec
Benzene	8021	ND	0.021	0.02	105	0.022	110
Toluene	8021	ND	0.021	0.02	105	0.022	110
Ethylbenzene	8021	ND	0.020	0.02	100	0.021	105
Xylenes	8021	ND	0.059	0.06	98	0.065	108

LCS = Lab Control Sample Result
TRUE = True Value of LCS
L.LIMIT / H.LIMIT = LCS Control Limits

L. Limit	H.Limit
80%	120%

SURROGATE RECOVERY

Sample No.	AAA-TFT
QC Limit	55-200
QA Sample	103
MS	103
MSD	99
Method Blank	105
LCS	102
LCSD	104

AAA-TFT = a,a,a-Trifluorotoluene

ASSOCIATED LABORATORIES
QA REPORT FORM

Determinative Method : EPA 8082 Preparative Method: EPA 3545

QC Sample: 122613-489819

Matrix: SOLID

Analysis Date: 1/15/04

Batch Date: 1/13/04 (pcb 011304s)

Applies to: LR 122589, LR 122613 and LR 122625

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULTS
REPORTING UNITS = mg/Kg

Test	Sample Result	Spike Added	Spike Recovered		% Rec		RPD	QC Limits	
			MS	MSD	MS	MSD		RPD	% Rec
Aroclor 1260	0.08	0.500	0.620	0.562	108	96	10	35	50-125

ND = Not Detected
% Rec - MS & MSD = Percent Recovery from Matrix Spike & Matrix Spike Duplicate
r = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate recoveries

LAB CONTROL SPIKE RECOVERY / METHOD BLANK
REPORTING UNITS = mg/Kg

Test	Spike Added	Spike Recovered	% Rec LCS	QC Limit
Aroclor 1260	0.500	0.518	104	70-130

Method Blank = All ND
% Rec - LCS = Percent Recovery from Lab Control Spike

ASSOCIATED LABORATORIES
806 N. Batavia • Orange, CA 92868
(714) 771-6900 • Fax: (714) 538-1209

12625

CHAIN OF CUSTODY RECORD

Date 1/9/04 Page 1 of 1

CLIENT M&A
ADDRESS 9841 Airport Rd suite 1010
LA CA 90045

PROJECT MANAGER Keith Farrell / Lynn Edlund
PHONE NUMBER 310 670 9221

PROJECT NAME DICO
2003-123

SAMPLERS: (Signature) [signature] / RMc

Samples Intact Yes X No ___ X
County Seals Intact Yes ___ No ___
Sample Ambient ___ Cooled X Frozen ___
Same Day ___ 24 Hr. ___
Regular X 48 Hr. ___

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE WATER	AIR	SOLID	NO OF CNTNRS	SUSP. CONTAM.	TESTS REQUIRED
B 84-3'	DICO - Signal Hill	1/9/04	1232			X	1	PCB oil	PCB lead chrome
B-84-2.5		1/9/04	1138			X	1	metals	TPH oil/diesel
B-84-5		1/9/04	1140			X	1		
B-84-8		1/9/04	1146			X	1		
B-84-10	~~Boring 84~~	1/9/04	1159			X	1	gasoline	gas/btex 8015/8021B ?
B-84-15		1/9/04	1208			X	1	"	Gas/TSTEX
B-84-22		1/9/04	1224			X	1	"	"
B 66 15		1/9/04	1119			X	1	"	"

Relinquished by: (Signature) [signature]
Received by: (Signature) Cupertino Olivares
Date/Time 1440 1/09/04

Relinquished by: (Signature)
Received by Laboratory for analysis: (Signature) [signature] 1-12-04 1:15
Date/Time

Special Instructions:

I hereby authorize the performance of the above indicated work.
[signature]

DISTRIBUTION: White with report. Yellow to AL, Pink to Courier

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Meredith & Associates, Inc (10577)
ATTN: Keith Farrell
9841 Airport Blvd.
Suite 1010
Los Angeles, CA 90045-5409

LAB REQUEST 123835
REPORTED 02/11/2004
RECEIVED 02/03/2004

PROJECT #2003-123 Dico Oil

SUBMITTER Client

COMMENTS * Matrix Interference

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.	Client Sample Identification
495063	Surface 1
495064	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,

ard S. Behare, Ph.D.
e President

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

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Associated Laboratories

806 N. Batavia
Orange, CA 92868

Phone: 714 771-6900 Fax: 714 538-1209

To: ROGER McCRACKEN
Company: MEREDITH
Fax: 310-670-9512

From: Kristen Portra

Subject:

Memo:

Order #: 495063 **Client Sample ID:** Surface 1

Matrix: SOLID

Date Sampled: 02/03/2004
Time Sampled: 08:48

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Antimony	3.54	1	3.0	0.62	mg/Kg	02/10/04 KN
6010B	Arsenic	12.8	1	1.0	0.72	mg/Kg	02/10/04 KN
6010B	Barium	286	1	1.0	0.05	mg/Kg	02/10/04 KN
6010B	Beryllium	0.313 J	1	0.5	0.16	mg/Kg	02/10/04 KN
6010B	Cadmium	1.02	1	0.5	0.06	mg/Kg	02/10/04 KN
6010B	Chromium	22.5	1	1.0	0.14	mg/Kg	02/10/04 KN
6010B	Cobalt	6.91	1	0.5	0.06	mg/Kg	02/10/04 KN
6010B	Copper	60.2	1	1.0	0.10	mg/Kg	02/10/04 KN
6010B	Lead	154	1	0.5	0.16	mg/Kg	02/10/04 KN
6010B	Molybdenum	9.12	1	1.0	0.38	mg/Kg	02/10/04 KN
6010B	Nickel	17.3	1	1.5	0.29	mg/Kg	02/10/04 KN
6010B	Selenium	ND	1	1.0	0.55	mg/Kg	02/10/04 KN
6010B	Silver	ND	1	0.5	0.12	mg/Kg	02/10/04 KN
6010B	Thallium	ND	1	1.0	0.33	mg/Kg	02/10/04 KN
6010B	Vanadium	29.5	1	0.5	0.17	mg/Kg	02/10/04 KN
6010B	Zinc	178	1	5.0	0.07	mg/Kg	02/10/04 KN
1030	Ignitability of Solids	Passes	1			P/F	02/06/04 HK
7471A	Mercury	0.31	1	0.14	0.02	mg/Kg	02/06/04 MDJ
TPH-DHS	Gasoline	4.1	1	3	0.401	mg/Kg	02/04/04 LT
Surrogates						**Units**	**Control Limits**
TPH-DHS	a,a,a-Trifluorotoluene	83				%	55 - 200
8270C	1,2,4-Trichlorobenzene	ND	10	3330.0	32.1	ug/Kg	02/08/04 DP
8270C	1,2-Dichlorobenzene	ND	10	3330.0	69.1	ug/Kg	02/08/04 DP
8270C	1,3-Dichlorobenzene	ND	10	3330.0	133.5	ug/Kg	02/08/04 DP
8270C	1,4-Dichlorobenzene	ND	10	3330.0	58.0	ug/Kg	02/08/04 DP
8270C	2,4,5-Trichlorophenol	ND	10	16650.0	33.6	ug/Kg	02/08/04 DP
8270C	2,4,6-Trichlorophenol	ND	10	16650.0	31.9	ug/Kg	02/08/04 DP
8270C	2,4-Dichlorophenol	ND	10	3330.0	35.3	ug/Kg	02/08/04 DP
8270C	2,4-Dimethylphenol	ND	10	3330.0	37.1	ug/Kg	02/08/04 DP
8270C	2,4-Dinitrophenol	ND	10	16650.0	60.5	ug/Kg	02/08/04 DP

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 495063 **Client Sample ID:** Surface 1

Matrix: SOLID

Date Sampled: 02/03/2004
Time Sampled: 08:48

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	2,4-Dinitrotoluene	ND	10	3330.0	58.4	ug/Kg	02/08/04 DP
8270C	2,6-Dinitrotoluene	ND	10	3330.0	50.4	ug/Kg	02/08/04 DP
8270C	2-Chloronaphthalene	ND	10	3330.0	18.2	ug/Kg	02/08/04 DP
8270C	2-Chlorophenol	ND	10	3330.0	230.8	ug/Kg	02/08/04 DP
8270C	2-Methylnaphthalene	ND	10	3330.0	31.6	ug/Kg	02/08/04 DP
8270C	2-Methylphenol	ND	10	3330.0	194.3	ug/Kg	02/08/04 DP
8270C	2-Nitroaniline	ND	10	16650.0	30.8	ug/Kg	02/08/04 DP
8270C	2-Nitrophenol	ND	10	3330.0	63.4	ug/Kg	02/08/04 DP
8270C	3,3-Dichlorobenzidine	ND	10	3330.0	52.3	ug/Kg	02/08/04 DP
8270C	3-Methylphenol	ND	10	3330.0	211.4	ug/Kg	02/08/04 DP
8270C	3-Nitroaniline	ND	10	16650.0	31.1	ug/Kg	02/08/04 DP
8270C	4,6-Dinitro-2-methylphenol	ND	10	16650.0	44.9	ug/Kg	02/08/04 DP
8270C	4-Bromophenyl-phenylether	ND	10	3330.0	29.6	ug/Kg	02/08/04 DP
8270C	4-Chloro-3-methylphenol	ND	10	3330.0	48.8	ug/Kg	02/08/04 DP
8270C	4-Chloroaniline	ND	10	3330.0	19.2	ug/Kg	02/08/04 DP
8270C	4-Chlorophenyl-phenylether	ND	10	3330.0	38.1	ug/Kg	02/08/04 DP
8270C	4-Methylphenol	ND	10	3330.0	211.4	ug/Kg	02/08/04 DP
8270C	4-Nitroaniline	ND	10	16650.0	134.9	ug/Kg	02/08/04 DP
8270C	4-Nitrophenol	ND	10	16650.0	84.8	ug/Kg	02/08/04 DP
8270C	Acenaphthene	ND	10	3330.0	17.4	ug/Kg	02/08/04 DP
8270C	Acenaphthylene	ND	10	3330.0	14.8	ug/Kg	02/08/04 DP
8270C	Anthracene	ND	10	3330.0	9.9	ug/Kg	02/08/04 DP
8270C	Benzidine	ND	10	3330.0	260	ug/Kg	02/08/04 DP
8270C	Benzo(a)anthracene	ND	10	3330.0	26.2	ug/Kg	02/08/04 DP
8270C	Benzo(a)pyrene	ND	10	3330.0	20.0	ug/Kg	02/08/04 DP
8270C	Benzo(b)fluoranthene	ND	10	3330.0	29.9	ug/Kg	02/08/04 DP
8270C	Benzo(g,h,i)perylene	ND	10	3330.0	13.9	ug/Kg	02/08/04 DP
8270C	Benzo(k)fluoranthene	ND	10	3330.0	23.7	ug/Kg	02/08/04 DP
8270C	Benzoic Acid	ND	10	3330.0	70.0	ug/Kg	02/08/04 DP
8270C	Benzyl alcohol	ND	10	3330.0	197.0	ug/Kg	02/08/04 DP
8270C	bis(2-Chloroethoxy)methane	ND	10	3330.0	22.6	ug/Kg	02/08/04 DP
8270C	bis(2-Chloroethyl)ether	ND	10	3330.0	291.5	ug/Kg	02/08/04 DP
8270C	bis(2-Chloroisopropyl) ether	ND	10	3330.0	275.3	ug/Kg	02/08/04 DP
8270C	bis(2-Ethylhexyl)phthalate	ND	10	3330.0	36.1	ug/Kg	02/08/04 DP
8270C	Butylbenzylphthalate	ND	10	3330.0	25.9	ug/Kg	02/08/04 DP
8270C	Chrysene	ND	10	3330.0	38.0	ug/Kg	02/08/04 DP
8270C	Di-n-butylphthalate	ND	10	3330.0	30.7	ug/Kg	02/08/04 DP
8270C	Di-n-octylphthalate	ND	10	3330.0	66.3	ug/Kg	02/08/04 DP
8270C	Dibenz(a,h)anthracene	ND	10	3330.0	32.3	ug/Kg	02/08/04 DP

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 495063 **Client Sample ID:** Surface 1

Matrix: SOLID

Date Sampled: 02/03/2004
Time Sampled: 08:48

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	Dibenzofuran	ND	10	3330.0	16.4	ug/Kg	02/08/04 DP
8270C	Diethylphthalate	ND	10	3330.0	43.8	ug/Kg	02/08/04 DP
8270C	Dimethylphthalate	ND	10	3330.0	28.6	ug/Kg	02/08/04 DP
8270C	Fluoranthene	ND	10	3330.0	28.2	ug/Kg	02/08/04 DP
8270C	Fluorene	ND	10	3330.0	19.3	ug/Kg	02/08/04 DP
8270C	Hexachlorobenzene	ND	10	3330.0	49.4	ug/Kg	02/08/04 DP
8270C	Hexachlorobutadiene	ND	10	3330.0	40.1	ug/Kg	02/08/04 DP
8270C	Hexachlorocyclopentadiene	ND	10	3330.0	48.3	ug/Kg	02/08/04 DP
8270C	Hexachloroethane	ND	10	3330.0	180.8	ug/Kg	02/08/04 DP
8270C	Indeno(1,2,3-c,d)pyrene	ND	10	3330.0	36.1	ug/Kg	02/08/04 DP
8270C	Isophorone	ND	10	3330.0	30.4	ug/Kg	02/08/04 DP
8270C	N-Nitroso-di-n-propylamine	ND	10	3330.0	221.8	ug/Kg	02/08/04 DP
8270C	N-Nitrosodiphenylamine	ND	10	3330.0	29.1	ug/Kg	02/08/04 DP
8270C	Naphthalene	ND	10	3330.0	15.6	ug/Kg	02/08/04 DP
8270C	Nitrobenzene	ND	10	3330.0	60.6	ug/Kg	02/08/04 DP
8270C	Pentachlorophenol	ND	10	16650.0	38.0	ug/Kg	02/08/04 DP
8270C	Phenanthrene	ND	10	3330.0	19.4	ug/Kg	02/08/04 DP
8270C	Phenol	ND	10	3330.0	229.8	ug/Kg	02/08/04 DP
8270C	Pyrene	ND	10	3330.0	28.2	ug/Kg	02/08/04 DP

Surrogates				Units	Control Limits
8270C	2,4,6-Tribromophenol (sur)	98		%	17 - 122
8270C	2-Fluorobiphenyl (sur)	106		%	30 - 115
8270C	2-Fluorophenol (sur)	60		%	25 - 121
8270C	Nitrobenzene-d5 (sur)	107		%	23 - 120
8270C	Phenol-d5 (sur)	116	S	%	24 - 113
8270C	Terphenyl-d14 (sur)	93		%	18 - 137

8260B	1,1,1,2-Tetrachloroethane	ND	100	500.0	2.19	ug/Kg	02/09/04 AM
8260B	1,1,1-Trichloroethane	ND	100	500.0	0.47	ug/Kg	02/09/04 AM
8260B	1,1,2,2-Tetrachloroethane	ND	100	500.0	0.50	ug/Kg	02/09/04 AM
8260B	1,1,2-Trichloroethane	ND	100	500.0	0.57	ug/Kg	02/09/04 AM
8260B	1,1,2-Trichlorotrifluoroethane	ND	100	500.0	0.10	ug/Kg	02/09/04 AM
8260B	1,1-Dichloroethane	ND	100	500.0	0.74	ug/Kg	02/09/04 AM
8260B	1,1-Dichloroethene	ND	100	500.0	0.43	ug/Kg	02/09/04 AM
8260B	1,1-Dichloropropene	ND	100	500.0	1.30	ug/Kg	02/09/04 AM
8260B	1,2,3-Trichlorobenzene	ND	100	500.0	0.54	ug/Kg	02/09/04 AM
8260B	1,2,3-Trichloropropane	ND	100	500.0	0.65	ug/Kg	02/09/04 AM

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 495063 **Client Sample ID:** Surface 1

Matrix: SOLID

Date Sampled: 02/03/2004
Time Sampled: 08:48

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	1,2,4-Trichlorobenzene	633	100	500.0	0.54	ug/Kg	02/09/04 AM
8260B	1,2,4-Trimethylbenzene	ND	100	500.0	0.60	ug/Kg	02/09/04 AM
8260B	1,2-Dibromo-3-chloropropane	ND	100	500.0	1.92	ug/Kg	02/09/04 AM
8260B	1,2-Dibromoethane	ND	100	500.0	0.43	ug/Kg	02/09/04 AM
8260B	1,2-Dichlorobenzene	ND	100	500.0	0.45	ug/Kg	02/09/04 AM
8260B	1,2-Dichloroethane	ND	100	500.0	0.59	ug/Kg	02/09/04 AM
8260B	1,2-Dichloropropane	ND	100	500.0	0.58	ug/Kg	02/09/04 AM
8260B	1,3,5-Trimethylbenzene	ND	100	500.0	0.55	ug/Kg	02/09/04 AM
8260B	1,3-Dichlorobenzene	ND	100	500.0	0.44	ug/Kg	02/09/04 AM
8260B	1,3-Dichloropropane	ND	100	500.0	0.51	ug/Kg	02/09/04 AM
8260B	1,4-Dichlorobenzene	ND	100	500.0	0.46	ug/Kg	02/09/04 AM
8260B	1-Chlorohexane	ND	100	500.0	0.38	ug/Kg	02/09/04 AM
8260B	2,2-Dichloropropane	ND	100	500.0	0.47	ug/Kg	02/09/04 AM
8260B	2-Butanone (MEK)	ND	100	10000.0	0.98	ug/Kg	02/09/04 AM
8260B	2-Chloroethyl vinyl ether	ND	100	500.0	0.46	ug/Kg	02/09/04 AM
8260B	2-Chlorotoluene	ND	100	500.0	0.92	ug/Kg	02/09/04 AM
8260B	2-Hexanone	ND	100	500.0	4.7	ug/Kg	02/09/04 AM
8260B	4-Chlorotoluene	ND	100	500.0	0.52	ug/Kg	02/09/04 AM
8260B	4-Methyl -2- Pentanone	ND	100	500.0	0.49	ug/Kg	02/09/04 AM
8260B	Acetone	ND	100	5000.0	3.81	ug/Kg	02/09/04 AM
8260B	Acetonitrile	ND	100	500.0	0.7	ug/Kg	02/09/04 AM
8260B	Acrolein	ND	100	20000.0	172	ug/Kg	02/09/04 AM
8260B	Acrylonitrile	ND	100	500.0	1.3	ug/Kg	02/09/04 AM
8260B	Allyl chloride	ND	100	500.0	0.4	ug/Kg	02/09/04 AM
8260B	Benzene	ND	100	500.0	0.39	ug/Kg	02/09/04 AM
8260B	Benzyl chloride	ND	100	500.0	0.38	ug/Kg	02/09/04 AM
8260B	Bromobenzene	ND	100	500.0	0.65	ug/Kg	02/09/04 AM
8260B	Bromochloromethane	ND	100	500.0	0.36	ug/Kg	02/09/04 AM
8260B	Bromodichloromethane	ND	100	500.0	0.48	ug/Kg	02/09/04 AM
8260B	Bromoform	ND	100	500.0	0.53	ug/Kg	02/09/04 AM
8260B	Bromomethane	ND	100	500.0	2.07	ug/Kg	02/09/04 AM
8260B	Carbon Disulfide	ND	100	500.0	0.8	ug/Kg	02/09/04 AM
8260B	Carbon tetrachloride	ND	100	500.0	0.40	ug/Kg	02/09/04 AM
8260B	Chlorobenzene	ND	100	500.0	0.42	ug/Kg	02/09/04 AM
8260B	Chloroethane	ND	100	500.0	1.1	ug/Kg	02/09/04 AM
8260B	Chloroform	ND	100	500.0	0.46	ug/Kg	02/09/04 AM
8260B	Chloromethane	ND	100	500.0	0.25	ug/Kg	02/09/04 AM
8260B	cis-1,2-Dichloroethene	ND	100	500.0	0.79	ug/Kg	02/09/04 AM
8260B	cis-1,3-Dichloropropene	ND	100	500.0	0.38	ug/Kg	02/09/04 AM

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factc
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 495063 **Client Sample ID:** Surface 1

Matrix: SOLID

Date Sampled: 02/03/2004
Time Sampled: 08:48

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	cis-1,4-Dichloro-2-butene	ND	100	500.0	0.59	ug/Kg	02/09/04 AM
8260B	Dibromochloromethane	ND	100	500.0	0.44	ug/Kg	02/09/04 AM
8260B	Dibromomethane	ND	100	500.0	0.46	ug/Kg	02/09/04 AM
8260B	Dichlorodifluoromethane	ND	100	500.0	0.16	ug/Kg	02/09/04 AM
8260B	Ethyl benzene	ND	100	500.0	0.41	ug/Kg	02/09/04 AM
8260B	Ethyl methacrylate	ND	100	500.0	1.8	ug/Kg	02/09/04 AM
8260B	Hexachlorobutadiene	ND	100	500.0	0.29	ug/Kg	02/09/04 AM
8260B	Iodomethane	ND	100	500.0	0.6	ug/Kg	02/09/04 AM
8260B	Isopropylbenzene (Cumene)	ND	100	500.0	0.38	ug/Kg	02/09/04 AM
8260B	Methacrylonitrile	ND	100	500.0	2.70	ug/Kg	02/09/04 AM
8260B	Methyl methacrylate	ND	100	500.0	0.21	ug/Kg	02/09/04 AM
8260B	Methyl-tert-butylether (MTBE)	ND	100	500.0	0.51	ug/Kg	02/09/04 AM
8260B	Methylene chloride	ND	100	500.0	0.91	ug/Kg	02/09/04 AM
8260B	n-Butylbenzene	ND	100	500.0	0.38	ug/Kg	02/09/04 AM
8260B	n-Propylbenzene	ND	100	500.0	0.32	ug/Kg	02/09/04 AM
8260B	Naphthalene	ND	100	500.0	0.60	ug/Kg	02/09/04 AM
8260B	p-Isopropyltoluene	ND	100	500.0	0.32	ug/Kg	02/09/04 AM
8260B	Pentachloroethane	ND	100	500.0	0.6	ug/Kg	02/09/04 AM
8260B	Propionitrile	ND	100	500.0	5	ug/Kg	02/09/04 AM
8260B	sec-Butylbenzene	ND	100	500.0	0.31	ug/Kg	02/09/04 AM
8260B	Styrene	ND	100	500.0	0.37	ug/Kg	02/09/04 AM
8260B	tert-Butylbenzene	ND	100	500.0	0.41	ug/Kg	02/09/04 AM
8260B	Tetrachloroethene	ND	100	500.0	0.49	ug/Kg	02/09/04 AM
8260B	Toluene	ND	100	500.0	0.42	ug/Kg	02/09/04 AM
8260B	trans-1,2-Dichloroethene	ND	100	500.0	0.48	ug/Kg	02/09/04 AM
8260B	trans-1,3-Dichloropropene	ND	100	500.0	0.44	ug/Kg	02/09/04 AM
8260B	trans-1,4-Dichloro-2-butene	ND	100	500.0	2.35	ug/Kg	02/09/04 AM
8260B	Trichloroethene	ND	100	500.0	0.43	ug/Kg	02/09/04 AM
8260B	Trichlorofluoromethane	ND	100	500.0	0.40	ug/Kg	02/09/04 AM
8260B	Vinyl acetate	ND	100	5000.0	10.2	ug/Kg	02/09/04 AM
8260B	Vinyl chloride	ND	100	500.0	0.47	ug/Kg	02/09/04 AM
8260B	Xylenes, total	116 J	100	500.0	0.8	ug/Kg	02/09/04 AM

Surrogates			Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	93	%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	96	%	70 - 135
8260B	Surr3 - Toluene-d8	110	%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	101	%	70 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 495063 **Client Sample ID:** Surface 1

Matrix: SOLID

Date Sampled: 02/03/2004
Time Sampled: 08:48

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	50	1.5	0.003	mg/Kg	02/09/04 RB
8082	PCB-1221	ND	50	3.0	0.006	mg/Kg	02/09/04 RB
8082	PCB-1232	ND	50	2.5	0.004	mg/Kg	02/09/04 RB
8082	PCB-1242	ND	50	2.5	0.002	mg/Kg	02/09/04 RB
8082	PCB-1248	ND	50	4.0	0.008	mg/Kg	02/09/04 RB
8082	PCB-1254	ND	50	1.5	0.001	mg/Kg	02/09/04 RB
8082	PCB-1260	7.2	50	1.5	0.002	mg/Kg	02/09/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	126				%	50 - 135
8015	TEPH Diesel	582	100	100.0	0.732	mg/Kg	02/06/04 AF
Surrogates						**Units**	**Control Limits**
8015	o-Terphenyl (sur)	623*				%	55 - 200

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 495064 **Client Sample ID:** Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Antimony	ND	1	3.00	0.62	mg/Kg	02/10/04 KN
6010B	Arsenic	ND	1	1.00	0.72	mg/Kg	02/10/04 KN
6010B	Barium	ND	1	1.00	0.05	mg/Kg	02/10/04 KN
6010B	Beryllium	ND	1	0.50	0.16	mg/Kg	02/10/04 KN
6010B	Cadmium	ND	1	0.50	0.06	mg/Kg	02/10/04 KN
6010B	Chromium	ND	1	1.00	0.14	mg/Kg	02/10/04 KN
6010B	Cobalt	ND	1	0.50	0.06	mg/Kg	02/10/04 KN
6010B	Copper	ND	1	1.00	0.10	mg/Kg	02/10/04 KN
6010B	Lead	ND	1	0.50	0.16	mg/Kg	02/10/04 KN
6010B	Molybdenum	ND	1	1.00	0.38	mg/Kg	02/10/04 KN
6010B	Nickel	ND	1	1.50	0.29	mg/Kg	02/10/04 KN
6010B	Selenium	ND	1	1.00	0.55	mg/Kg	02/10/04 KN
6010B	Silver	ND	1	0.50	0.12	mg/Kg	02/10/04 KN
6010B	Thallium	ND	1	1.00	0.33	mg/Kg	02/10/04 KN
6010B	Vanadium	ND	1	0.50	0.17	mg/Kg	02/10/04 KN
6010B	Zinc	ND	1	5.00	0.07	mg/Kg	02/10/04 KN
7471A	Mercury	ND	1	0.14	0.02	mg/Kg	02/06/04 MDJ
TPH-DHS	Gasoline	ND	1	3	0.401	mg/Kg	02/04/04 LT
Surrogates						**Units**	**Control Limits**
TPH-DHS	a,a,a-Trifluorotoluene	106				%	55 - 200
8270C	1,2,4-Trichlorobenzene	ND	1	333	32.1	ug/Kg	02/08/04 DP
8270C	1,2-Dichlorobenzene	ND	1	333	69.1	ug/Kg	02/08/04 DP
8270C	1,3-Dichlorobenzene	ND	1	333	133.5	ug/Kg	02/08/04 DP
8270C	1,4-Dichlorobenzene	ND	1	333	58.0	ug/Kg	02/08/04 DP
8270C	2,4,5-Trichlorophenol	ND	1	1665	33.6	ug/Kg	02/08/04 DP
8270C	2,4,6-Trichlorophenol	ND	1	1665	31.9	ug/Kg	02/08/04 DP
8270C	2,4-Dichlorophenol	ND	1	333	35.3	ug/Kg	02/08/04 DP
8270C	2,4-Dimethylphenol	ND	1	333	37.1	ug/Kg	02/08/04 DP
8270C	2,4-Dinitrophenol	ND	1	1665	60.5	ug/Kg	02/08/04 DP
8270C	2,4-Dinitrotoluene	ND	1	333	58.4	ug/Kg	02/08/04 DP

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factc
ND ot detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 495064 **Client Sample ID:** Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	2,6-Dinitrotoluene	ND	1	333	50.4	ug/Kg	02/08/04 DP
8270C	2-Chloronaphthalene	ND	1	333	18.2	ug/Kg	02/08/04 DP
8270C	2-Chlorophenol	ND	1	333	230.8	ug/Kg	02/08/04 DP
8270C	2-Methylnaphthalene	ND	1	333	31.6	ug/Kg	02/08/04 DP
8270C	2-Methylphenol	ND	1	333	194.3	ug/Kg	02/08/04 DP
8270C	2-Nitroaniline	ND	1	1665	30.8	ug/Kg	02/08/04 DP
8270C	2-Nitrophenol	ND	1	333	63.4	ug/Kg	02/08/04 DP
8270C	3,3-Dichlorobenzidine	ND	1	333	52.3	ug/Kg	02/08/04 DP
8270C	3-Methylphenol	ND	1	333	211.4	ug/Kg	02/08/04 DP
8270C	3-Nitroaniline	ND	1	1665	31.1	ug/Kg	02/08/04 DP
8270C	4,6-Dinitro-2-methylphenol	ND	1	1665	44.9	ug/Kg	02/08/04 DP
8270C	4-Bromophenyl-phenylether	ND	1	333	29.6	ug/Kg	02/08/04 DP
8270C	4-Chloro-3-methylphenol	ND	1	333	48.8	ug/Kg	02/08/04 DP
8270C	4-Chloroaniline	ND	1	333	19.2	ug/Kg	02/08/04 DP
8270C	4-Chlorophenyl-phenylether	ND	1	333	38.1	ug/Kg	02/08/04 DP
8270C	4-Methylphenol	ND	1	333	211.4	ug/Kg	02/08/04 DP
8270C	4-Nitroaniline	ND	1	1665	134.9	ug/Kg	02/08/04 DP
8270C	4-Nitrophenol	ND	1	1665	84.8	ug/Kg	02/08/04 DP
8270C	Acenaphthene	ND	1	333	17.4	ug/Kg	02/08/04 DP
8270C	Acenaphthylene	ND	1	333	14.8	ug/Kg	02/08/04 DP
8270C	Anthracene	ND	1	333	9.9	ug/Kg	02/08/04 DP
8270C	Benzidine	ND	1	333	260	ug/Kg	02/08/04 DP
8270C	Benzo(a)anthracene	ND	1	333	26.2	ug/Kg	02/08/04 DP
8270C	Benzo(a)pyrene	ND	1	333	20.0	ug/Kg	02/08/04 DP
8270C	Benzo(b)fluoranthene	ND	1	333	29.9	ug/Kg	02/08/04 DP
8270C	Benzo(g,h,i)perylene	ND	1	333	13.9	ug/Kg	02/08/04 DP
8270C	Benzo(k)fluoranthene	ND	1	333	23.7	ug/Kg	02/08/04 DP
8270C	Benzoic Acid	ND	1	333	70.0	ug/Kg	02/08/04 DP
8270C	Benzyl alcohol	ND	1	333	197.0	ug/Kg	02/08/04 DP
8270C	bis(2-Chloroethoxy)methane	ND	1	333	22.6	ug/Kg	02/08/04 DP
8270C	bis(2-Chloroethyl)ether	ND	1	333	291.5	ug/Kg	02/08/04 DP
8270C	bis(2-Chloroisopropyl) ether	ND	1	333	275.3	ug/Kg	02/08/04 DP
8270C	bis(2-Ethylhexyl)phthalate	ND	1	333	36.1	ug/Kg	02/08/04 DP
8270C	Butylbenzylphthalate	ND	1	333	25.9	ug/Kg	02/08/04 DP
8270C	Chrysene	ND	1	333	38.0	ug/Kg	02/08/04 DP
8270C	Di-n-butylphthalate	ND	1	333	30.7	ug/Kg	02/08/04 DP
8270C	Di-n-octylphthalate	ND	1	333	66.3	ug/Kg	02/08/04 DP
8270C	Dibenz(a,h)anthracene	ND	1	333	32.3	ug/Kg	02/08/04 DP
8270C	Dibenzofuran	ND	1	333	16.4	ug/Kg	02/08/04 DP

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Facto
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 495064 **Client Sample ID:** Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	Diethylphthalate	ND	1	333	43.8	ug/Kg	02/08/04 DP
8270C	Dimethylphthalate	ND	1	333	28.6	ug/Kg	02/08/04 DP
8270C	Fluoranthene	ND	1	333	28.2	ug/Kg	02/08/04 DP
8270C	Fluorene	ND	1	333	19.3	ug/Kg	02/08/04 DP
8270C	Hexachlorobenzene	ND	1	333	49.4	ug/Kg	02/08/04 DP
8270C	Hexachlorobutadiene	ND	1	333	40.1	ug/Kg	02/08/04 DP
8270C	Hexachlorocyclopentadiene	ND	1	333	48.3	ug/Kg	02/08/04 DP
8270C	Hexachloroethane	ND	1	333	180.8	ug/Kg	02/08/04 DP
8270C	Indeno(1,2,3-c,d)pyrene	ND	1	333	36.1	ug/Kg	02/08/04 DP
8270C	Isophorone	ND	1	333	30.4	ug/Kg	02/08/04 DP
8270C	N-Nitroso-di-n-propylamine	ND	1	333	221.8	ug/Kg	02/08/04 DP
8270C	N-Nitrosodiphenylamine	ND	1	333	29.1	ug/Kg	02/08/04 DP
8270C	Naphthalene	ND	1	333	15.6	ug/Kg	02/08/04 DP
8270C	Nitrobenzene	ND	1	333	60.6	ug/Kg	02/08/04 DP
8270C	Pentachlorophenol	ND	1	1665	38.0	ug/Kg	02/08/04 DP
8270C	Phenanthrene	ND	1	333	19.4	ug/Kg	02/08/04 DP
8270C	Phenol	ND	1	333	229.8	ug/Kg	02/08/04 DP
8270C	Pyrene	ND	1	333	28.2	ug/Kg	02/08/04 DP

Surrogates			Units	Control Limits
8270C	2,4,6-Tribromophenol (sur)	47	%	17 - 122
8270C	2-Fluorobiphenyl (sur)	40	%	30 - 115
8270C	2-Fluorophenol (sur)	34	%	25 - 121
8270C	Nitrobenzene-d5 (sur)	48	%	23 - 120
8270C	Phenol-d5 (sur)	53	%	24 - 113
8270C	Terphenyl-d14 (sur)	71	%	18 - 137

8260B	1,1,1,2-Tetrachloroethane	ND	1	5	2.19	ug/Kg	02/09/04 AM
8260B	1,1,1-Trichloroethane	ND	1	5	0.47	ug/Kg	02/09/04 AM
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.50	ug/Kg	02/09/04 AM
8260B	1,1,2-Trichloroethane	ND	1	5	0.57	ug/Kg	02/09/04 AM
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	0.10	ug/Kg	02/09/04 AM
8260B	1,1-Dichloroethane	ND	1	5	0.74	ug/Kg	02/09/04 AM
8260B	1,1-Dichloroethene	ND	1	5	0.43	ug/Kg	02/09/04 AM
8260B	1,1-Dichloropropene	ND	1	5	1.30	ug/Kg	02/09/04 AM
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.54	ug/Kg	02/09/04 AM
8260B	1,2,3-Trichloropropane	ND	1	5	0.65	ug/Kg	02/09/04 AM
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/Kg	02/09/04 AM

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Facto
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 495064 **Client Sample ID:** Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	1,2,4-Trimethylbenzene	ND	1	5	0.60	ug/Kg	02/09/04 AM
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	1.92	ug/Kg	02/09/04 AM
8260B	1,2-Dibromoethane	ND	1	5	0.43	ug/Kg	02/09/04 AM
8260B	1,2-Dichlorobenzene	ND	1	5	0.45	ug/Kg	02/09/04 AM
8260B	1,2-Dichloroethane	ND	1	5	0.59	ug/Kg	02/09/04 AM
8260B	1,2-Dichloropropane	ND	1	5	0.58	ug/Kg	02/09/04 AM
8260B	1,3,5-Trimethylbenzene	ND	1	5	0.55	ug/Kg	02/09/04 AM
8260B	1,3-Dichlorobenzene	ND	1	5	0.44	ug/Kg	02/09/04 AM
8260B	1,3-Dichloropropane	ND	1	5	0.51	ug/Kg	02/09/04 AM
8260B	1,4-Dichlorobenzene	ND	1	5	0.46	ug/Kg	02/09/04 AM
8260B	1-Chlorohexane	ND	1	5	0.38	ug/Kg	02/09/04 AM
8260B	2,2-Dichloropropane	ND	1	5	0.47	ug/Kg	02/09/04 AM
8260B	2-Butanone (MEK)	ND	1	100	0.98	ug/Kg	02/09/04 AM
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.46	ug/Kg	02/09/04 AM
8260B	2-Chlorotoluene	ND	1	5	0.92	ug/Kg	02/09/04 AM
8260B	2-Hexanone	ND	1	5	4.7	ug/Kg	02/09/04 AM
8260B	4-Chlorotoluene	ND	1	5	0.52	ug/Kg	02/09/04 AM
8260B	4-Methyl -2- Pentanone	ND	1	5	0.49	ug/Kg	02/09/04 AM
8260B	Acetone	ND	1	50	3.81	ug/Kg	02/09/04 AM
8260B	Acetonitrile	ND	1	5	0.7	ug/Kg	02/09/04 AM
8260B	Acrolein	ND	1	200	172	ug/Kg	02/09/04 AM
8260B	Acrylonitrile	ND	1	5	1.3	ug/Kg	02/09/04 AM
8260B	Allyl chloride	ND	1	5	0.4	ug/Kg	02/09/04 AM
8260B	Benzene	ND	1	5	0.39	ug/Kg	02/09/04 AM
8260B	Benzyl chloride	ND	1	5	0.38	ug/Kg	02/09/04 AM
8260B	Bromobenzene	ND	1	5	0.65	ug/Kg	02/09/04 AM
8260B	Bromochloromethane	ND	1	5	0.36	ug/Kg	02/09/04 AM
8260B	Bromodichloromethane	ND	1	5	0.48	ug/Kg	02/09/04 AM
8260B	Bromoform	ND	1	5	0.53	ug/Kg	02/09/04 AM
8260B	Bromomethane	ND	1	5	2.07	ug/Kg	02/09/04 AM
8260B	Carbon Disulfide	ND	1	5	0.8	ug/Kg	02/09/04 AM
8260B	Carbon tetrachloride	ND	1	5	0.40	ug/Kg	02/09/04 AM
8260B	Chlorobenzene	ND	1	5	0.42	ug/Kg	02/09/04 AM
8260B	Chloroethane	ND	1	5	1.1	ug/Kg	02/09/04 AM
8260B	Chloroform	ND	1	5	0.46	ug/Kg	02/09/04 AM
8260B	Chloromethane	ND	1	5	0.25	ug/Kg	02/09/04 AM
8260B	cis-1,2-Dichloroethene	ND	1	5	0.79	ug/Kg	02/09/04 AM
8260B	cis-1,3-Dichloropropene	ND	1	5	0.38	ug/Kg	02/09/04 AM
8260B	cis-1,4-Dichloro-2-butene	ND	1	5	0.59	ug/Kg	02/09/04 AM

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 495064 **Client Sample ID:** Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Dibromochloromethane	ND	1	5	0.44	ug/Kg	02/09/04 AM
8260B	Dibromomethane	ND	1	5	0.46	ug/Kg	02/09/04 AM
8260B	Dichlorodifluoromethane	ND	1	5	0.16	ug/Kg	02/09/04 AM
8260B	Ethyl benzene	ND	1	5	0.41	ug/Kg	02/09/04 AM
8260B	Ethyl methacrylate	ND	1	5	1.8	ug/Kg	02/09/04 AM
8260B	Hexachlorobutadiene	ND	1	5	0.29	ug/Kg	02/09/04 AM
8260B	Iodomethane	ND	1	5	0.6	ug/Kg	02/09/04 AM
8260B	Isopropylbenzene (Cumene)	ND	1	5	0.38	ug/Kg	02/09/04 AM
8260B	Methacrylonitrile	ND	1	5	2.70	ug/Kg	02/09/04 AM
8260B	Methyl methacrylate	ND	1	5	0.21	ug/Kg	02/09/04 AM
8260B	Methyl-tert-butylether (MTBE)	ND	1	5	0.51	ug/Kg	02/09/04 AM
8260B	Methylene chloride	ND	1	5	0.91	ug/Kg	02/09/04 AM
8260B	n-Butylbenzene	ND	1	5	0.38	ug/Kg	02/09/04 AM
8260B	n-Propylbenzene	ND	1	5	0.32	ug/Kg	02/09/04 AM
8260B	Naphthalene	ND	1	5	0.60	ug/Kg	02/09/04 AM
8260B	p-Isopropyltoluene	ND	1	5	0.32	ug/Kg	02/09/04 AM
8260B	Pentachloroethane	ND	1	5	0.6	ug/Kg	02/09/04 AM
8260B	Propionitrile	ND	1	5	5	ug/Kg	02/09/04 AM
8260B	sec-Butylbenzene	ND	1	5	0.31	ug/Kg	02/09/04 AM
8260B	Styrene	ND	1	5	0.37	ug/Kg	02/09/04 AM
8260B	tert-Butylbenzene	ND	1	5	0.41	ug/Kg	02/09/04 AM
8260B	Tetrachloroethene	ND	1	5	0.49	ug/Kg	02/09/04 AM
8260B	Toluene	ND	1	5	0.42	ug/Kg	02/09/04 AM
8260B	trans-1,2-Dichloroethene	ND	1	5	0.48	ug/Kg	02/09/04 AM
8260B	trans-1,3-Dichloropropene	ND	1	5	0.44	ug/Kg	02/09/04 AM
8260B	trans-1,4-Dichloro-2-butene	ND	1	5	2.35	ug/Kg	02/09/04 AM
8260B	Trichloroethene	ND	1	5	0.43	ug/Kg	02/09/04 AM
8260B	Trichlorofluoromethane	ND	1	5	0.40	ug/Kg	02/09/04 AM
8260B	Vinyl acetate	ND	1	50	10.2	ug/Kg	02/09/04 AM
8260B	Vinyl chloride	ND	1	5	0.47	ug/Kg	02/09/04 AM
8260B	Xylenes, total	ND	1	5	0.8	ug/Kg	02/09/04 AM

Surrogates			Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	98	%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	95	%	70 - 135
8260B	Surr3 - Toluene-d8	108	%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	104	%	70 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 495064 **Client Sample ID:** Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	02/08/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	02/08/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	02/08/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	02/08/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	02/08/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	02/08/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	02/08/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	94				%	50 - 135
8015	TEPH Diesel	ND	1	1.0	0.732	mg/Kg	02/06/04 AF
Surrogates						**Units**	**Control Limits**
8015	o-Terphenyl (sur)	151				%	55 - 200

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Facto
ND = not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 495064 **Client Sample ID** Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Antimony	ND	1	3.00	0.62	mg/Kg	02/10/04 KN
6010B	Arsenic	ND	1	1.00	0.72	mg/Kg	02/10/04 KN
6010B	Barium	ND	1	1.00	0.05	mg/Kg	02/10/04 KN
6010B	Beryllium	ND	1	0.50	0.16	mg/Kg	02/10/04 KN
6010B	Cadmium	ND	1	0.50	0.06	mg/Kg	02/10/04 KN
6010B	Chromium	ND	1	1.00	0.14	mg/Kg	02/10/04 KN
6010B	Cobalt	ND	1	0.50	0.06	mg/Kg	02/10/04 KN
6010B	Copper	ND	1	1.00	0.10	mg/Kg	02/10/04 KN
6010B	Lead	ND	1	0.50	0.16	mg/Kg	02/10/04 KN
6010B	Molybdenum	ND	1	1.00	0.38	mg/Kg	02/10/04 KN
6010B	Nickel	ND	1	1.50	0.29	mg/Kg	02/10/04 KN
6010B	Selenium	ND	1	1.00	0.55	mg/Kg	02/10/04 KN
6010B	Silver	ND	1	0.50	0.12	mg/Kg	02/10/04 KN
6010B	Thallium	ND	1	1.00	0.33	mg/Kg	02/10/04 KN
6010B	Vanadium	ND	1	0.50	0.17	mg/Kg	02/10/04 KN
6010B	Zinc	ND	1	5.00	0.07	mg/Kg	02/10/04 KN
7471A	Mercury	ND	1	0.14	0.02	mg/Kg	02/06/04 MDJ
TPH-DHS	Gasoline	ND	1	3	0.401	mg/Kg	02/04/04 LT
Surrogates						**Units**	**Control Limits**
TPH-DHS	a,a,a-Trifluorotoluene	106				%	55 - 200
8270C	1,2,4-Trichlorobenzene	ND	1	333	32.1	ug/Kg	02/08/04 DP
8270C	1,2-Dichlorobenzene	ND	1	333	69.1	ug/Kg	02/08/04 DP
8270C	1,3-Dichlorobenzene	ND	1	333	133.5	ug/Kg	02/08/04 DP
8270C	1,4-Dichlorobenzene	ND	1	333	58.0	ug/Kg	02/08/04 DP
8270C	2,4,5-Trichlorophenol	ND	1	1665	33.6	ug/Kg	02/08/04 DP
8270C	2,4,6-Trichlorophenol	ND	1	1665	31.9	ug/Kg	02/08/04 DP
8270C	2,4-Dichlorophenol	ND	1	333	35.3	ug/Kg	02/08/04 DP
8270C	2,4-Dimethylphenol	ND	1	333	37.1	ug/Kg	02/08/04 DP
8270C	2,4-Dinitrophenol	ND	1	1665	60.5	ug/Kg	02/08/04 DP
8270C	2,4-Dinitrotoluene	ND	1	333	58.4	ug/Kg	02/08/04 DP

EQ[illegible] Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Fact
ND[illegible]Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 495064 **Client Sample ID** Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	2,6-Dinitrotoluene	ND	1	333	50.4	ug/Kg	02/08/04 DP
8270C	2-Chloronaphthalene	ND	1	333	18.2	ug/Kg	02/08/04 DP
8270C	2-Chlorophenol	ND	1	333	230.8	ug/Kg	02/08/04 DP
8270C	2-Methylnaphthalene	ND	1	333	31.6	ug/Kg	02/08/04 DP
8270C	2-Methylphenol	ND	1	333	194.3	ug/Kg	02/08/04 DP
8270C	2-Nitroaniline	ND	1	1665	30.8	ug/Kg	02/08/04 DP
8270C	2-Nitrophenol	ND	1	333	63.4	ug/Kg	02/08/04 DP
8270C	3,3-Dichlorobenzidine	ND	1	333	52.3	ug/Kg	02/08/04 DP
8270C	3-Methylphenol	ND	1	333	211.4	ug/Kg	02/08/04 DP
8270C	3-Nitroaniline	ND	1	1665	31.1	ug/Kg	02/08/04 DP
8270C	4,6-Dinitro-2-methylphenol	ND	1	1665	44.9	ug/Kg	02/08/04 DP
8270C	4-Bromophenyl-phenylether	ND	1	333	29.6	ug/Kg	02/08/04 DP
8270C	4-Chloro-3-methylphenol	ND	1	333	48.8	ug/Kg	02/08/04 DP
8270C	4-Chloroaniline	ND	1	333	19.2	ug/Kg	02/08/04 DP
8270C	4-Chlorophenyl-phenylether	ND	1	333	38.1	ug/Kg	02/08/04 DP
8270C	4-Methylphenol	ND	1	333	211.4	ug/Kg	02/08/04 DP
8270C	4-Nitroaniline	ND	1	1665	134.9	ug/Kg	02/08/04 DP
8270C	4-Nitrophenol	ND	1	1665	84.8	ug/Kg	02/08/04 DP
8270C	Acenaphthene	ND	1	333	17.4	ug/Kg	02/08/04 DP
8270C	Acenaphthylene	ND	1	333	14.8	ug/Kg	02/08/04 DP
8270C	Anthracene	ND	1	333	9.9	ug/Kg	02/08/04 DP
8270C	Benzidine	ND	1	333	260	ug/Kg	02/08/04 DP
8270C	Benzo(a)anthracene	ND	1	333	26.2	ug/Kg	02/08/04 DP
8270C	Benzo(a)pyrene	ND	1	333	20.0	ug/Kg	02/08/04 DP
8270C	Benzo(b)fluoranthene	ND	1	333	29.9	ug/Kg	02/08/04 DP
8270C	Benzo(g,h,i)perylene	ND	1	333	13.9	ug/Kg	02/08/04 DP
8270C	Benzo(k)fluoranthene	ND	1	333	23.7	ug/Kg	02/08/04 DP
8270C	Benzoic Acid	ND	1	333	70.0	ug/Kg	02/08/04 DP
8270C	Benzyl alcohol	ND	1	333	197.0	ug/Kg	02/08/04 DP
8270C	bis(2-Chloroethoxy)methane	ND	1	333	22.6	ug/Kg	02/08/04 DP
8270C	bis(2-Chloroethyl)ether	ND	1	333	291.5	ug/Kg	02/08/04 DP
8270C	bis(2-Chloroisopropyl) ether	ND	1	333	275.3	ug/Kg	02/08/04 DP
8270C	bis(2-Ethylhexyl)phthalate	ND	1	333	36.1	ug/Kg	02/08/04 DP
8270C	Butylbenzylphthalate	ND	1	333	25.9	ug/Kg	02/08/04 DP
8270C	Chrysene	ND	1	333	38.0	ug/Kg	02/08/04 DP
8270C	Di-n-butylphthalate	ND	1	333	30.7	ug/Kg	02/08/04 DP
8270C	Di-n-octylphthalate	ND	1	333	66.3	ug/Kg	02/08/04 DP
8270C	Dibenz(a,h)anthracene	ND	1	333	32.3	ug/Kg	02/08/04 DP
8270C	Dibenzofuran	ND	1	333	16.4	ug/Kg	02/08/04 DP

EQ' · Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Fact
NL Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 495064 **Client Sample ID** Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	Diethylphthalate	ND	1	333	43.8	ug/Kg	02/08/04 DP
8270C	Dimethylphthalate	ND	1	333	28.6	ug/Kg	02/08/04 DP
8270C	Fluoranthene	ND	1	333	28.2	ug/Kg	02/08/04 DP
8270C	Fluorene	ND	1	333	19.3	ug/Kg	02/08/04 DP
8270C	Hexachlorobenzene	ND	1	333	49.4	ug/Kg	02/08/04 DP
8270C	Hexachlorobutadiene	ND	1	333	40.1	ug/Kg	02/08/04 DP
8270C	Hexachlorocyclopentadiene	ND	1	333	48.3	ug/Kg	02/08/04 DP
8270C	Hexachloroethane	ND	1	333	180.8	ug/Kg	02/08/04 DP
8270C	Indeno(1,2,3-c,d)pyrene	ND	1	333	36.1	ug/Kg	02/08/04 DP
8270C	Isophorone	ND	1	333	30.4	ug/Kg	02/08/04 DP
8270C	N-Nitroso-di-n-propylamine	ND	1	333	221.8	ug/Kg	02/08/04 DP
8270C	N-Nitrosodiphenylamine	ND	1	333	29.1	ug/Kg	02/08/04 DP
8270C	Naphthalene	ND	1	333	15.6	ug/Kg	02/08/04 DP
8270C	Nitrobenzene	ND	1	333	60.6	ug/Kg	02/08/04 DP
8270C	Pentachlorophenol	ND	1	1665	38.0	ug/Kg	02/08/04 DP
8270C	Phenanthrene	ND	1	333	19.4	ug/Kg	02/08/04 DP
8270C	Phenol	ND	1	333	229.8	ug/Kg	02/08/04 DP
8270C	Pyrene	ND	1	333	28.2	ug/Kg	02/08/04 DP

Surrogates			Units	Control Limits
8270C	2,4,6-Tribromophenol (sur)	47	%	17 - 122
8270C	2-Fluorobiphenyl (sur)	40	%	30 - 115
8270C	2-Fluorophenol (sur)	34	%	25 - 121
8270C	Nitrobenzene-d5 (sur)	48	%	23 - 120
8270C	Phenol-d5 (sur)	53	%	24 - 113
8270C	Terphenyl-d14 (sur)	71	%	18 - 137

8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	02/08/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	02/08/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	02/08/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	02/08/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	02/08/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	02/08/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	02/08/04 RB

Surrogates	Units	Control Limits

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Fact

NL Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 495064 **Client Sample ID** Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	DCB(Sur)	94				%	50 - 135
8015	TEPH Diesel	ND	1	1.0	0.732	mg/Kg	02/06/04 AF
Surrogates						**Units**	**Control Limits**
8015	o-Terphenyl (sur)	151				%	55 - 200

EQL - Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Fact
ND - Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900 FAX 714/538-1209

CLIENT Meredith & Associates, Inc (10577)
ATTN: Roger McCracken
9841 Airport Blvd.
Suite 1010
Los Angeles, CA 90045-5409

LAB REQUEST 123701
REPORTED 02/09/2004
RECEIVED 01/29/2004

PROJECT 2003-123 Dico Oil

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.	Client Sample Identification
494400	Composite 83
494401	Composite 83 Dup
494402	Composite 82
494403	Composite 79
494404	Composite 80
494405	Composite 84
494406	Composite 81
494407	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.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 494400 **Client Sample ID:** Composite 83

Matrix: SOLID **Sample Description:** B-68-1 / B-67-1 / B-66-1 / B-71-1 / B-72-1 / B-73-1

Date Sampled: 01/29/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	1000	30.0	0.003	mg/Kg	02/04/04 RB
8082	PCB-1221	ND	1000	60.0	0.006	mg/Kg	02/04/04 RB
8082	PCB-1232	ND	1000	50.0	0.004	mg/Kg	02/04/04 RB
8082	PCB-1242	ND	1000	50.0	0.002	mg/Kg	02/04/04 RB
8082	PCB-1248	ND	1000	80.0	0.008	mg/Kg	02/04/04 RB
8082	PCB-1254	ND	1000	30.0	0.001	mg/Kg	02/04/04 RB
8082	PCB-1260	250	1000	30.0	0.002	mg/Kg	02/04/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	174 S	%	50 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494401 **Client Sample ID**: Composite 83 Dup

Matrix: SOLID **Sample Description:** B-68-1 / B-67-1 / B-66-1 / B-71-1 / B-72-1 / B-73-1

Date Sampled: 01/29/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	1000	30.0	0.003	mg/Kg	02/04/04 RB
8082	PCB-1221	ND	1000	60.0	0.006	mg/Kg	02/04/04 RB
8082	PCB-1232	ND	1000	50.0	0.004	mg/Kg	02/04/04 RB
8082	PCB-1242	ND	1000	50.0	0.002	mg/Kg	02/04/04 RB
8082	PCB-1248	ND	1000	80.0	0.008	mg/Kg	02/04/04 RB
8082	PCB-1254	ND	1000	30.0	0.001	mg/Kg	02/04/04 RB
8082	PCB-1260	240	1000	30.0	0.002	mg/Kg	02/04/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	182 S	%	50 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494402 **Client Sample ID**: Composite 82

Matrix: SOLID **Sample Description:** B-68-6 / B-67-6 / B-66-6 / B-71-6 / B-72-6 / B-73-6

Date Sampled: 01/29/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	1000	30.0	0.003	mg/Kg	02/04/04 RB
8082	PCB-1221	ND	1000	60.0	0.006	mg/Kg	02/04/04 RB
8082	PCB-1232	ND	1000	50.0	0.004	mg/Kg	02/04/04 RB
8082	PCB-1242	ND	1000	50.0	0.002	mg/Kg	02/04/04 RB
8082	PCB-1248	ND	1000	80.0	0.008	mg/Kg	02/04/04 RB
8082	PCB-1254	ND	1000	30.0	0.001	mg/Kg	02/04/04 RB
8082	PCB-1260	110	1000	30.0	0.002	mg/Kg	02/04/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	0 S	%	50 - 135

E = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494403 **Client Sample ID:** Composite 79

Matrix: SOLID **Sample Description:** B-65-6 / B-62-6 / B-59-6 / B-64-6 / B-61-6 / B-58-6 / B-57-6 / B-60-6 / B-63-6

Date Sampled: 01/29/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	100	3.0	0.003	mg/Kg	02/04/04 RB
8082	PCB-1221	ND	100	6.0	0.006	mg/Kg	02/04/04 RB
8082	PCB-1232	ND	100	5.0	0.004	mg/Kg	02/04/04 RB
8082	PCB-1242	ND	100	5.0	0.002	mg/Kg	02/04/04 RB
8082	PCB-1248	ND	100	8.0	0.008	mg/Kg	02/04/04 RB
8082	PCB-1254	ND	100	3.0	0.001	mg/Kg	02/04/04 RB
8082	PCB-1260	18	100	3.0	0.002	mg/Kg	02/04/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	94	%	50 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494404 **Client Sample ID:** Composite 80

Matrix: SOLID **Sample Description:** B-65-1 / B-62-1 / B-59-1 / B-64-1 / B-61-1 / B-58-1 / B-57-1 / B-60-1 / B-63-1

Date Sampled: 01/29/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	10	0.3	0.003	mg/Kg	02/04/04 RB
8082	PCB-1221	ND	10	0.6	0.006	mg/Kg	02/04/04 RB
8082	PCB-1232	ND	10	0.5	0.004	mg/Kg	02/04/04 RB
8082	PCB-1242	ND	10	0.5	0.002	mg/Kg	02/04/04 RB
8082	PCB-1248	ND	10	0.8	0.008	mg/Kg	02/04/04 RB
8082	PCB-1254	ND	10	0.3	0.001	mg/Kg	02/04/04 RB
8082	PCB-1260	2.6	10	0.3	0.002	mg/Kg	02/04/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	84	%	50 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494407 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	02/04/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	02/04/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	02/04/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	02/04/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	02/04/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	02/04/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	02/04/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	108	%	50 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

ASSOCIATED LABORATORIES
QA REPORT FORM

Determinative Method : EPA 8082 Preparative Method: EPA 3545

QC Sample: 123707-494462

Matrix: SOLID

Analysis Date: 2/4/04

Batch Date: 2/4/04 (pcb 020404s)

Applies to: LR 123701, LR 123707 and LR 123717

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULTS
REPORTING UNITS = mg/Kg

Test	Sample Result	Spike Added	Spike Recovered		% Rec		RPD	QC Limits	
			MS	MSD	MS	MSD		RPD	% Rec
Aroclor 1260 *	39.67	0.500	45.260	41.540	**1118**	**374**	9	35	50-125

***MS/MSD recoveries were out of control due to matrix interference.**

ND = Not Detected

MS & MSD = Percent Recovery from Matrix Spike & Matrix Spike Duplicate

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate recoveries

LAB CONTROL SPIKE RECOVERY / METHOD BLANK
REPORTING UNITS = mg/Kg

Test	Spike Added	Spike Recovered	% Rec LCS	QC Limit
Aroclor 1260	0.500	0.486	97	70-130

Method Blank = All ND

% Rec - LCS = Percent Recovery from Lab Control Spike

CHAIN OF CUSTODY RECORD

Sheet 1 of 6.

MEREDITH & ASSOCIATES, INC.
SCIENTIFIC and REGULATORY CONSULTANTS
9841 Airport Blvd., Suite 1010 Los Angeles, California 90045-5409
Phone (310) 670-9221 Fax: (310) 670-9512

123701

CONTACT PERSON(S): L. EDLUND

CLIENT: L. MARMOL PROJECT NO.: 2003-123

SITE NAME: DICO OIL

SITE LOCATION: SIGNAL HILL

SAMPLING LOCATION:

SAMPLING INFORMATION:

ANALYSIS REQUESTED

TURNAROUND TIME: NORMAL ✓ RUSH

COMMENTS (Precautions/Hazards/ Field Conditions)

SAMPLE ID#	LAB ID#	DATE	TIME	SAMPLE TYPE	# of CONTAINERS	PRESERVATION	OTHER (Sample Volume)	PCBs	NOTES
B-68-1'		1/29/04	1318	SOIL	1	ICE	Comp 83	✓	
B-67-1'		1/29/04	1324	SOIL	1	ICE		✓	
B-66-1'		1/29/04	1334	SOIL	1	ICE		✓	
B-71-1'		1/29/04	1339	SOIL	1	ICE		✓	
B-72-1'		1/29/04	1344	SOIL	1	ICE		✓	
B-73-1'		1/29/04	1349	SOIL	1	ICE		✓	

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
COLLECTED by	N. McCracken	N. McCracken	M&A	1/29/04	1400 AM PM
RELEASED by	N. McCracken	N. McCracken	M&A	1/29/04	1430 AM PM
RELEASED to	L. Edlund	L. Edlund	M&A	1/29/04	AM PM
RELEASED to	Tom Vinson Hacker	T. VINSON HACER	ASSOCIATED LAB	1/29/04	5:14 AM PM
RECEIVED by LABORATORY	[signature]	[signature]	↓	1/30	9:5 AM PM

CHAIN OF CUSTODY RECORD

Sheet 2 of 6

123701

MEREDITH & ASSOCIATES, INC.

SCIENTIFIC and REGULATORY CONSULTANTS

9841 Airport Blvd., Suite 1010 Los Angeles, California 90045-5409
Phone (310) 670-9221 Fax: (310) 670-9512

CONTACT PERSON(S): L. EDLUND

CLIENT: L-MARMOL PROJECT NO.: 2003-123

SITE NAME: DICO OIL

SITE LOCATION: SIGNAL HILL

SAMPLING LOCATION:

SAMPLING INFORMATION:

ANALYSIS REQUESTED: Sample Name; PCBs

TURNAROUND TIME: NORMAL ✓; RUSH

COMMENTS (Precautions/Hazards/ Field Conditions)

SAMPLE ID#	LAB ID#	DATE	TIME	SAMPLE TYPE	# of CONTAINERS	PRESERVATION	~~OTHER~~	Sample Name	PCBs	NOTES
B-68-6"		1/29/04	1317	SOIL	1	ICE	Comp 82		✓	
B-67-6"		1/29/04	1322	SOIL	1	ICE				
B-66-6"		1/29/04	1332	SOIL	1	ICE				
B-71-6"		1/29/04	1338	SOIL	1	ICE				
B-72-6"		1/29/04	1342	SOIL	1	ICE				
B-73-6"		1/29/04	1348	SOIL	1	ICE	✓		✓	

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
COLLECTED by	R. M. Cracken	R. MCCRACKEN	M&A	1/29/04	1400 AM PM
RELEASED by	R. M. Cracken	R. MCCRACKEN	M&A	1/29/04	1430 AM PM
RELEASED to	L. Edlund	L. Edlund	M&A	1/29/04	AM PM
RELEASED to	Tom Vinsonhaler	T. VINSONHALER	ASSOCIATED LAB	1/29/04	5:11 AM PM
RECEIVED by LABORATORY			~~[illegible]~~ Associated Lab	1/30	9:5 AM PM

CHAIN OF CUSTODY RECORD

Sheet 3 of 6.

123701

MEREDITH & ASSOCIATES, INC.
SCIENTIFIC and REGULATORY CONSULTANTS
9841 Airport Blvd., Suite 1010 Los Angeles, California 90045-5409
Phone (310) 670-9221 Fax: (310) 670-9512

CONTACT PERSON(S): L. EDLUND / K. FENNELL

CLIENT: LMAMOC PROJECT NO.: 2003-123

SITE NAME: DICO OIL

SITE LOCATION: SIGNAL HILL

SAMPLING LOCATION:

SAMPLING INFORMATION: SOIL

ANALYSIS REQUESTED: PCBs

TURNAROUND TIME: NORMAL / RUSH

COMMENTS (Precautions/Hazards/ Field Conditions)

SAMPLE ID#	LAB ID#	DATE	TIME	SAMPLE TYPE	# of CONTAINERS	PRESERVATION	~~OTHER~~	PCBs	NOTES
B-65-6"	-	1/29/04	1150	SOIL	1	ICE	Comp 79	✓	
B-62-6"	-	1/29/04	1201	SOIL	1	ICE			
B-59-6"	-	1/29/04	1221	SOIL	1	ICE			
B-64-6"	-	1/29/04	1228	SOIL	1	ICE			
B-61-6"	-	1/29/04	1235	SOIL	1	ICE			
B-58-6"	-	1/29/04	1241	SOIL	1	ICE			
B-57-6"	-	1/29/04	1248	SOIL	1	ICE			
B-60-6"	-	1/29/04	1257	SOIL	1	ICE			
B-63-6"	-	1/29/04	1301	SOIL	1	ICE			

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
COLLECTED by	Roger McCracken	R. McCRACKEN	M&A	1/29/04	1340 AM/PM
RELEASED by	Roger McCracken	R. McCRACKEN	M&A	1/29/04	1430 AM/PM
RELEASED to	Lynn Edlund	L. Edlund	M&A	1/29/04	AM/PM
RELEASED to	Tom Vinsonhaler	T. VINSONHALER	ASSOCIATED LAB	1/30/04	5:12 AM/PM
RECEIVED by LABORATORY		[illegible]	Associated Lab	1/30	9:50 AM/PM

CHAIN OF CUSTODY RECORD

Sheet 4 of 6.

MEREDITH & ASSOCIATES, INC.
SCIENTIFIC and REGULATORY CONSULTANTS
9841 Airport Blvd., Suite 1010 Los Angeles, California 90045-5409
Phone (310) 670-9221 Fax: (310) 670-9512

123701

CONTACT PERSON(S): C. EDLUND K. FENNELL

CLIENT: L. MARMOL PROJECT NO.: 2003-123

SITE NAME: DICO OIL

SITE LOCATION: SIGNAL HILL

SAMPLING LOCATION:

SAMPLING INFORMATION:

ANALYSIS REQUESTED

TURNAROUND TIME: NORMAL / RUSH

COMMENTS (Precautions/Hazards/ Field Conditions)

SAMPLE ID#	LAB ID#	DATE	TIME	SAMPLE TYPE	# of CONTAINERS	PRESERVATION	~~OTHER~~ Sample Number	PCBs	NOTES
B-65-1'	/	1/29/04	1153	SOIL	1	ICE	Comp 80	✓	
B-62-1'	/	1/29/04	1203	SOIL	1	ICE			
B-59-1'	/	1/29/04	1222	SOIL	1	ICE			
B-64-1'	/	1/29/04	1230	SOIL	1	ICE			
B-61-1'	/	1/29/04	1236	SOIL	1	ICE			
B-58-1'	/	1/29/04	1242	SOIL	1	ICE			
B-57-1'	/	1/29/04	1249	SOIL	1	ICE			
B-60-1'	/	1/29/04	1258	SOIL	1	ICE			
B-63-1'	/	1/29/04	1302	SOIL	1	ICE			

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
COLLECTED by [signature]	N. MCCRACKEN	M&A	1/29/04	1310 AM PM
RELEASED by [signature]	N. MCCRACKEN	M&A	1/29/04	1440 AM PM
RELEASED to [signature]	C. Edlund	M&A	1/29/04	AM PM
RELEASED to Tom Vinsonhaler	T. VINSONHALER	ASSOCIATED LAB	1/29/04	3:14 AM PM
RECEIVED by LABORATORY [signature]	DUONG NU	Associated	1/30	9:30 AM PM

CHAIN OF CUSTODY RECORD

Sheet 5 of 6.

123701

MEREDITH & ASSOCIATES, INC.

SCIENTIFIC and REGULATORY CONSULTANTS

9841 Airport Blvd., Suite 1010 Los Angeles, California 90045-5409
Phone (310) 670-9221 Fax: (310) 670-9512

CONTACT PERSON(S): L. EDLUND

CLIENT: L. MAMMOL PROJECT NO.: 2003-123

SITE NAME: DICO OIL

SITE LOCATION: SIGNAL HILL

SAMPLING LOCATION:

SAMPLING INFORMATION:

ANALYSIS REQUESTED: PCBs

TURNAROUND TIME: NORMAL / RUSH

COMMENTS (Precautions/Hazards/ Field Conditions)

SAMPLE ID#	LAB ID#	DATE	TIME	SAMPLE TYPE	# of CONTAINERS	PRESERVATION	~~OTHER~~ Sample Name	NOTES
B-68-1.5		1/29/04	1321	SOIL	1	ICE	Comp 84	Hold
B-67-1.5		1/29/04	1326	SOIL	1	ICE		
B-66-1.5		1/29/04	1335	SOIL	1	ICE		
B-71-1.5		1/29/04	1340	SOIL	1	ICE		
B-72-1.5		1/29/04	1347	SOIL	1	ICE		
B-73-1.5		1/29/04	1351	SOIL	1	ICE		

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
COLLECTED by	[signature]	R. MCCRACKEN	MEA	1/29/04	1400 AM/PM
RELEASED by	[signature]	R. MCCRACKEN	MEA	1/29/04	1440 AM/PM
RELEASED to	[signature]	L. Edlund	MEA	1/29/04	1715 AM/PM
RELEASED to	[signature]	T. VINSON WALER	ASSOCIATED LAB	1/29/04	5:16 AM/PM
RECEIVED by LABORATORY	[signature]	[illegible]	Associated	1/30	9:5 AM/PM

CHAIN OF CUSTODY RECORD

Sheet 6 of 6

123701

MEREDITH & ASSOCIATES, INC.

SCIENTIFIC and REGULATORY CONSULTANTS

9841 Airport Blvd., Suite 1010 Los Angeles, California 90045-5409
Phone (310) 670-9221 Fax: (310) 670-9512

CONTACT PERSON(S): L. EDLUND

CLIENT: L-MANUAL PROJECT NO.: 2003-123

SITE NAME: DICO OIC

SITE LOCATION: SIGNAL HILL

SAMPLING LOCATION:

SAMPLING INFORMATION:

ANALYSIS REQUESTED

TURNAROUND TIME: NORMAL / RUSH

COMMENTS (Precautions/Hazards/ Field Conditions)

SAMPLE ID#	LAB ID#	DATE	TIME	SAMPLE TYPE	# of CONTAINERS	PRESERVATION	~~OTHER~~ Sample Name	NOTES
B-65-1.5'		1/29/04	1157	SOIL	1	ICE	Comp 81	Hold
B-62-1.5'		1/29/04	1217	SOIL	1	ICE		
B-59-1.5'		1/29/04	1224	SOIL	1	ICE		
B-64-1.5'		1/29/04	1231	SOIL	1	ICE		
B-61-1.5'		1/29/04	1237	SOIL	1	ICE		
B-58-1.5'		1/29/04	1243	SOIL	1	ICE		
B-57-1.5		1/29/04	1250	SOIL	1	ICE		
B-60-1.5'		1/29/04	1259	SOIL	1	ICE		
B-63-1.5'		1/29/04	1303	SOIL	1	ICE		

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
COLLECTED by	R. McCracken	R. MCCRACKEN	M & A	1/29/04	1330 AM PM
RELEASED by	R. McCracken	R. MCCRACKEN	M & A	1/29/04	1440 AM PM
RELEASED to	L. Edlund	L. Edlund	M&A	1/29/04	AM PM
RELEASED to	Tom Vinsonhaler	T. VINSONHALER	ASSOCIATED LAB	1/29/04	5:15 AM PM
RECEIVED by LABORATORY	[illegible]	[illegible]	Associated	1/30	9:5 AM PM

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900 FAX 714/538-1209

CLIENT Meredith & Associates, Inc (10577)
ATTN: Keith Farrell
9841 Airport Blvd.
Suite 1010
Los Angeles, CA 90045-5409

LAB REQUEST 123717
REPORTED 02/09/2004
RECEIVED 01/30/2004

PROJECT Dico Oil

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.	Client Sample Identification
494486	Comp 62
494487	Comp 63
494488	Comp 64
494489	Comp 64 DUP
494490	B-89-10
494491	B-90-10
494492	B-89-15
494493	B-125-15
494494	B-125-20
494495	Comp 88
494496	Comp 73
494497	B-125-5
494498	B-125-10
494499	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.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 494486 **Client Sample ID:** Comp 62

Matrix: SOLID **Sample Description:** B-88-3 / B-89-3 / B-90-3

Date Sampled: 01/29/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	2	0.06	0.003	mg/Kg	02/05/04 RB
8082	PCB-1221	ND	2	0.12	0.006	mg/Kg	02/05/04 RB
8082	PCB-1232	ND	2	0.1	0.004	mg/Kg	02/05/04 RB
8082	PCB-1242	ND	2	0.1	0.002	mg/Kg	02/05/04 RB
8082	PCB-1248	ND	2	0.16	0.008	mg/Kg	02/05/04 RB
8082	PCB-1254	0.30	2	0.06	0.001	mg/Kg	02/05/04 RB
8082	PCB-1260	0.89	2	0.06	0.002	mg/Kg	02/05/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	102				%	50 - 135
8015	Diesel	ND	10	30.0	0.7	mg/Kg	02/03/04 AF
8015	Gasoline	ND	10	30.0	0.4	mg/Kg	02/03/04 AF
8015	Oil	126	10	50.0		mg/Kg	02/03/04 AF

E = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494487 **Client Sample ID:** Comp 63

Matrix: SOLID **Sample Description:** B-88-2 / B-89-2 / B-90-2

Date Sampled: 01/30/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	02/05/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	02/05/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	02/05/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	02/05/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	02/05/04 RB
8082	PCB-1254	0.10	1	0.03	0.001	mg/Kg	02/05/04 RB
8082	PCB-1260	0.07	1	0.03	0.002	mg/Kg	02/05/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	95				%	50 - 135
8015	Diesel	ND	5	15.0	0.7	mg/Kg	02/03/04 AF
8015	Gasoline	ND	5	15.0	0.4	mg/Kg	02/03/04 AF
8015	Oil	554	10	50.0		mg/Kg	02/03/04 AF

E = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494488 **Client Sample ID:** Comp 64

Matrix: SOLID **Sample Description:** B-88-5 / B-89-5 / B-90-5

Date Sampled: 01/30/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	02/04/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	02/04/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	02/04/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	02/04/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	02/04/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	02/04/04 RB
8082	PCB-1260	0.07	1	0.03	0.002	mg/Kg	02/04/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	104				%	50 - 135
8015	Diesel	34	10	30.0	0.7	mg/Kg	02/03/04 AF
8015	Gasoline	ND	10	30.0	0.4	mg/Kg	02/03/04 AF
8015	Oil	260	10	50.0		mg/Kg	02/03/04 AF

E = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494489 **Client Sample ID:** Comp 64 DUP

Matrix: SOLID **Sample Description:** B-88-5 / B-89-5 / B-90-5

Date Sampled: 01/30/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	02/04/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	02/04/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	02/04/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	02/04/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	02/04/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	02/04/04 RB
8082	PCB-1260	0.07	1	0.03	0.002	mg/Kg	02/04/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	97				%	50 - 135
8015	Diesel	68	20	60.0	0.7	mg/Kg	02/04/04 AF
8015	Gasoline	ND	20	60.0	0.4	mg/Kg	02/04/04 AF
8015	Oil	560	20	100.0		mg/Kg	02/04/04 AF

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494493 **Client Sample ID:** B-125-15

Matrix: SOLID

Date Sampled: 01/30/2004
Time Sampled: 08:31

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8015	Diesel	1600	100	300.0	0.7	mg/Kg	02/04/04 AF
8015	Gasoline	330	100	300.0	0.4	mg/Kg	02/04/04 AF
8015	Oil	ND	100	500.0		mg/Kg	02/04/04 AF

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494494 **Client Sample ID**: B-125-20

Matrix: SOLID

Date Sampled: 01/30/2004
Time Sampled: 08:50

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8015	Diesel	5000	100	300.0	0.7	mg/Kg	02/04/04 AF
8015	Gasoline	1900	100	300.0	0.4	mg/Kg	02/04/04 AF
8015	Oil	ND	100	500.0		mg/Kg	02/04/04 AF

I = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494495 **Client Sample ID:** Comp 88

Matrix: SOLID **Sample Description:** B-106-3 / B-109-3 / B-111-3

Date Sampled: 01/30/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	2	0.06	0.003	mg/Kg	02/04/04 RB
8082	PCB-1221	ND	2	0.12	0.006	mg/Kg	02/04/04 RB
8082	PCB-1232	ND	2	0.1	0.004	mg/Kg	02/04/04 RB
8082	PCB-1242	ND	2	0.1	0.002	mg/Kg	02/04/04 RB
8082	PCB-1248	ND	2	0.16	0.008	mg/Kg	02/04/04 RB
8082	PCB-1254	0.35	2	0.06	0.001	mg/Kg	02/04/04 RB
8082	PCB-1260	0.21	2	0.06	0.002	mg/Kg	02/04/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	109	%	50 - 135

E = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494496 **Client Sample ID:** Comp 73

Matrix: SOLID **Sample Description:** B-107-3 / B-108-3 / B-110-3 / B-112-3 / B-113-3

Date Sampled: 01/30/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	2	0.06	0.003	mg/Kg	02/04/04 RB
8082	PCB-1221	ND	2	0.12	0.006	mg/Kg	02/04/04 RB
8082	PCB-1232	ND	2	0.1	0.004	mg/Kg	02/04/04 RB
8082	PCB-1242	ND	2	0.1	0.002	mg/Kg	02/04/04 RB
8082	PCB-1248	ND	2	0.16	0.008	mg/Kg	02/04/04 RB
8082	PCB-1254	0.10	2	0.06	0.001	mg/Kg	02/04/04 RB
8082	PCB-1260	0.06	2	0.06	0.002	mg/Kg	02/04/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	108	%	50 - 135

I = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494499 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	02/04/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	02/04/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	02/04/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	02/04/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	02/04/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	02/04/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	02/04/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	108				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	02/02/04 AF
8015	Gasoline	ND	1	3	0.4	mg/Kg	02/02/04 AF
8015	Oil	ND	1	5		mg/Kg	02/02/04 AF

I = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 123707-429 MS

Matrix: SOLID

Extraction Method : 3545

Prep. Date: 02/02/04

Analysis Date: 02/02/04

ID#'s in Batch: LR 123707, 123717, 123699

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = mg/Kg

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
DIESEL	8015D	24	25	49	54	100	120	10

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 = 70 - 130
RPD LIMITS = 30

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

	PREP BLK Value	Result	True	%Rec	L.Limit	H.Limit
LCS	ND	20.0	25	80	70%	130%
LCSD	ND	19.2	25	77	70%	130%

LCS Result = Lab Control Sample Result
True = True Value of LCS
L.Limit / H.Limit = LCS Control Limits

SURROGATE RECOVERY

Sample No.	O-Terphenyl
QC Limit	55-200
MS	123
MSD	131
Method Blank	119
LCS	113
LCSD	107

ASSOCIATED LABORATORIES
QA REPORT FORM

Determinative Method : EPA 8082 Preparative Method: EPA 3545

QC Sample: 123707-494462

Matrix: SOLID

Analysis Date: 2/4/04

Batch Date: 2/4/04 (pcb 020404s)

Applies to: LR 123701, LR 123707 and LR 123717

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULTS
REPORTING UNITS = mg/Kg

Test	Sample Result	Spike Added	Spike Recovered		% Rec		RPD	QC Limits	
			MS	MSD	MS	MSD		RPD	% Rec
Aroclor 1260 *	39.67	0.500	45.260	41.540	**1118**	**374**	9	35	50-125

***MS/MSD recoveries were out of control due to matrix interference.**

ND = Not Detected

% - MS & MSD = Percent Recovery from Matrix Spike & Matrix Spike Duplicate

= Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate recoveries

LAB CONTROL SPIKE RECOVERY / METHOD BLANK
REPORTING UNITS = mg/Kg

Test	Spike Added	Spike Recovered	% Rec LCS	QC Limit
Aroclor 1260	0.500	0.486	97	70-130

Method Blank = All ND

% Rec - LCS = Percent Recovery from Lab Control Spike

CAL TECH Environmental Laboratories
6814 Rosecrans Avenue, Paramount, CA 90723-3146
Telephone: (562) 272-2700 Fax: (562) 272-2789

123717

Lab Job No. _____

Chain of Custody Record

Client: Meredith + Associates
Contact: L. Edlund, K. Farrell
Address: 9841 Airport Blvd Suite 1010
Los Angeles
Project: Dico Oil
Sampled By: Lynn Edlund
Name/Signature

Phone: 310-670-9221
Fax: 310-670-9512

Turn Around Time
Rush _____
Normal ✓

Analyses Requested

Sample Name

Lab ID Number	Field ID	Date/Time Sampled	Bottle Type	No.	Preserv.	Matrix	PCB	TPH 8d	TPH g						Comments
	B-88-3'	1/29/04 755	Comp 62	1	Ice	Soil	✓	✓							
	B-89-3'	1/30/04 731					✓	✓							
	B-90-3'	1/30/04 755					✓	✓							
	B-88-2'	1/29/04 1609	Comp 63				✓	✓							
	B-89-2'	1/30/04 0732					✓	✓							
	B-90-2'	1/30/04 756					✓	✓							
	B-88-5'	1/29/04 1516	Comp 64				✓	✓							
	B-89-5'	1/30/04 733					✓	✓							
	B-90-5'	1/30/04 0800					✓	✓							
	B-89-15'	1/30/04 739					✓	✓							Hold

Relinquished: Lynn Edlund
Date / Time: 1/30/04 — 1-30-04 3:20
Received: Tom Viserbale

Dispatched :
Date / Time: 1/30/04 11:05 AM
Carrier: ASSOCIATED

I hereby authorize the performance of the above indicated tests.
Lynn Edlund
Date / Time: 1/30/04
Received by lab: 1/30 12:20

CTELCCR.D

Custody seal(s) in tact upon receipt by lab? YES NO NONE

CAL TECH Environmental Laboratories
6814 Rosecrans Avenue, Paramount, CA 90723-3146
Telephone: (562) 272-2700 Fax: (562) 272-2789

Lab Job No. _____

123717

Chain of Custody Record

Client: Meredith + Associates
Contact: L Edlund / K Farrel
Address: 9841 Airport
Los Angeles
Project: Dico Oil
Sampled By: Lynn Edlund
Name/Signature

Phone: 310-670-9221
Fax: 310-670-9512

Turn Around Time
Rush _____
Normal ✓

Analyses Requested

Lab ID Number	Field ID	Date/Time Sampled	Sample Name ~~Bottle Type~~	No.	Preserv.	Matrix	TPH o.g.d	PCB							Comments
	B-90-10	1/30/04 804		1	Ice	Soil									Hold
	B-89-15	750													Hold
	B-125-15	831					✓								
	B-125-20	850					✓								
	B-106-3"	905	Comp 88					✓							
	B-109-3"	940						✓							
	B-111-3"	944						✓							
	B-107-3"	912	Comp 73					✓							
	B-108-3"	920						✓							
	B-110-3"	934						✓							

Relinquished: Lynn Edlund Date / Time: 1/30/04 Received: Tom Vinsenhaber

Dispatched: _____ Date / Time: 1/30/04 11:05 AM Carrier: ASSOCIATED

I hereby authorize the performance of the above indicated tests.

L Edlund Date / Time: 1/30/04 Received by lab: [signature] 1/30 12

CTELCCR.D

...stody seal(s) in tact upon receipt by lab? YES NO NONE

CAL TECH Environmental Laboratories
6814 Rosecrans Avenue, Paramount, CA 90723-3146
Telephone: (562) 272-2700 Fax: (562) 272-2789

123717

Lab Job No. _____

Chain of Custody Record

Client: Meredith Associates
Contact: L Edlund / K Farrell
Address: 9841 Airport

Phone: 310-670-9221
Fax: 310-670-9521

Turn Around Time
Rush _____
Normal ✓

Project: Dico Oil
Sampled By: Lynn Edlund
Name/Signature

Analyses Requested

Lab ID Number	Field ID	Date/Time Sampled	~~Bottle Type~~ Sample Name	No.	Preserv.	Matrix	PCBs								Comments
	B-112-3"	1/30/04 950	Comp73	1	ice	Soil	✓								
	B-113-3"	1/30/04 1000	↓	1			✓								
	B-125-5'	814													Hold
	B-125-10'	818													Hold
	~~B-89-10~~	~~737~~													~~Hold~~

Relinquished: Lynn Edlund
Date / Time: 1/30/04
Received: Tom Viserhalter

Dispatched :
Date / Time: 1/30/04 11:03 AM
Carrier: ASSOCIATED

I hereby authorize the performance of the above indicated tests.
L Edlund

Date / Time: 1/30/04
Received by lab: 1/30 12:20

CTELCCR.DO

stody seal(s) in tact upon receipt by lab? YES NO NONE

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900 FAX 714/538-1209

CLIENT Meredith & Associates, Inc (10577)
ATTN: Keith Farrell
9841 Airport Blvd.
Suite 1010
Los Angeles, CA 90045-5409

LAB REQUEST 123707
REPORTED 02/06/2004
RECEIVED 01/29/2004

PROJECT Dico Oil

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.	Client Sample Identification
494423	Comp 74
494424	Comp 75
494425	Comp 76
494426	Comp 67
494427	Comp 77
494428	Comp 66
494429	B-100-2
494430	Comp 65
494431	Comp 69
494432	Comp 71
494433	Comp 68
494434	Comp 85
494435	B-104-5
494436	B-104-10
494437	B-105-15
494438	B-101-10

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.

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Microbiological
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LAB REQUEST 123707
REPORTED 02/06/2004
RECEIVED 01/29/2004

PROJECT Dico Oil

SUBMITTER Client

COMMENTS

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Order No.	Client Sample Identification
494439	B-102-10
494440	B-103-10
494441	B-103-15
494442	B-101-5
494443	B-102-20
494444	Comp 70
494447	B-47-Bulk
494448	Comp 59
494449	Comp 60
494450	Comp 61
494451	Comp 86
494452	Comp 87
494453	B-87-20
494454	B-86-25
494455	B-88-20
494456	B-86-20

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.

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Vice President

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CLIENT Meredith & Associates, Inc (10577)
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Suite 1010
Los Angeles, CA 90045-5409

LAB REQUEST 123707
REPORTED 02/06/2004
RECEIVED 01/29/2004

PROJECT Dico Oil

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.	Client Sample Identification
494457	B-88-10
494458	B-101-2
494459	Comp 72
494460	Comp 78
494461	Comp DUP
494462	B-36-12.5
494463	B-26-12.5
494464	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.

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Order #: 494423 **Client Sample ID**: Comp 74

Matrix: SOLID **Sample Description:** B-114-3 / B-115-3

Date Sampled: 01/29/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	5	0.15	0.003	mg/Kg	02/03/04 RB
8082	PCB-1221	ND	5	0.3	0.006	mg/Kg	02/03/04 RB
8082	PCB-1232	ND	5	0.25	0.004	mg/Kg	02/03/04 RB
8082	PCB-1242	ND	5	0.25	0.002	mg/Kg	02/03/04 RB
8082	PCB-1248	ND	5	0.4	0.008	mg/Kg	02/03/04 RB
8082	PCB-1254	ND	5	0.15	0.001	mg/Kg	02/03/04 RB
8082	PCB-1260	1.9	5	0.15	0.002	mg/Kg	02/03/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	93				%	50 - 135
8015	Diesel	ND	10	30.0	0.7	mg/Kg	02/03/04 AF
8015	Oil	400	10	50.0		mg/Kg	02/03/04 AF

E(Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494424 **Client Sample ID**: Comp 75

Matrix: SOLID **Sample Description:** B-116-3 / B-117-3 / B-118-3

Date Sampled: 01/29/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	100	3.0	0.003	mg/Kg	02/04/04 RB
8082	PCB-1221	ND	100	6.0	0.006	mg/Kg	02/04/04 RB
8082	PCB-1232	ND	100	5.0	0.004	mg/Kg	02/04/04 RB
8082	PCB-1242	ND	100	5.0	0.002	mg/Kg	02/04/04 RB
8082	PCB-1248	ND	100	8.0	0.008	mg/Kg	02/04/04 RB
8082	PCB-1254	ND	100	3.0	0.001	mg/Kg	02/04/04 RB
8082	PCB-1260	56	100	3.0	0.002	mg/Kg	02/04/04 RB

Surrogates						Units	Control Limits
8082	DCB(Sur)	0 S				%	50 - 135

8015	Diesel	ND	20	60.0	0.7	mg/Kg	02/03/04 AF
8015	Oil	550	20	100.0		mg/Kg	02/03/04 AF

E: Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494425 **Client Sample ID**: Comp 76

Matrix: SOLID **Sample Description:** B-119-3 / B-120-3 / B-121-3

Date Sampled: 01/29/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	20	0.6	0.003	mg/Kg	02/03/04 RB
8082	PCB-1221	ND	20	1.2	0.006	mg/Kg	02/03/04 RB
8082	PCB-1232	ND	20	1.0	0.004	mg/Kg	02/03/04 RB
8082	PCB-1242	ND	20	1.0	0.002	mg/Kg	02/03/04 RB
8082	PCB-1248	ND	20	1.6	0.008	mg/Kg	02/03/04 RB
8082	PCB-1254	ND	20	0.6	0.001	mg/Kg	02/03/04 RB
8082	PCB-1260	17	20	0.6	0.002	mg/Kg	02/03/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	92				%	50 - 135
8015	Diesel	ND	20	60.0	0.7	mg/Kg	02/04/04 AF
8015	Oil	117	20	100.0		mg/Kg	02/04/04 AF

E(Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494426 **Client Sample ID:** Comp 67

Matrix: SOLID **Sample Description:** B-96-3 / B-97-3

Date Sampled: 01/29/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	02/03/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	02/03/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	02/03/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	02/03/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	02/03/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	02/03/04 RB
8082	PCB-1260	0.47	1	0.03	0.002	mg/Kg	02/03/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	100	%	50 - 135

8015	Diesel	ND	1	3.0	0.7	mg/Kg	02/03/04 AF
8015	Oil	175	10	50.0		mg/Kg	02/03/04 AF

E: : Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494427 **Client Sample ID:** Comp 77

Matrix: SOLID **Sample Description:** B-122-3 / B-123-3 / B-124-3

Date Sampled: 01/29/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	40	1.2	0.003	mg/Kg	02/04/04 RB
8082	PCB-1221	ND	40	2.4	0.006	mg/Kg	02/04/04 RB
8082	PCB-1232	ND	40	2.0	0.004	mg/Kg	02/04/04 RB
8082	PCB-1242	ND	40	2.0	0.002	mg/Kg	02/04/04 RB
8082	PCB-1248	ND	40	3.2	0.008	mg/Kg	02/04/04 RB
8082	PCB-1254	ND	40	1.2	0.001	mg/Kg	02/04/04 RB
8082	PCB-1260	25	40	1.2	0.002	mg/Kg	02/04/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	110				%	50 - 135
8015	Diesel	ND	20	60.0	0.7	mg/Kg	02/03/04 AF
8015	Oil	600	20	100.0		mg/Kg	02/03/04 AF

E = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494428 **Client Sample ID:** Comp 66

Matrix: SOLID **Sample Description:** B-94-3 / B-95-3

Date Sampled: 01/29/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	02/03/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	02/03/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	02/03/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	02/03/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	02/03/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	02/03/04 RB
8082	PCB-1260	0.42	1	0.03	0.002	mg/Kg	02/03/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	105	%	50 - 135

8015	Diesel	ND	10	30.0	0.7	mg/Kg	02/03/04 AF
8015	Oil	217	10	50.0		mg/Kg	02/03/04 AF

E = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494429 **Client Sample ID**: B-100-2

Matrix: SOLID

Date Sampled: 01/29/2004
Time Sampled: 10:39

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	02/03/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	02/03/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	02/03/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	02/03/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	02/03/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	02/03/04 RB
8082	PCB-1260	0.70	1	0.03	0.002	mg/Kg	02/03/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	105				%	50 - 135
8015	Diesel	24	1	3	0.7	mg/Kg	02/03/04 AF
8015	Oil	26	1	5		mg/Kg	02/03/04 AF

E. ; Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494430 **Client Sample ID:** Comp 65

Matrix: SOLID **Sample Description:** B-91-3 / B-93-3 / B-92-3

Date Sampled: 01/29/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	02/03/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	02/03/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	02/03/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	02/03/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	02/03/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	02/03/04 RB
8082	PCB-1260	0.81	1	0.03	0.002	mg/Kg	02/03/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	101				%	50 - 135
8015	Diesel	5.0	1	3	0.7	mg/Kg	02/03/04 AF
8015	Oil	150	10	50.0		mg/Kg	02/03/04 AF

E = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494431 **Client Sample ID:** Comp 69

Matrix: SOLID **Sample Description:** B-101-3 / B-102-3 / B-103-3

Date Sampled: 01/29/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	02/03/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	02/03/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	02/03/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	02/03/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	02/03/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	02/03/04 RB
8082	PCB-1260	0.11	1	0.03	0.002	mg/Kg	02/03/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	99				%	50 - 135
8015	Diesel	ND	10	30.0	0.7	mg/Kg	02/03/04 AF
8015	Oil	74	10	50.0		mg/Kg	02/03/04 AF

E = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494432 **Client Sample ID:** Comp 71

Matrix: SOLID **Sample Description:** B-102-5 / B-103-5

Date Sampled: 01/29/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	10	0.3	0.003	mg/Kg	02/04/04 RB
8082	PCB-1221	ND	10	0.6	0.006	mg/Kg	02/04/04 RB
8082	PCB-1232	ND	10	0.5	0.004	mg/Kg	02/04/04 RB
8082	PCB-1242	ND	10	0.5	0.002	mg/Kg	02/04/04 RB
8082	PCB-1248	ND	10	0.8	0.008	mg/Kg	02/04/04 RB
8082	PCB-1254	ND	10	0.3	0.001	mg/Kg	02/04/04 RB
8082	PCB-1260	3.6	10	0.3	0.002	mg/Kg	02/04/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	104				%	50 - 135
8015	Diesel	780	100	300.0	0.7	mg/Kg	02/04/04 AF
8015	Oil	650	100	500.0		mg/Kg	02/04/04 AF

E = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494433 **Client Sample ID:** Comp 68

Matrix: SOLID **Sample Description:** B-98-3 / B-99-3 / B-100-3

Date Sampled: 01/29/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	02/04/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	02/04/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	02/04/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	02/04/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	02/04/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	02/04/04 RB
8082	PCB-1260	0.74	1	0.03	0.002	mg/Kg	02/04/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	103				%	50 - 135
8015	Diesel	ND	5	15.0	0.7	mg/Kg	02/03/04 AF
8015	Oil	1290	5	25.0		mg/Kg	02/03/04 AF

E = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494434 **Client Sample ID**: Comp 85

Matrix: SOLID **Sample Description:** B-102-15 / B-101-15

Date Sampled: 01/29/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	3	0.075	0.003	mg/Kg	02/04/04 RB
8082	PCB-1221	ND	3	0.15	0.006	mg/Kg	02/04/04 RB
8082	PCB-1232	ND	3	0.125	0.004	mg/Kg	02/04/04 RB
8082	PCB-1242	ND	3	0.125	0.002	mg/Kg	02/04/04 RB
8082	PCB-1248	ND	3	0.2	0.008	mg/Kg	02/04/04 RB
8082	PCB-1254	ND	3	0.075	0.001	mg/Kg	02/04/04 RB
8082	PCB-1260	1.3	3	0.075	0.002	mg/Kg	02/04/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	117				%	50 - 135
8015	Diesel	4700	200	600.0	0.7	mg/Kg	02/04/04 AF
8015	Gasoline	643	200	600.0	0.4	mg/Kg	02/04/04 AF
8015	Oil	ND	200	1000.0		mg/Kg	02/04/04 AF

E = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494444 **Client Sample ID:** Comp 70

Matrix: SOLID **Sample Description:** B-102-2 / B-103-2 / B-104-2

Date Sampled: 01/29/2004
Time Sampled: :

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	02/04/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	02/04/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	02/04/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	02/04/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	02/04/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	02/04/04 RB
8082	PCB-1260	0.12	1	0.03	0.002	mg/Kg	02/04/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	120	%	50 - 135

8015	Diesel	6.0	1	3	0.7	mg/Kg	02/03/04 AF
8015	Oil	302	20	100.0		mg/Kg	02/03/04 AF

E = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494447 **Client Sample ID:** B-47-Bulk

Matrix: SOLID

Date Sampled: 01/29/2004
Time Sampled: 11:11

Method	Analyte	Result		DF	EQL	MDL	Units	Date/Analyst
6010B	Antimony	ND		1	3.00	0.62	mg/Kg	02/04/04 KN
6010B	Arsenic	8.58		1	1.00	0.72	mg/Kg	02/04/04 KN
6010B	Barium	262		1	1.00	0.05	mg/Kg	02/04/04 KN
6010B	Beryllium	0.71		1	0.50	0.16	mg/Kg	02/04/04 KN
6010B	Cadmium	1.20		1	0.50	0.06	mg/Kg	02/04/04 KN
6010B	Chromium	20.9		1	1.00	0.14	mg/Kg	02/04/04 KN
6010B	Cobalt	6.33		1	0.50	0.06	mg/Kg	02/04/04 KN
6010B	Copper	64.5		1	1.00	0.10	mg/Kg	02/04/04 KN
6010B	Lead	141		1	0.50	0.16	mg/Kg	02/04/04 KN
1311/6010	Lead TCLP	0.193		1	0.05	0.002	mg/L	02/11/04 KN
6010/STLC	Lead, STLC	2.79		10	0.05	0.002	mg/L	02/11/04 KN
6010B	Molybdenum	13.3		1	1.00	0.38	mg/Kg	02/04/04 KN
6010B	Nickel	21.0		1	1.50	0.29	mg/Kg	02/04/04 KN
6010B	Selenium	ND		1	1.00	0.55	mg/Kg	02/04/04 KN
6010B	Silver	0.29	J	1	0.50	0.12	mg/Kg	02/04/04 KN
6010B	Thallium	ND		1	1.00	0.33	mg/Kg	02/04/04 KN
6010B	Vanadium	29.0		1	0.50	0.17	mg/Kg	02/04/04 KN
6010B	Zinc	116		1	5.00	0.07	mg/Kg	02/04/04 KN
1030	Ignitability of Solids	Passes		1			P/F	02/03/04 HK
7471A	Mercury	0.31		1	0.14	0.02	mg/Kg	02/02/04 MDJ
8270C	1,2,4-Trichlorobenzene	ND		20	6660.0	32.1	ug/Kg	02/03/04 DP
8270C	1,2-Dichlorobenzene	ND		20	6660.0	69.1	ug/Kg	02/03/04 DP
8270C	1,3-Dichlorobenzene	ND		20	6660.0	133.5	ug/Kg	02/03/04 DP
8270C	1,4-Dichlorobenzene	ND		20	6660.0	58.0	ug/Kg	02/03/04 DP
8270C	2,4,5-Trichlorophenol	ND		20	33300.0	33.6	ug/Kg	02/03/04 DP
8270C	2,4,6-Trichlorophenol	ND		20	33300.0	31.9	ug/Kg	02/03/04 DP
8270C	2,4-Dichlorophenol	ND		20	6660.0	35.3	ug/Kg	02/03/04 DP
8270C	2,4-Dimethylphenol	ND		20	6660.0	37.1	ug/Kg	02/03/04 DP
8270C	2,4-Dinitrophenol	ND		20	33300.0	60.5	ug/Kg	02/03/04 DP
8270C	2,4-Dinitrotoluene	ND		20	6660.0	58.4	ug/Kg	02/03/04 DP
8270C	2,6-Dinitrotoluene	ND		20	6660.0	50.4	ug/Kg	02/03/04 DP
8270C	2-Chloronaphthalene	ND		20	6660.0	18.2	ug/Kg	02/03/04 DP
8270C	2-Chlorophenol	ND		20	6660.0	230.8	ug/Kg	02/03/04 DP

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494447 **Client Sample ID:** B-47-Bulk

Matrix: SOLID

Date Sampled: 01/29/2004
Time Sampled: 11:11

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	2-Methylnaphthalene	53600	20	6660.0	31.6	ug/Kg	02/03/04 DP
8270C	2-Methylphenol	ND	20	6660.0	194.3	ug/Kg	02/03/04 DP
8270C	2-Nitroaniline	ND	20	33300.0	30.8	ug/Kg	02/03/04 DP
8270C	2-Nitrophenol	ND	20	6660.0	63.4	ug/Kg	02/03/04 DP
8270C	3,3-Dichlorobenzidine	ND	20	6660.0	52.3	ug/Kg	02/03/04 DP
8270C	3-Methylphenol	ND	20	6660.0	211.4	ug/Kg	02/03/04 DP
8270C	3-Nitroaniline	ND	20	33300.0	31.1	ug/Kg	02/03/04 DP
8270C	4,6-Dinitro-2-methylphenol	ND	20	33300.0	44.9	ug/Kg	02/03/04 DP
8270C	4-Bromophenyl-phenylether	ND	20	6660.0	29.6	ug/Kg	02/03/04 DP
8270C	4-Chloro-3-methylphenol	ND	20	6660.0	48.8	ug/Kg	02/03/04 DP
8270C	4-Chloroaniline	ND	20	6660.0	19.2	ug/Kg	02/03/04 DP
8270C	4-Chlorophenyl-phenylether	ND	20	6660.0	38.1	ug/Kg	02/03/04 DP
8270C	4-Methylphenol	ND	20	6660.0	211.4	ug/Kg	02/03/04 DP
8270C	4-Nitroaniline	ND	20	33300.0	134.9	ug/Kg	02/03/04 DP
8270C	4-Nitrophenol	ND	20	33300.0	84.8	ug/Kg	02/03/04 DP
8270C	Acenaphthene	ND	20	6660.0	17.4	ug/Kg	02/03/04 DP
8270C	Acenaphthylene	ND	20	6660.0	14.8	ug/Kg	02/03/04 DP
8270C	Anthracene	ND	20	6660.0	9.9	ug/Kg	02/03/04 DP
8270C	Benzidine	ND	20	6660.0	260	ug/Kg	02/03/04 DP
8270C	Benzo(a)anthracene	ND	20	6660.0	26.2	ug/Kg	02/03/04 DP
8270C	Benzo(a)pyrene	ND	20	6660.0	20.0	ug/Kg	02/03/04 DP
8270C	Benzo(b)fluoranthene	ND	20	6660.0	29.9	ug/Kg	02/03/04 DP
8270C	Benzo(g,h,i)perylene	ND	20	6660.0	13.9	ug/Kg	02/03/04 DP
8270C	Benzo(k)fluoranthene	ND	20	6660.0	23.7	ug/Kg	02/03/04 DP
8270C	Benzoic Acid	ND	20	6660.0	70.0	ug/Kg	02/03/04 DP
8270C	Benzyl alcohol	ND	20	6660.0	197.0	ug/Kg	02/03/04 DP
8270C	bis(2-Chloroethoxy)methane	ND	20	6660.0	22.6	ug/Kg	02/03/04 DP
8270C	bis(2-Chloroethyl)ether	ND	20	6660.0	291.5	ug/Kg	02/03/04 DP
8270C	bis(2-Chloroisopropyl) ether	ND	20	6660.0	275.3	ug/Kg	02/03/04 DP
8270C	bis(2-Ethylhexyl)phthalate	18600	20	6660.0	36.1	ug/Kg	02/03/04 DP
8270C	Butylbenzylphthalate	ND	20	6660.0	25.9	ug/Kg	02/03/04 DP
8270C	Chrysene	ND	20	6660.0	38.0	ug/Kg	02/03/04 DP
8270C	Di-n-butylphthalate	ND	20	6660.0	30.7	ug/Kg	02/03/04 DP
8270C	Di-n-octylphthalate	ND	20	6660.0	66.3	ug/Kg	02/03/04 DP
8270C	Dibenz(a,h)anthracene	ND	20	6660.0	32.3	ug/Kg	02/03/04 DP
8270C	Dibenzofuran	ND	20	6660.0	16.4	ug/Kg	02/03/04 DP
8270C	Diethylphthalate	ND	20	6660.0	43.8	ug/Kg	02/03/04 DP
8270C	Dimethylphthalate	ND	20	6660.0	28.6	ug/Kg	02/03/04 DP
8270C	Fluoranthene	ND	20	6660.0	28.2	ug/Kg	02/03/04 DP

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494447 **Client Sample ID**: B-47-Bulk

Matrix: SOLID

Date Sampled: 01/29/2004
Ti~ ~ Sampled: 11:11

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	Fluorene	ND	20	6660.0	19.3	ug/Kg	02/03/04 DP
8270C	Hexachlorobenzene	ND	20	6660.0	49.4	ug/Kg	02/03/04 DP
8270C	Hexachlorobutadiene	ND	20	6660.0	40.1	ug/Kg	02/03/04 DP
8270C	Hexachlorocyclopentadiene	ND	20	6660.0	48.3	ug/Kg	02/03/04 DP
8270C	Hexachloroethane	ND	20	6660.0	180.8	ug/Kg	02/03/04 DP
8270C	Indeno(1,2,3-c,d)pyrene	ND	20	6660.0	36.1	ug/Kg	02/03/04 DP
8270C	Isophorone	ND	20	6660.0	30.4	ug/Kg	02/03/04 DP
8270C	N-Nitroso-di-n-propylamine	ND	20	6660.0	221.8	ug/Kg	02/03/04 DP
8270C	N-Nitrosodiphenylamine	ND	20	6660.0	29.1	ug/Kg	02/03/04 DP
8270C	Naphthalene	30700	20	6660.0	15.6	ug/Kg	02/03/04 DP
8270C	Nitrobenzene	ND	20	6660.0	60.6	ug/Kg	02/03/04 DP
8270C	Pentachlorophenol	ND	20	33300.0	38.0	ug/Kg	02/03/04 DP
8270C	Phenanthrene	8960	20	6660.0	19.4	ug/Kg	02/03/04 DP
8270C	Phenol	ND	20	6660.0	229.8	ug/Kg	02/03/04 DP
8270C	Pyrene	5280 J	20	6660.0	28.2	ug/Kg	02/03/04 DP

Surrogates			Units	Control Limits
8270C	2,4,6-Tribromophenol (sur)	104	%	17 - 122
8270C	2-Fluorobiphenyl (sur)	102	%	30 - 115
8270C	2-Fluorophenol (sur)	61	%	25 - 121
8270C	Nitrobenzene-d5 (sur)	123 S	%	23 - 120
8270C	Phenol-d5 (sur)	117 S	%	24 - 113
8270C	Terphenyl-d14 (sur)	101	%	18 - 137

8260B	1,1,1,2-Tetrachloroethane	ND	1000	5000.0	2.19	ug/Kg	01/31/04 AM
8260B	1,1,1-Trichloroethane	ND	1000	5000.0	0.47	ug/Kg	01/31/04 AM
8260B	1,1,2,2-Tetrachloroethane	ND	1000	5000.0	0.50	ug/Kg	01/31/04 AM
8260B	1,1,2-Trichloroethane	ND	1000	5000.0	0.57	ug/Kg	01/31/04 AM
8260B	1,1,2-Trichlorotrifluoroethane	ND	1000	5000.0	0.10	ug/Kg	01/31/04 AM
8260B	1,1-Dichloroethane	ND	1000	5000.0	0.74	ug/Kg	01/31/04 AM
8260B	1,1-Dichloroethene	ND	1000	5000.0	0.43	ug/Kg	01/31/04 AM
8260B	1,1-Dichloropropene	ND	1000	5000.0	1.30	ug/Kg	01/31/04 AM
8260B	1,2,3-Trichlorobenzene	ND	1000	5000.0	0.54	ug/Kg	01/31/04 AM
8260B	1,2,3-Trichloropropane	ND	1000	5000.0	0.65	ug/Kg	01/31/04 AM
8260B	1,2,4-Trichlorobenzene	ND	1000	5000.0	0.54	ug/Kg	01/31/04 AM
8260B	1,2,4-Trimethylbenzene	16900	1000	5000.0	0.60	ug/Kg	01/31/04 AM
8260B	1,2-Dibromo-3-chloropropane	ND	1000	5000.0	1.92	ug/Kg	01/31/04 AM
8260B	1,2-Dibromoethane	ND	1000	5000.0	0.43	ug/Kg	01/31/04 AM

L~ ~ = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494447 **Client Sample ID:** B-47-Bulk

Matrix: SOLID

Date Sampled: 01/29/2004
Time Sampled: 11:11

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	1,2-Dichlorobenzene	ND	1000	5000.0	0.45	ug/Kg	01/31/04 AM
8260B	1,2-Dichloroethane	ND	1000	5000.0	0.59	ug/Kg	01/31/04 AM
8260B	1,2-Dichloropropane	ND	1000	5000.0	0.58	ug/Kg	01/31/04 AM
8260B	1,3,5-Trimethylbenzene	4680 J	1000	5000.0	0.55	ug/Kg	01/31/04 AM
8260B	1,3-Dichlorobenzene	ND	1000	5000.0	0.44	ug/Kg	01/31/04 AM
8260B	1,3-Dichloropropane	ND	1000	5000.0	0.51	ug/Kg	01/31/04 AM
8260B	1,4-Dichlorobenzene	ND	1000	5000.0	0.46	ug/Kg	01/31/04 AM
8260B	1-Chlorohexane	ND	1000	5000.0	0.38	ug/Kg	01/31/04 AM
8260B	2,2-Dichloropropane	ND	1000	5000.0	0.47	ug/Kg	01/31/04 AM
8260B	2-Butanone (MEK)	ND	1000	100000.0	0.98	ug/Kg	01/31/04 AM
8260B	2-Chloroethyl vinyl ether	ND	1000	5000.0	0.46	ug/Kg	01/31/04 AM
8260B	2-Chlorotoluene	ND	1000	5000.0	0.92	ug/Kg	01/31/04 AM
8260B	2-Hexanone	ND	1000	5000.0	4.7	ug/Kg	01/31/04 AM
8260B	4-Chlorotoluene	ND	1000	5000.0	0.52	ug/Kg	01/31/04 AM
8260B	4-Methyl -2- Pentanone	ND	1000	5000.0	0.49	ug/Kg	01/31/04 AM
8260B	Acetone	ND	1000	50000.0	3.81	ug/Kg	01/31/04 AM
8260B	Acetonitrile	ND	1000	5000.0	0.7	ug/Kg	01/31/04 AM
8260B	Acrolein	ND	1000	200000.0	172	ug/Kg	01/31/04 AM
8260B	Acrylonitrile	ND	1000	5000.0	1.3	ug/Kg	01/31/04 AM
8260B	Allyl chloride	ND	1000	5000.0	0.4	ug/Kg	01/31/04 AM
8260B	Benzene	4400 J	1000	5000.0	0.39	ug/Kg	01/31/04 AM
8260B	Benzyl chloride	ND	1000	5000.0	0.38	ug/Kg	01/31/04 AM
8260B	Bromobenzene	ND	1000	5000.0	0.65	ug/Kg	01/31/04 AM
8260B	Bromochloromethane	ND	1000	5000.0	0.36	ug/Kg	01/31/04 AM
8260B	Bromodichloromethane	ND	1000	5000.0	0.48	ug/Kg	01/31/04 AM
8260B	Bromoform	ND	1000	5000.0	0.53	ug/Kg	01/31/04 AM
8260B	Bromomethane	ND	1000	5000.0	2.07	ug/Kg	01/31/04 AM
8260B	Carbon Disulfide	ND	1000	5000.0	0.8	ug/Kg	01/31/04 AM
8260B	Carbon tetrachloride	ND	1000	5000.0	0.40	ug/Kg	01/31/04 AM
8260B	Chlorobenzene	ND	1000	5000.0	0.42	ug/Kg	01/31/04 AM
8260B	Chloroethane	ND	1000	5000.0	1.1	ug/Kg	01/31/04 AM
8260B	Chloroform	ND	1000	5000.0	0.46	ug/Kg	01/31/04 AM
8260B	Chloromethane	ND	1000	5000.0	0.25	ug/Kg	01/31/04 AM
8260B	cis-1,2-Dichloroethene	ND	1000	5000.0	0.79	ug/Kg	01/31/04 AM
8260B	cis-1,3-Dichloropropene	ND	1000	5000.0	0.38	ug/Kg	01/31/04 AM
8260B	cis-1,4-Dichloro-2-butene	ND	1000	5000.0	0.59	ug/Kg	01/31/04 AM
8260B	Dibromochloromethane	ND	1000	5000.0	0.44	ug/Kg	01/31/04 AM
8260B	Dibromomethane	ND	1000	5000.0	0.46	ug/Kg	01/31/04 AM
8260B	Dichlorodifluoromethane	ND	1000	5000.0	0.16	ug/Kg	01/31/04 AM

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494447 **Client Sample ID:** B-47-Bulk

Matrix: SOLID

Date Sampled: 01/29/2004
Ti Sampled: 11:11

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Ethyl benzene	21000	1000	5000.0	0.41	ug/Kg	01/31/04 AM
8260B	Ethyl methacrylate	ND	1000	5000.0	1.8	ug/Kg	01/31/04 AM
8260B	Hexachlorobutadiene	ND	1000	5000.0	0.29	ug/Kg	01/31/04 AM
8260B	Iodomethane	ND	1000	5000.0	0.6	ug/Kg	01/31/04 AM
8260B	Isopropylbenzene (Cumene)	ND	1000	5000.0	0.38	ug/Kg	01/31/04 AM
8260B	Methacrylonitrile	ND	1000	5000.0	2.70	ug/Kg	01/31/04 AM
8260B	Methyl methacrylate	ND	1000	5000.0	0.21	ug/Kg	01/31/04 AM
8260B	Methyl-tert-butylether (MTBE)	1510 J	1000	5000.0	0.51	ug/Kg	01/31/04 AM
8260B	Methylene chloride	ND	1000	5000.0	0.91	ug/Kg	01/31/04 AM
8260B	n-Butylbenzene	ND	1000	5000.0	0.38	ug/Kg	01/31/04 AM
8260B	n-Propylbenzene	8360	1000	5000.0	0.32	ug/Kg	01/31/04 AM
8260B	Naphthalene	18000	1000	5000.0	0.60	ug/Kg	01/31/04 AM
8260B	p-Isopropyltoluene	ND	1000	5000.0	0.32	ug/Kg	01/31/04 AM
8260B	Pentachloroethane	ND	1000	5000.0	0.6	ug/Kg	01/31/04 AM
8260B	Propionitrile	ND	1000	5000.0	5	ug/Kg	01/31/04 AM
8260B	sec-Butylbenzene	ND	1000	5000.0	0.31	ug/Kg	01/31/04 AM
8260B	Styrene	ND	1000	5000.0	0.37	ug/Kg	01/31/04 AM
8260B	tert-Butylbenzene	ND	1000	5000.0	0.41	ug/Kg	01/31/04 AM
8260B	Tetrachloroethene	ND	1000	5000.0	0.49	ug/Kg	01/31/04 AM
8260B	Toluene	ND	1000	5000.0	0.42	ug/Kg	01/31/04 AM
8260B	trans-1,2-Dichloroethene	ND	1000	5000.0	0.48	ug/Kg	01/31/04 AM
8260B	trans-1,3-Dichloropropene	ND	1000	5000.0	0.44	ug/Kg	01/31/04 AM
8260B	trans-1,4-Dichloro-2-butene	ND	1000	5000.0	2.35	ug/Kg	01/31/04 AM
8260B	Trichloroethene	ND	1000	5000.0	0.43	ug/Kg	01/31/04 AM
8260B	Trichlorofluoromethane	ND	1000	5000.0	0.40	ug/Kg	01/31/04 AM
8260B	Vinyl acetate	ND	1000	50000.0	10.2	ug/Kg	01/31/04 AM
8260B	Vinyl chloride	ND	1000	5000.0	0.47	ug/Kg	01/31/04 AM
8260B	Xylenes, total	8860	1000	5000.0	0.8	ug/Kg	01/31/04 AM

Surrogates			Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	94	%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	94	%	70 - 135
8260B	Surr3 - Toluene-d8	109	%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	100	%	70 - 135

8082	PCB-1016	ND	20	0.6	0.003	mg/Kg	02/04/04 RB
8082	PCB-1221	ND	20	1.2	0.006	mg/Kg	02/04/04 RB
8082	PCB-1232	ND	20	1.0	0.004	mg/Kg	02/04/04 RB

L = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494447 **Client Sample ID:** B-47-Bulk

Matrix: SOLID

Date Sampled: 01/29/2004
Time Sampled: 11:11

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1242	ND	20	1.0	0.002	mg/Kg	02/04/04 RB
8082	PCB-1248	ND	20	1.6	0.008	mg/Kg	02/04/04 RB
8082	PCB-1254	ND	20	0.6	0.001	mg/Kg	02/04/04 RB
8082	PCB-1260	3.3	20	0.6	0.002	mg/Kg	02/04/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	94	%	50 - 135

8015	Gasoline	ND	500	1500.0	0.4	mg/Kg	02/02/04 AF

E = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494448 **Client Sample ID:** Comp 59

Matrix: SOLID **Sample Description:** B-87-3 / B-86-3

Date Sampled: 01/29/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	20	0.6	0.003	mg/Kg	02/04/04 RB
8082	PCB-1221	ND	20	1.2	0.006	mg/Kg	02/04/04 RB
8082	PCB-1232	ND	20	1.0	0.004	mg/Kg	02/04/04 RB
8082	PCB-1242	ND	20	1.0	0.002	mg/Kg	02/04/04 RB
8082	PCB-1248	ND	20	1.6	0.008	mg/Kg	02/04/04 RB
8082	PCB-1254	ND	20	0.6	0.001	mg/Kg	02/04/04 RB
8082	PCB-1260	8.3	20	0.6	0.002	mg/Kg	02/04/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	95				%	50 - 135
8015	Diesel	300	20	60.0	0.7	mg/Kg	02/03/04 AF
8015	Oil	4100	20	100.0		mg/Kg	02/03/04 AF

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494449 **Client Sample ID**: Comp 60

Matrix: SOLID **Sample Description:** B-86-2 / B-87-2

Date Sampled: 01/29/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	02/04/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	02/04/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	02/04/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	02/04/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	02/04/04 RB
8082	PCB-1254	0.11	1	0.03	0.001	mg/Kg	02/04/04 RB
8082	PCB-1260	0.04	1	0.03	0.002	mg/Kg	02/04/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	106	%	50 - 135

8015	Diesel	48	10	30.0	0.7	mg/Kg	02/02/04 AF
8015	Oil	780	100	500.0		mg/Kg	02/02/04 AF

L = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494450 **Client Sample ID:** Comp 61

Matrix: SOLID **Sample Description:** B86-5 / B87-5

Date Sampled: 01/29/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	02/04/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	02/04/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	02/04/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	02/04/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	02/04/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	02/04/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	02/04/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	105				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	02/02/04 AF
8015	Oil	ND	1	5		mg/Kg	02/02/04 AF

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494452 **Client Sample ID**: Comp 87

Matrix: SOLID **Sample Description:** B-86-15 / B-87-15 / B-88-15

Date Sampled: 01/29/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	02/04/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	02/04/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	02/04/04 RB
8082	PCB-1242	0.91	1	0.05	0.002	mg/Kg	02/04/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	02/04/04 RB
8082	PCB-1254	0.54	1	0.03	0.001	mg/Kg	02/04/04 RB
8082	PCB-1260	0.10	1	0.03	0.002	mg/Kg	02/04/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	99				%	50 - 135
8015	Diesel	800	50	150.0	0.7	mg/Kg	02/03/04 AF
8015	Oil	ND	50	250.0		mg/Kg	02/03/04 AF

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494458 **Client Sample ID:** B-101-2

Matrix: SOLID

Date Sampled: 01/29/2004
Ti Sampled: 10:10

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	02/04/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	02/04/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	02/04/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	02/04/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	02/04/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	02/04/04 RB
8082	PCB-1260	0.23	1	0.03	0.002	mg/Kg	02/04/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	109	%	50 - 135

8015	Diesel	4.3	1	3	0.7	mg/Kg	02/03/04 AF
8015	Oil	67	10	50.0		mg/Kg	02/03/04 AF

L = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494459 **Client Sample ID**: Comp 72

Matrix: SOLID **Sample Description:** B-105-3 / B-104-3

Date Sampled: 01/29/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	02/04/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	02/04/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	02/04/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	02/04/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	02/04/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	02/04/04 RB
8082	PCB-1260	0.17	1	0.03	0.002	mg/Kg	02/04/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	92				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	02/03/04 AF
8015	Oil	132	5	25.0		mg/Kg	02/03/04 AF

E = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494460 **Client Sample ID**: Comp 78

Matrix: SOLID **Sample Description:** B-36-15 / B-26-15

Date Sampled: 01/29/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	10	0.3	0.003	mg/Kg	02/04/04 RB
8082	PCB-1221	ND	10	0.6	0.006	mg/Kg	02/04/04 RB
8082	PCB-1232	ND	10	0.5	0.004	mg/Kg	02/04/04 RB
8082	PCB-1242	ND	10	0.5	0.002	mg/Kg	02/04/04 RB
8082	PCB-1248	ND	10	0.8	0.008	mg/Kg	02/04/04 RB
8082	PCB-1254	ND	10	0.3	0.001	mg/Kg	02/04/04 RB
8082	PCB-1260	21	10	0.3	0.002	mg/Kg	02/04/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	97	%	50 - 135

8015	Diesel	5040	100	300.0	0.7	mg/Kg	02/02/04 AF
8015	Oil	ND	100	500.0		mg/Kg	02/02/04 AF

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494461 **Client Sample ID:** Comp DUP

Matrix: SOLID **Sample Description:** B-36-15 / B-26-15

Date Sampled: 01/29/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	50	1.5	0.003	mg/Kg	02/04/04 RB
8082	PCB-1221	ND	50	3.0	0.006	mg/Kg	02/04/04 RB
8082	PCB-1232	ND	50	2.5	0.004	mg/Kg	02/04/04 RB
8082	PCB-1242	ND	50	2.5	0.002	mg/Kg	02/04/04 RB
8082	PCB-1248	ND	50	4.0	0.008	mg/Kg	02/04/04 RB
8082	PCB-1254	ND	50	1.5	0.001	mg/Kg	02/04/04 RB
8082	PCB-1260	21	50	1.5	0.002	mg/Kg	02/04/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	95	%	50 - 135

8015	Diesel	5450	100	300.0	0.7	mg/Kg	02/02/04 AF
8015	Oil	ND	100	500.0		mg/Kg	02/02/04 AF

E = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494462 **Client Sample ID:** B-36-12.5

Matrix: SOLID

Date Sampled: 01/29/2004
T Sampled: 12:12

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Antimony	ND	1	3.0	0.62	mg/Kg	02/04/04 KN
6010B	Arsenic	13.7	1	1.0	0.72	mg/Kg	02/04/04 KN
6010B	Barium	70.1	1	1.0	0.05	mg/Kg	02/04/04 KN
6010B	Beryllium	0.603	1	0.5	0.16	mg/Kg	02/04/04 KN
6010B	Cadmium	2.02	1	0.5	0.06	mg/Kg	02/04/04 KN
6010B	Chromium	15.0	1	1.0	0.14	mg/Kg	02/04/04 KN
6010B	Cobalt	9.01	1	0.5	0.06	mg/Kg	02/04/04 KN
6010B	Copper	7.90	1	1.0	0.10	mg/Kg	02/04/04 KN
6010B	Lead	2.13	1	0.5	0.16	mg/Kg	02/04/04 KN
6010B	Molybdenum	5.65	1	1.0	0.38	mg/Kg	02/04/04 KN
6010B	Nickel	11.6	1	1.5	0.29	mg/Kg	02/04/04 KN
6010B	Selenium	ND	1	1.0	0.55	mg/Kg	02/04/04 KN
6010B	Silver	0.469 J	1	0.5	0.12	mg/Kg	02/04/04 KN
6010B	Thallium	ND	1	1.0	0.33	mg/Kg	02/04/04 KN
6010B	Vanadium	41.8	1	0.5	0.17	mg/Kg	02/04/04 KN
6010B	Zinc	43.7	1	5.0	0.07	mg/Kg	02/04/04 KN
1030	Ignitability of Solids	Passes	1			P/F	02/03/04 HK
7471A	Mercury	ND	1	0.14	0.02	mg/Kg	02/02/04 MDJ
8270C	1,2,4-Trichlorobenzene	ND	2	666.0	32.1	ug/Kg	02/03/04 DP
8270C	1,2-Dichlorobenzene	ND	2	666.0	69.1	ug/Kg	02/03/04 DP
8270C	1,3-Dichlorobenzene	ND	2	666.0	133.5	ug/Kg	02/03/04 DP
8270C	1,4-Dichlorobenzene	10600	2	666.0	58.0	ug/Kg	02/03/04 DP
8270C	2,4,5-Trichlorophenol	ND	2	3330.0	33.6	ug/Kg	02/03/04 DP
8270C	2,4,6-Trichlorophenol	ND	2	3330.0	31.9	ug/Kg	02/03/04 DP
8270C	2,4-Dichlorophenol	ND	2	666.0	35.3	ug/Kg	02/03/04 DP
8270C	2,4-Dimethylphenol	ND	2	666.0	37.1	ug/Kg	02/03/04 DP
8270C	2,4-Dinitrophenol	ND	2	3330.0	60.5	ug/Kg	02/03/04 DP
8270C	2,4-Dinitrotoluene	ND	2	666.0	58.4	ug/Kg	02/03/04 DP
8270C	2,6-Dinitrotoluene	ND	2	666.0	50.4	ug/Kg	02/03/04 DP
8270C	2-Chloronaphthalene	ND	2	666.0	18.2	ug/Kg	02/03/04 DP
8270C	2-Chlorophenol	ND	2	666.0	230.8	ug/Kg	02/03/04 DP
8270C	2-Methylnaphthalene	27000	2	666.0	31.6	ug/Kg	02/03/04 DP
8270C	2-Methylphenol	ND	2	666.0	194.3	ug/Kg	02/03/04 DP

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494462 **Client Sample ID**: B-36-12.5

Matrix: SOLID

Date Sampled: 01/29/2004
T Sampled: 12:12

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	2-Nitroaniline	ND	2	3330.0	30.8	ug/Kg	02/03/04 DP
8270C	2-Nitrophenol	ND	2	666.0	63.4	ug/Kg	02/03/04 DP
8270C	3,3-Dichlorobenzidine	ND	2	666.0	52.3	ug/Kg	02/03/04 DP
8270C	3-Methylphenol	ND	2	666.0	211.4	ug/Kg	02/03/04 DP
8270C	3-Nitroaniline	ND	2	3330.0	31.1	ug/Kg	02/03/04 DP
8270C	4,6-Dinitro-2-methylphenol	ND	2	3330.0	44.9	ug/Kg	02/03/04 DP
8270C	4-Bromophenyl-phenylether	ND	2	666.0	29.6	ug/Kg	02/03/04 DP
8270C	4-Chloro-3-methylphenol	ND	2	666.0	48.8	ug/Kg	02/03/04 DP
8270C	4-Chloroaniline	ND	2	666.0	19.2	ug/Kg	02/03/04 DP
8270C	4-Chlorophenyl-phenylether	ND	2	666.0	38.1	ug/Kg	02/03/04 DP
8270C	4-Methylphenol	ND	2	666.0	211.4	ug/Kg	02/03/04 DP
8270C	4-Nitroaniline	ND	2	3330.0	134.9	ug/Kg	02/03/04 DP
8270C	4-Nitrophenol	ND	2	3330.0	84.8	ug/Kg	02/03/04 DP
8270C	Acenaphthene	ND	2	666.0	17.4	ug/Kg	02/03/04 DP
8270C	Acenaphthylene	ND	2	666.0	14.8	ug/Kg	02/03/04 DP
8270C	Anthracene	ND	2	666.0	9.9	ug/Kg	02/03/04 DP
8270C	Benzidine	ND	2	666.0	260	ug/Kg	02/03/04 DP
8270C	Benzo(a)anthracene	ND	2	666.0	26.2	ug/Kg	02/03/04 DP
8270C	Benzo(a)pyrene	ND	2	666.0	20.0	ug/Kg	02/03/04 DP
8270C	Benzo(b)fluoranthene	ND	2	666.0	29.9	ug/Kg	02/03/04 DP
8270C	Benzo(g,h,i)perylene	ND	2	666.0	13.9	ug/Kg	02/03/04 DP
8270C	Benzo(k)fluoranthene	ND	2	666.0	23.7	ug/Kg	02/03/04 DP
8270C	Benzoic Acid	ND	2	666.0	70.0	ug/Kg	02/03/04 DP
8270C	Benzyl alcohol	ND	2	666.0	197.0	ug/Kg	02/03/04 DP
8270C	bis(2-Chloroethoxy)methane	ND	2	666.0	22.6	ug/Kg	02/03/04 DP
8270C	bis(2-Chloroethyl)ether	ND	2	666.0	291.5	ug/Kg	02/03/04 DP
8270C	bis(2-Chloroisopropyl) ether	ND	2	666.0	275.3	ug/Kg	02/03/04 DP
8270C	bis(2-Ethylhexyl)phthalate	668	2	666.0	36.1	ug/Kg	02/03/04 DP
8270C	Butylbenzylphthalate	ND	2	666.0	25.9	ug/Kg	02/03/04 DP
8270C	Chrysene	ND	2	666.0	38.0	ug/Kg	02/03/04 DP
8270C	Di-n-butylphthalate	ND	2	666.0	30.7	ug/Kg	02/03/04 DP
8270C	Di-n-octylphthalate	ND	2	666.0	66.3	ug/Kg	02/03/04 DP
8270C	Dibenz(a,h)anthracene	ND	2	666.0	32.3	ug/Kg	02/03/04 DP
8270C	Dibenzofuran	ND	2	666.0	16.4	ug/Kg	02/03/04 DP
8270C	Diethylphthalate	ND	2	666.0	43.8	ug/Kg	02/03/04 DP
8270C	Dimethylphthalate	ND	2	666.0	28.6	ug/Kg	02/03/04 DP
8270C	Fluoranthene	ND	2	666.0	28.2	ug/Kg	02/03/04 DP
8270C	Fluorene	ND	2	666.0	19.3	ug/Kg	02/03/04 DP
8270C	Hexachlorobenzene	ND	2	666.0	49.4	ug/Kg	02/03/04 DP

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494462 **Client Sample ID:** B-36-12.5

Matrix: SOLID

Date Sampled: 01/29/2004
Time Sampled: 12:12

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	Hexachlorobutadiene	ND	2	666.0	40.1	ug/Kg	02/03/04 DP
8270C	Hexachlorocyclopentadiene	ND	2	666.0	48.3	ug/Kg	02/03/04 DP
8270C	Hexachloroethane	ND	2	666.0	180.8	ug/Kg	02/03/04 DP
8270C	Indeno(1,2,3-c,d)pyrene	ND	2	666.0	36.1	ug/Kg	02/03/04 DP
8270C	Isophorone	ND	2	666.0	30.4	ug/Kg	02/03/04 DP
8270C	N-Nitroso-di-n-propylamine	ND	2	666.0	221.8	ug/Kg	02/03/04 DP
8270C	N-Nitrosodiphenylamine	ND	2	666.0	29.1	ug/Kg	02/03/04 DP
8270C	Naphthalene	7860	2	666.0	15.6	ug/Kg	02/03/04 DP
8270C	Nitrobenzene	ND	2	666.0	60.6	ug/Kg	02/03/04 DP
8270C	Pentachlorophenol	ND	2	3330.0	38.0	ug/Kg	02/03/04 DP
8270C	Phenanthrene	4760	2	666.0	19.4	ug/Kg	02/03/04 DP
8270C	Phenol	ND	2	666.0	229.8	ug/Kg	02/03/04 DP
8270C	Pyrene	ND	2	666.0	28.2	ug/Kg	02/03/04 DP

Surrogates			Units	Control Limits
8270C	2,4,6-Tribromophenol (sur)	63	%	17 - 122
8270C	2-Fluorobiphenyl (sur)	57	%	30 - 115
8270C	2-Fluorophenol (sur)	35	%	25 - 121
8270C	Nitrobenzene-d5 (sur)	93	%	23 - 120
8270C	Phenol-d5 (sur)	51	%	24 - 113
8270C	Terphenyl-d14 (sur)	60	%	18 - 137

8260B	1,1,1,2-Tetrachloroethane	ND	100	500.0	2.19	ug/Kg	02/03/04 AM
8260B	1,1,1-Trichloroethane	ND	100	500.0	0.47	ug/Kg	02/03/04 AM
8260B	1,1,2,2-Tetrachloroethane	ND	100	500.0	0.50	ug/Kg	02/03/04 AM
8260B	1,1,2-Trichloroethane	ND	100	500.0	0.57	ug/Kg	02/03/04 AM
8260B	1,1,2-Trichlorotrifluoroethane	ND	100	500.0	0.10	ug/Kg	02/03/04 AM
8260B	1,1-Dichloroethane	ND	100	500.0	0.74	ug/Kg	02/03/04 AM
8260B	1,1-Dichloroethene	ND	100	500.0	0.43	ug/Kg	02/03/04 AM
8260B	1,1-Dichloropropene	ND	100	500.0	1.30	ug/Kg	02/03/04 AM
8260B	1,2,3-Trichlorobenzene	ND	100	500.0	0.54	ug/Kg	02/03/04 AM
8260B	1,2,3-Trichloropropane	ND	100	500.0	0.65	ug/Kg	02/03/04 AM
8260B	1,2,4-Trichlorobenzene	ND	100	500.0	0.54	ug/Kg	02/03/04 AM
8260B	1,2,4-Trimethylbenzene	ND	100	500.0	0.60	ug/Kg	02/03/04 AM
8260B	1,2-Dibromo-3-chloropropane	ND	100	500.0	1.92	ug/Kg	02/03/04 AM
8260B	1,2-Dibromoethane	ND	100	500.0	0.43	ug/Kg	02/03/04 AM
8260B	1,2-Dichlorobenzene	ND	100	500.0	0.45	ug/Kg	02/03/04 AM
8260B	1,2-Dichloroethane	ND	100	500.0	0.59	ug/Kg	02/03/04 AM

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND – Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494462 **Client Sample ID**: B-36-12.5

Matrix: SOLID

Date Sampled: 01/29/2004
T' Sampled: 12:12

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	1,2-Dichloropropane	ND	100	500.0	0.58	ug/Kg	02/03/04 AM
8260B	1,3,5-Trimethylbenzene	ND	100	500.0	0.55	ug/Kg	02/03/04 AM
8260B	1,3-Dichlorobenzene	1560	100	500.0	0.44	ug/Kg	02/03/04 AM
8260B	1,3-Dichloropropane	ND	100	500.0	0.51	ug/Kg	02/03/04 AM
8260B	1,4-Dichlorobenzene	13800	100	500.0	0.46	ug/Kg	02/03/04 AM
8260B	1-Chlorohexane	ND	100	500.0	0.38	ug/Kg	02/03/04 AM
8260B	2,2-Dichloropropane	ND	100	500.0	0.47	ug/Kg	02/03/04 AM
8260B	2-Butanone (MEK)	ND	100	10000.0	0.98	ug/Kg	02/03/04 AM
8260B	2-Chloroethyl vinyl ether	ND	100	500.0	0.46	ug/Kg	02/03/04 AM
8260B	2-Chlorotoluene	ND	100	500.0	0.92	ug/Kg	02/03/04 AM
8260B	2-Hexanone	ND	100	500.0	4.7	ug/Kg	02/03/04 AM
8260B	4-Chlorotoluene	ND	100	500.0	0.52	ug/Kg	02/03/04 AM
8260B	4-Methyl -2- Pentanone	ND	100	500.0	0.49	ug/Kg	02/03/04 AM
8260B	Acetone	ND	100	5000.0	3.81	ug/Kg	02/03/04 AM
8260B	Acetonitrile	ND	100	500.0	0.7	ug/Kg	02/03/04 AM
8260B	Acrolein	ND	100	20000.0	172	ug/Kg	02/03/04 AM
8260B	Acrylonitrile	ND	100	500.0	1.3	ug/Kg	02/03/04 AM
8260B	Allyl chloride	ND	100	500.0	0.4	ug/Kg	02/03/04 AM
8260B	Benzene	ND	100	500.0	0.39	ug/Kg	02/03/04 AM
8260B	Benzyl chloride	ND	100	500.0	0.38	ug/Kg	02/03/04 AM
8260B	Bromobenzene	ND	100	500.0	0.65	ug/Kg	02/03/04 AM
8260B	Bromochloromethane	ND	100	500.0	0.36	ug/Kg	02/03/04 AM
8260B	Bromodichloromethane	ND	100	500.0	0.48	ug/Kg	02/03/04 AM
8260B	Bromoform	ND	100	500.0	0.53	ug/Kg	02/03/04 AM
8260B	Bromomethane	ND	100	500.0	2.07	ug/Kg	02/03/04 AM
8260B	Carbon Disulfide	ND	100	500.0	0.8	ug/Kg	02/03/04 AM
8260B	Carbon tetrachloride	ND	100	500.0	0.40	ug/Kg	02/03/04 AM
8260B	Chlorobenzene	ND	100	500.0	0.42	ug/Kg	02/03/04 AM
8260B	Chloroethane	ND	100	500.0	1.1	ug/Kg	02/03/04 AM
8260B	Chloroform	ND	100	500.0	0.46	ug/Kg	02/03/04 AM
8260B	Chloromethane	ND	100	500.0	0.25	ug/Kg	02/03/04 AM
8260B	cis-1,2-Dichloroethene	ND	100	500.0	0.79	ug/Kg	02/03/04 AM
8260B	cis-1,3-Dichloropropene	ND	100	500.0	0.38	ug/Kg	02/03/04 AM
8260B	cis-1,4-Dichloro-2-butene	ND	100	500.0	0.59	ug/Kg	02/03/04 AM
8260B	Dibromochloromethane	ND	100	500.0	0.44	ug/Kg	02/03/04 AM
8260B	Dibromomethane	ND	100	500.0	0.46	ug/Kg	02/03/04 AM
8260B	Dichlorodifluoromethane	ND	100	500.0	0.16	ug/Kg	02/03/04 AM
8260B	Ethyl benzene	149 J	100	500.0	0.41	ug/Kg	02/03/04 AM
8260B	Ethyl methacrylate	ND	100	500.0	1.8	ug/Kg	02/03/04 AM

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494462 **Client Sample ID:** B-36-12.5

Matrix: SOLID

Date Sampled: 01/29/2004
T' Sampled: 12:12

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Hexachlorobutadiene	ND	100	500.0	0.29	ug/Kg	02/03/04 AM
8260B	Iodomethane	ND	100	500.0	0.6	ug/Kg	02/03/04 AM
8260B	Isopropylbenzene (Cumene)	186 J	100	500.0	0.38	ug/Kg	02/03/04 AM
8260B	Methacrylonitrile	ND	100	500.0	2.70	ug/Kg	02/03/04 AM
8260B	Methyl methacrylate	ND	100	500.0	0.21	ug/Kg	02/03/04 AM
8260B	Methyl-tert-butylether (MTBE)	ND	100	500.0	0.51	ug/Kg	02/03/04 AM
8260B	Methylene chloride	ND	100	500.0	0.91	ug/Kg	02/03/04 AM
8260B	n-Butylbenzene	ND	100	500.0	0.38	ug/Kg	02/03/04 AM
8260B	n-Propylbenzene	450 J	100	500.0	0.32	ug/Kg	02/03/04 AM
8260B	Naphthalene	5310	100	500.0	0.60	ug/Kg	02/03/04 AM
8260B	p-Isopropyltoluene	ND	100	500.0	0.32	ug/Kg	02/03/04 AM
8260B	Pentachloroethane	ND	100	500.0	0.6	ug/Kg	02/03/04 AM
8260B	Propionitrile	ND	100	500.0	5	ug/Kg	02/03/04 AM
8260B	sec-Butylbenzene	ND	100	500.0	0.31	ug/Kg	02/03/04 AM
8260B	Styrene	ND	100	500.0	0.37	ug/Kg	02/03/04 AM
8260B	tert-Butylbenzene	ND	100	500.0	0.41	ug/Kg	02/03/04 AM
8260B	Tetrachloroethene	ND	100	500.0	0.49	ug/Kg	02/03/04 AM
8260B	Toluene	ND	100	500.0	0.42	ug/Kg	02/03/04 AM
8260B	trans-1,2-Dichloroethene	ND	100	500.0	0.48	ug/Kg	02/03/04 AM
8260B	trans-1,3-Dichloropropene	ND	100	500.0	0.44	ug/Kg	02/03/04 AM
8260B	trans-1,4-Dichloro-2-butene	ND	100	500.0	2.35	ug/Kg	02/03/04 AM
8260B	Trichloroethene	ND	100	500.0	0.43	ug/Kg	02/03/04 AM
8260B	Trichlorofluoromethane	ND	100	500.0	0.40	ug/Kg	02/03/04 AM
8260B	Vinyl acetate	ND	100	5000.0	10.2	ug/Kg	02/03/04 AM
8260B	Vinyl chloride	ND	100	500.0	0.47	ug/Kg	02/03/04 AM
8260B	Xylenes, total	ND	100	500.0	0.8	ug/Kg	02/03/04 AM

Surrogates			Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	88	%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	97	%	70 - 135
8260B	Surr3 - Toluene-d8	106	%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	110	%	70 - 135

8082	PCB-1016	ND	100	3.0	0.003	mg/Kg	02/04/04 RB
8082	PCB-1221	ND	100	6.0	0.006	mg/Kg	02/04/04 RB
8082	PCB-1232	ND	100	5.0	0.004	mg/Kg	02/04/04 RB
8082	PCB-1242	ND	100	5.0	0.002	mg/Kg	02/04/04 RB
8082	PCB-1248	ND	100	8.0	0.008	mg/Kg	02/04/04 RB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494462 **Client Sample ID:** B-36-12.5

Matrix: SOLID

Date Sampled: 01/29/2004
T[illegible] Sampled: 12:12

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1254	ND	100	3.0	0.001	mg/Kg	02/04/04 RB
8082	PCB-1260	40	100	3.0	0.002	mg/Kg	02/04/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	90				%	50 - 135
8015	Diesel	6000	100	300.0	0.7	mg/Kg	02/03/04 AF
8015	Gasoline	ND	100	300.0	0.4	mg/Kg	02/03/04 AF
8015	Motor Oil	ND	100	500.0	1.1	mg/Kg	02/03/04 AF

E[illegible] = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494463 **Client Sample ID:** B-26-12.5

Matrix: SOLID

Date Sampled: 01/29/2004
Time Sampled: 09:08

Method	Analyte	Result		DF	EQL	MDL	Units	Date/Analyst	
6010B	Antimony	ND		1	3.0	0.62	mg/Kg	02/04/04	KN
6010B	Arsenic	7.51		1	1.0	0.72	mg/Kg	02/04/04	KN
6010B	Barium	63.5		1	1.0	0.05	mg/Kg	02/04/04	KN
6010B	Beryllium	0.342	J	1	0.5	0.16	mg/Kg	02/04/04	KN
6010B	Cadmium	0.272	J	1	0.5	0.06	mg/Kg	02/04/04	KN
6010B	Chromium	14.6		1	1.0	0.14	mg/Kg	02/04/04	KN
6010B	Cobalt	7.48		1	0.5	0.06	mg/Kg	02/04/04	KN
6010B	Copper	19.1		1	1.0	0.10	mg/Kg	02/04/04	KN
6010B	Lead	0.568		1	0.5	0.16	mg/Kg	02/04/04	KN
6010B	Molybdenum	5.28		1	1.0	0.38	mg/Kg	02/04/04	KN
6010B	Nickel	10.3		1	1.5	0.29	mg/Kg	02/04/04	KN
6010B	Selenium	ND		1	1.0	0.55	mg/Kg	02/04/04	KN
6010B	Silver	0.123	J	1	0.5	0.12	mg/Kg	02/04/04	KN
6010B	Thallium	ND		1	1.0	0.33	mg/Kg	02/04/04	KN
6010B	Vanadium	42.2		1	0.5	0.17	mg/Kg	02/04/04	KN
6010B	Zinc	46.9		1	5.0	0.07	mg/Kg	02/04/04	KN
1030	Ignitability of Solids	Passes		1			P/F	02/03/04	HK
7471A	Mercury	ND		1	0.14	0.02	mg/Kg	02/02/04	MDJ
8270C	1,2,4-Trichlorobenzene	ND		2	666.0	32.1	ug/Kg	02/03/04	DP
8270C	1,2-Dichlorobenzene	ND		2	666.0	69.1	ug/Kg	02/03/04	DP
8270C	1,3-Dichlorobenzene	ND		2	666.0	133.5	ug/Kg	02/03/04	DP
8270C	1,4-Dichlorobenzene	5690		2	666.0	58.0	ug/Kg	02/03/04	DP
8270C	2,4,5-Trichlorophenol	ND		2	3330.0	33.6	ug/Kg	02/03/04	DP
8270C	2,4,6-Trichlorophenol	ND		2	3330.0	31.9	ug/Kg	02/03/04	DP
8270C	2,4-Dichlorophenol	ND		2	666.0	35.3	ug/Kg	02/03/04	DP
8270C	2,4-Dimethylphenol	ND		2	666.0	37.1	ug/Kg	02/03/04	DP
8270C	2,4-Dinitrophenol	ND		2	3330.0	60.5	ug/Kg	02/03/04	DP
8270C	2,4-Dinitrotoluene	ND		2	666.0	58.4	ug/Kg	02/03/04	DP
8270C	2,6-Dinitrotoluene	ND		2	666.0	50.4	ug/Kg	02/03/04	DP
8270C	2-Chloronaphthalene	ND		2	666.0	18.2	ug/Kg	02/03/04	DP
8270C	2-Chlorophenol	ND		2	666.0	230.8	ug/Kg	02/03/04	DP
8270C	2-Methylnaphthalene	24200		2	666.0	31.6	ug/Kg	02/03/04	DP
8270C	2-Methylphenol	ND		2	666.0	194.3	ug/Kg	02/03/04	DP

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494463 **Client Sample ID:** B-26-12.5

Matrix: SOLID

Date Sampled: 01/29/2004
T' Sampled: 09:08

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	2-Nitroaniline	ND	2	3330.0	30.8	ug/Kg	02/03/04 DP
8270C	2-Nitrophenol	ND	2	666.0	63.4	ug/Kg	02/03/04 DP
8270C	3,3-Dichlorobenzidine	ND	2	666.0	52.3	ug/Kg	02/03/04 DP
8270C	3-Methylphenol	ND	2	666.0	211.4	ug/Kg	02/03/04 DP
8270C	3-Nitroaniline	ND	2	3330.0	31.1	ug/Kg	02/03/04 DP
8270C	4,6-Dinitro-2-methylphenol	ND	2	3330.0	44.9	ug/Kg	02/03/04 DP
8270C	4-Bromophenyl-phenylether	ND	2	666.0	29.6	ug/Kg	02/03/04 DP
8270C	4-Chloro-3-methylphenol	ND	2	666.0	48.8	ug/Kg	02/03/04 DP
8270C	4-Chloroaniline	ND	2	666.0	19.2	ug/Kg	02/03/04 DP
8270C	4-Chlorophenyl-phenylether	ND	2	666.0	38.1	ug/Kg	02/03/04 DP
8270C	4-Methylphenol	ND	2	666.0	211.4	ug/Kg	02/03/04 DP
8270C	4-Nitroaniline	ND	2	3330.0	134.9	ug/Kg	02/03/04 DP
8270C	4-Nitrophenol	ND	2	3330.0	84.8	ug/Kg	02/03/04 DP
8270C	Acenaphthene	ND	2	666.0	17.4	ug/Kg	02/03/04 DP
8270C	Acenaphthylene	ND	2	666.0	14.8	ug/Kg	02/03/04 DP
8270C	Anthracene	ND	2	666.0	9.9	ug/Kg	02/03/04 DP
8270C	Benzidine	ND	2	666.0	260	ug/Kg	02/03/04 DP
8270C	Benzo(a)anthracene	ND	2	666.0	26.2	ug/Kg	02/03/04 DP
8270C	Benzo(a)pyrene	ND	2	666.0	20.0	ug/Kg	02/03/04 DP
8270C	Benzo(b)fluoranthene	ND	2	666.0	29.9	ug/Kg	02/03/04 DP
8270C	Benzo(g,h,i)perylene	ND	2	666.0	13.9	ug/Kg	02/03/04 DP
8270C	Benzo(k)fluoranthene	ND	2	666.0	23.7	ug/Kg	02/03/04 DP
8270C	Benzoic Acid	ND	2	666.0	70.0	ug/Kg	02/03/04 DP
8270C	Benzyl alcohol	ND	2	666.0	197.0	ug/Kg	02/03/04 DP
8270C	bis(2-Chloroethoxy)methane	ND	2	666.0	22.6	ug/Kg	02/03/04 DP
8270C	bis(2-Chloroethyl)ether	ND	2	666.0	291.5	ug/Kg	02/03/04 DP
8270C	bis(2-Chloroisopropyl) ether	ND	2	666.0	275.3	ug/Kg	02/03/04 DP
8270C	bis(2-Ethylhexyl)phthalate	449 J	2	666.0	36.1	ug/Kg	02/03/04 DP
8270C	Butylbenzylphthalate	ND	2	666.0	25.9	ug/Kg	02/03/04 DP
8270C	Chrysene	ND	2	666.0	38.0	ug/Kg	02/03/04 DP
8270C	Di-n-butylphthalate	ND	2	666.0	30.7	ug/Kg	02/03/04 DP
8270C	Di-n-octylphthalate	ND	2	666.0	66.3	ug/Kg	02/03/04 DP
8270C	Dibenz(a,h)anthracene	ND	2	666.0	32.3	ug/Kg	02/03/04 DP
8270C	Dibenzofuran	ND	2	666.0	16.4	ug/Kg	02/03/04 DP
8270C	Diethylphthalate	ND	2	666.0	43.8	ug/Kg	02/03/04 DP
8270C	Dimethylphthalate	ND	2	666.0	28.6	ug/Kg	02/03/04 DP
8270C	Fluoranthene	ND	2	666.0	28.2	ug/Kg	02/03/04 DP
8270C	Fluorene	ND	2	666.0	19.3	ug/Kg	02/03/04 DP
8270C	Hexachlorobenzene	ND	2	666.0	49.4	ug/Kg	02/03/04 DP

E[illegible] = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494463 **Client Sample ID:** B-26-12.5

Matrix: SOLID

Date Sampled: 01/29/2004
Time Sampled: 09:08

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	Hexachlorobutadiene	ND	2	666.0	40.1	ug/Kg	02/03/04 DP
8270C	Hexachlorocyclopentadiene	ND	2	666.0	48.3	ug/Kg	02/03/04 DP
8270C	Hexachloroethane	ND	2	666.0	180.8	ug/Kg	02/03/04 DP
8270C	Indeno(1,2,3-c,d)pyrene	ND	2	666.0	36.1	ug/Kg	02/03/04 DP
8270C	Isophorone	ND	2	666.0	30.4	ug/Kg	02/03/04 DP
8270C	N-Nitroso-di-n-propylamine	ND	2	666.0	221.8	ug/Kg	02/03/04 DP
8270C	N-Nitrosodiphenylamine	ND	2	666.0	29.1	ug/Kg	02/03/04 DP
8270C	Naphthalene	7970	2	666.0	15.6	ug/Kg	02/03/04 DP
8270C	Nitrobenzene	ND	2	666.0	60.6	ug/Kg	02/03/04 DP
8270C	Pentachlorophenol	ND	2	3330.0	38.0	ug/Kg	02/03/04 DP
8270C	Phenanthrene	4150	2	666.0	19.4	ug/Kg	02/03/04 DP
8270C	Phenol	ND	2	666.0	229.8	ug/Kg	02/03/04 DP
8270C	Pyrene	ND	2	666.0	28.2	ug/Kg	02/03/04 DP

Surrogates			Units	Control Limits
8270C	2,4,6-Tribromophenol (sur)	52	%	17 - 122
8270C	2-Fluorobiphenyl (sur)	56	%	30 - 115
8270C	2-Fluorophenol (sur)	31	%	25 - 121
8270C	Nitrobenzene-d5 (sur)	85	%	23 - 120
8270C	Phenol-d5 (sur)	55	%	24 - 113
8270C	Terphenyl-d14 (sur)	55	%	18 - 137

8260B	1,1,1,2-Tetrachloroethane	ND	500	2500.0	2.19	ug/Kg	02/03/04 AM
8260B	1,1,1-Trichloroethane	ND	500	2500.0	0.47	ug/Kg	02/03/04 AM
8260B	1,1,2,2-Tetrachloroethane	ND	500	2500.0	0.50	ug/Kg	02/03/04 AM
8260B	1,1,2-Trichloroethane	ND	500	2500.0	0.57	ug/Kg	02/03/04 AM
8260B	1,1,2-Trichlorotrifluoroethane	ND	500	2500.0	0.10	ug/Kg	02/03/04 AM
8260B	1,1-Dichloroethane	ND	500	2500.0	0.74	ug/Kg	02/03/04 AM
8260B	1,1-Dichloroethene	ND	500	2500.0	0.43	ug/Kg	02/03/04 AM
8260B	1,1-Dichloropropene	ND	500	2500.0	1.30	ug/Kg	02/03/04 AM
8260B	1,2,3-Trichlorobenzene	ND	500	2500.0	0.54	ug/Kg	02/03/04 AM
8260B	1,2,3-Trichloropropane	ND	500	2500.0	0.65	ug/Kg	02/03/04 AM
8260B	1,2,4-Trichlorobenzene	ND	500	2500.0	0.54	ug/Kg	02/03/04 AM
8260B	1,2,4-Trimethylbenzene	ND	500	2500.0	0.60	ug/Kg	02/03/04 AM
8260B	1,2-Dibromo-3-chloropropane	ND	500	2500.0	1.92	ug/Kg	02/03/04 AM
8260B	1,2-Dibromoethane	ND	500	2500.0	0.43	ug/Kg	02/03/04 AM
8260B	1,2-Dichlorobenzene	ND	500	2500.0	0.45	ug/Kg	02/03/04 AM
8260B	1,2-Dichloroethane	ND	500	2500.0	0.59	ug/Kg	02/03/04 AM

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494463 **Client Sample ID:** B-26-12.5

Matrix: SOLID

Date Sampled: 01/29/2004
T' Sampled: 09:08

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	1,2-Dichloropropane	ND	500	2500.0	0.58	ug/Kg	02/03/04 AM
8260B	1,3,5-Trimethylbenzene	ND	500	2500.0	0.55	ug/Kg	02/03/04 AM
8260B	1,3-Dichlorobenzene	ND	500	2500.0	0.44	ug/Kg	02/03/04 AM
8260B	1,3-Dichloropropane	ND	500	2500.0	0.51	ug/Kg	02/03/04 AM
8260B	1,4-Dichlorobenzene	7340	500	2500.0	0.46	ug/Kg	02/03/04 AM
8260B	1-Chlorohexane	ND	500	2500.0	0.38	ug/Kg	02/03/04 AM
8260B	2,2-Dichloropropane	ND	500	2500.0	0.47	ug/Kg	02/03/04 AM
8260B	2-Butanone (MEK)	ND	500	50000.0	0.98	ug/Kg	02/03/04 AM
8260B	2-Chloroethyl vinyl ether	ND	500	2500.0	0.46	ug/Kg	02/03/04 AM
8260B	2-Chlorotoluene	ND	500	2500.0	0.92	ug/Kg	02/03/04 AM
8260B	2-Hexanone	ND	500	2500.0	4.7	ug/Kg	02/03/04 AM
8260B	4-Chlorotoluene	ND	500	2500.0	0.52	ug/Kg	02/03/04 AM
8260B	4-Methyl -2- Pentanone	ND	500	2500.0	0.49	ug/Kg	02/03/04 AM
8260B	Acetone	ND	500	25000.0	3.81	ug/Kg	02/03/04 AM
8260B	Acetonitrile	ND	500	2500.0	0.7	ug/Kg	02/03/04 AM
8260B	Acrolein	ND	500	100000.0	172	ug/Kg	02/03/04 AM
8260B	Acrylonitrile	ND	500	2500.0	1.3	ug/Kg	02/03/04 AM
8260B	Allyl chloride	ND	500	2500.0	0.4	ug/Kg	02/03/04 AM
8260B	Benzene	ND	500	2500.0	0.39	ug/Kg	02/03/04 AM
8260B	Benzyl chloride	ND	500	2500.0	0.38	ug/Kg	02/03/04 AM
8260B	Bromobenzene	ND	500	2500.0	0.65	ug/Kg	02/03/04 AM
8260B	Bromochloromethane	ND	500	2500.0	0.36	ug/Kg	02/03/04 AM
8260B	Bromodichloromethane	ND	500	2500.0	0.48	ug/Kg	02/03/04 AM
8260B	Bromoform	ND	500	2500.0	0.53	ug/Kg	02/03/04 AM
8260B	Bromomethane	ND	500	2500.0	2.07	ug/Kg	02/03/04 AM
8260B	Carbon Disulfide	ND	500	2500.0	0.8	ug/Kg	02/03/04 AM
8260B	Carbon tetrachloride	ND	500	2500.0	0.40	ug/Kg	02/03/04 AM
8260B	Chlorobenzene	ND	500	2500.0	0.42	ug/Kg	02/03/04 AM
8260B	Chloroethane	ND	500	2500.0	1.1	ug/Kg	02/03/04 AM
8260B	Chloroform	ND	500	2500.0	0.46	ug/Kg	02/03/04 AM
8260B	Chloromethane	ND	500	2500.0	0.25	ug/Kg	02/03/04 AM
8260B	cis-1,2-Dichloroethene	ND	500	2500.0	0.79	ug/Kg	02/03/04 AM
8260B	cis-1,3-Dichloropropene	ND	500	2500.0	0.38	ug/Kg	02/03/04 AM
8260B	cis-1,4-Dichloro-2-butene	ND	500	2500.0	0.59	ug/Kg	02/03/04 AM
8260B	Dibromochloromethane	ND	500	2500.0	0.44	ug/Kg	02/03/04 AM
8260B	Dibromomethane	ND	500	2500.0	0.46	ug/Kg	02/03/04 AM
8260B	Dichlorodifluoromethane	ND	500	2500.0	0.16	ug/Kg	02/03/04 AM
8260B	Ethyl benzene	ND	500	2500.0	0.41	ug/Kg	02/03/04 AM
8260B	Ethyl methacrylate	ND	500	2500.0	1.8	ug/Kg	02/03/04 AM

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494463 **Client Sample ID:** B-26-12.5

Matrix: SOLID

Date Sampled: 01/29/2004
T Sampled: 09:08

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Hexachlorobutadiene	ND	500	2500.0	0.29	ug/Kg	02/03/04 AM
8260B	Iodomethane	ND	500	2500.0	0.6	ug/Kg	02/03/04 AM
8260B	Isopropylbenzene (Cumene)	ND	500	2500.0	0.38	ug/Kg	02/03/04 AM
8260B	Methacrylonitrile	ND	500	2500.0	2.70	ug/Kg	02/03/04 AM
8260B	Methyl methacrylate	ND	500	2500.0	0.21	ug/Kg	02/03/04 AM
8260B	Methyl-tert-butylether (MTBE)	ND	500	2500.0	0.51	ug/Kg	02/03/04 AM
8260B	Methylene chloride	ND	500	2500.0	0.91	ug/Kg	02/03/04 AM
8260B	n-Butylbenzene	ND	500	2500.0	0.38	ug/Kg	02/03/04 AM
8260B	n-Propylbenzene	ND	500	2500.0	0.32	ug/Kg	02/03/04 AM
8260B	Naphthalene	8010	500	2500.0	0.60	ug/Kg	02/03/04 AM
8260B	p-Isopropyltoluene	ND	500	2500.0	0.32	ug/Kg	02/03/04 AM
8260B	Pentachloroethane	ND	500	2500.0	0.6	ug/Kg	02/03/04 AM
8260B	Propionitrile	ND	500	2500.0	5	ug/Kg	02/03/04 AM
8260B	sec-Butylbenzene	ND	500	2500.0	0.31	ug/Kg	02/03/04 AM
8260B	Styrene	ND	500	2500.0	0.37	ug/Kg	02/03/04 AM
8260B	tert-Butylbenzene	ND	500	2500.0	0.41	ug/Kg	02/03/04 AM
8260B	Tetrachloroethene	ND	500	2500.0	0.49	ug/Kg	02/03/04 AM
8260B	Toluene	ND	500	2500.0	0.42	ug/Kg	02/03/04 AM
8260B	trans-1,2-Dichloroethene	ND	500	2500.0	0.48	ug/Kg	02/03/04 AM
8260B	trans-1,3-Dichloropropene	ND	500	2500.0	0.44	ug/Kg	02/03/04 AM
8260B	trans-1,4-Dichloro-2-butene	ND	500	2500.0	2.35	ug/Kg	02/03/04 AM
8260B	Trichloroethene	ND	500	2500.0	0.43	ug/Kg	02/03/04 AM
8260B	Trichlorofluoromethane	ND	500	2500.0	0.40	ug/Kg	02/03/04 AM
8260B	Vinyl acetate	ND	500	25000.0	10.2	ug/Kg	02/03/04 AM
8260B	Vinyl chloride	ND	500	2500.0	0.47	ug/Kg	02/03/04 AM
8260B	Xylenes, total	ND	500	2500.0	0.8	ug/Kg	02/03/04 AM

Surrogates			Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	90	%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	94	%	70 - 135
8260B	Surr3 - Toluene-d8	110	%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	102	%	70 - 135

8082	PCB-1016	ND	50	1.5	0.003	mg/Kg	02/04/04 RB
8082	PCB-1221	ND	50	3.0	0.006	mg/Kg	02/04/04 RB
8082	PCB-1232	ND	50	2.5	0.004	mg/Kg	02/04/04 RB
8082	PCB-1242	ND	50	2.5	0.002	mg/Kg	02/04/04 RB
8082	PCB-1248	ND	50	4.0	0.008	mg/Kg	02/04/04 RB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494463 **Client Sample ID:** B-26-12.5

Matrix: SOLID

Date Sampled: 01/29/2004
Time Sampled: 09:08

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1254	ND	50	1.5	0.001	mg/Kg	02/04/04 RB
8082	PCB-1260	21	50	1.5	0.002	mg/Kg	02/04/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	91				%	50 - 135
8015	Diesel	7000	100	300.0	0.7	mg/Kg	02/03/04 AF
8015	Gasoline	300	100	300.0	0.4	mg/Kg	02/03/04 AF
8015	Motor Oil	ND	100	500.0	1.1	mg/Kg	02/03/04 AF

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494464 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Antimony	ND	1	3.00	0.62	mg/Kg	02/04/04 KN
6010B	Arsenic	ND	1	1.00	0.72	mg/Kg	02/04/04 KN
6010B	Barium	ND	1	1.00	0.05	mg/Kg	02/04/04 KN
6010B	Beryllium	ND	1	0.50	0.16	mg/Kg	02/04/04 KN
6010B	Cadmium	ND	1	0.50	0.06	mg/Kg	02/04/04 KN
6010B	Chromium	ND	1	1.00	0.14	mg/Kg	02/04/04 KN
6010B	Cobalt	ND	1	0.50	0.06	mg/Kg	02/04/04 KN
6010B	Copper	ND	1	1.00	0.10	mg/Kg	02/04/04 KN
6010B	Lead	ND	1	0.50	0.16	mg/Kg	02/04/04 KN
6010B	Molybdenum	ND	1	1.00	0.38	mg/Kg	02/04/04 KN
6010B	Nickel	ND	1	1.50	0.29	mg/Kg	02/04/04 KN
6010B	Selenium	ND	1	1.00	0.55	mg/Kg	02/04/04 KN
6010B	Silver	ND	1	0.50	0.12	mg/Kg	02/04/04 KN
6010B	Thallium	ND	1	1.00	0.33	mg/Kg	02/04/04 KN
6010B	Vanadium	ND	1	0.50	0.17	mg/Kg	02/04/04 KN
6010B	Zinc	ND	1	5.00	0.07	mg/Kg	02/04/04 KN
7471A	Mercury	ND	1	0.14	0.02	mg/Kg	02/02/04 MDJ
8270C	1,2,4-Trichlorobenzene	ND	1	333	32.1	ug/Kg	02/03/04 DP
8270C	1,2-Dichlorobenzene	ND	1	333	69.1	ug/Kg	02/03/04 DP
8270C	1,3-Dichlorobenzene	ND	1	333	133.5	ug/Kg	02/03/04 DP
8270C	1,4-Dichlorobenzene	ND	1	333	58.0	ug/Kg	02/03/04 DP
8270C	2,4,5-Trichlorophenol	ND	1	1665	33.6	ug/Kg	02/03/04 DP
8270C	2,4,6-Trichlorophenol	ND	1	1665	31.9	ug/Kg	02/03/04 DP
8270C	2,4-Dichlorophenol	ND	1	333	35.3	ug/Kg	02/03/04 DP
8270C	2,4-Dimethylphenol	ND	1	333	37.1	ug/Kg	02/03/04 DP
8270C	2,4-Dinitrophenol	ND	1	1665	60.5	ug/Kg	02/03/04 DP
8270C	2,4-Dinitrotoluene	ND	1	333	58.4	ug/Kg	02/03/04 DP
8270C	2,6-Dinitrotoluene	ND	1	333	50.4	ug/Kg	02/03/04 DP
8270C	2-Chloronaphthalene	ND	1	333	18.2	ug/Kg	02/03/04 DP
8270C	2-Chlorophenol	ND	1	333	230.8	ug/Kg	02/03/04 DP
8270C	2-Methylnaphthalene	ND	1	333	31.6	ug/Kg	02/03/04 DP
8270C	2-Methylphenol	ND	1	333	194.3	ug/Kg	02/03/04 DP
8270C	2-Nitroaniline	ND	1	1665	30.8	ug/Kg	02/03/04 DP

E = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494464 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	2-Nitrophenol	ND	1	333	63.4	ug/Kg	02/03/04 DP
8270C	3,3-Dichlorobenzidine	ND	1	333	52.3	ug/Kg	02/03/04 DP
8270C	3-Methylphenol	ND	1	333	211.4	ug/Kg	02/03/04 DP
8270C	3-Nitroaniline	ND	1	1665	31.1	ug/Kg	02/03/04 DP
8270C	4,6-Dinitro-2-methylphenol	ND	1	1665	44.9	ug/Kg	02/03/04 DP
8270C	4-Bromophenyl-phenylether	ND	1	333	29.6	ug/Kg	02/03/04 DP
8270C	4-Chloro-3-methylphenol	ND	1	333	48.8	ug/Kg	02/03/04 DP
8270C	4-Chloroaniline	ND	1	333	19.2	ug/Kg	02/03/04 DP
8270C	4-Chlorophenyl-phenylether	ND	1	333	38.1	ug/Kg	02/03/04 DP
8270C	4-Methylphenol	ND	1	333	211.4	ug/Kg	02/03/04 DP
8270C	4-Nitroaniline	ND	1	1665	134.9	ug/Kg	02/03/04 DP
8270C	4-Nitrophenol	ND	1	1665	84.8	ug/Kg	02/03/04 DP
8270C	Acenaphthene	ND	1	333	17.4	ug/Kg	02/03/04 DP
8270C	Acenaphthylene	ND	1	333	14.8	ug/Kg	02/03/04 DP
8270C	Anthracene	ND	1	333	9.9	ug/Kg	02/03/04 DP
8270C	Benzidine	ND	1	333	260	ug/Kg	02/03/04 DP
8270C	Benzo(a)anthracene	ND	1	333	26.2	ug/Kg	02/03/04 DP
8270C	Benzo(a)pyrene	ND	1	333	20.0	ug/Kg	02/03/04 DP
8270C	Benzo(b)fluoranthene	ND	1	333	29.9	ug/Kg	02/03/04 DP
8270C	Benzo(g,h,i)perylene	ND	1	333	13.9	ug/Kg	02/03/04 DP
8270C	Benzo(k)fluoranthene	ND	1	333	23.7	ug/Kg	02/03/04 DP
8270C	Benzoic Acid	ND	1	333	70.0	ug/Kg	02/03/04 DP
8270C	Benzyl alcohol	ND	1	333	197.0	ug/Kg	02/03/04 DP
8270C	bis(2-Chloroethoxy)methane	ND	1	333	22.6	ug/Kg	02/03/04 DP
8270C	bis(2-Chloroethyl)ether	ND	1	333	291.5	ug/Kg	02/03/04 DP
8270C	bis(2-Chloroisopropyl) ether	ND	1	333	275.3	ug/Kg	02/03/04 DP
8270C	bis(2-Ethylhexyl)phthalate	ND	1	333	36.1	ug/Kg	02/03/04 DP
8270C	Butylbenzylphthalate	ND	1	333	25.9	ug/Kg	02/03/04 DP
8270C	Chrysene	ND	1	333	38.0	ug/Kg	02/03/04 DP
8270C	Di-n-butylphthalate	ND	1	333	30.7	ug/Kg	02/03/04 DP
8270C	Di-n-octylphthalate	ND	1	333	66.3	ug/Kg	02/03/04 DP
8270C	Dibenz(a,h)anthracene	ND	1	333	32.3	ug/Kg	02/03/04 DP
8270C	Dibenzofuran	ND	1	333	16.4	ug/Kg	02/03/04 DP
8270C	Diethylphthalate	ND	1	333	43.8	ug/Kg	02/03/04 DP
8270C	Dimethylphthalate	ND	1	333	28.6	ug/Kg	02/03/04 DP
8270C	Fluoranthene	ND	1	333	28.2	ug/Kg	02/03/04 DP
8270C	Fluorene	ND	1	333	19.3	ug/Kg	02/03/04 DP
8270C	Hexachlorobenzene	ND	1	333	49.4	ug/Kg	02/03/04 DP
8270C	Hexachlorobutadiene	ND	1	333	40.1	ug/Kg	02/03/04 DP

E[illegible] = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494464 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	Hexachlorocyclopentadiene	ND	1	333	48.3	ug/Kg	02/03/04 DP
8270C	Hexachloroethane	ND	1	333	180.8	ug/Kg	02/03/04 DP
8270C	Indeno(1,2,3-c,d)pyrene	ND	1	333	36.1	ug/Kg	02/03/04 DP
8270C	Isophorone	ND	1	333	30.4	ug/Kg	02/03/04 DP
8270C	N-Nitroso-di-n-propylamine	ND	1	333	221.8	ug/Kg	02/03/04 DP
8270C	N-Nitrosodiphenylamine	ND	1	333	29.1	ug/Kg	02/03/04 DP
8270C	Naphthalene	ND	1	333	15.6	ug/Kg	02/03/04 DP
8270C	Nitrobenzene	ND	1	333	60.6	ug/Kg	02/03/04 DP
8270C	Pentachlorophenol	ND	1	1665	38.0	ug/Kg	02/03/04 DP
8270C	Phenanthrene	ND	1	333	19.4	ug/Kg	02/03/04 DP
8270C	Phenol	ND	1	333	229.8	ug/Kg	02/03/04 DP
8270C	Pyrene	ND	1	333	28.2	ug/Kg	02/03/04 DP

Surrogates			Units	Control Limits
8270C	2,4,6-Tribromophenol (sur)	53	%	17 - 122
8270C	2-Fluorobiphenyl (sur)	52	%	30 - 115
8270C	2-Fluorophenol (sur)	50	%	25 - 121
8270C	Nitrobenzene-d5 (sur)	63	%	23 - 120
8270C	Phenol-d5 (sur)	66	%	24 - 113
8270C	Terphenyl-d14 (sur)	78	%	18 - 137

8260B	1,1,1,2-Tetrachloroethane	ND	1	5	2.19	ug/Kg	02/03/04 AM
8260B	1,1,1-Trichloroethane	ND	1	5	0.47	ug/Kg	02/03/04 AM
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.50	ug/Kg	02/03/04 AM
8260B	1,1,2-Trichloroethane	ND	1	5	0.57	ug/Kg	02/03/04 AM
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	0.10	ug/Kg	02/03/04 AM
8260B	1,1-Dichloroethane	ND	1	5	0.74	ug/Kg	02/03/04 AM
8260B	1,1-Dichloroethene	ND	1	5	0.43	ug/Kg	02/03/04 AM
8260B	1,1-Dichloropropene	ND	1	5	1.30	ug/Kg	02/03/04 AM
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.54	ug/Kg	02/03/04 AM
8260B	1,2,3-Trichloropropane	ND	1	5	0.65	ug/Kg	02/03/04 AM
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/Kg	02/03/04 AM
8260B	1,2,4-Trimethylbenzene	ND	1	5	0.60	ug/Kg	02/03/04 AM
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	1.92	ug/Kg	02/03/04 AM
8260B	1,2-Dibromoethane	ND	1	5	0.43	ug/Kg	02/03/04 AM
8260B	1,2-Dichlorobenzene	ND	1	5	0.45	ug/Kg	02/03/04 AM
8260B	1,2-Dichloroethane	ND	1	5	0.59	ug/Kg	02/03/04 AM
8260B	1,2-Dichloropropane	ND	1	5	0.58	ug/Kg	02/03/04 AM

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494464 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	1,3,5-Trimethylbenzene	ND	1	5	0.55	ug/Kg	02/03/04 AM
8260B	1,3-Dichlorobenzene	ND	1	5	0.44	ug/Kg	02/03/04 AM
8260B	1,3-Dichloropropane	ND	1	5	0.51	ug/Kg	02/03/04 AM
8260B	1,4-Dichlorobenzene	ND	1	5	0.46	ug/Kg	02/03/04 AM
8260B	1-Chlorohexane	ND	1	5	0.38	ug/Kg	02/03/04 AM
8260B	2,2-Dichloropropane	ND	1	5	0.47	ug/Kg	02/03/04 AM
8260B	2-Butanone (MEK)	ND	1	100	0.98	ug/Kg	02/03/04 AM
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.46	ug/Kg	02/03/04 AM
8260B	2-Chlorotoluene	ND	1	5	0.92	ug/Kg	02/03/04 AM
8260B	2-Hexanone	ND	1	5	4.7	ug/Kg	02/03/04 AM
8260B	4-Chlorotoluene	ND	1	5	0.52	ug/Kg	02/03/04 AM
8260B	4-Methyl -2- Pentanone	ND	1	5	0.49	ug/Kg	02/03/04 AM
8260B	Acetone	ND	1	50	3.81	ug/Kg	02/03/04 AM
8260B	Acetonitrile	ND	1	5	0.7	ug/Kg	02/03/04 AM
8260B	Acrolein	ND	1	200	172	ug/Kg	02/03/04 AM
8260B	Acrylonitrile	ND	1	5	1.3	ug/Kg	02/03/04 AM
8260B	Allyl chloride	ND	1	5	0.4	ug/Kg	02/03/04 AM
8260B	Benzene	ND	1	5	0.39	ug/Kg	02/03/04 AM
8260B	Benzyl chloride	ND	1	5	0.38	ug/Kg	02/03/04 AM
8260B	Bromobenzene	ND	1	5	0.65	ug/Kg	02/03/04 AM
8260B	Bromochloromethane	ND	1	5	0.36	ug/Kg	02/03/04 AM
8260B	Bromodichloromethane	ND	1	5	0.48	ug/Kg	02/03/04 AM
8260B	Bromoform	ND	1	5	0.53	ug/Kg	02/03/04 AM
8260B	Bromomethane	ND	1	5	2.07	ug/Kg	02/03/04 AM
8260B	Carbon Disulfide	ND	1	5	0.8	ug/Kg	02/03/04 AM
8260B	Carbon tetrachloride	ND	1	5	0.40	ug/Kg	02/03/04 AM
8260B	Chlorobenzene	ND	1	5	0.42	ug/Kg	02/03/04 AM
8260B	Chloroethane	ND	1	5	1.1	ug/Kg	02/03/04 AM
8260B	Chloroform	ND	1	5	0.46	ug/Kg	02/03/04 AM
8260B	Chloromethane	ND	1	5	0.25	ug/Kg	02/03/04 AM
8260B	cis-1,2-Dichloroethene	ND	1	5	0.79	ug/Kg	02/03/04 AM
8260B	cis-1,3-Dichloropropene	ND	1	5	0.38	ug/Kg	02/03/04 AM
8260B	cis-1,4-Dichloro-2-butene	ND	1	5	0.59	ug/Kg	02/03/04 AM
8260B	Dibromochloromethane	ND	1	5	0.44	ug/Kg	02/03/04 AM
8260B	Dibromomethane	ND	1	5	0.46	ug/Kg	02/03/04 AM
8260B	Dichlorodifluoromethane	ND	1	5	0.16	ug/Kg	02/03/04 AM
8260B	Ethyl benzene	ND	1	5	0.41	ug/Kg	02/03/04 AM
8260B	Ethyl methacrylate	ND	1	5	1.8	ug/Kg	02/03/04 AM
8260B	Hexachlorobutadiene	ND	1	5	0.29	ug/Kg	02/03/04 AM

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494464 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Iodomethane	ND	1	5	0.6	ug/Kg	02/03/04 AM
8260B	Isopropylbenzene (Cumene)	ND	1	5	0.38	ug/Kg	02/03/04 AM
8260B	Methacrylonitrile	ND	1	5	2.70	ug/Kg	02/03/04 AM
8260B	Methyl methacrylate	ND	1	5	0.21	ug/Kg	02/03/04 AM
8260B	Methyl-tert-butylether (MTBE)	ND	1	5	0.51	ug/Kg	02/03/04 AM
8260B	Methylene chloride	ND	1	5	0.91	ug/Kg	02/03/04 AM
8260B	n-Butylbenzene	ND	1	5	0.38	ug/Kg	02/03/04 AM
8260B	n-Propylbenzene	ND	1	5	0.32	ug/Kg	02/03/04 AM
8260B	Naphthalene	ND	1	5	0.60	ug/Kg	02/03/04 AM
8260B	p-Isopropyltoluene	ND	1	5	0.32	ug/Kg	02/03/04 AM
8260B	Pentachloroethane	ND	1	5	0.6	ug/Kg	02/03/04 AM
8260B	Propionitrile	ND	1	5	5	ug/Kg	02/03/04 AM
8260B	sec-Butylbenzene	ND	1	5	0.31	ug/Kg	02/03/04 AM
8260B	Styrene	ND	1	5	0.37	ug/Kg	02/03/04 AM
8260B	tert-Butylbenzene	ND	1	5	0.41	ug/Kg	02/03/04 AM
8260B	Tetrachloroethene	ND	1	5	0.49	ug/Kg	02/03/04 AM
8260B	Toluene	ND	1	5	0.42	ug/Kg	02/03/04 AM
8260B	trans-1,2-Dichloroethene	ND	1	5	0.48	ug/Kg	02/03/04 AM
8260B	trans-1,3-Dichloropropene	ND	1	5	0.44	ug/Kg	02/03/04 AM
8260B	trans-1,4-Dichloro-2-butene	ND	1	5	2.35	ug/Kg	02/03/04 AM
8260B	Trichloroethene	ND	1	5	0.43	ug/Kg	02/03/04 AM
8260B	Trichlorofluoromethane	ND	1	5	0.40	ug/Kg	02/03/04 AM
8260B	Vinyl acetate	ND	1	50	10.2	ug/Kg	02/03/04 AM
8260B	Vinyl chloride	ND	1	5	0.47	ug/Kg	02/03/04 AM
8260B	Xylenes, total	ND	1	5	0.8	ug/Kg	02/03/04 AM

Surrogates			Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	89	%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	92	%	70 - 135
8260B	Surr3 - Toluene-d8	114	%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	102	%	70 - 135

8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	02/03/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	02/03/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	02/03/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	02/03/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	02/03/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	02/03/04 RB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494464 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	02/03/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	107				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	02/02/04 AF
8015	Gasoline	ND	1	3	0.4	mg/Kg	02/02/04 AF
8015	Motor Oil	ND	1	5	1.1	mg/Kg	02/02/04 AF
8015	Oil	ND	1	5		mg/Kg	02/02/04 AF

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 123707-494462

Matrix: SOIL

Prep. Date: 02/02/04

Analysis Date: 02/02/04

ID#'s in Batch: LR 123707, 123633, 123572, 123659

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = mg/Kg

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
MERCURY	245.5 / 7471A	ND	0.78	0.81	0.84	104	108	4

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	0.78	0.79	99	80%	120%

Value = Preparation Blank Value; ND = Not-Detected
LCS Result = Lab Control Sample Result
True = True Value of LCS
L.Limit / H.Limit = LCS Control Limits

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 123707-494462 QC# 020404SO1

Matrix: SOLID

Prep. Date: 02/04/04

Analysis Date: 02/04/04

Lab ID#'s in Batch: LR 123707, 123799, 123893, 123769, 123872, 123942

REPORTING UNITS = mg/Kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Arsenic	6010	13.70		95	126	122	118	114	3
Selenium	6010	1.00	U	95	94	91	99	96	3
Thallium	6010	1.00	U	95	92	89	97	94	3
Lead	6010	2.13		95	99	96	102	99	3
Antimony	6010	3.00	U	95	96	96	101	101	0
Barium	6010	70.10		95	172	166	107	101	4
Beryllium	6010	0.60		95	100	100	105	105	0
Cadmium	6010	2.02		95	100	98	103	101	2
Chromium	6010	15.00		95	115	111	105	101	4
Cobalt	6010	9.01		95	99	96	95	92	3
Copper	6010	7.90		95	103	99	100	96	4
Molybdenum	6010	5.65	U	95	108	108	114	114	0
Nickel	6010	11.60		95	107	103	100	96	4
Silver	6010	0.50	U	48	40	41	84	86	2
Vanadium	6010	41.80		95	142	137	105	100	4
Zinc	6010	43.70		95	146	142	108	103	3

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - 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 = 75 -125
RPD LIMITS = 20

ASSOCIATED LABORATORIES

LCS/MB REPORT FORM

LCS Source(s) : QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank MB	Method Blank ND
Silver	6010	109	100	109	80%	120%	0.50	U
Arsenic	6010	197	200	99	80%	120%	0.50	U
Barium	6010	206	200	103	80%	120%	1.00	U
Beryllium	6010	209	200	105	80%	120%	0.50	U
Cadmium	6010	213	200	107	80%	120%	0.50	U
Cobalt	6010	203	200	102	80%	120%	0.50	U
Chromium	6010	215	200	108	80%	120%	1.00	U
Copper	6010	205	200	103	80%	120%	1.00	U
Molybdenum	6010	214	200	107	80%	120%	1.00	U
Nickel	6010	219	200	110	80%	120%	1.50	U
Lead	6010	206	200	103	80%	120%	0.50	U
Antimony	6010	216	200	108	80%	120%	3.00	U
Selenium	6010	204	200	102	80%	120%	1.00	U
Thallium	6010	217	200	109	80%	120%	1.00	U
Vanadium	6010	208	200	104	80%	120%	1.00	U
Zinc	6010	215	200	108	80%	120%	5.00	U

*Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True*

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Method Blank; ND = " U " for Non- Detected

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 123707-494447 QC# 021104tclp1

Matrix: TCLP

Prep. Date: 02/11/04

Analysis Date: 02/11/04

Lab ID#'s in Batch: LR 123707

REPORTING UNITS = mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	6010	0.193		1	1.04	1.01	85	82	3

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - 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 = 75 -125
RPD LIMITS = 20

LCS/MB REPORT FORM

LCS Source(s) : QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank MB	Method Blank ND
Lead	6010	1.79	2	90	80%	120%	0.05	U

*Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True*

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Method Blank; ND = " U " for Non- Detected

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 123707-494447 QC# 021104stlc1

Matrix: STLC

Prep. Date: 02/11/04

Analysis Date: 02/11/04

Lab ID#'s in Batch: LR 123707

REPORTING UNITS = mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	6010	2.79		10	12.60	11.20	98	84	12
Copper	6010	0.17		10	9.46	9.61	93	94	2

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - 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 = 75 -125
RPD LIMITS = 20

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 123707-429 MS

Matrix: SOLID

Extraction Method : 3545

Prep. Date: 02/02/04

Analysis Date: 02/02/04

ID#'s in Batch: LR 123707, 123717, 123699

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = mg/Kg

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
DIESEL	8015D	24	25	49	54	100	120	10

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 = 70 - 130
RPD LIMITS = 30

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

	PREP BLK					
	Value	Result	True	%Rec	L.Limit	H.Limit
LCS	ND	20.0	25	80	70%	130%
LCSD	ND	19.2	25	77	70%	130%

LCS Result = Lab Control Sample Result
True = True Value of LCS
L.Limit / H.Limit = LCS Control Limits

SURROGATE RECOVERY

Sample No.	O-Terphenyl
QC Limit	55-200
MS	123
MSD	131
Method Blank	119
LCS	113
LCSD	107

ASSOCIATED LABORATORIES
QA REPORT FORM

Determinative Method : EPA 8082 Preparative Method: EPA 3545

QC Sample: 123707-492458

Matrix: SOLID

Analysis Date: 2/3/04

Batch Date: 1/30/04 (pcb 013004s)

Applies to: LR 123707 (samples 494423 through 494459)

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULTS
REPORTING UNITS = mg/Kg

Test	Sample Result	Spike Added	Spike Recovered		% Rec		RPD	QC Limits	
			MS	MSD	MS	MSD		RPD	% Rec
Aroclor 1260	0.229	0.500	0.741	0.720	102	98	3	35	50-125

ND = Not Detected
% Rec - MS & MSD = Percent Recovery from Matrix Spike & Matrix Spike Duplicate
RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate recoveries

LAB CONTROL SPIKE RECOVERY / METHOD BLANK
REPORTING UNITS = mg/Kg

Test	Spike Added	Spike Recovered	% Rec LCS	QC Limit
Aroclor 1260	0.500	0.468	94	70-130

Method Blank = All ND
% Rec - LCS = Percent Recovery from Lab Control Spike

ASSOCIATED LABORATORIES
QA REPORT FORM

Determinative Method : EPA 8082 Preparative Method: EPA 3545

QC Sample: 123707-494462

Matrix: SOLID

Analysis Date: 2/4/04

Batch Date: 2/4/04 (pcb 020404s)

Applies to: LR 123701, LR 123707 and LR 123717

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULTS
REPORTING UNITS = mg/Kg

Test	Sample Result	Spike Added	Spike Recovered		% Rec		RPD	QC Limits	
			MS	MSD	MS	MSD		RPD	% Rec
Aroclor 1260 *	39.67	0.500	45.260	41.540	**1118**	**374**	9	35	50-125

***MS/MSD recoveries were out of control due to matrix interference.**

ND = Not Detected

c - MS & MSD = Percent Recovery from Matrix Spike & Matrix Spike Duplicate

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate recoveries

LAB CONTROL SPIKE RECOVERY / METHOD BLANK
REPORTING UNITS = mg/Kg

Test	Spike Added	Spike Recovered	% Rec LCS	QC Limit
Aroclor 1260	0.500	0.486	97	70-130

Method Blank = All ND

% Rec - LCS = Percent Recovery from Lab Control Spike

ASSOCIATED LABORATORIES

LCS REPORT FORM - METHOD 8260 / 624 / 524.2

QC Sample: LCS/LCSD - Soil Samples

Analysis Date: 01/31/04 8:08 AM

Applies to: LR 123681, 123707

Reporting Units = ug/Kg

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	LCS Spk. Dup	%Rec LCS	%Rec LCS D	RPD	QC Limits RPD	QC Limits %REC
1,1-Dichloroethene	ND	50	53.16	51.96	106	104	2	22	59-172
MTBE	ND	50	41.62	44.19	83	88	6	24	62-137
Benzene	ND	50	49.54	50.84	99	102	3	24	62-137
Trichloroethene	ND	50	59.06	57.09	118	114	3	21	66-142
Toluene	ND	50	58.15	55.83	116	112	4	21	59-139
Chlorobenzene	ND	50	53.68	53.01	107	106	1	21	60-133

Method Blank = All ND

SURROGATE (QC Limits : 70-135)

Compound	MB 2	MB 3	LCS	LCSD
DBFM	92	93	95	98
1,2-DCA	95	96	84	87
Tol-d8	106	111	106	103
p-BFB	100	97	96	93

ASSOCIATED LABORATORIES

LCS REPORT FORM - METHOD 8260 / 624 / 524.2

QC Sample: LCS/LCSD - Soil Samples

Analysis Date: 02/03/04 4:52 AM

Applies to: LR 123707

Reporting Units = ug/Kg

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	LCS Spk. Dup	%Rec LCS	%Rec LCS D	RPD	QC Limits RPD	QC Limits %REC
1,1-Dichloroethene	ND	50	47.15	45.18	94	90	4	22	59-172
MTBE	ND	50	42.44	45.16	85	90	6	24	62-137
Benzene	ND	50	49.51	50.59	99	101	2	24	62-137
Trichloroethene	ND	50	56.19	56.65	112	113	1	21	66-142
Toluene	ND	50	54.77	55.59	110	111	1	21	59-139
Chlorobenzene	ND	50	52.42	52.55	105	105	0	21	60-133

Method Blank = All ND

SURROGATE (QC Limits : 70-135)

Compound	MB	LCS	LCSD
DBFM	89	97	97
1,2-DCA	92	85	88
Tol-d8	114	104	106
p-BFB	102	95	97

ASSOCIATED LABORATORIES
LCS REPORT FORM

'ethod : EPA 8270/625

Prep. Method : 3550B

Prep. Method : 625

QC Sample: LCS 02/03/04

Matrix: SOLID

Date Extracted : 02/03/04

Date Analyzed: 02/03/04

ID#'s in Batch: LR 123707

REPORTING UNITS = ug/Kg

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	%Rec LCS	QC LIMIT %REC
Phenol	ND	50	36	72	17-99
2-Clorophenol	ND	50	30	60	28-88
1,4-Dichlorobenzene	ND	50	30	60	33-89
n-Nitroso-di-n-propylamine	ND	50	53	106	9-130
1,2,4-Trichlorobenzene	ND	50	32	64	25-92
4-Cloro-3-methylphenol	ND	50	39	78	27-96
Acenaphthene	ND	50	33	66	31-101
4-Nitrophenol	ND	50	26	52	8-123
2,4-Dinitrotoluene	ND	50	41	82	27-139
Pentachlorophenol	ND	50	22	44	0-151
yrene	ND	50	43	86	34-127

Method Blank = All ND

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868-1225 - 714/771-6900 FAX 714/538-1209

Cooler Receipt Form

Client: M & A Project: _____

Date Cooler Received: 1/30/02 Date Cooler Opened: 1/30/02

Was cooler scanned for presence of radioactivity ? Yes/No
If yes was radioactivity results above 25 cpm ? Yes/No

Was a shipper's packing slip attached to the cooler ? Yes/No

If the cooler had custody seal(s), were thy signed and intact ? Yes/No/Na

Was the cooler packed with: Ice X Ice Packs _____ Bubble wrap _____
Styrofoam _____ Paper _____ None _____ Other _____

Cooler Temperature: 1.0° *
*cooler needs to be received @ 4°C with an acceptable range of 2°- 6 °C

If samples were hand delivered do they meet the temp. criteria, which should be @ 4°C with an acceptable range of 2°- 6 °C ? Yes/No

If no explain: _____

Were all samples sealed in plastic bags ? Yes/No

Did all samples arrive intact ? If no, indicate below. Yes/No

Were all samples labeled correctly ? (ID's Dates, Times) If no, indicate below. Yes/No

Can the tests required be ran with the provided containers, If no indicate below. Yes/No

Was sufficient sample volume sent for all containers ? Yes/No

Were any VOA vials received with head space ? Yes/No/Na

Was the correct preservatives used ? Yes/No/Na
If no, see the pH log for a list of samples containers regarding pH

Any other important information: _____

Receiving Department: [signature] Date: 1/31/02

CAL TECH Environmental Laboratories
6814 Rosecrans Avenue, Paramount, CA 90723-3146
Telephone: (562) 272-2700 Fax: (562) 272-2789

Lab Job No. 123707

Chain of Custody Record

Client: Meredith + Associates
Contact: L. Edlund / K. Farrel
Address: 9841 Airport Blvd
Los Angeles
Project: Dico Oil
Sampled By: Lynn Edlund
Name/Signature

Phone: 310-670-9221
Fax: 310-670-9512

Turn Around Time
Rush
Normal

Analyses Requested

Lab ID Number	Field ID	Date/Time Sampled	~~Bottle Type~~ Sample Name	No.	Preserv.	Matrix	PCBs	Pb	Cr	TPH				Comments
	B-114-3"	1/29/04 0941	Comp74	1		Soil	✓	✓	✓	✓				No Pb or Cr
	B-115-3"	0944	↓											
	B-116-3" B-117-3"	0854	Comp75											
	B-118-3"	0901	↓											
	B-119-3"	0904	Comp76											
	B-120-3"	0910												
	B-121-3"	0914	↓											
	B-96-3"	1035	Comp67											
	B-97-3"	0837	↓											
	B-122-3"	0922	Comp77											

Relinquished: Lynn Edlund Date / Time: 1/29/04 1705 Received: Tom Vinson [illegible]

Dispatched : Date / Time: 1/29/04 5:32 Carrier: ASSOCIATED

I hereby authorize the performance of the above indicated tests.

Lynn Edlund Date / Time: 1/30/04 9:15 Received by lab: [illegible]

CTELCCR.DOC

Custody seal(s) in tact upon receipt by lab? YES NO NONE

1-30-04 1:20

CAL TECH Environmental Laboratories
6814 Rosecrans Avenue, Paramount, CA 90723-3146
Telephone: (562) 272-2700 Fax: (562) 272-2789

Lab Job No. 123702

Chain of Custody Record

Client: Meredith Associates
Contact: L Edlund / K. Farrel
Address: 9841 Airport Blvd
Los Angeles
Project: DCG 01
Sampled By: L Edlund
Name/Signature

Phone: 310-670-9221
Fax: 310-670-9512

Turn Around Time
Rush
Normal ✓

Analyses Requested

Lab ID Number	Field ID	Date/Time Sampled	Sample Name / ~~Bottle Type~~	No.	Preserv.	Matrix	PCB's	Pb	Cr	TPH-d				Comments
•	B-123-3"	1/29/04 0923	Comp77	1		Soil	✓	✓	✓	✓				No Pb or Cr
•	B-124-3"	0928	↓											
•	B-94-3"	0930	Comp66											
•	B-95-3"	0940	↓											
•	B-100-2'	1039	B-100-2'											
•	B-91-3"	0915	Comp65											
•	B-93-3"	0922	↓											
•	B-92-3"	0920	↓											
•	B-101-3"	1005	Comp69											
•	B-102-3"	1105	↓	↓		↓	↓	↓	↓	↓				

Relinquished: L Edlund
Date / Time: 1/29/04 1105
Received: Tom Vinsorhalen

Dispatched :
Date / Time: 1/29/04 5:37
Carrier: ASSOCIATED

I hereby authorize the performance of the above indicated tests.
L Edlund

Date / Time: 1/29/04
Received by lab: 1/30/04 9:20

TELCCR.DOC

Custody seal(s) in tact upon receipt by lab? YES NO NONE

CAL TECH Environmental Laboratories
6814 Rosecrans Avenue, Paramount, CA 90723-3146
Telephone: (562) 272-2700 Fax: (562) 272-2789

Lab Job No. 123707

Chain of Custody Record

Client: L Edlund / K Farrel
Contact: Merredith & Associates
Address: 9841 Airport Blvd Suite 1010
Los Angeles CA
Project: Dico Oil
Sampled By: Lynn Edlund
Name/Signature

Phone: 310-670-9221
Fax: 310-670-9512

Turn Around Time
Rush
Normal

Analyses Requested

No Pb & Cr per DR, she spoke to client 1-30-04 AV

Lab ID Number	Field ID	Date/Time Sampled	~~Bottle Type~~ Sample Name	No.	Preserv.	Matrix	PCBs	Pb	Cr	TPH oil gd	TPH gd				Comments
	B-103-3"	1/29/04 1205	Comp69				✓	✓	✓		✓				
	B-102-5'	1115	Comp71												
	B-103-5'	1215	↓												
	B-98-3"	835	Comp68												
	B-99-3"	0820	↓												
	B-100-3"	830	↓												
	B-102-15'	1135	Comp85							X					
	B-101-15'	1055	↓							X					
	B-104-5'														Hold
	B-104-10'														

Relinquished: Lynn Edlund
Date / Time: 1/29/04 1705
Received: Tom Vinson [illegible]

Dispatched :
Date / Time: 1/29/04 5:32
Carrier: ASSOCIATED

I hereby authorize the performance of the above indicated tests.
L Edlund
Date / Time: 1/30/04 9:36
Received by lab: [illegible]

CTELCCR.DOC

Custody seal(s) in tact upon receipt by lab? YES NO NONE

CAL TECH Environmental Laboratories
6814 Rosecrans Avenue, Paramount, CA 90723-3146
Telephone: (562) 272-2700 Fax: (562) 272-2789

Lab Job No. 123707

Chain of Custody Record

Client: M&A
Contact: L. Edlund / K. Farrel
Address: 9841 Airport Blvd Suite 1010
Los Angeles CA
Project: D-CO 001
Sampled By: Lynn Edlund
Name/Signature

Phone: 310-670-9221
Fax: 310-670-9512

Turn Around Time
Rush
Normal ✓

Analyses Requested: PCB, TPH-d

Lab ID Number	Field ID	Date/Time Sampled	Bottle Type	No.	Preserv.	Matrix	PCB	TPH-d							Comments
	B-105-15'	1/29/04 1320													Hold
"	B-101-10'	1035													
"	B-102-10'	1120													
"	B-103-10'	1230													
"	B-103-15'	1145													
"	B-101-5'	1015													
"	B-102-20'	1155													
"	B-102-2'	110	Comp70				✓	✓							
"	B-103-2'	1210					✓	✓							
"	B-104-2'	1300					✓	✓							

Relinquished: L. Edlund
Date / Time: 1/29/04 1705
Received: Tom Vinterholz

Dispatched :
Date / Time: 1/29/04 5:30
Carrier: ASSOCIATED

I hereby authorize the performance of the above indicated tests.
L. Edlund

Date / Time: 1/30/04 9:30
Received by lab: Ryan Lund

Custody seal(s) in tact upon receipt by lab? YES NO NONE

CTELCCR.DOC

CAL TECH Environmental Laboratories
6814 Rosecrans Avenue, Paramount, CA 90723-3146
Telephone: (562) 272-2700 Fax: (562) 272-2789

Lab Job No. 123707

Chain of Custody Record

Client: Merredith Associates
Contact: L. Galuma / K. Farrel
Address: 9841 Airport
Los Angeles
Project: DICO
Sampled By: Lynn Edlund
Name/Signature

Phone:
Fax:

Turn Around Time
Rush
Normal

Analyses Requested

Lab ID Number	Field ID	Date/Time Sampled	Bottle Type (Sample Number)	No.	Preserv.	Matrix	8260	8270	TPH g	Metals	Toxicity	PCB	TPH d		Comments
'	B-47 Bulk	1/29/04 1111		2		Soil	✓	✓	✓	✓	✓	✓			
'	B-87-3"	1533	Comp59	1								✓	✓		
'	B-86-3"	1306	↓												
'	B-86-2'	1405	comp60												
'	B-87-32'	1535	↓												
'	B-86-5"	1410	Comp61												
'	B-87-5'	1540	↓												
'	B86-10'	1415	comp86												Hold
'	B87-10'	1544	↓									↓	↓		↓
'	B86-15'	1425	Comp87	↓		↓						✓	✓		

Relinquished: Lynn Edlund
Date / Time: 1/29/04 1705
Received: Tom Vinsauhedor

Dispatched :
Date / Time: 1/29/04 5:35
Carrier: ASSOCIATED

I hereby authorize the performance of the above indicated tests.
Lynn Edlund

Date / Time:
Received by lab:

CTELCCR.DOC

Custody seal(s) in tact upon receipt by lab? YES NO NONE

CAL TECH Environmental Laboratories
6814 Rosecrans Avenue, Paramount, CA 90723-3146
Telephone: (562) 272-2700 Fax: (562) 272-2789

Lab Job No. 123707

Chain of Custody Record

Client: Meredith & Associates
Contact: L Edlund / K. Farrel
Address:

Phone:
Fax:

Turn Around Time
Rush
Normal

Project: Dico Oil
Sampled By: Lynn Edlund
Name/Signature

Analyses Requested

Lab ID Number	Field ID	Date/Time Sampled	Bottle Type	No.	Preserv.	Matrix	RCBS	TPHod						Comments
"	~~B8~~ B-~~Comp~~-87-15	1/29/04 1522	Comp 87				✓	✓						
"	B-88-15'	~~1432~~ 1626	↓				✓	✓						
"	B-87-20	1606												Hold
"	B86-25	1525												Hold
"	B88-20	1642												↓
"	B86-20	1445												↓
"	B88-10'	1675												↓
"	B101-2'	1010					✓	✓						
	~~B36~~													

Relinquished: Lynn Edlund
Date / Time: 1/29/04 1705
Received: Tom Vinson [illegible]

Dispatched :
Date / Time: 1/29/04 5:30
Carrier: ASSOCIATED

I hereby authorize the performance of the above indicated tests.
Lynn Edlund
Date / Time: 1/30/04
Received by lab: [illegible]

CTELCCR.DOC

Custody seal(s) in tact upon receipt by lab? YES NO NONE

CAL TECH Environmental Laboratories
6814 Rosecrans Avenue, Paramount, CA 90723-3146
Telephone: (562) 272-2700 Fax: (562) 272-2789

Lab Job No. 123707

Chain of Custody Record

Client: Meredith + A
Contact:
Address:

Project: Dico Oil
Sampled By: [signature]
Name/Signature

Phone:
Fax:

Turn Around Time
Rush
Normal X

Analyses Requested

Lab ID Number	Field ID	Date/Time Sampled	Bottle Type	No.	Preserv.	Matrix	PCB	PPH-od				8260, 8270	PCB, Sym, CAM	Gas, MD, Diesel per Lynn + DR 1-30-04 AV	Comments
	1/29/04	B105-3"	Comp72				✓	✓							
	1/29/04	B104-3"	↓				✓	✓							
	B-36-15		Comp78				✓	✓							
	B-26-15		↓				✓	✓							
	B-36-12.5	1212										X	X		Hold
	B-26-12.5	908										X	X		Hold

Relinquished: [signature] Date / Time: 1/29/04 Received: Tom Vinsorhabe

Dispatched : Date / Time: 1/29/04 5:40 Carrier: ASSOCIATED

I hereby authorize the performance of the above indicated tests.
[signature] Date / Time: 1/30/04 9:35 Received by lab: [signature]

CTELCCR.DOC

Custody seal(s) in tact upon receipt by lab? YES NO NONE

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Meredith & Associates, Inc (10577)
ATTN: Keith Farrell
9841 Airport Blvd.
Suite 1010
Los Angeles, CA 90045-5409

LAB REQUEST 122709
REPORTED 01/21/2004
RECEIVED 01/12/2004

PROJECT Dico Oil

SUBMITTER Client

COMMENTS Composite 58 was created out of orders 490227, 229, 233, 238 for PCB's EPA 8082 on 1-22-04.
Added STLC Lead to order #490242 on 1-22-04.

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.	Client Sample Identification
490218	Composite 8
490219	Composite 9
490220	Composite 11
490221	Composite 12
490222	Composite 20
490223	Composite 21
490224	Composite 56
490225	Composite 57
490226	Composite 57 DUP
490227	B-24-10'
490228	B-25-7.5'
490229	B-25-10'
490230	B-25-12.5'
490231	B-32-7.5'

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.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900 FAX 714/538-1209

CLIENT Meredith & Associates, Inc (10577)
ATTN: Keith Farrell
9841 Airport Blvd.
Suite 1010
Los Angeles, CA 90045-5409

LAB REQUEST 122709
REPORTED 01/21/2004
RECEIVED 01/12/2004

PROJECT Dico Oil

SUBMITTER Client

COMMENTS Composite 58 was created out of orders 490227, 229, 233, 238 for PCB's EPA 8082 on 1-22-04.
Added STLC Lead to order #490242 on 1-22-04.

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.	Client Sample Identification
490232	B-35-7.5'
490233	B-35-9.5'
490234	B-35-15'
490235	B-40-7.5'
490236	B-41-7.5'
490237	B-51-7.5'
490238	B-34-10'
490239	B-34-12.5'
490240	B-50-7.5'
490241	B-47-14'
490242	B-85-3"
490243	B-85-2'
490244	B-85-5'
490245	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.

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TESTING & CONSULTING
Chemical
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ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900 FAX 714/538-1209

CLIENT Meredith & Associates, Inc (10577)
ATTN: Keith Farrell
9841 Airport Blvd.
Suite 1010
Los Angeles, CA 90045-5409

LAB REQUEST 122709
REPORTED 01/21/2004
RECEIVED 01/12/2004

PROJECT Dico Oil

SUBMITTER Client

COMMENTS Composite 58 was created out of orders 490227, 229, 233, 238 for PCB's EPA 8082 on 1-22-04.
Added STLC Lead to order #490242 on 1-22-04.

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.	Client Sample Identification
492765	Composite 58

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.

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TESTING & CONSULTING
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Microbiological
Environmental

Order #: 490218 **Client Sample ID**: Composite 8

Matrix: SOLID **Sample Description:** B-22-2 / B-32-2 / B-23-2 / B-33-2

Date Sampled: 01/12/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	14.9	1	1.0	0.14	mg/Kg	01/15/04 KN
6010B	Lead	2.32	1	0.5	0.16	mg/Kg	01/15/04 KN
8082	PCB-1016	ND	5	0.15	0.003	mg/Kg	01/19/04 RB
8082	PCB-1221	ND	5	0.3	0.006	mg/Kg	01/19/04 RB
8082	PCB-1232	ND	5	0.25	0.004	mg/Kg	01/19/04 RB
8082	PCB-1242	0.15 J	5	0.25	0.002	mg/Kg	01/19/04 RB
8082	PCB-1248	ND	5	0.4	0.008	mg/Kg	01/19/04 RB
8082	PCB-1254	ND	5	0.15	0.001	mg/Kg	01/19/04 RB
8082	PCB-1260	2.8	5	0.15	0.002	mg/Kg	01/19/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	113				%	50 - 135
8015	Diesel	713	10	30.0	0.7	mg/Kg	01/19/04 AF
8015	Oil	240	10	50.0		mg/Kg	01/19/04 AF

E = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 490219 **Client Sample ID**: Composite 9

Matrix: SOLID **Sample Description:** B-22-5 / B-32-5 / B-23-5 / B-33-5

Date Sampled: 01/12/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	17.7	1	1.0	0.14	mg/Kg	01/15/04 KN
6010B	Lead	2.56	1	0.5	0.16	mg/Kg	01/15/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/17/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/17/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/17/04 RB
8082	PCB-1242	0.12	1	0.05	0.002	mg/Kg	01/17/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/17/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/17/04 RB
8082	PCB-1260	0.18	1	0.03	0.002	mg/Kg	01/17/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	108				%	50 - 135
8015	Diesel	1030	20	60.0	0.7	mg/Kg	01/19/04 AF
8015	Oil	80	20	100.0		mg/Kg	01/19/04 AF

E = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 490220 **Client Sample ID**: Composite 11

Matrix: SOLID **Sample Description:** B-24-2 / B-25-2 / B-34-2 / B-35-2

Date Sampled: 01/12/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	15.6	1	1.0	0.14	mg/Kg	01/15/04 KN
6010B	Lead	3.39	1	0.5	0.16	mg/Kg	01/15/04 KN
8082	PCB-1016	ND	100	3.0	0.003	mg/Kg	01/19/04 RB
8082	PCB-1221	ND	100	6.0	0.006	mg/Kg	01/19/04 RB
8082	PCB-1232	ND	100	5.0	0.004	mg/Kg	01/19/04 RB
8082	PCB-1242	ND	100	5.0	0.002	mg/Kg	01/19/04 RB
8082	PCB-1248	ND	100	8.0	0.008	mg/Kg	01/19/04 RB
8082	PCB-1254	ND	100	3.0	0.001	mg/Kg	01/19/04 RB
8082	PCB-1260	80	100	3.0	0.002	mg/Kg	01/19/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	115				%	50 - 135
8015	Diesel	3900	50	150.0	0.7	mg/Kg	01/19/04 AF
8015	Oil	420	50	250.0		mg/Kg	01/19/04 AF

E[illegible] = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 490221 **Client Sample ID**: Composite 12

Matrix: SOLID **Sample Description:** B-24-5 / B-25-5 / B-34-5 / B-35-5

Date Sampled: 01/12/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	17.8	1	1.0	0.14	mg/Kg	01/15/04 KN
6010B	Lead	2.48	1	0.5	0.16	mg/Kg	01/15/04 KN
8082	PCB-1016	ND	50	1.5	0.003	mg/Kg	01/19/04 RB
8082	PCB-1221	ND	50	3.0	0.006	mg/Kg	01/19/04 RB
8082	PCB-1232	ND	50	2.5	0.004	mg/Kg	01/19/04 RB
8082	PCB-1242	ND	50	2.5	0.002	mg/Kg	01/19/04 RB
8082	PCB-1248	ND	50	4.0	0.008	mg/Kg	01/19/04 RB
8082	PCB-1254	ND	50	1.5	0.001	mg/Kg	01/19/04 RB
8082	PCB-1260	11	50	1.5	0.002	mg/Kg	01/19/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	105				%	50 - 135
8015	Diesel	2200	10	30.0	0.7	mg/Kg	01/19/04 AF
8015	Oil	160	10	50.0		mg/Kg	01/19/04 AF

E = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 490222 **Client Sample ID:** Composite 20

Matrix: SOLID **Sample Description:** B-40-2 / B-41-2 / B-50-2 / B-51-2

Date Sampled: 01/12/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	14.5	1	1.0	0.14	mg/Kg	01/15/04 KN
6010B	Lead	1.69	1	0.5	0.16	mg/Kg	01/15/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/17/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/17/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/17/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/17/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/17/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/17/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/17/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	105				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	01/15/04 AF
8015	Oil	ND	1	5		mg/Kg	01/15/04 AF

E = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 490223 **Client Sample ID**: Composite 21

Matrix: SOLID **Sample Description:** B-40-5 / B-41-5 / B-50-5 / B-51-5

Date Sampled: 01/12/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	15.3	1	1.0	0.14	mg/Kg	01/15/04 KN
6010B	Lead	1.87	1	0.5	0.16	mg/Kg	01/15/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/17/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/17/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/17/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/17/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/17/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/17/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/17/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	111				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	01/16/04 AF
8015	Oil	ND	1	5		mg/Kg	01/16/04 AF

E = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 490224 **Client Sample ID**: Composite 56

Matrix: SOLID **Sample Description:** B-14-2 / B-15-2

Date Sampled: 01/12/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	13.2	1	1.0	0.14	mg/Kg	01/15/04 KN
6010B	Lead	1.37	1	0.5	0.16	mg/Kg	01/15/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/17/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/17/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/17/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/17/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/17/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/17/04 RB
8082	PCB-1260	0.042	1	0.03	0.002	mg/Kg	01/17/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	110				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	01/16/04 AF
8015	Oil	8.0	1	5		mg/Kg	01/16/04 AF

E[illegible] = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 490225 **Client Sample ID:** Composite 57

Matrix: SOLID **Sample Description:** B-14-5 / B-15-5

Date Sampled: 01/12/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	15.4	1	1.0	0.14	mg/Kg	01/15/04 KN
6010B	Lead	2.04	1	0.5	0.16	mg/Kg	01/15/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/17/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/17/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/17/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/17/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/17/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/17/04 RB
8082	PCB-1260	0.031	1	0.03	0.002	mg/Kg	01/17/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	125				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	01/16/04 AF
8015	Oil	ND	1	5		mg/Kg	01/16/04 AF

E = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 490226 **Client Sample ID:** Composite 57 DUP

Matrix: SOLID **Sample Description:** B-14-5 / B-15-5

Date Sampled: 01/12/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	16.3	1	1.00	0.14	mg/Kg	01/15/04 KN
6010B	Lead	2.65	1	0.50	0.16	mg/Kg	01/15/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/17/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/17/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/17/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/17/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/17/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/17/04 RB
8082	PCB-1260	0.037	1	0.03	0.002	mg/Kg	01/17/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	108				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	01/16/04 AF
8015	Oil	10	1	5		mg/Kg	01/16/04 AF

E = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 490241 **Client Sample ID**: B-47-14'

Matrix: SOLID

Date Sampled: 01/12/2004
Time Sampled: 13:05

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Antimony	ND	1	3.0	0.62	mg/Kg	01/16/04 KN
6010B	Arsenic	7.61	1	1.0	0.72	mg/Kg	01/16/04 KN
6010B	Barium	60.6	1	1.0	0.05	mg/Kg	01/16/04 KN
6010B	Beryllium	0.635	1	0.5	0.16	mg/Kg	01/16/04 KN
6010B	Cadmium	0.218 J	1	0.5	0.06	mg/Kg	01/16/04 KN
6010B	Chromium	16.3	1	1.0	0.14	mg/Kg	01/16/04 KN
6010B	Cobalt	6.23	1	0.5	0.06	mg/Kg	01/16/04 KN
6010B	Copper	6.79	1	1.0	0.10	mg/Kg	01/16/04 KN
6010B	Lead	2.11	1	0.5	0.16	mg/Kg	01/16/04 KN
6010B	Molybdenum	ND	1	1.0	0.38	mg/Kg	01/16/04 KN
6010B	Nickel	11.1	1	1.5	0.29	mg/Kg	01/16/04 KN
6010B	Selenium	ND	1	1.0	0.55	mg/Kg	01/16/04 KN
6010B	Silver	ND	1	0.5	0.12	mg/Kg	01/16/04 KN
6010B	Thallium	ND	1	1.0	0.33	mg/Kg	01/16/04 KN
6010B	Vanadium	34.8	1	0.5	0.17	mg/Kg	01/16/04 KN
6010B	Zinc	28.7	1	5.0	0.07	mg/Kg	01/16/04 KN
7471A	Mercury	0.021 J	1	0.14	0.02	mg/Kg	01/16/04 MDJ
8270C	1,2,4-Trichlorobenzene	ND	20	6660.0	32.1	ug/Kg	01/17/04 DP
8270C	1,2-Dichlorobenzene	ND	20	6660.0	69.1	ug/Kg	01/17/04 DP
8270C	1,3-Dichlorobenzene	ND	20	6660.0	133.5	ug/Kg	01/17/04 DP
8270C	1,4-Dichlorobenzene	ND	20	6660.0	58.0	ug/Kg	01/17/04 DP
8270C	2,4,5-Trichlorophenol	ND	20	33300.0	33.6	ug/Kg	01/17/04 DP
8270C	2,4,6-Trichlorophenol	ND	20	33300.0	31.9	ug/Kg	01/17/04 DP
8270C	2,4-Dichlorophenol	ND	20	6660.0	35.3	ug/Kg	01/17/04 DP
8270C	2,4-Dimethylphenol	ND	20	6660.0	37.1	ug/Kg	01/17/04 DP
8270C	2,4-Dinitrophenol	ND	20	33300.0	60.5	ug/Kg	01/17/04 DP
8270C	2,4-Dinitrotoluene	ND	20	6660.0	58.4	ug/Kg	01/17/04 DP
8270C	2,6-Dinitrotoluene	ND	20	6660.0	50.4	ug/Kg	01/17/04 DP
8270C	2-Chloronaphthalene	ND	20	6660.0	18.2	ug/Kg	01/17/04 DP
8270C	2-Chlorophenol	ND	20	6660.0	230.8	ug/Kg	01/17/04 DP
8270C	2-Methylnaphthalene	45000	20	6660.0	31.6	ug/Kg	01/17/04 DP
8270C	2-Methylphenol	ND	20	6660.0	194.3	ug/Kg	01/17/04 DP
8270C	2-Nitroaniline	ND	20	33300.0	30.8	ug/Kg	01/17/04 DP

E = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 490241 **Client Sample ID:** B-47-14'

Matrix: SOLID

Date Sampled: 01/12/2004
Time Sampled: 13:05

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	2-Nitrophenol	ND	20	6660.0	63.4	ug/Kg	01/17/04 DP
8270C	3,3-Dichlorobenzidine	ND	20	6660.0	52.3	ug/Kg	01/17/04 DP
8270C	3-Methylphenol	ND	20	6660.0	211.4	ug/Kg	01/17/04 DP
8270C	3-Nitroaniline	ND	20	33300.0	31.1	ug/Kg	01/17/04 DP
8270C	4,6-Dinitro-2-methylphenol	ND	20	33300.0	44.9	ug/Kg	01/17/04 DP
8270C	4-Bromophenyl-phenylether	ND	20	6660.0	29.6	ug/Kg	01/17/04 DP
8270C	4-Chloro-3-methylphenol	ND	20	6660.0	48.8	ug/Kg	01/17/04 DP
8270C	4-Chloroaniline	ND	20	6660.0	19.2	ug/Kg	01/17/04 DP
8270C	4-Chlorophenyl-phenylether	ND	20	6660.0	38.1	ug/Kg	01/17/04 DP
8270C	4-Methylphenol	ND	20	6660.0	211.4	ug/Kg	01/17/04 DP
8270C	4-Nitroaniline	ND	20	33300.0	134.9	ug/Kg	01/17/04 DP
8270C	4-Nitrophenol	ND	20	33300.0	84.8	ug/Kg	01/17/04 DP
8270C	Acenaphthene	ND	20	6660.0	17.4	ug/Kg	01/17/04 DP
8270C	Acenaphthylene	ND	20	6660.0	14.8	ug/Kg	01/17/04 DP
8270C	Anthracene	ND	20	6660.0	9.9	ug/Kg	01/17/04 DP
8270C	Benzidine	ND	20	6660.0	260	ug/Kg	01/17/04 DP
8270C	Benzo(a)anthracene	ND	20	6660.0	26.2	ug/Kg	01/17/04 DP
8270C	Benzo(a)pyrene	ND	20	6660.0	20.0	ug/Kg	01/17/04 DP
8270C	Benzo(b)fluoranthene	ND	20	6660.0	29.9	ug/Kg	01/17/04 DP
8270C	Benzo(g,h,i)perylene	ND	20	6660.0	13.9	ug/Kg	01/17/04 DP
8270C	Benzo(k)fluoranthene	ND	20	6660.0	23.7	ug/Kg	01/17/04 DP
8270C	Benzoic Acid	ND	20	6660.0	70.0	ug/Kg	01/17/04 DP
8270C	Benzyl alcohol	ND	20	6660.0	197.0	ug/Kg	01/17/04 DP
8270C	bis(2-Chloroethoxy)methane	ND	20	6660.0	22.6	ug/Kg	01/17/04 DP
8270C	bis(2-Chloroethyl)ether	ND	20	6660.0	291.5	ug/Kg	01/17/04 DP
8270C	bis(2-Chloroisopropyl) ether	ND	20	6660.0	275.3	ug/Kg	01/17/04 DP
8270C	bis(2-Ethylhexyl)phthalate	5620 J	20	6660.0	36.1	ug/Kg	01/17/04 DP
8270C	Butylbenzylphthalate	ND	20	6660.0	25.9	ug/Kg	01/17/04 DP
8270C	Chrysene	ND	20	6660.0	38.0	ug/Kg	01/17/04 DP
8270C	Di-n-butylphthalate	ND	20	6660.0	30.7	ug/Kg	01/17/04 DP
8270C	Di-n-octylphthalate	ND	20	6660.0	66.3	ug/Kg	01/17/04 DP
8270C	Dibenz(a,h)anthracene	ND	20	6660.0	32.3	ug/Kg	01/17/04 DP
8270C	Dibenzofuran	ND	20	6660.0	16.4	ug/Kg	01/17/04 DP
8270C	Diethylphthalate	ND	20	6660.0	43.8	ug/Kg	01/17/04 DP
8270C	Dimethylphthalate	ND	20	6660.0	28.6	ug/Kg	01/17/04 DP
8270C	Fluoranthene	ND	20	6660.0	28.2	ug/Kg	01/17/04 DP
8270C	Fluorene	ND	20	6660.0	19.3	ug/Kg	01/17/04 DP
8270C	Hexachlorobenzene	ND	20	6660.0	49.4	ug/Kg	01/17/04 DP
8270C	Hexachlorobutadiene	ND	20	6660.0	40.1	ug/Kg	01/17/04 DP

L = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 490241 **Client Sample ID**: B-47-14'

Matrix: SOLID

Date Sampled: 01/12/2004
Time Sampled: 13:05

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	Hexachlorocyclopentadiene	ND	20	6660.0	48.3	ug/Kg	01/17/04 DP
8270C	Hexachloroethane	ND	20	6660.0	180.8	ug/Kg	01/17/04 DP
8270C	Indeno(1,2,3-c,d)pyrene	ND	20	6660.0	36.1	ug/Kg	01/17/04 DP
8270C	Isophorone	ND	20	6660.0	30.4	ug/Kg	01/17/04 DP
8270C	N-Nitroso-di-n-propylamine	ND	20	6660.0	221.8	ug/Kg	01/17/04 DP
8270C	N-Nitrosodiphenylamine	ND	20	6660.0	29.1	ug/Kg	01/17/04 DP
8270C	Naphthalene	13900	20	6660.0	15.6	ug/Kg	01/17/04 DP
8270C	Nitrobenzene	ND	20	6660.0	60.6	ug/Kg	01/17/04 DP
8270C	Pentachlorophenol	ND	20	33300.0	38.0	ug/Kg	01/17/04 DP
8270C	Phenanthrene	11300	20	6660.0	19.4	ug/Kg	01/17/04 DP
8270C	Phenol	ND	20	6660.0	229.8	ug/Kg	01/17/04 DP
8270C	Pyrene	ND	20	6660.0	28.2	ug/Kg	01/17/04 DP

Surrogates			Units	Control Limits
8270C	2,4,6-Tribromophenol (sur)	102	%	17 - 122
8270C	2-Fluorobiphenyl (sur)	106	%	30 - 115
8270C	2-Fluorophenol (sur)	91	%	25 - 121
8270C	Nitrobenzene-d5 (sur)	91	%	23 - 120
8270C	Phenol-d5 (sur)	115 S	%	24 - 113
8270C	Terphenyl-d14 (sur)	115	%	18 - 137

8260B	1,1,1,2-Tetrachloroethane	ND	470	2350.0	2.19	ug/Kg	01/17/04 AM
8260B	1,1,1-Trichloroethane	ND	470	2350.0	0.47	ug/Kg	01/17/04 AM
8260B	1,1,2,2-Tetrachloroethane	ND	470	2350.0	0.50	ug/Kg	01/17/04 AM
8260B	1,1,2-Trichloroethane	ND	470	2350.0	0.57	ug/Kg	01/17/04 AM
8260B	1,1,2-Trichlorotrifluoroethane	ND	470	2350.0	0.10	ug/Kg	01/17/04 AM
8260B	1,1-Dichloroethane	ND	470	2350.0	0.74	ug/Kg	01/17/04 AM
8260B	1,1-Dichloroethene	ND	470	2350.0	0.43	ug/Kg	01/17/04 AM
8260B	1,1-Dichloropropene	ND	470	2350.0	1.30	ug/Kg	01/17/04 AM
8260B	1,2,3-Trichlorobenzene	ND	470	2350.0	0.54	ug/Kg	01/17/04 AM
8260B	1,2,3-Trichloropropane	ND	470	2350.0	0.65	ug/Kg	01/17/04 AM
8260B	1,2,4-Trichlorobenzene	ND	470	2350.0	0.54	ug/Kg	01/17/04 AM
8260B	1,2,4-Trimethylbenzene	1140 J	470	2350.0	0.60	ug/Kg	01/17/04 AM
8260B	1,2-Dibromo-3-chloropropane	ND	470	2350.0	1.92	ug/Kg	01/17/04 AM
8260B	1,2-Dibromoethane	ND	470	2350.0	0.43	ug/Kg	01/17/04 AM
8260B	1,2-Dichlorobenzene	ND	470	2350.0	0.45	ug/Kg	01/17/04 AM
8260B	1,2-Dichloroethane	ND	470	2350.0	0.59	ug/Kg	01/17/04 AM
8260B	1,2-Dichloropropane	ND	470	2350.0	0.58	ug/Kg	01/17/04 AM

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 490241 **Client Sample ID:** B-47-14'

Matrix: SOLID

Date Sampled: 01/12/2004
Time Sampled: 13:05

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	1,3,5-Trimethylbenzene	ND	470	2350.0	0.55	ug/Kg	01/17/04 AM
8260B	1,3-Dichlorobenzene	ND	470	2350.0	0.44	ug/Kg	01/17/04 AM
8260B	1,3-Dichloropropane	ND	470	2350.0	0.51	ug/Kg	01/17/04 AM
8260B	1,4-Dichlorobenzene	ND	470	2350.0	0.46	ug/Kg	01/17/04 AM
8260B	1,4-Dioxane	ND	470	94000.0	200	ug/Kg	01/17/04 AM
8260B	1-Chlorohexane	ND	470	2350.0	0.38	ug/Kg	01/17/04 AM
8260B	2,2-Dichloropropane	ND	470	2350.0	0.47	ug/Kg	01/17/04 AM
8260B	2-Butanone (MEK)	ND	470	47000.0	0.98	ug/Kg	01/17/04 AM
8260B	2-Chloroethyl vinyl ether	ND	470	2350.0	0.46	ug/Kg	01/17/04 AM
8260B	2-Chlorotoluene	ND	470	2350.0	0.92	ug/Kg	01/17/04 AM
8260B	2-Hexanone	ND	470	2350.0	4.7	ug/Kg	01/17/04 AM
8260B	4-Chlorotoluene	ND	470	2350.0	0.52	ug/Kg	01/17/04 AM
8260B	4-Methyl -2- Pentanone	ND	470	2350.0	0.49	ug/Kg	01/17/04 AM
8260B	Acetone	ND	470	23500.0	3.81	ug/Kg	01/17/04 AM
8260B	Acetonitrile	ND	470	2350.0	0.7	ug/Kg	01/17/04 AM
8260B	Acrolein	ND	470	94000.0	172	ug/Kg	01/17/04 AM
8260B	Acrylonitrile	ND	470	2350.0	1.3	ug/Kg	01/17/04 AM
8260B	Allyl chloride	ND	470	2350.0	0.4	ug/Kg	01/17/04 AM
8260B	Benzene	ND	470	2350.0	0.39	ug/Kg	01/17/04 AM
8260B	Benzyl chloride	ND	470	2350.0	0.38	ug/Kg	01/17/04 AM
8260B	Bromobenzene	ND	470	2350.0	0.65	ug/Kg	01/17/04 AM
8260B	Bromochloromethane	ND	470	2350.0	0.36	ug/Kg	01/17/04 AM
8260B	Bromodichloromethane	ND	470	2350.0	0.48	ug/Kg	01/17/04 AM
8260B	Bromoform	ND	470	2350.0	0.53	ug/Kg	01/17/04 AM
8260B	Bromomethane	ND	470	2350.0	2.07	ug/Kg	01/17/04 AM
8260B	Carbon Disulfide	ND	470	2350.0	0.8	ug/Kg	01/17/04 AM
8260B	Carbon tetrachloride	ND	470	2350.0	0.40	ug/Kg	01/17/04 AM
8260B	Chlorobenzene	ND	470	2350.0	0.42	ug/Kg	01/17/04 AM
8260B	Chloroethane	ND	470	2350.0	1.1	ug/Kg	01/17/04 AM
8260B	Chloroform	ND	470	2350.0	0.46	ug/Kg	01/17/04 AM
8260B	Chloromethane	ND	470	2350.0	0.25	ug/Kg	01/17/04 AM
8260B	cis-1,2-Dichloroethene	ND	470	2350.0	0.79	ug/Kg	01/17/04 AM
8260B	cis-1,3-Dichloropropene	ND	470	2350.0	0.38	ug/Kg	01/17/04 AM
8260B	cis-1,4-Dichloro-2-butene	ND	470	2350.0	0.59	ug/Kg	01/17/04 AM
8260B	Dibromochloromethane	ND	470	2350.0	0.44	ug/Kg	01/17/04 AM
8260B	Dibromomethane	ND	470	2350.0	0.46	ug/Kg	01/17/04 AM
8260B	Dichlorodifluoromethane	ND	470	2350.0	0.16	ug/Kg	01/17/04 AM
8260B	Ethyl benzene	2770	470	2350.0	0.41	ug/Kg	01/17/04 AM
8260B	Ethyl methacrylate	ND	470	2350.0	1.8	ug/Kg	01/17/04 AM

E = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 490241 **Client Sample ID:** B-47-14'

Matrix: SOLID

Date Sampled: 01/12/2004
Time Sampled: 13:05

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Hexachlorobutadiene	ND	470	2350.0	0.29	ug/Kg	01/17/04 AM
8260B	Iodomethane	ND	470	2350.0	0.6	ug/Kg	01/17/04 AM
8260B	Isopropylbenzene (Cumene)	788 J	470	2350.0	0.38	ug/Kg	01/17/04 AM
8260B	Methacrylonitrile	ND	470	2350.0	2.70	ug/Kg	01/17/04 AM
8260B	Methyl methacrylate	ND	470	2350.0	0.21	ug/Kg	01/17/04 AM
8260B	Methyl-tert-butylether (MTBE)	ND	470	2350.0	0.51	ug/Kg	01/17/04 AM
8260B	Methylene chloride	ND	470	2350.0	0.91	ug/Kg	01/17/04 AM
8260B	n-Butylbenzene	ND	470	2350.0	0.38	ug/Kg	01/17/04 AM
8260B	n-Propylbenzene	1460 J	470	2350.0	0.32	ug/Kg	01/17/04 AM
8260B	Naphthalene	4420	470	2350.0	0.60	ug/Kg	01/17/04 AM
8260B	p-Isopropyltoluene	578 J	470	2350.0	0.32	ug/Kg	01/17/04 AM
8260B	Pentachloroethane	ND	470	2350.0	0.6	ug/Kg	01/17/04 AM
8260B	Propionitrile	ND	470	2350.0	5	ug/Kg	01/17/04 AM
8260B	sec-Butylbenzene	ND	470	2350.0	0.31	ug/Kg	01/17/04 AM
8260B	Styrene	ND	470	2350.0	0.37	ug/Kg	01/17/04 AM
8260B	tert-Butylbenzene	ND	470	2350.0	0.41	ug/Kg	01/17/04 AM
8260B	Tetrachloroethene	ND	470	2350.0	0.49	ug/Kg	01/17/04 AM
8260B	Toluene	ND	470	2350.0	0.42	ug/Kg	01/17/04 AM
8260B	trans-1,2-Dichloroethene	ND	470	2350.0	0.48	ug/Kg	01/17/04 AM
8260B	trans-1,3-Dichloropropene	ND	470	2350.0	0.44	ug/Kg	01/17/04 AM
8260B	trans-1,4-Dichloro-2-butene	ND	470	2350.0	2.35	ug/Kg	01/17/04 AM
8260B	Trichloroethene	ND	470	2350.0	0.43	ug/Kg	01/17/04 AM
8260B	Trichlorofluoromethane	ND	470	2350.0	0.40	ug/Kg	01/17/04 AM
8260B	Vinyl acetate	ND	470	23500.0	10.2	ug/Kg	01/17/04 AM
8260B	Vinyl chloride	ND	470	2350.0	0.47	ug/Kg	01/17/04 AM
8260B	Xylenes, total	638 J	470	2350.0	0.8	ug/Kg	01/17/04 AM

Surrogates			Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	95	%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	98	%	70 - 135
8260B	Surr3 - Toluene-d8	100	%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	107	%	70 - 135

8082	PCB-1016	ND	2	0.06	0.003	mg/Kg	01/19/04 RB
8082	PCB-1221	ND	2	0.12	0.006	mg/Kg	01/19/04 RB
8082	PCB-1232	ND	2	0.1	0.004	mg/Kg	01/19/04 RB
8082	PCB-1242	3.3	2	0.1	0.002	mg/Kg	01/19/04 RB
8082	PCB-1248	ND	2	0.16	0.008	mg/Kg	01/19/04 RB

E = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 490241 **Client Sample ID**: B-47-14'

Matrix: SOLID

Date Sampled: 01/12/2004
Time Sampled: 13:05

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1254	ND	2	0.06	0.001	mg/Kg	01/19/04 RB
8082	PCB-1260	0.49	2	0.06	0.002	mg/Kg	01/19/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	117	%	50 - 135

8015	Diesel	8100	50	150.0	0.7	mg/Kg	01/16/04 AF
8015	Oil	3300	50	250.0		mg/Kg	01/16/04 AF

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 490242 **Client Sample ID**: B-85-3"

Matrix: SOLID

Date Sampled: 01/12/2004
T Sampled: 13:28

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	17.5	1	1.0	0.14	mg/Kg	01/15/04 KN
6010B	Lead	74.2	1	0.5	0.16	mg/Kg	01/15/04 KN
6010/STLC	Lead, STLC	2.37	10	0.05	0.002	mg/L	01/26/04 KN
8082	PCB-1016	ND	5	0.15	0.003	mg/Kg	01/19/04 RB
8082	PCB-1221	ND	5	0.3	0.006	mg/Kg	01/19/04 RB
8082	PCB-1232	ND	5	0.25	0.004	mg/Kg	01/19/04 RB
8082	PCB-1242	ND	5	0.25	0.002	mg/Kg	01/19/04 RB
8082	PCB-1248	ND	5	0.4	0.008	mg/Kg	01/19/04 RB
8082	PCB-1254	ND	5	0.15	0.001	mg/Kg	01/19/04 RB
8082	PCB-1260	0.49	5	0.15	0.002	mg/Kg	01/19/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	112				%	50 - 135
8015	Diesel	ND	50	150.0	0.7	mg/Kg	01/16/04 AF
8015	Oil	720	50	250.0		mg/Kg	01/16/04 AF

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 490243 **Client Sample ID:** B-85-2'

Matrix: SOLID

Date Sampled: 01/12/2004
T Sampled: 13:29

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	13.7	1	1.0	0.14	mg/Kg	01/15/04 KN
6010B	Lead	3.26	1	0.5	0.16	mg/Kg	01/15/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/17/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/17/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/17/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/17/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/17/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/17/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/17/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	115				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	01/16/04 AF
8015	Oil	ND	1	5		mg/Kg	01/16/04 AF

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 490244 **Client Sample ID:** B-85-5'

Matrix: SOLID

Date Sampled: 01/12/2004
T' Sampled: 13:33

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	15.0	1	1.0	0.14	mg/Kg	01/15/04 KN
6010B	Lead	1.98	1	0.5	0.16	mg/Kg	01/15/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/17/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/17/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/17/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/17/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/17/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/17/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/17/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	114				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	01/16/04 AF
8015	Oil	ND	1	5		mg/Kg	01/16/04 AF

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 490245 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Antimony	ND	1	3.00	0.62	mg/Kg	01/16/04 KN
6010B	Arsenic	ND	1	1.00	0.72	mg/Kg	01/16/04 KN
6010B	Barium	ND	1	1.00	0.05	mg/Kg	01/16/04 KN
6010B	Beryllium	ND	1	0.50	0.16	mg/Kg	01/16/04 KN
6010B	Cadmium	ND	1	0.50	0.06	mg/Kg	01/16/04 KN
6010B	Chromium	ND	1	1.00	0.14	mg/Kg	01/16/04 KN
6010B	Cobalt	ND	1	0.50	0.06	mg/Kg	01/16/04 KN
6010B	Copper	ND	1	1.00	0.10	mg/Kg	01/16/04 KN
6010B	Lead	ND	1	0.50	0.16	mg/Kg	01/16/04 KN
6010B	Molybdenum	ND	1	1.00	0.38	mg/Kg	01/16/04 KN
6010B	Nickel	ND	1	1.50	0.29	mg/Kg	01/16/04 KN
6010B	Selenium	ND	1	1.00	0.55	mg/Kg	01/16/04 KN
6010B	Silver	ND	1	0.50	0.12	mg/Kg	01/16/04 KN
6010B	Thallium	ND	1	1.00	0.33	mg/Kg	01/16/04 KN
6010B	Vanadium	ND	1	0.50	0.17	mg/Kg	01/16/04 KN
6010B	Zinc	ND	1	5.00	0.07	mg/Kg	01/16/04 KN
7471A	Mercury	ND	1	0.14	0.02	mg/Kg	01/16/04 MDJ
8270C	1,2,4-Trichlorobenzene	ND	1	333	32.1	ug/Kg	01/16/04 DP
8270C	1,2-Dichlorobenzene	ND	1	333	69.1	ug/Kg	01/16/04 DP
8270C	1,3-Dichlorobenzene	ND	1	333	133.5	ug/Kg	01/16/04 DP
8270C	1,4-Dichlorobenzene	ND	1	333	58.0	ug/Kg	01/16/04 DP
8270C	2,4,5-Trichlorophenol	ND	1	1665	33.6	ug/Kg	01/16/04 DP
8270C	2,4,6-Trichlorophenol	ND	1	1665	31.9	ug/Kg	01/16/04 DP
8270C	2,4-Dichlorophenol	ND	1	333	35.3	ug/Kg	01/16/04 DP
8270C	2,4-Dimethylphenol	ND	1	333	37.1	ug/Kg	01/16/04 DP
8270C	2,4-Dinitrophenol	ND	1	1665	60.5	ug/Kg	01/16/04 DP
8270C	2,4-Dinitrotoluene	ND	1	333	58.4	ug/Kg	01/16/04 DP
8270C	2,6-Dinitrotoluene	ND	1	333	50.4	ug/Kg	01/16/04 DP
8270C	2-Chloronaphthalene	ND	1	333	18.2	ug/Kg	01/16/04 DP
8270C	2-Chlorophenol	ND	1	333	230.8	ug/Kg	01/16/04 DP
8270C	2-Methylnaphthalene	ND	1	333	31.6	ug/Kg	01/16/04 DP
8270C	2-Methylphenol	ND	1	333	194.3	ug/Kg	01/16/04 DP
8270C	2-Nitroaniline	ND	1	1665	30.8	ug/Kg	01/16/04 DP

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 490245 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	2-Nitrophenol	ND	1	333	63.4	ug/Kg	01/16/04 DP
8270C	3,3-Dichlorobenzidine	ND	1	333	52.3	ug/Kg	01/16/04 DP
8270C	3-Methylphenol	ND	1	333	211.4	ug/Kg	01/16/04 DP
8270C	3-Nitroaniline	ND	1	1665	31.1	ug/Kg	01/16/04 DP
8270C	4,6-Dinitro-2-methylphenol	ND	1	1665	44.9	ug/Kg	01/16/04 DP
8270C	4-Bromophenyl-phenylether	ND	1	333	29.6	ug/Kg	01/16/04 DP
8270C	4-Chloro-3-methylphenol	ND	1	333	48.8	ug/Kg	01/16/04 DP
8270C	4-Chloroaniline	ND	1	333	19.2	ug/Kg	01/16/04 DP
8270C	4-Chlorophenyl-phenylether	ND	1	333	38.1	ug/Kg	01/16/04 DP
8270C	4-Methylphenol	ND	1	333	211.4	ug/Kg	01/16/04 DP
8270C	4-Nitroaniline	ND	1	1665	134.9	ug/Kg	01/16/04 DP
8270C	4-Nitrophenol	ND	1	1665	84.8	ug/Kg	01/16/04 DP
8270C	Acenaphthene	ND	1	333	17.4	ug/Kg	01/16/04 DP
8270C	Acenaphthylene	ND	1	333	14.8	ug/Kg	01/16/04 DP
8270C	Anthracene	ND	1	333	9.9	ug/Kg	01/16/04 DP
8270C	Benzidine	ND	1	333	260	ug/Kg	01/16/04 DP
8270C	Benzo(a)anthracene	ND	1	333	26.2	ug/Kg	01/16/04 DP
8270C	Benzo(a)pyrene	ND	1	333	20.0	ug/Kg	01/16/04 DP
8270C	Benzo(b)fluoranthene	ND	1	333	29.9	ug/Kg	01/16/04 DP
8270C	Benzo(g,h,i)perylene	ND	1	333	13.9	ug/Kg	01/16/04 DP
8270C	Benzo(k)fluoranthene	ND	1	333	23.7	ug/Kg	01/16/04 DP
8270C	Benzoic Acid	ND	1	333	70.0	ug/Kg	01/16/04 DP
8270C	Benzyl alcohol	ND	1	333	197.0	ug/Kg	01/16/04 DP
8270C	bis(2-Chloroethoxy)methane	ND	1	333	22.6	ug/Kg	01/16/04 DP
8270C	bis(2-Chloroethyl)ether	ND	1	333	291.5	ug/Kg	01/16/04 DP
8270C	bis(2-Chloroisopropyl) ether	ND	1	333	275.3	ug/Kg	01/16/04 DP
8270C	bis(2-Ethylhexyl)phthalate	ND	1	333	36.1	ug/Kg	01/16/04 DP
8270C	Butylbenzylphthalate	ND	1	333	25.9	ug/Kg	01/16/04 DP
8270C	Chrysene	ND	1	333	38.0	ug/Kg	01/16/04 DP
8270C	Di-n-butylphthalate	ND	1	333	30.7	ug/Kg	01/16/04 DP
8270C	Di-n-octylphthalate	ND	1	333	66.3	ug/Kg	01/16/04 DP
8270C	Dibenz(a,h)anthracene	ND	1	333	32.3	ug/Kg	01/16/04 DP
8270C	Dibenzofuran	ND	1	333	16.4	ug/Kg	01/16/04 DP
8270C	Diethylphthalate	ND	1	333	43.8	ug/Kg	01/16/04 DP
8270C	Dimethylphthalate	ND	1	333	28.6	ug/Kg	01/16/04 DP
8270C	Fluoranthene	ND	1	333	28.2	ug/Kg	01/16/04 DP
8270C	Fluorene	ND	1	333	19.3	ug/Kg	01/16/04 DP
8270C	Hexachlorobenzene	ND	1	333	49.4	ug/Kg	01/16/04 DP
8270C	Hexachlorobutadiene	ND	1	333	40.1	ug/Kg	01/16/04 DP

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 490245 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	Hexachlorocyclopentadiene	ND	1	333	48.3	ug/Kg	01/16/04 DP
8270C	Hexachloroethane	ND	1	333	180.8	ug/Kg	01/16/04 DP
8270C	Indeno(1,2,3-c,d)pyrene	ND	1	333	36.1	ug/Kg	01/16/04 DP
8270C	Isophorone	ND	1	333	30.4	ug/Kg	01/16/04 DP
8270C	N-Nitroso-di-n-propylamine	ND	1	333	221.8	ug/Kg	01/16/04 DP
8270C	N-Nitrosodiphenylamine	ND	1	333	29.1	ug/Kg	01/16/04 DP
8270C	Naphthalene	ND	1	333	15.6	ug/Kg	01/16/04 DP
8270C	Nitrobenzene	ND	1	333	60.6	ug/Kg	01/16/04 DP
8270C	Pentachlorophenol	ND	1	1665	38.0	ug/Kg	01/16/04 DP
8270C	Phenanthrene	ND	1	333	19.4	ug/Kg	01/16/04 DP
8270C	Phenol	ND	1	333	229.8	ug/Kg	01/16/04 DP
8270C	Pyrene	ND	1	333	28.2	ug/Kg	01/16/04 DP

Surrogates			Units	Control Limits
8270C	2,4,6-Tribromophenol (sur)	37	%	17 - 122
8270C	2-Fluorobiphenyl (sur)	51	%	30 - 115
8270C	2-Fluorophenol (sur)	46	%	25 - 121
8270C	Nitrobenzene-d5 (sur)	48	%	23 - 120
8270C	Phenol-d5 (sur)	65	%	24 - 113
8270C	Terphenyl-d14 (sur)	86	%	18 - 137

8260B	1,1,1,2-Tetrachloroethane	ND	1	5	2.19	ug/Kg	01/17/04 AM
8260B	1,1,1-Trichloroethane	ND	1	5	0.47	ug/Kg	01/17/04 AM
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.50	ug/Kg	01/17/04 AM
8260B	1,1,2-Trichloroethane	ND	1	5	0.57	ug/Kg	01/17/04 AM
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	0.10	ug/Kg	01/17/04 AM
8260B	1,1-Dichloroethane	ND	1	5	0.74	ug/Kg	01/17/04 AM
8260B	1,1-Dichloroethene	ND	1	5	0.43	ug/Kg	01/17/04 AM
8260B	1,1-Dichloropropene	ND	1	5	1.30	ug/Kg	01/17/04 AM
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.54	ug/Kg	01/17/04 AM
8260B	1,2,3-Trichloropropane	ND	1	5	0.65	ug/Kg	01/17/04 AM
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/Kg	01/17/04 AM
8260B	1,2,4-Trimethylbenzene	ND	1	5	0.60	ug/Kg	01/17/04 AM
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	1.92	ug/Kg	01/17/04 AM
8260B	1,2-Dibromoethane	ND	1	5	0.43	ug/Kg	01/17/04 AM
8260B	1,2-Dichlorobenzene	ND	1	5	0.45	ug/Kg	01/17/04 AM
8260B	1,2-Dichloroethane	ND	1	5	0.59	ug/Kg	01/17/04 AM
8260B	1,2-Dichloropropane	ND	1	5	0.58	ug/Kg	01/17/04 AM

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 490245 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	1,3,5-Trimethylbenzene	ND	1	5	0.55	ug/Kg	01/17/04 AM
8260B	1,3-Dichlorobenzene	ND	1	5	0.44	ug/Kg	01/17/04 AM
8260B	1,3-Dichloropropane	ND	1	5	0.51	ug/Kg	01/17/04 AM
8260B	1,4-Dichlorobenzene	ND	1	5	0.46	ug/Kg	01/17/04 AM
8260B	1,4-Dioxane	ND	1	200	200	ug/Kg	01/17/04 AM
8260B	1-Chlorohexane	ND	1	5	0.38	ug/Kg	01/17/04 AM
8260B	2,2-Dichloropropane	ND	1	5	0.47	ug/Kg	01/17/04 AM
8260B	2-Butanone (MEK)	ND	1	100	0.98	ug/Kg	01/17/04 AM
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.46	ug/Kg	01/17/04 AM
8260B	2-Chlorotoluene	ND	1	5	0.92	ug/Kg	01/17/04 AM
8260B	2-Hexanone	ND	1	5	4.7	ug/Kg	01/17/04 AM
8260B	4-Chlorotoluene	ND	1	5	0.52	ug/Kg	01/17/04 AM
8260B	4-Methyl -2- Pentanone	ND	1	5	0.49	ug/Kg	01/17/04 AM
8260B	Acetone	ND	1	50	3.81	ug/Kg	01/17/04 AM
8260B	Acetonitrile	ND	1	5	0.7	ug/Kg	01/17/04 AM
8260B	Acrolein	ND	1	200	172	ug/Kg	01/17/04 AM
8260B	Acrylonitrile	ND	1	5	1.3	ug/Kg	01/17/04 AM
8260B	Allyl chloride	ND	1	5	0.4	ug/Kg	01/17/04 AM
8260B	Benzene	ND	1	5	0.39	ug/Kg	01/17/04 AM
8260B	Benzyl chloride	ND	1	5	0.38	ug/Kg	01/17/04 AM
8260B	Bromobenzene	ND	1	5	0.65	ug/Kg	01/17/04 AM
8260B	Bromochloromethane	ND	1	5	0.36	ug/Kg	01/17/04 AM
8260B	Bromodichloromethane	ND	1	5	0.48	ug/Kg	01/17/04 AM
8260B	Bromoform	ND	1	5	0.53	ug/Kg	01/17/04 AM
8260B	Bromomethane	ND	1	5	2.07	ug/Kg	01/17/04 AM
8260B	Carbon Disulfide	ND	1	5	0.8	ug/Kg	01/17/04 AM
8260B	Carbon tetrachloride	ND	1	5	0.40	ug/Kg	01/17/04 AM
8260B	Chlorobenzene	ND	1	5	0.42	ug/Kg	01/17/04 AM
8260B	Chloroethane	ND	1	5	1.1	ug/Kg	01/17/04 AM
8260B	Chloroform	ND	1	5	0.46	ug/Kg	01/17/04 AM
8260B	Chloromethane	ND	1	5	0.25	ug/Kg	01/17/04 AM
8260B	cis-1,2-Dichloroethene	ND	1	5	0.79	ug/Kg	01/17/04 AM
8260B	cis-1,3-Dichloropropene	ND	1	5	0.38	ug/Kg	01/17/04 AM
8260B	cis-1,4-Dichloro-2-butene	ND	1	5	0.59	ug/Kg	01/17/04 AM
8260B	Dibromochloromethane	ND	1	5	0.44	ug/Kg	01/17/04 AM
8260B	Dibromomethane	ND	1	5	0.46	ug/Kg	01/17/04 AM
8260B	Dichlorodifluoromethane	ND	1	5	0.16	ug/Kg	01/17/04 AM
8260B	Ethyl benzene	ND	1	5	0.41	ug/Kg	01/17/04 AM
8260B	Ethyl methacrylate	ND	1	5	1.8	ug/Kg	01/17/04 AM

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 490245 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Hexachlorobutadiene	ND	1	5	0.29	ug/Kg	01/17/04 AM
8260B	Iodomethane	ND	1	5	0.6	ug/Kg	01/17/04 AM
8260B	Isopropylbenzene (Cumene)	ND	1	5	0.38	ug/Kg	01/17/04 AM
8260B	Methacrylonitrile	ND	1	5	2.70	ug/Kg	01/17/04 AM
8260B	Methyl methacrylate	ND	1	5	0.21	ug/Kg	01/17/04 AM
8260B	Methyl-tert-butylether (MTBE)	ND	1	5	0.51	ug/Kg	01/17/04 AM
8260B	Methylene chloride	ND	1	5	0.91	ug/Kg	01/17/04 AM
8260B	n-Butylbenzene	ND	1	5	0.38	ug/Kg	01/17/04 AM
8260B	n-Propylbenzene	ND	1	5	0.32	ug/Kg	01/17/04 AM
8260B	Naphthalene	ND	1	5	0.60	ug/Kg	01/17/04 AM
8260B	p-Isopropyltoluene	ND	1	5	0.32	ug/Kg	01/17/04 AM
8260B	Pentachloroethane	ND	1	5	0.6	ug/Kg	01/17/04 AM
8260B	Propionitrile	ND	1	5	5	ug/Kg	01/17/04 AM
8260B	sec-Butylbenzene	ND	1	5	0.31	ug/Kg	01/17/04 AM
8260B	Styrene	ND	1	5	0.37	ug/Kg	01/17/04 AM
8260B	tert-Butylbenzene	ND	1	5	0.41	ug/Kg	01/17/04 AM
8260B	Tetrachloroethene	ND	1	5	0.49	ug/Kg	01/17/04 AM
8260B	Toluene	ND	1	5	0.42	ug/Kg	01/17/04 AM
8260B	trans-1,2-Dichloroethene	ND	1	5	0.48	ug/Kg	01/17/04 AM
8260B	trans-1,3-Dichloropropene	ND	1	5	0.44	ug/Kg	01/17/04 AM
8260B	trans-1,4-Dichloro-2-butene	ND	1	5	2.35	ug/Kg	01/17/04 AM
8260B	Trichloroethene	ND	1	5	0.43	ug/Kg	01/17/04 AM
8260B	Trichlorofluoromethane	ND	1	5	0.40	ug/Kg	01/17/04 AM
8260B	Vinyl acetate	ND	1	50	10.2	ug/Kg	01/17/04 AM
8260B	Vinyl chloride	ND	1	5	0.47	ug/Kg	01/17/04 AM
8260B	Xylenes, total	ND	1	5	0.8	ug/Kg	01/17/04 AM

Surrogates			Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	93	%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	100	%	70 - 135
8260B	Surr3 - Toluene-d8	109	%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	102	%	70 - 135

8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/17/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/17/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/17/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/17/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/17/04 RB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 490245 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/17/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/17/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	116	%	50 - 135

8015	Diesel	ND	1	3	0.7	mg/Kg	01/15/04 AF
8015	Oil	ND	1	5		mg/Kg	01/15/04 AF

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 492765 **Client Sample ID**: Composite 58

Matrix: SOLID **Sample Description:** B-24-10 / B-25-10 / B-35-9.5 / B-34-10

Date Sampled: 01/12/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1016	ND	10	0.3	0.003	mg/Kg	01/29/04 RB
8082	PCB-1221	ND	10	0.6	0.006	mg/Kg	01/29/04 RB
8082	PCB-1232	ND	10	0.5	0.004	mg/Kg	01/29/04 RB
8082	PCB-1242	ND	10	0.5	0.002	mg/Kg	01/29/04 RB
8082	PCB-1248	ND	10	0.8	0.008	mg/Kg	01/29/04 RB
8082	PCB-1254	ND	10	0.3	0.001	mg/Kg	01/29/04 RB
8082	PCB-1260	3.7	10	0.3	0.002	mg/Kg	01/29/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	103	%	50 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 122547-489499 QC# 012604STLC1

Matrix: STLC

Prep. Date: 01/26/04

Analysis Date: 01/26/04

Lab ID#'s in Batch: LR 122547, 123061, 122709, 122549, 122460, 123150, 122589, 118885

REPORTING UNITS = mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	6010	4.73		10	13.40	13.50	87	88	1
Copper	6010	0.70		10	10.10	9.97	94	93	1
Arsenic	6010	0.50	U	10	9.60	9.70	96	97	1
Cadmium	6010	1.00	U	10	9.80	9.70	98	97	1
Chromium	6010	1.00	U	10	9.20	9.02	92	90	2

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - 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 = 75 -125
RPD LIMITS = 20

ASSOCIATED LABORATORIES
QA REPORT FORM

Determinative Method : EPA 8082 Preparative Method: EPA 3545

QC Sample: 122709-492765

Matrix: SOLID

Analysis Date: 1/23/04

Batch Date: 1/22/04 (pcb 012204s)

Applies to: LR 122709 (sample 492795)

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULTS
REPORTING UNITS = mg/Kg

Test	Sample Result	Spike Added	Spike Recovered		% Rec		RPD	QC Limits	
			MS	MSD	MS	MSD		RPD	% Rec
Aroclor 1260	3.64	0.500	3.917	3.932	56	59	0	35	50-125

ND = Not Detected
% Rec - MS & MSD = Percent Recovery from Matrix Spike & Matrix Spike Duplicate
RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate recoveries

LAB CONTROL SPIKE RECOVERY / METHOD BLANK
REPORTING UNITS = mg/Kg

Test	Spike Added	Spike Recovered		% Rec		RPD	QC Limits	
		LCS	LCSD	LCS	LCSD		RPD	% Rec
Aroclor 1260	0.500	0.453	0.511	91	102	12	35	70-130

Method Blank = All ND
% Rec - LCS & LCSD = Percent Recovery from Lab Control Spike & Lab Control Spike Duplicate
RPD = Relative Percent Difference of Lab Control Spike and Lab Control Spike Duplicate recoveries

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(714) 771-6900 • Fax: (714) 538-1209

122704

CHAIN OF CUSTODY RECORD

Date 1/12/04 Page 1 of 4

CLIENT M+A
ADDRESS 9841 Airport Bl St 1010
Los Angeles CA

PROJECT MANAGER Keith Farrel
PHONE NUMBER

PROJECT NAME Dico Oil
SAMPLERS: (Signature) Lynn Edlund

Samples Intact Yes ✓ No ____
County Seals Intact Yes ____ No ____
Sample Ambient ___ Cooled ✓ Frozen ___
Same Day ____ 24 Hr. ____
Regular ✓ 48 Hr. ____

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE WATER	AIR	SOLID	NO OF CNTNRS	SUSP. CONTAM.	TESTS REQUIRED
B-22-2'	Comp 8 } Composite with B-23-2' and B-33-2' collected 1/8/04	1/12/04	923			✓	1		PCB, Pb, Cr, TPH(od)
B-32-2'	↓		956						
B-22-5'	Comp 9 } composite with B-23-5' and B-33-5' collected 1/8/04		938						
B-32-5'	↓		1010						
B-24-2'	Comp 11		820						
B-25-2'			830						
B-34-2'			936						
B-35-2'	↓		845						
B-24-5'	Comp 12		825						
B-25-5'			835						
B-34-5'			935						
B-35-5'	↓		850						
B-40-2'	Comp 20		1043			✓	✓		✓

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Lynn Edlund	Tom Vinsonhaler	1/12/04 2:50 P.M.
Relinquished by: (Signature)	Received by Laboratory for analysis: (Signature)	Date/Time
Tom Vinsonhaler	1/13 9:00	1/13

Special Instructions:

I hereby authorize the performance of the above indicated work.

Lynn Edlund

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Z 1-13-04 1:50

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122709

CHAIN OF CUSTODY RECORD

Date 1/12/04 Page 2 of 4

CLIENT MTA
ADDRESS
PROJECT NAME DCO 0.1
PROJECT MANAGER Keith Farrell
PHONE NUMBER
SAMPLERS: (Signature) Lynn Edlund

Samples Intact Yes ✓ No ___
County Seals Intact Yes ___ No ___
Sample Ambient ___ Cooled ✓ Frozen ___
Same Day ___ 24 Hr. ___
Regular ✓ 48 Hr. ___

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE WATER	AIR	SOLID	NO OF CNTNRS	SUSP. CONTAM.	TESTS REQUIRED
B-41-2'	Comp 20	1/12/04	1015			✓	1		PCB, Pb, Cr, TPHod
B-50-2'	↓		1105			↓	↓		↓
B-51-2'	↓		1129			↓	↓		↓
B-40-5'	Comp 21		1047			↓	↓		↓
B-41-5'	↓		1025			↓	↓		↓
B-50-5'	↓		1109			↓	↓		↓
B-51-5'	↓		1129			↓	↓		↓
B-14-2'	Comp 56		811			↓	↓		↓
B-15-2'	↓		815			↓	↓		↓
B-14-5'	Comp 57		815			↓	↓		↓
B-15-5'	↓		825			↓	↓		↓
B-24-10'			830			↓	↓		Hold
B-25-7.5			844			↓	↓		↓

Relinquished by: (Signature) Lynn Edlund
Received by: (Signature) Tom Vinsonhaler
Date/Time 1/12/04 2:50 P.M.

Relinquished by: (Signature) Tom Vinsonhaler
Received by Laboratory for analysis: (Signature)
Date/Time 1/13 9[illegible]

Special Instructions:

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Lynn Edlund

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122209

CHAIN OF CUSTODY RECORD

Date 1/12/04 Page 3 of 4

CLIENT M+A

ADDRESS

PROJECT MANAGER Beth Farrell

PHONE NUMBER

PROJECT NAME Dico 01

SAMPLERS: (Signature) John Edlund

Samples Intact Yes ✓ No ____
County Seals Intact Yes ____ No ____
Sample Ambient ____ Cooled ✓ Frozen ____
Same Day ____ 24 Hr. ____
Regular ✓ 48 Hr. ____

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE WATER	AIR	SOLID	NO OF CNTNRS	SUSP. CONTAM.	TESTS REQUIRED
B-25-10'		1/12/04	854			✓	1		Hold
B-25-12.5			902						
B-32-7.5'			1030						
B-35-7.5			855						
B-35-9.5			905						
B-35-15'			930						
B-40-7.5			1050						
B-41-7.5			1035						
B-51-7.5			1130						
B-34-10'			945						
B-34-12.5			950						
B-50-7.5			1116				✓		✓
B-47-14			1305			✓	2	5	8260, 8270 CAM Metals, PCB, TPH

Relinquished by: (Signature) John Edlund
Received by: (Signature) Tom Vinsonhaler
Date/Time 1/12/04 2:50 PM

Relinquished by: (Signature) Tom Vinsonhaler
Received by Laboratory for analysis: (Signature) 1/13 9:50
Date/Time 1/13

Special Instructions:

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John J. Edlund

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122709

CHAIN OF CUSTODY RECORD

Date 1/12/04 Page 4 of 4

CLIENT M+A

ADDRESS

PROJECT MANAGER Keith Farrell

PHONE NUMBER

PROJECT NAME Dico Oil

SAMPLERS: (Signature) Lynn Edlund

Samples Intact Yes ✓ No ____
County Seals Intact Yes ____ No ✓
Sample Ambient ___ Cooled ✓ Frozen ___
Same Day ____ 24 Hr. ____
Regular ✓ 48 Hr. ____

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE WATER	AIR	SOLID	NO OF CNTNRS	SUSP. CONTAM.	TESTS REQUIRED
B-85-3'		1/12/04	1328			✓	1		PCB, Pb, Cr, TPH(d)
B-85-2'		↓	1329			↓	↓		↓
B-85-5'		↓	1333			↓	↓		↓

Relinquished by: (Signature) Lynn Edlund

Received by: (Signature) Tom Vinsonhaler

Date/Time 2:50 PM 1/12

Relinquished by: (Signature) Tom Vinsonhaler

Received by Laboratory for analysis: (Signature) 1/13 9:50

Date/Time 1/13

Special Instructions:

I hereby authorize the performance of the above indicated work.

Lynn Edlund

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ASSOCIATED LABORATORIES
6 North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Meredith & Associates, Inc (10577)
ATTN: Keith Farrell
9841 Airport Blvd.
Suite 1010
Los Angeles, CA 90045-5409

LAB REQUEST 122255
REPORTED 01/12/2004
RECEIVED 01/05/2004

PROJECT Dico Oil - 2003-123

SUBMITTER Client

COMMENTS Added TCLP Lead to order #488409, 414, 416 and STLC Lead to 409, 410, 414-417 on 1-14-04.

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.	Client Sample Identification
488409	Composite 1
488410	Composite 4
488411	Composite 7
488412	Composite 10
488413	Composite 13
488414	Composite 16
488415	Composite 19
488416	Composite 22
488417	Composite 25
488418	Laboratory Method Blank
488496	Composite 16 DUP

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.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 488409 **Client Sample ID**: Composite 1

Matrix: SOLID **Sample Description:** B-7-3 / B-17-3 / B-27-3 / B-8-3 / B-18-3 / B-29-3 / B-9-3 / B-19-3 / B-28-3

Date Sampled: 01/05/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	19.2	1	1.0	0.14	mg/Kg	01/07/04 KN
6010B	Lead	126	1	0.5	0.16	mg/Kg	01/07/04 KN
1311/6010	Lead TCLP	0.204	1	0.05	0.002	mg/L	01/16/04 KN
6010/STLC	Lead, STLC	3.80	10	0.05	0.002	mg/L	01/16/04 KN
8082	PCB-1016	ND	10	0.3	0.003	mg/Kg	01/08/04 RB
8082	PCB-1221	ND	10	0.6	0.006	mg/Kg	01/08/04 RB
8082	PCB-1232	ND	10	0.5	0.004	mg/Kg	01/08/04 RB
8082	PCB-1242	ND	10	0.5	0.002	mg/Kg	01/08/04 RB
8082	PCB-1248	ND	10	0.8	0.008	mg/Kg	01/08/04 RB
8082	PCB-1254	ND	10	0.3	0.001	mg/Kg	01/08/04 RB
8082	PCB-1260	6.3	10	0.3	0.002	mg/Kg	01/08/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	82				%	50 - 135
8015	Diesel	438	50	150.0	0.7	mg/Kg	01/07/04 CH
8015	Oil	10200	250	1250.0		mg/Kg	01/07/04 CH

E Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
N Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 488410 **Client Sample ID:** Composite 4

Matrix: SOLID **Sample Description:** B-10-3 / B-11-3 / B-20-3 / B-21-3 / B-30-3 / B-31-3

Date Sampled: 01/05/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	14.3	1	1.0	0.14	mg/Kg	01/07/04 KN
6010B	Lead	60.8	1	0.5	0.16	mg/Kg	01/07/04 KN
6010/STLC	Lead, STLC	2.28	10	0.05	0.002	mg/L	01/16/04 KN
8082	PCB-1016	ND	10	0.3	0.003	mg/Kg	01/08/04 RB
8082	PCB-1221	ND	10	0.6	0.006	mg/Kg	01/08/04 RB
8082	PCB-1232	ND	10	0.5	0.004	mg/Kg	01/08/04 RB
8082	PCB-1242	ND	10	0.5	0.002	mg/Kg	01/08/04 RB
8082	PCB-1248	ND	10	0.8	0.008	mg/Kg	01/08/04 RB
8082	PCB-1254	ND	10	0.3	0.001	mg/Kg	01/08/04 RB
8082	PCB-1260	5.2	10	0.3	0.002	mg/Kg	01/08/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	81				%	50 - 135
8015	Diesel	685	50	150.0	0.7	mg/Kg	01/07/04 CH
8015	Oil	10400	250	1250.0		mg/Kg	01/07/04 CH

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 488411 **Client Sample ID**: Composite 7

Matrix: SOLID **Sample Description:** B-12-3 / B-13-3 / B-22-3 / B-23-3 / B-32-3 / B-33-3

Date Sampled: 01/05/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	10.6	1	1.0	0.14	mg/Kg	01/07/04 KN
6010B	Lead	23.1	1	0.5	0.16	mg/Kg	01/07/04 KN
8082	PCB-1016	ND	10	0.3	0.003	mg/Kg	01/08/04 RB
8082	PCB-1221	ND	10	0.6	0.006	mg/Kg	01/08/04 RB
8082	PCB-1232	ND	10	0.5	0.004	mg/Kg	01/08/04 RB
8082	PCB-1242	ND	10	0.5	0.002	mg/Kg	01/08/04 RB
8082	PCB-1248	ND	10	0.8	0.008	mg/Kg	01/08/04 RB
8082	PCB-1254	ND	10	0.3	0.001	mg/Kg	01/08/04 RB
8082	PCB-1260	7.2	10	0.3	0.002	mg/Kg	01/08/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	76				%	50 - 135
8015	Diesel	1600	100	300.0	0.7	mg/Kg	01/07/04 CH
8015	Oil	1150	100	500.0		mg/Kg	01/07/04 CH

EC Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
NL Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 488412 **Client Sample ID:** Composite 10

Matrix: SOLID **Sample Description:** B-14-3 / B-24-3 / B-34-3 / B-15-3 / B-25-3 / B-35-3

Date Sampled: 01/05/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	15.1	1	1.0	0.14	mg/Kg	01/07/04 KN
6010B	Lead	47.4	1	0.5	0.16	mg/Kg	01/07/04 KN
8082	PCB-1016	ND	50	1.5	0.003	mg/Kg	01/08/04 RB
8082	PCB-1221	ND	50	3.0	0.006	mg/Kg	01/08/04 RB
8082	PCB-1232	ND	50	2.5	0.004	mg/Kg	01/08/04 RB
8082	PCB-1242	ND	50	2.5	0.002	mg/Kg	01/08/04 RB
8082	PCB-1248	ND	50	4.0	0.008	mg/Kg	01/08/04 RB
8082	PCB-1254	ND	50	1.5	0.001	mg/Kg	01/08/04 RB
8082	PCB-1260	28	50	1.5	0.002	mg/Kg	01/08/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	72				%	50 - 135
8015	Diesel	610	10	30.0	0.7	mg/Kg	01/07/04 CH
8015	Oil	416	50	250.0		mg/Kg	01/07/04 CH

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 488413 **Client Sample ID:** Composite 13

Matrix: SOLID **Sample Description:** B-16-3 / B-26-3 / B-36-3 / B-46-3

Date Sampled: 01/05/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	21.3	1	1.0	0.14	mg/Kg	01/07/04 KN
6010B	Lead	28.6	1	0.5	0.16	mg/Kg	01/07/04 KN
8082	PCB-1016	ND	10	0.3	0.003	mg/Kg	01/08/04 RB
8082	PCB-1221	ND	10	0.6	0.006	mg/Kg	01/08/04 RB
8082	PCB-1232	ND	10	0.5	0.004	mg/Kg	01/08/04 RB
8082	PCB-1242	ND	10	0.5	0.002	mg/Kg	01/08/04 RB
8082	PCB-1248	ND	10	0.8	0.008	mg/Kg	01/08/04 RB
8082	PCB-1254	ND	10	0.3	0.001	mg/Kg	01/08/04 RB
8082	PCB-1260	4.5	10	0.3	0.002	mg/Kg	01/08/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	82				%	50 - 135
8015	Diesel	124	10	30.0	0.7	mg/Kg	01/07/04 CH
8015	Oil	182	10	50.0		mg/Kg	01/07/04 CH

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 488414 **Client Sample ID**: Composite 16

Matrix: SOLID **Sample Description:** B-37-3 / B-47-3 / B-38-3 / B-48-3 / B-39-3 / B-49-3

Date Sampled: 01/05/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	34.9	1	1.0	0.14	mg/Kg	01/07/04 KN
6010B	Lead	311	1	0.5	0.16	mg/Kg	01/07/04 KN
1311/6010	Lead TCLP	0.707	1	0.05	0.002	mg/L	01/16/04 KN
6010/STLC	Lead, STLC	10.8	10	0.05	0.002	mg/L	01/16/04 KN
8082	PCB-1016	ND	10	0.3	0.003	mg/Kg	01/08/04 RB
8082	PCB-1221	ND	10	0.6	0.006	mg/Kg	01/08/04 RB
8082	PCB-1232	ND	10	0.5	0.004	mg/Kg	01/08/04 RB
8082	PCB-1242	ND	10	0.5	0.002	mg/Kg	01/08/04 RB
8082	PCB-1248	ND	10	0.8	0.008	mg/Kg	01/08/04 RB
8082	PCB-1254	ND	10	0.3	0.001	mg/Kg	01/08/04 RB
8082	PCB-1260	5.3	10	0.3	0.002	mg/Kg	01/08/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	83				%	50 - 135
8015	Diesel	947	50	150.0	0.7	mg/Kg	01/07/04 CH
8015	Oil	4470	250	1250.0		mg/Kg	01/07/04 CH

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 488415 **Client Sample ID:** Composite 19

Matrix: SOLID **Sample Description:** B-40-3 / B-50-3 / B-41-3 / B-51-3

Date Sampled: 01/05/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	11.0	1	1.0	0.14	mg/Kg	01/07/04 KN
6010B	Lead	66.2	1	0.5	0.16	mg/Kg	01/07/04 KN
6010/STLC	Lead, STLC	2.68	10	0.05	0.002	mg/L	01/16/04 KN
8082	PCB-1016	ND	2	0.06	0.003	mg/Kg	01/08/04 RB
8082	PCB-1221	ND	2	0.12	0.006	mg/Kg	01/08/04 RB
8082	PCB-1232	ND	2	0.1	0.004	mg/Kg	01/08/04 RB
8082	PCB-1242	ND	2	0.1	0.002	mg/Kg	01/08/04 RB
8082	PCB-1248	1.1	2	0.16	0.008	mg/Kg	01/08/04 RB
8082	PCB-1254	1.2	2	0.06	0.001	mg/Kg	01/08/04 RB
8082	PCB-1260	1.1	2	0.06	0.002	mg/Kg	01/08/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	92				%	50 - 135
8015	Diesel	622	10	30.0	0.7	mg/Kg	01/08/04 CH
8015	Oil	728	100	500.0		mg/Kg	01/08/04 CH

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 488416 **Client Sample ID:** Composite 22

Matrix: SOLID **Sample Description:** B-42-3 / B-52-3 / B-43-3 / B-53-3

Date Sampled: 01/05/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	41.0	1	1.0	0.14	mg/Kg	01/07/04 KN
6010B	Lead	101	1	0.5	0.16	mg/Kg	01/07/04 KN
1311/6010	Lead TCLP	ND	1	0.05	0.002	mg/L	01/16/04 KN
6010/STLC	Lead, STLC	3.69	10	0.05	0.002	mg/L	01/16/04 KN
8082	PCB-1016	ND	10	0.3	0.003	mg/Kg	01/08/04 RB
8082	PCB-1221	ND	10	0.6	0.006	mg/Kg	01/08/04 RB
8082	PCB-1232	ND	10	0.5	0.004	mg/Kg	01/08/04 RB
8082	PCB-1242	ND	10	0.5	0.002	mg/Kg	01/08/04 RB
8082	PCB-1248	ND	10	0.8	0.008	mg/Kg	01/08/04 RB
8082	PCB-1254	ND	10	0.3	0.001	mg/Kg	01/08/04 RB
8082	PCB-1260	4.6	10	0.3	0.002	mg/Kg	01/08/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	92				%	50 - 135
8015	Diesel	1210	50	150.0	0.7	mg/Kg	01/08/04 CH
8015	Oil	3260	250	1250.0		mg/Kg	01/08/04 CH

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 488417 **Client Sample ID:** Composite 25

Matrix: SOLID **Sample Description:** B-44-3 / B-54-3 / B-45-3 / B-55-3 / B-56-3

Date Sampled: 01/05/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	18.6	1	1.0	0.14	mg/Kg	01/07/04 KN
6010B	Lead	77.5	1	0.5	0.16	mg/Kg	01/07/04 KN
6010/STLC	Lead, STLC	1.71	10	0.05	0.002	mg/L	01/16/04 KN
8082	PCB-1016	ND	50	1.5	0.003	mg/Kg	01/08/04 RB
8082	PCB-1221	ND	50	3.0	0.006	mg/Kg	01/08/04 RB
8082	PCB-1232	ND	50	2.5	0.004	mg/Kg	01/08/04 RB
8082	PCB-1242	ND	50	2.5	0.002	mg/Kg	01/08/04 RB
8082	PCB-1248	ND	50	4.0	0.008	mg/Kg	01/08/04 RB
8082	PCB-1254	ND	50	1.5	0.001	mg/Kg	01/08/04 RB
8082	PCB-1260	37	50	1.5	0.002	mg/Kg	01/08/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	71				%	50 - 135
8015	Diesel	160	10	30.0	0.7	mg/Kg	01/08/04 CH
8015	Oil	1660	50	250.0		mg/Kg	01/08/04 CH

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 488418 **Client Sample ID**: Laboratory Method Blank

Matrix: *SOLID*

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	ND	1	1.00	0.14	mg/Kg	01/07/04 KN
6010B	Lead	ND	1	0.50	0.16	mg/Kg	01/07/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/07/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/07/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/07/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/07/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/07/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/07/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/07/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	96				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	01/07/04 CH
8015	Oil	ND	1	5		mg/Kg	01/07/04 CH

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 488496 **Client Sample ID**: Composite 16 DUP

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	36.7	1	1.0	0.14	mg/Kg	01/07/04 KN
6010B	Lead	333	1	0.5	0.16	mg/Kg	01/07/04 KN
8082	PCB-1016	ND	10	0.3	0.003	mg/Kg	01/08/04 RB
8082	PCB-1221	ND	10	0.6	0.006	mg/Kg	01/08/04 RB
8082	PCB-1232	ND	10	0.5	0.004	mg/Kg	01/08/04 RB
8082	PCB-1242	ND	10	0.5	0.002	mg/Kg	01/08/04 RB
8082	PCB-1248	0.92	10	0.8	0.008	mg/Kg	01/08/04 RB
8082	PCB-1254	ND	10	0.3	0.001	mg/Kg	01/08/04 RB
8082	PCB-1260	6.6	10	0.3	0.002	mg/Kg	01/08/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	96				%	50 - 135
8015	Diesel	1040	50	150.0	0.7	mg/Kg	01/08/04 CH
8015	Oil	5300	50	250.0		mg/Kg	01/08/04 CH

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

'C Sample: LR 122255-488414 QC# 011604stlc1

Matrix: STLC

Prep. Date: 01/16/04

Analysis Date: 01/16/04

Lab ID#'s in Batch: LR 122255, 122329, 122693

REPORTING UNITS = mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	6010	10.80		10	20.40	20.00	96	92	2
Chromium	6010	0.19		10	9.30	9.44	91	93	1
Copper	6010	1.22		10	10.30	10.50	91	93	2

'f Sample Result > 4 times Spike Added, then "NC"

ND = "U" - 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 = 75 -125
RPD LIMITS = 20

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 122255-488414 QC# 011604tclp1

Matrix: TCLP

Prep. Date: 01/16/04

Analysis Date: 01/16/04

Lab ID#'s in Batch: LR 122255, 122329

REPORTING UNITS = mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Chromium	6010	0.05	U	1	0.98	1.03	98	103	5
Lead	6010	0.71		1	1.60	1.74	89	103	8

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - 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 = 75 -125
RPD LIMITS = 20

LCS/MB REPORT FORM

LCS Source(s) : QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank MB	Method Blank ND
Chromium	6010	1.95	2	98	80%	120%	0.05	U
Lead	6010	1.83	2	92	80%	120%	0.05	U

*Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True*

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Method Blank; ND = " U " for Non- Detected

ASSOCIATED LABORATORIES
6 North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Meredith & Associates, Inc (10577)
ATTN: Keith Farrel
9841 Airport Blvd.
Suite 1010
Los Angeles, CA 90045-5409

LAB REQUEST 122328
REPORTED 01/12/2004
RECEIVED 01/06/2004

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.	Client Sample Identification
488689	Con-Comp-1
488690	Con-Comp-1-Dup
488691	Con-Comp-2
488692	B-81-3"
488693	B-81-2'
488694	B-81-5'
488695	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.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 488689 **Client Sample ID:** Con-Comp-1

Matrix: SOLID **Sample Description:** Con-1 / Con-2 / Con-3

Date Sampled: 01/06/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	13.7	1	1.0	0.14	mg/Kg	01/08/04 KN
6010B	Lead	3.42	1	0.5	0.16	mg/Kg	01/08/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/09/04 SD
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/09/04 SD
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/09/04 SD
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/09/04 SD
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/09/04 SD
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/09/04 SD
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/09/04 SD
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	116				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	01/08/04 CH
8015	Oil	ND	1	5		mg/Kg	01/08/04 CH

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 488690 **Client Sample ID**: Con-Comp-1-Dup

Matrix: SOLID **Sample Description:** Con-1 / Con-2 / Con-3

Date Sampled: 01/06/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	13.3	1	1.0	0.14	mg/Kg	01/08/04 KN
6010B	Lead	3.03	1	0.5	0.16	mg/Kg	01/08/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/09/04 SD
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/09/04 SD
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/09/04 SD
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/09/04 SD
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/09/04 SD
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/09/04 SD
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/09/04 SD
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	117				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	01/08/04 CH
8015	Oil	ND	1	5		mg/Kg	01/08/04 CH

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 488691 **Client Sample ID**: Con-Comp-2

Matrix: SOLID **Sample Description:** Con-4 / Con-5 / Con-6

Date Sampled: 01/06/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	11.8	1	1.0	0.14	mg/Kg	01/08/04 KN
6010B	Lead	6.76	1	0.5	0.16	mg/Kg	01/08/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/09/04 SD
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/09/04 SD
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/09/04 SD
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/09/04 SD
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/09/04 SD
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/09/04 SD
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/09/04 SD
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	112				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	01/08/04 CH
8015	Oil	224	1	5		mg/Kg	01/08/04 CH

EQ Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
NL Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 488692 **Client Sample ID**: B-81-3"

Matrix: SOLID

Date Sampled: 01/06/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	22.8	1	1.0	0.14	mg/Kg	01/08/04 KN
6010B	Lead	88.8	1	0.5	0.16	mg/Kg	01/08/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/09/04 SD
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/09/04 SD
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/09/04 SD
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/09/04 SD
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/09/04 SD
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/09/04 SD
8082	PCB-1260	0.39	1	0.03	0.002	mg/Kg	01/09/04 SD
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	118				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	01/08/04 CH
8015	Oil	391	20	100.0		mg/Kg	01/08/04 CH

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 488693 **Client Sample ID:** B-81-2'

Matrix: SOLID

Date Sampled: 01/06/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	13.1	1	1.0	0.14	mg/Kg	01/08/04 KN
6010B	Lead	1.83	1	0.5	0.16	mg/Kg	01/08/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/09/04 SD
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/09/04 SD
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/09/04 SD
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/09/04 SD
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/09/04 SD
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/09/04 SD
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/09/04 SD
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	128				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	01/08/04 CH
8015	Oil	ND	1	5		mg/Kg	01/08/04 CH

EQ[illegible] - Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
N[illegible] Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 488695 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	ND	1	1.00	0.14	mg/Kg	01/08/04 KN
6010B	Lead	ND	1	0.50	0.16	mg/Kg	01/08/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/09/04 SD
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/09/04 SD
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/09/04 SD
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/09/04 SD
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/09/04 SD
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/09/04 SD
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/09/04 SD

Surrogates			Units	Control Limits
8082	DCB(Sur)	116	%	50 - 135

8015	Diesel	ND	1	3	0.7	mg/Kg	01/08/04 CH
8015	Oil	ND	1	5		mg/Kg	01/08/04 CH

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
NL Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LCS/LCSD

Matrix: SOLID

Extraction Method : 3545

Prep. Date: 01/07/04

Analysis Date: 01/07/04

ID#'s in Batch: LR 122341, 121645, 122328

Reporting Units = mg/Kg

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

			PREP BLK					
			Value	Result	True	%Rec	L.Limit	H.Limit
Test	Method	LCS	ND	26	25	104	70%	130%
DIESEL	8015D	LCSD	ND	23	25	92	70%	130%

LCS Result = Lab Control Sample Result
True = True Value of LCS
L.Limit / H.Limit = LCS Control Limits

SURROGATE RECOVERY

Sample No.	O-Terphenyl
QC Limit	55-200
Method Blank	88
LCS	120
LCSD	110

ASSOCIATED LABORATORIES
QA REPORT FORM

Sample: LCS / LCSD

Matrix: SOLID

Prep. Date: 01/07/04

Analysis Date: 01/07/04-01/08/04

ID#'s in Batch: LR 122328, 122404, 122420, 122448

Reporting Units = mg/Kg

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

			PREP BLK					
			Value	Result	True	%Rec	L.Limit	H.Limit
Test	Method	LCS	ND	4.2	5	84	80%	120%
TPH	8015M-G	LCSD	ND	4.3	5	86	80%	120%

LCS Result = Lab Control Sample Result
True = True Value of LCS
L.Limit / H.Limit = LCS Control Limits

SURROGATE RECOVERY

Sample No.	AAA-TFT
QC Limit	55-200
Method Blank	167
LCS	164
LCSD	165

AAA-TFT = a,a,a-Trifluorotoluene

ASSOCIATED LABORATORIES
QA REPORT FORM

Determinative Method : EPA 8082 Preparative Method: EPA 3545

QC Sample: 122328-488693

Matrix: SOLID

Analysis Date: 1/9/04

Batch Date: 1/8/04 (pcb 010804s-2)

Applies to: LR 122328, LR 122460, LR 122530 and LR 122537

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULTS
REPORTING UNITS = *mg/Kg*

Test	Sample Result	Spike Added	Spike Recovered		% Rec		RPD	QC Limits	
			MS	MSD	MS	MSD		RPD	% Rec
Aroclor 1260	ND	0.500	0.515	0.514	103	103	0	35	50-125

ND = Not Detected
% Rec - MS & MSD = Percent Recovery from Matrix Spike & Matrix Spike Duplicate
RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate recoveries

LAB CONTROL SPIKE RECOVERY / METHOD BLANK
REPORTING UNITS = mg/Kg

Test	Spike Added	Spike Recovered	% Rec LCS	QC Limit
Aroclor 1260	0.500	0.542	108	70-130

Method Blank = All ND
% Rec - LCS = Percent Recovery from Lab Control Spike

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 122328-488689 QC# 010704SO2

Matrix: SOLID

Prep. Date: 01/07/04

Analysis Date: 01/08/04

Lab ID#'s in Batch: LR 122328

REPORTING UNITS = mg/Kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	6010	3.42		95	103	106	105	108	3
Chromium	6010	13.70		95	118	122	110	114	3

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - 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 = 75 -125
RPD LIMITS = 20

LCS/MB REPORT FORM

LCS Source(s) : QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank MB	Method Blank ND
Lead	6010	238	200	119	80%	120%	0.50	U
Chromium	6010	232	200	116	80%	120%	1.00	U

*Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True*

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Method Blank; ND = " U " for Non- Detected

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868-1225 - 714/771-6900 FAX 714/538-1209

Cooler Receipt Form

Client: M x A Project: /

Date Cooler Received: 1/6/04 Date Cooler Opened: 1/6/04

Was cooler scanned for presence of radioactivity ? Yes/No
If yes was radioactivity results above 25 cpm ? Yes/No

Was a shipper's packing slip attached to the cooler ? Yes/No

If the cooler had custody seal(s), were thy signed and intact ? Yes/No/Na

Was the cooler packed with: Ice ✓ Ice Packs _____ Bubble wrap _____
Styrofoam _____ Paper _____ None _____ Other _____

Cooler Temperature: 4.3 °C *
*cooler needs to be received @ 4°C with an acceptable range of 2°- 6 °C

If samples were hand delivered do they meet the temp. criteria, which should be @ 4°C with an acceptable range of 2°- 6 °C ? Yes/No

If no explain: _____

Were all samples sealed in plastic bags ? Yes/No

Did all samples arrive intact ? If no, indicate below. Yes/No

Were all samples labeled correctly ? (ID's Dates, Times) If no, indicate below. Yes/No

Can the tests required be ran with the provided containers, If no indicate below. Yes/No

Was sufficient sample volume sent for all containers ? Yes/No

Were any VOA vials received with head space ? Yes/No/Na

Was the correct preservatives used ? Yes/No/Na
If no, see the pH log for a list of samples containers regarding pH

Any other important information: _____

Receiving Department: mv Date: 1/6

ASSOCIATED LABORATORIES
806 N. Batavia • Orange, CA 92868
(714) 771-6900 • Fax: (714) 538-1209

122328

CHAIN OF CUSTODY RECORD

Date 1/6/04 Page 1 of 1

CLIENT MTA
ADDRESS
PROJECT NAME

PROJECT MANAGER Keith Jarvel
PHONE NUMBER
SAMPLERS: (Signature) Tom Edwards

Samples Intact Yes ✓ No ___
County Seals Intact Yes ___ No ___
Sample Ambient ___ Cooled ___ Frozen ___
Same Day ___ 24 Hr. ___
Regular ✓ 48 Hr. ___

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE WATER	AIR	SOLID	NO OF CNTNRS	SUSP. CONTAM.	TESTS REQUIRED
CON-COMP-1	Samples Con-1, Con-2, Con 3	1/6/04				3			PCBs per DR 1-7-04 ~~TPH~~, Pb, Cr, TPH (oil)
CON-Comp-1 Dup	Make from Con Comp 1								
CON-Comp2	Samples Con 4, Con 5, Con 6								
B-81-3"									
B-81-2'									
B-81-5'									Hold

Relinquished by: (Signature) Tom Edwards
Received by: (Signature) Tom Visorbola
Date/Time 4:00 1/6/04

Relinquished by: (Signature) Tom Visorbola
Received by Laboratory for analysis: (Signature)
Date/Time 1/6 1/6 20

Special Instructions:

I hereby authorize the performance of the above indicated work.

Tom Edwards

DISTRIBUTION: White with report. to AL, Pink to Courier

ASSOCIATED LABORATORIES
6 North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Meredith & Associates, Inc (10577)
ATTN: Keith Farrell
9841 Airport Blvd.
Suite 1010
Los Angeles, CA 90045-5409

LAB REQUEST 122329
REPORTED 01/12/2004
RECEIVED 01/06/2004

PROJECT Dico Oil

SUBMITTER Client

COMMENTS Added STLC and TCLP Lead to order #488702 and 719 on 1/14/04.

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.	Client Sample Identification
488696	B-82-3"
488697	B-82-2'
488698	B-82-5'
488699	B-1-3"
488700	B-1-2'
488701	B-1-5'
488702	B-2-3"
488703	B-2-2'
488704	B-2-5'
488705	B-3-3"
488706	B-3-2'
488707	B-3-5'
488708	B-3-10'
488709	B-4-3"
488710	B-4-2'

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.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Meredith & Associates, Inc (10577)
ATTN: Keith Farrell
9841 Airport Blvd.
Suite 1010
Los Angeles, CA 90045-5409

LAB REQUEST 122329
REPORTED 01/12/2004
RECEIVED 01/06/2004

PROJECT Dico Oil

SUBMITTER Client

COMMENTS Added STLC and TCLP Lead to order #488702 and 719 on 1/14/04.

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.	Client Sample Identification
488711	B-4-5'
488712	B-5-3"
488713	B-5-2'
488714	B-5-5'
488715	B-6-3"
488716	B-6-2'
488717	B-6-2' Dup
488718	B-6-5'
488719	Comp 28
488720	Comp 29
488721	Comp 30
488722	Comp 23
488723	Comp 24
488724	B-83-3"
488846	B-83-2'

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.

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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.	Client Sample Identification
488847	B-83-5'
488848	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.

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Order #: 488696 **Client:** Meredith & Associates, Inc
Matrix: SOLID **Client Sample ID:** B-82-3"
Date Sampled: 01/06/2004
Time Sampled: 08:35
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
6010B ICP Metals - Solid/Liquid						
Chromium	15.0	1	1.0	mg/Kg	01/09/04	KN
Lead	54.2	1	0.5	mg/Kg	01/09/04	KN
8015 TEPH Fingerprint						
Diesel	ND	10	30.0	mg/Kg	01/09/04	CH
Oil	237	10	50.0	mg/Kg	01/09/04	CH
8082 - Polychlorinated Biphenyls (PCBs) by GC						
PCB-1016	ND	1	0.03	mg/Kg	01/08/04	RB
PCB-1221	ND	1	0.06	mg/Kg	01/08/04	RB
PCB-1232	ND	1	0.05	mg/Kg	01/08/04	RB
PCB-1242	ND	1	0.05	mg/Kg	01/08/04	RB
PCB-1248	ND	1	0.08	mg/Kg	01/08/04	RB
PCB-1254	ND	1	0.03	mg/Kg	01/08/04	RB
PCB-1260	0.36	1	0.03	mg/Kg	01/08/04	RB
Surrogates				**Units**	**Control Limits**	
DCB(Sur)	115			%	50 - 135	

= Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 488697 **Client:** Meredith & Associates, Inc
Matrix: SOLID **Client Sample ID:** B-82-2'
Date Sampled: 01/06/2004
Time Sampled: 08:37
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
6010B ICP Metals - Solid/Liquid						
Chromium	13.4	1	1.0	mg/Kg	01/09/04	KN
Lead	2.35	1	0.5	mg/Kg	01/09/04	KN
8015 TEPH Fingerprint						
Diesel	ND	1	3	mg/Kg	01/09/04	CH
Oil	ND	1	5	mg/Kg	01/09/04	CH
8082 - Polychlorinated Biphenyls (PCBs) by GC						
PCB-1016	ND	1	0.03	mg/Kg	01/08/04	SD
PCB-1221	ND	1	0.06	mg/Kg	01/08/04	SD
PCB-1232	ND	1	0.05	mg/Kg	01/08/04	SD
PCB-1242	ND	1	0.05	mg/Kg	01/08/04	SD
PCB-1248	ND	1	0.08	mg/Kg	01/08/04	SD
PCB-1254	ND	1	0.03	mg/Kg	01/08/04	SD
PCB-1260	ND	1	0.03	mg/Kg	01/08/04	SD
Surrogates				**Units**	**Control Limits**	
DCB(Sur)	103			%	50 - 135	

= Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 488699 **Client:** Meredith & Associates, Inc
Matrix: SOLID **Client Sample ID:** B-1-3"
Date Sampled: 01/06/2004
Time Sampled: 09:20
S[illegible]led By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
6010B ICP Metals - Solid/Liquid						
Chromium	13.3	1	1.0	mg/Kg	01/09/04	KN
Lead	48.4	1	0.5	mg/Kg	01/09/04	KN
8015 TEPH Fingerprint						
Diesel	ND	100	300.0	mg/Kg	01/09/04	CH
Oil	1170	100	500.0	mg/Kg	01/09/04	CH
8082 - Polychlorinated Biphenyls (PCBs) by GC						
PCB-1016	ND	1	0.03	mg/Kg	01/08/04	RB
PCB-1221	ND	1	0.06	mg/Kg	01/08/04	RB
PCB-1232	ND	1	0.05	mg/Kg	01/08/04	RB
PCB-1242	ND	1	0.05	mg/Kg	01/08/04	RB
PCB-1248	ND	1	0.08	mg/Kg	01/08/04	RB
PCB-1254	ND	1	0.03	mg/Kg	01/08/04	RB
PCB-1260	0.19	1	0.03	mg/Kg	01/08/04	RB
[illegible]rogates				**Units**	**Control Limits**	
DCB(Sur)	113			%	50 - 135	

[illegible] = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 488700 **Client:** Meredith & Associates, Inc
Matrix: SOLID **Client Sample ID:** B-1-2'
Date Sampled: 01/06/2004
Time Sampled: 09:22
S[illegible]led By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
6010B ICP Metals - Solid/Liquid						
Chromium	12.2	1	1.0	mg/Kg	01/09/04	KN
Lead	1.72	1	0.5	mg/Kg	01/09/04	KN
8015 TEPH Fingerprint						
Diesel	ND	1	3	mg/Kg	01/09/04	CH
Oil	ND	1	5	mg/Kg	01/09/04	CH
8082 - Polychlorinated Biphenyls (PCBs) by GC						
PCB-1016	ND	1	0.03	mg/Kg	01/08/04	RB
PCB-1221	ND	1	0.06	mg/Kg	01/08/04	RB
PCB-1232	ND	1	0.05	mg/Kg	01/08/04	RB
PCB-1242	ND	1	0.05	mg/Kg	01/08/04	RB
PCB-1248	ND	1	0.08	mg/Kg	01/08/04	RB
PCB-1254	ND	1	0.03	mg/Kg	01/08/04	RB
PCB-1260	ND	1	0.03	mg/Kg	01/08/04	RB
Surrogates				**Units**	**Control Limits**	
DCB(Sur)	112			%	50 - 135	

= Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 488702
Matrix: SOLID
Date Sampled: 01/06/2004
Time Sampled: 09:45
S[illegible]led By:

Client: Meredith & Associates, Inc
Client Sample ID: B-2-3"

Analyte	Result	DF	DLR	Units	Date/Analyst	
1311/6010B TCLP (ICP Metals)						
Lead TCLP	1.44	1	0.05	mg/L	01/16/04	KN
6010 STLC (16 ICP Metals)						
Lead, STLC	19.1	10	0.05	mg/L	01/16/04	KN
6010B ICP Metals - Solid/Liquid						
Chromium	29.1	1	1.0	mg/Kg	01/09/04	KN
Lead	376	1	0.5	mg/Kg	01/09/04	KN
8015 TEPH Fingerprint						
Diesel	ND	50	150.0	mg/Kg	01/09/04	CH
Oil	4910	500	2500.0	mg/Kg	01/09/04	CH
8[illegible] - Polychlorinated Biphenyls (PCBs) by GC						
PCB-1016	ND	1	0.03	mg/Kg	01/08/04	RB
PCB-1221	ND	1	0.06	mg/Kg	01/08/04	RB
PCB-1232	ND	1	0.05	mg/Kg	01/08/04	RB
PCB-1242	ND	1	0.05	mg/Kg	01/08/04	RB
PCB-1248	ND	1	0.08	mg/Kg	01/08/04	RB
PCB-1254	0.76	1	0.03	mg/Kg	01/08/04	RB
PCB-1260	0.25	1	0.03	mg/Kg	01/08/04	RB
Surrogates				**Units**	**Control Limits**	
DCB(Sur)	110			%	50 - 135	

[illegible] = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 488703 **Client:** Meredith & Associates, Inc
Matrix: SOLID **Client Sample ID:** B-2-2'
Date Sampled: 01/06/2004
Time Sampled: 09:47
S led By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
6010B ICP Metals - Solid/Liquid						
Chromium	8.92	1	1.0	mg/Kg	01/09/04	KN
Lead	28.6	1	0.5	mg/Kg	01/09/04	KN
8015 TEPH Fingerprint						
Diesel	549	100	300.0	mg/Kg	01/10/04	CH
Oil	7460	500	2500.0	mg/Kg	01/10/04	CH
8082 - Polychlorinated Biphenyls (PCBs) by GC						
PCB-1016	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1221	ND	1	0.06	mg/Kg	01/09/04	SD
PCB-1232	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1242	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1248	ND	1	0.08	mg/Kg	01/09/04	SD
PCB-1254	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1260	ND	1	0.03	mg/Kg	01/09/04	SD
Surrogates				**Units**	**Control Limits**	
DCB(Sur)	109			%	50 - 135	

= Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 488705
Matrix: SOLID
Date Sampled: 01/06/2004
Time Sampled: 10:10
Sampled By:

Client: Meredith & Associates, Inc
Client Sample ID: B-3-3"

Analyte	Result	DF	DLR	Units	Date/Analyst	
6010B ICP Metals - Solid/Liquid						
Chromium	11.2	1	1.0	mg/Kg	01/09/04	KN
Lead	23.1	1	0.5	mg/Kg	01/09/04	KN
8015 TEPH Fingerprint						
Diesel	797	100	300.0	mg/Kg	01/08/04	CH
Oil	1950	100	500.0	mg/Kg	01/08/04	CH
8082 - Polychlorinated Biphenyls (PCBs) by GC						
PCB-1016	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1221	ND	1	0.06	mg/Kg	01/09/04	SD
PCB-1232	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1242	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1248	ND	1	0.08	mg/Kg	01/09/04	SD
PCB-1254	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1260	0.33	1	0.03	mg/Kg	01/09/04	SD
Surrogates				**Units**	**Control Limits**	
DCB(Sur)	98			%	50 - 135	

= Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 488706 **Client:** Meredith & Associates, Inc
Matrix: SOLID **Client Sample ID:** B-3-2'
Date Sampled: 01/06/2004
Time Sampled: 10:12
S[illegible]led By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
6010B ICP Metals - Solid/Liquid						
Chromium	11.9	1	1.0	mg/Kg	01/09/04	KN
Lead	6.46	1	0.5	mg/Kg	01/09/04	KN
8015 TEPH Fingerprint						
Diesel	93	10	30.0	mg/Kg	01/08/04	CH
Oil	635	50	250.0	mg/Kg	01/08/04	CH
8082 - Polychlorinated Biphenyls (PCBs) by GC						
PCB-1016	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1221	ND	1	0.06	mg/Kg	01/09/04	SD
PCB-1232	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1242	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1248	ND	1	0.08	mg/Kg	01/09/04	SD
PCB-1254	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1260	ND	1	0.03	mg/Kg	01/09/04	SD
Surrogates				**Units**	**Control Limits**	
DCB(Sur)	104			%	50 - 135	

[illegible] = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 488707 **Client:** Meredith & Associates, Inc
Matrix: SOLID **Client Sample ID:** B-3-5'
Date Sampled: 01/06/2004
Time Sampled: 10:18
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
6010B ICP Metals - Solid/Liquid						
Chromium	12.9	1	1.0	mg/Kg	01/09/04	KN
Lead	2.02	1	0.5	mg/Kg	01/09/04	KN
8015 TEPH Fingerprint						
Diesel	ND	1	3	mg/Kg	01/09/04	CH
Oil	ND	1	5	mg/Kg	01/09/04	CH
8082 - Polychlorinated Biphenyls (PCBs) by GC						
PCB-1016	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1221	ND	1	0.06	mg/Kg	01/09/04	SD
PCB-1232	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1242	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1248	ND	1	0.08	mg/Kg	01/09/04	SD
PCB-1254	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1260	ND	1	0.03	mg/Kg	01/09/04	SD
Surrogates				**Units**	**Control Limits**	
DCB(Sur)	103			%	50 - 135	

= Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 488709
Matrix: SOLID
Date Sampled: 01/06/2004
Time Sampled: 10:38
Sampled By:

Client: Meredith & Associates, Inc
Client Sample ID: B-4-3"

Analyte	Result	DF	DLR	Units	Date/Analyst	
6010B ICP Metals - Solid/Liquid						
Chromium	18.5	1	1.0	mg/Kg	01/09/04	KN
Lead	14.6	1	0.5	mg/Kg	01/09/04	KN
8015 TEPH Fingerprint						
Diesel	ND	50	150.0	mg/Kg	01/09/04	CH
Oil	1500	50	250.0	mg/Kg	01/09/04	CH
8082 - Polychlorinated Biphenyls (PCBs) by GC						
PCB-1016	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1221	ND	1	0.06	mg/Kg	01/09/04	SD
PCB-1232	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1242	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1248	ND	1	0.08	mg/Kg	01/09/04	SD
PCB-1254	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1260	0.077	1	0.03	mg/Kg	01/09/04	SD
Surrogates				**Units**	**Control Limits**	
DCB(Sur)	100			%	50 - 135	

= Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 488710
Matrix: SOLID
Date Sampled: 01/06/2004
Time Sampled: 10:48
Sampled By:

Client: Meredith & Associates, Inc
Client Sample ID: B-4-2'

Analyte	Result	DF	DLR	Units	Date/Analyst	
6010B ICP Metals - Solid/Liquid						
Chromium	12.0	1	1.0	mg/Kg	01/09/04	KN
Lead	2.86	1	0.5	mg/Kg	01/09/04	KN
8015 TEPH Fingerprint						
Diesel	39	5	15.0	mg/Kg	01/09/04	CH
Oil	168	5	25.0	mg/Kg	01/09/04	CH
8082 - Polychlorinated Biphenyls (PCBs) by GC						
PCB-1016	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1221	ND	1	0.06	mg/Kg	01/09/04	SD
PCB-1232	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1242	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1248	ND	1	0.08	mg/Kg	01/09/04	SD
PCB-1254	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1260	ND	1	0.03	mg/Kg	01/09/04	SD
Surrogates				**Units**	**Control Limits**	
DCB(Sur)	99			%	50 - 135	

= Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 488712 **Client:** Meredith & Associates, Inc
Matrix: SOLID **Client Sample ID:** B-5-3"
Date Sampled: 01/06/2004
Time Sampled: 11:10
S[illegible]led By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
6010B ICP Metals - Solid/Liquid						
Chromium	15.5	1	1.0	mg/Kg	01/09/04	KN
Lead	33.5	1	0.5	mg/Kg	01/09/04	KN
8015 TEPH Fingerprint						
Diesel	544	10	30.0	mg/Kg	01/08/04	CH
Oil	964	50	250.0	mg/Kg	01/08/04	CH
8082 - Polychlorinated Biphenyls (PCBs) by GC						
PCB-1016	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1221	ND	1	0.06	mg/Kg	01/09/04	SD
PCB-1232	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1242	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1248	ND	1	0.08	mg/Kg	01/09/04	SD
PCB-1254	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1260	0.42	1	0.03	mg/Kg	01/09/04	SD
Surrogates				**Units**	**Control Limits**	
DCB(Sur)	104			%	50 - 135	

[illegible] = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 488713 **Client:** Meredith & Associates, Inc
Matrix: SOLID **Client Sample ID:** B-5-2'
Date Sampled: 01/06/2004
Time Sampled: 11:12
S led By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
6010B ICP Metals - Solid/Liquid						
Chromium	11.9	1	1.0	mg/Kg	01/09/04	KN
Lead	1.58	1	0.5	mg/Kg	01/09/04	KN
8015 TEPH Fingerprint						
Diesel	ND	1	3	mg/Kg	01/08/04	CH
Oil	ND	1	5	mg/Kg	01/08/04	CH
8082 - Polychlorinated Biphenyls (PCBs) by GC						
PCB-1016	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1221	ND	1	0.06	mg/Kg	01/09/04	SD
PCB-1232	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1242	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1248	ND	1	0.08	mg/Kg	01/09/04	SD
PCB-1254	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1260	ND	1	0.03	mg/Kg	01/09/04	SD
Surrogates				**Units**	**Control Limits**	
DCB(Sur)	102			%	50 - 135	

= Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 488715 **Client:** Meredith & Associates, Inc
Matrix: SOLID **Client Sample ID:** B-6-3"
Date Sampled: 01/06/2004
Time Sampled: 11:35
S[illegible]ed By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
6010B ICP Metals - Solid/Liquid						
Chromium	12.2	1	1.0	mg/Kg	01/09/04	KN
Lead	6.75	1	0.5	mg/Kg	01/09/04	KN
8015 TEPH Fingerprint						
Diesel	90	1	3	mg/Kg	01/08/04	CH
Oil	1390	1	5	mg/Kg	01/08/04	CH
8082 - Polychlorinated Biphenyls (PCBs) by GC						
PCB-1016	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1221	ND	1	0.06	mg/Kg	01/09/04	SD
PCB-1232	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1242	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1248	ND	1	0.08	mg/Kg	01/09/04	SD
PCB-1254	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1260	0.11	1	0.03	mg/Kg	01/09/04	SD
Surrogates				**Units**	**Control Limits**	
DCB(Sur)	107			%	50 - 135	

L[illegible] = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 488716 **Client:** Meredith & Associates, Inc
Matrix: SOLID **Client Sample ID:** B-6-2'
Date Sampled: 01/06/2004
Time Sampled: 11:38
S' ied By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
6010B ICP Metals - Solid/Liquid						
Chromium	12.5	1	1.0	mg/Kg	01/09/04	KN
Lead	2.12	1	0.5	mg/Kg	01/09/04	KN
8015 TEPH Fingerprint						
Diesel	ND	1	3	mg/Kg	01/09/04	CH
Oil	ND	1	5	mg/Kg	01/09/04	CH
8082 - Polychlorinated Biphenyls (PCBs) by GC						
PCB-1016	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1221	ND	1	0.06	mg/Kg	01/09/04	SD
PCB-1232	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1242	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1248	ND	1	0.08	mg/Kg	01/09/04	SD
PCB-1254	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1260	ND	1	0.03	mg/Kg	01/09/04	SD
Surrogates				**Units**	**Control Limits**	
DCB(Sur)	105			%	50 - 135	

= Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 488717 **Client:** Meredith & Associates, Inc
Matrix: SOLID **Client Sample ID:** B-6-2' Dup
Date Sampled: 01/06/2004
Time Sampled: 11:38
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
6010B ICP Metals - Solid/Liquid						
Chromium	12.1	1	1.0	mg/Kg	01/09/04	KN
Lead	1.88	1	0.5	mg/Kg	01/09/04	KN
8015 TEPH Fingerprint						
Diesel	ND	1	3	mg/Kg	01/09/04	CH
Oil	ND	1	5	mg/Kg	01/09/04	CH
8082 - Polychlorinated Biphenyls (PCBs) by GC						
PCB-1016	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1221	ND	1	0.06	mg/Kg	01/09/04	SD
PCB-1232	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1242	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1248	ND	1	0.08	mg/Kg	01/09/04	SD
PCB-1254	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1260	ND	1	0.03	mg/Kg	01/09/04	SD
Surrogates				**Units**	**Control Limits**	
DCB(Sur)	111			%	50 - 135	

L = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 488719
Matrix: SOLID
Date Sampled: 01/06/2004
Time Sampled:
Sampled By:

Client: Meredith & Associates, Inc
Client Sample ID: Comp 28
Sample Description: B-59-3 / B-58-3 / B-57-3 / B-62-3 / B-61-3 / B-60-3 / B-65-3 / B-64-3 / B-63-3

Analyte	Result	DF	DLR	Units	Date/Analyst	
1311/6010B TCLP (ICP Metals)						
Lead TCLP	0.076	1	0.05	mg/L	01/16/04	KN
6010 STLC (16 ICP Metals)						
Lead, STLC	5.84	10	0.05	mg/L	01/16/04	KN
6010B ICP Metals - Solid/Liquid						
Chromium	26.0	1	1.0	mg/Kg	01/09/04	KN
Lead	186	1	0.5	mg/Kg	01/09/04	KN
8015 TEPH Fingerprint						
Diesel	1010	100	300.0	mg/Kg	01/12/04	CH
Oil	1700	100	500.0	mg/Kg	01/12/04	CH
8082 - Polychlorinated Biphenyls (PCBs) by GC						
PCB-1016	ND	100	3.0	mg/Kg	01/09/04	RB
PCB-1221	ND	100	6.0	mg/Kg	01/09/04	RB
PCB-1232	ND	100	5.0	mg/Kg	01/09/04	RB
PCB-1242	ND	100	5.0	mg/Kg	01/09/04	RB
PCB-1248	ND	100	8.0	mg/Kg	01/09/04	RB
PCB-1254	ND	100	3.0	mg/Kg	01/09/04	RB
PCB-1260	56	100	3.0	mg/Kg	01/09/04	RB
Surrogates				**Units**	**Control Limits**	
DCB(Sur)	114			%	50 - 135	

I = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 488720
Matrix: SOLID
Date Sampled: 01/06/2004
Time Sampled:
S led By:

Client: Meredith & Associates, Inc
Client Sample ID: Comp 29
Sample Description: B-59-2 / B-58-2 / B-57-2 / B-62-2 / B-61-2 / B-60-2 / B-65-2 / B-64-2 / B-63-2

Analyte	Result	DF	DLR	Units	Date/Analyst	
6010B ICP Metals - Solid/Liquid						
Chromium	11.2	1	1.0	mg/Kg	01/09/04	KN
Lead	1.67	1	0.5	mg/Kg	01/09/04	KN
8015 TEPH Fingerprint						
Diesel	ND	1	3	mg/Kg	01/09/04	CH
Oil	ND	1	5	mg/Kg	01/09/04	CH
8082 - Polychlorinated Biphenyls (PCBs) by GC						
PCB-1016	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1221	ND	1	0.06	mg/Kg	01/09/04	SD
PCB-1232	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1242	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1248	ND	1	0.08	mg/Kg	01/09/04	SD
PCB-1254	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1260	ND	1	0.03	mg/Kg	01/09/04	SD
Surrogates				**Units**	**Control Limits**	
DCB(Sur)	110			%	50 - 135	

= Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 488721
Matrix: SOLID
Date Sampled: 01/06/2004
Time Sampled:
S[illegible]led By:

Client: Meredith & Associates, Inc
Client Sample ID: Comp 30
Sample Description: B-59-5 / B-58-5 / B-57-5 / B-62-5 / B-61-5 / B-60-5 / B-65-5 / B-64-5 / B-63-5

Analyte	Result	DF	DLR	Units	Date/Analyst	
6010B ICP Metals - Solid/Liquid						
Chromium	12.3	1	1.0	mg/Kg	01/09/04	KN
Lead	2.00	1	0.5	mg/Kg	01/09/04	KN
8015 TEPH Fingerprint						
Diesel	ND	1	3	mg/Kg	01/09/04	CH
Oil	ND	1	5	mg/Kg	01/09/04	CH
8082 - Polychlorinated Biphenyls (PCBs) by GC						
PCB-1016	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1221	ND	1	0.06	mg/Kg	01/09/04	SD
PCB-1232	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1242	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1248	ND	1	0.08	mg/Kg	01/09/04	SD
PCB-1254	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1260	ND	1	0.03	mg/Kg	01/09/04	SD
[illegible]rrogates				**Units**	**Control Limits**	
DCB(Sur)	108			%	50 - 135	

[illegible] = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 488722
Matrix: SOLID
Date Sampled: 01/06/2004
Time Sampled:
Sampled By:

Client: Meredith & Associates, Inc
Client Sample ID: Comp 23
Sample Description: B-42-2 / B-52-2 / B-53-2 / B-43-2

Analyte	Result	DF	DLR	Units	Date/Analyst	
6010B ICP Metals - Solid/Liquid						
Chromium	11.7	1	1.0	mg/Kg	01/09/04	KN
Lead	1.90	1	0.5	mg/Kg	01/09/04	KN
8015 TEPH Fingerprint						
Diesel	ND	1	3	mg/Kg	01/09/04	CH
Oil	60	1	5	mg/Kg	01/09/04	CH
8082 - Polychlorinated Biphenyls (PCBs) by GC						
PCB-1016	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1221	ND	1	0.06	mg/Kg	01/09/04	SD
PCB-1232	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1242	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1248	ND	1	0.08	mg/Kg	01/09/04	SD
PCB-1254	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1260	ND	1	0.03	mg/Kg	01/09/04	SD
Surrogates				**Units**	**Control Limits**	
DCB(Sur)	107			%	50 - 135	

= Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 488723
Matrix: SOLID
Date Sampled: 01/06/2004
Time Sampled:
Sampled By:

Client: Meredith & Associates, Inc
Client Sample ID: Comp 24
Sample Description: B-53-5 / B-52-5 / B-43-5 / B-42-5

Analyte	Result	DF	DLR	Units	Date/Analyst	
6010B ICP Metals - Solid/Liquid						
Chromium	13.8	1	1.0	mg/Kg	01/09/04	KN
Lead	2.34	1	0.5	mg/Kg	01/09/04	KN
8015 TEPH Fingerprint						
Diesel	ND	1	3	mg/Kg	01/09/04	CH
Oil	ND	1	5	mg/Kg	01/09/04	CH
8082 - Polychlorinated Biphenyls (PCBs) by GC						
PCB-1016	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1221	ND	1	0.06	mg/Kg	01/09/04	SD
PCB-1232	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1242	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1248	ND	1	0.08	mg/Kg	01/09/04	SD
PCB-1254	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1260	ND	1	0.03	mg/Kg	01/09/04	SD
Surrogates				**Units**	**Control Limits**	
DCB(Sur)	106			%	50 - 135	

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

Order #: 488724
Matrix: SOLID
Date Sampled: 01/06/2004
Time Sampled: 08:49
Sa[illegible]led By:

Client: Meredith & Associates, Inc
Client Sample ID: B-83-3"

Analyte	Result	DF	DLR	Units	Date/Analyst	
6010B ICP Metals - Solid/Liquid						
Chromium	13.5	1	1.0	mg/Kg	01/09/04	KN
Lead	44.5	1	0.5	mg/Kg	01/09/04	KN
8015 TEPH Fingerprint						
Diesel	ND	1	3	mg/Kg	01/10/04	CH
Oil	242	4	20.0	mg/Kg	01/10/04	CH
8082 - Polychlorinated Biphenyls (PCBs) by GC						
PCB-1016	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1221	ND	1	0.06	mg/Kg	01/09/04	SD
PCB-1232	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1242	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1248	ND	1	0.08	mg/Kg	01/09/04	SD
PCB-1254	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1260	0.13	1	0.03	mg/Kg	01/09/04	SD
[illegible]rogates				**Units**	**Control Limits**	
DCB(Sur)	114			%	50 - 135	

[illegible] = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 488846
Matrix: SOLID
Date Sampled: 01/06/2004
Time Sampled: 08:58
Sampled By:

Client: Meredith & Associates, Inc
Client Sample ID: B-83-2'

Analyte	Result	DF	DLR	Units	Date/Analyst	
6010B ICP Metals - Solid/Liquid						
Chromium	12.7	1	1.0	mg/Kg	01/09/04	KN
Lead	2.13	1	0.5	mg/Kg	01/09/04	KN
8015 TEPH Fingerprint						
Diesel	ND	1	3	mg/Kg	01/07/04	CH
Oil	ND	1	5	mg/Kg	01/07/04	CH
8082 - Polychlorinated Biphenyls (PCBs) by GC						
PCB-1016	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1221	ND	1	0.06	mg/Kg	01/09/04	SD
PCB-1232	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1242	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1248	ND	1	0.08	mg/Kg	01/09/04	SD
PCB-1254	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1260	ND	1	0.03	mg/Kg	01/09/04	SD
Surrogates				**Units**	**Control Limits**	
DCB(Sur)	110			%	50 - 135	

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

Order #: 488847 **Client:** Meredith & Associates, Inc
Matrix: SOLID **Client Sample ID:** B-83-5'
Date Sampled: 01/06/2004
Time Sampled: 09:05
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
6010B ICP Metals - Solid/Liquid						
Chromium	19.2	1	1.0	mg/Kg	01/09/04	KN
Lead	1.25	1	0.5	mg/Kg	01/09/04	KN
8015 TEPH Fingerprint						
Diesel	ND	1	3	mg/Kg	01/07/04	CH
Oil	ND	1	5	mg/Kg	01/07/04	CH
8082 - Polychlorinated Biphenyls (PCBs) by GC						
PCB-1016	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1221	ND	1	0.06	mg/Kg	01/09/04	SD
PCB-1232	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1242	ND	1	0.05	mg/Kg	01/09/04	SD
PCB-1248	ND	1	0.08	mg/Kg	01/09/04	SD
PCB-1254	ND	1	0.03	mg/Kg	01/09/04	SD
PCB-1260	ND	1	0.03	mg/Kg	01/09/04	SD
Surrogates				**Units**	**Control Limits**	
DCB(Sur)	113			%	50 - 135	

= Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 488848 **Client:** Meredith & Associates, Inc
Matrix: SOLID **Client Sample ID:** Laboratory Method Blank
Date Sampled:
Time Sampled:
S led By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
1311/6010B TCLP (ICP Metals)						
Lead TCLP	ND	1	0.05	mg/L	01/16/04	KN
6010 STLC (16 ICP Metals)						
Lead, STLC	ND	10	0.05	mg/L	01/16/04	KN
6010B ICP Metals - Solid/Liquid						
Chromium	ND	1	1.00	mg/Kg	01/09/04	KN
Lead	ND	1	0.50	mg/Kg	01/09/04	KN
8015 TEPH Fingerprint						
Diesel	ND	1	3	mg/Kg	01/07/04	CH
Oil	ND	1	5	mg/Kg	01/07/04	CH
8 · Polychlorinated Biphenyls (PCBs) by GC						
PCB-1016	ND	1	0.03	mg/Kg	01/08/04	SD
PCB-1221	ND	1	0.06	mg/Kg	01/08/04	SD
PCB-1232	ND	1	0.05	mg/Kg	01/08/04	SD
PCB-1242	ND	1	0.05	mg/Kg	01/08/04	SD
PCB-1248	ND	1	0.08	mg/Kg	01/08/04	SD
PCB-1254	ND	1	0.03	mg/Kg	01/08/04	SD
PCB-1260	ND	1	0.03	mg/Kg	01/08/04	SD

Surrogates		Units	Control Limits
DCB(Sur)	106	%	50 - 135

= Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 122255-488414 QC# 011604stlc1

Matrix: STLC

Prep. Date: 01/16/04

Analysis Date: 01/16/04

Lab ID#'s in Batch: LR 122255, 122329, 122693

REPORTING UNITS = mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	6010	10.80		10	20.40	20.00	96	92	2
Chromium	6010	0.19		10	9.30	9.44	91	93	1
Copper	6010	1.22		10	10.30	10.50	91	93	2

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - 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 = 75 -125
RPD LIMITS = 20

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 122255-488414 QC# 011604tclp1

Matrix: TCLP

Prep. Date: 01/16/04

Analysis Date: 01/16/04

Lab ID#'s in Batch: LR 122255, 122329

REPORTING UNITS = mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Chromium	6010	0.05	U	1	0.98	1.03	98	103	5
Lead	6010	0.71		1	1.60	1.74	89	103	8

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - 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 = 75 -125
RPD LIMITS = 20

LCS/MB REPORT FORM

LCS Source(s) : QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank MB	Method Blank ND
Chromium	6010	1.95	2	98	80%	120%	0.05	U
Lead	6010	1.83	2	92	80%	120%	0.05	U

*Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True*

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Method Blank; ND = " U " for Non- Detected

ASSOCIATED LABORATORIES
6 North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Meredith & Associates, Inc (10577)
ATTN: Keith Farrell
9841 Airport Blvd.
Suite 1010
Los Angeles, CA 90045-5409

LAB REQUEST 122460
REPORTED 01/15/2004
RECEIVED 01/07/2004

PROJECT Dico Oil

SUBMITTER Client

COMMENTS Added STLC Lead to order #489194 on 1-23-04.

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.	Client Sample Identification
489191	Composite 40
489192	Composite 2
489193	Composite 41
489194	Composite 3
489195	Composite 45
489196	Composite 46
489197	Composite 46 Dup
489198	Composite 47
489199	Composite 48
489200	B-27-15.5
489201	B-27-17.5
489202	B-27-19.5
489203	B-28-15.5
489204	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.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 489191 **Client Sample ID**: Composite 40

Matrix: SOLID **Sample Description:** B-7-2 / B-8-2 / B-9-2

Date Sampled: 01/07/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	9.88	1	1.0	0.14	mg/Kg	01/13/04 KN
6010B	Lead	2.99	1	0.5	0.16	mg/Kg	01/13/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/12/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/12/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/12/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/12/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/12/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/12/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/12/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	123				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	01/11/04 AF
8015	Oil	6.0	1	5		mg/Kg	01/11/04 AF

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489192 **Client Sample ID:** Composite 2

Matrix: SOLID **Sample Description:** B-17-2 / B-18-2 / B-19-2 / B-27-2 / B-28-2 / B-29-2

Date Sampled: 01/07/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	12.3	1	1.0	0.14	mg/Kg	01/13/04 KN
6010B	Lead	22.8	1	0.5	0.16	mg/Kg	01/13/04 KN
8082	PCB-1016	ND	2	0.06	0.003	mg/Kg	01/12/04 RB
8082	PCB-1221	ND	2	0.12	0.006	mg/Kg	01/12/04 RB
8082	PCB-1232	ND	2	0.1	0.004	mg/Kg	01/12/04 RB
8082	PCB-1242	0.57	2	0.1	0.002	mg/Kg	01/12/04 RB
8082	PCB-1248	ND	2	0.16	0.008	mg/Kg	01/12/04 RB
8082	PCB-1254	0.50	2	0.06	0.001	mg/Kg	01/12/04 RB
8082	PCB-1260	1.3	2	0.06	0.002	mg/Kg	01/12/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	101				%	50 - 135
8015	Diesel	9100	500	1500.0	0.7	mg/Kg	01/14/04 AF
8015	Oil	3600	500	2500.0		mg/Kg	01/14/04 AF

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489193 **Client Sample ID**: Composite 41

Matrix: SOLID **Sample Description:** B-7-5 / B-8-5 / B-9-5

Date Sampled: 01/07/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	10.5	1	1.0	0.14	mg/Kg	01/13/04 KN
6010B	Lead	1.71	1	0.5	0.16	mg/Kg	01/13/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/12/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/12/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/12/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/12/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/12/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/12/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/12/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	117				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	01/11/04 AF
8015	Oil	ND	1	5		mg/Kg	01/11/04 AF

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489194 **Client Sample ID:** Composite 3

Matrix: SOLID **Sample Description:** B-17-5 / B-18-5 / B-19-5 / B-27-5 / B-28-5 / B-29-5

Date Sampled: 01/07/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	17.6	1	1.0	0.14	mg/Kg	01/13/04 KN
6010B	Lead	85.2	1	0.5	0.16	mg/Kg	01/13/04 KN
6010/STLC	Lead, STLC	2.82	10	0.05	0.002	mg/L	01/26/04 KN
8082	PCB-1016	ND	50	1.5	0.003	mg/Kg	01/12/04 RB
8082	PCB-1221	ND	50	3.0	0.006	mg/Kg	01/12/04 RB
8082	PCB-1232	ND	50	2.5	0.004	mg/Kg	01/12/04 RB
8082	PCB-1242	ND	50	2.5	0.002	mg/Kg	01/12/04 RB
8082	PCB-1248	ND	50	4.0	0.008	mg/Kg	01/12/04 RB
8082	PCB-1254	ND	50	1.5	0.001	mg/Kg	01/12/04 RB
8082	PCB-1260	46	50	1.5	0.002	mg/Kg	01/12/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	103				%	50 - 135
8015	Diesel	14400	500	1500.0	0.7	mg/Kg	01/14/04 AF
8015	Oil	10900	500	2500.0		mg/Kg	01/14/04 AF

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489196 **Client Sample ID:** Composite 46

Matrix: SOLID **Sample Description:** B-17-9.5 / B-18-9.5 / B-27-9.5 / B-28-9.5 / B-29-9.5

Date Sampled: 01/07/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	16.3	1	1.0	0.14	mg/Kg	01/13/04 KN
6010B	Lead	26.2	1	0.5	0.16	mg/Kg	01/13/04 KN
8082	PCB-1016	ND	2	0.06	0.003	mg/Kg	01/12/04 RB
8082	PCB-1221	ND	2	0.12	0.006	mg/Kg	01/12/04 RB
8082	PCB-1232	ND	2	0.1	0.004	mg/Kg	01/12/04 RB
8082	PCB-1242	0.49	2	0.1	0.002	mg/Kg	01/12/04 RB
8082	PCB-1248	ND	2	0.16	0.008	mg/Kg	01/12/04 RB
8082	PCB-1254	0.53	2	0.06	0.001	mg/Kg	01/12/04 RB
8082	PCB-1260	0.94	2	0.06	0.002	mg/Kg	01/12/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	109				%	50 - 135
8015	Diesel	14400	500	1500.0	0.7	mg/Kg	01/14/04 AF
8015	Oil	5030	500	2500.0		mg/Kg	01/14/04 AF

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489197 **Client Sample ID**: Composite 46 Dup

Matrix: SOLID **Sample Description:** B-17-9.5 / B-18-9.5 / B-27-9.5 / B-28-9.5 / B-29-9.5

Date Sampled: 01/07/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	16.3	1	1.0	0.14	mg/Kg	01/13/04 KN
6010B	Lead	30.0	1	0.5	0.16	mg/Kg	01/13/04 KN
8082	PCB-1016	ND	2	0.06	0.003	mg/Kg	01/12/04 RB
8082	PCB-1221	ND	2	0.12	0.006	mg/Kg	01/12/04 RB
8082	PCB-1232	ND	2	0.1	0.004	mg/Kg	01/12/04 RB
8082	PCB-1242	0.46	2	0.1	0.002	mg/Kg	01/12/04 RB
8082	PCB-1248	ND	2	0.16	0.008	mg/Kg	01/12/04 RB
8082	PCB-1254	0.46	2	0.06	0.001	mg/Kg	01/12/04 RB
8082	PCB-1260	0.81	2	0.06	0.002	mg/Kg	01/12/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	105				%	50 - 135
8015	Diesel	13800	500	1500.0	0.7	mg/Kg	01/14/04 AF
8015	Oil	3300	500	2500.0		mg/Kg	01/14/04 AF

EC Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
NL Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489199 **Client Sample ID:** Composite 48

Matrix: SOLID **Sample Description:** B-17-13.5 / B-18-13.5 / B-27-13.5 / B-28-13.5

Date Sampled: 01/07/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	11.6	1	1.0	0.14	mg/Kg	01/13/04 KN
6010B	Lead	1.53	1	0.5	0.16	mg/Kg	01/13/04 KN
8082	PCB-1016	ND	2	0.06	0.003	mg/Kg	01/13/04 RB
8082	PCB-1221	ND	2	0.12	0.006	mg/Kg	01/13/04 RB
8082	PCB-1232	ND	2	0.1	0.004	mg/Kg	01/13/04 RB
8082	PCB-1242	0.35	2	0.1	0.002	mg/Kg	01/13/04 RB
8082	PCB-1248	ND	2	0.16	0.008	mg/Kg	01/13/04 RB
8082	PCB-1254	0.34	2	0.06	0.001	mg/Kg	01/13/04 RB
8082	PCB-1260	0.07	2	0.06	0.002	mg/Kg	01/13/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	113				%	50 - 135
8015	Diesel	2220	50	150.0	0.7	mg/Kg	01/14/04 AF
8015	Oil	300	50	250.0		mg/Kg	01/14/04 AF

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489204 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	ND	1	1.00	0.14	mg/Kg	01/13/04 KN
6010B	Lead	ND	1	0.50	0.16	mg/Kg	01/13/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/12/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/12/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/12/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/12/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/12/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/12/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/12/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	116				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	01/11/04 AF
8015	Oil	ND	1	5		mg/Kg	01/11/04 AF

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

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QA REPORT FORM (MS/MSD)

QC Sample: LR 122547-489499 QC# 012604STLC1

Matrix: STLC

Prep. Date: 01/26/04

Analysis Date: 01/26/04

Lab ID#'s in Batch: LR 122547, 123061, 122709, 122549, 122460, 123150, 122589, 118885

REPORTING UNITS = mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	6010	4.73		10	13.40	13.50	87	88	1
Copper	6010	0.70		10	10.10	9.97	94	93	1
Arsenic	6010	0.50	U	10	9.60	9.70	96	97	1
Cadmium	6010	1.00	U	10	9.80	9.70	98	97	1
Chromium	6010	1.00	U	10	9.20	9.02	92	90	2

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - 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 = 75 -125
RPD LIMITS = 20

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806 N. Batavia • Orange, CA 92868
(714) 771-6900 • Fax: (714) 538-1209

122460

CHAIN OF CUSTODY RECORD

Date 1/7/04 Page 1 of 4

CLIENT M&A
ADDRESS 9841 AIRPORT BLVD SUITE 1010
LOS ANGELES CA

PROJECT MANAGER Leith Farrell
PHONE NUMBER

Samples Intact Yes ✓ No ____
County Seals Intact Yes ____ No ____
Sample Ambient ____ Cooled ✓ Frozen ____
Same Day ____ 24 Hr. ____
Regular ✓ 48 Hr. ____

PROJECT NAME DCO O.1
SAMPLERS: (Signature) [signature]

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE WATER	AIR	SOLID	NO OF CNTNRS	SUSP. CONTAM.	TESTS REQUIRED
B-7-2'	~~Comp 2~~ Comp 40	1/7/04	854			✓	1		Pb, Cr, PCB, TPH (cd)
B-8-2'	~~Comp 2~~		840						
B-9-2'	30		835						
B-17-2'	Comp 2		1314						
B-18-2'			918						
B-19-2'			909						
B-27-2'			1022						
B-28-2'			1400						
B-29-2'			1415						
B-7-5'	Comp ~~3~~ 41		856						
B-8-5'			846						
B-9-5'			837						
B-17-5'	Comp 3		1320						

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
[signature]	Tom Visserhader	1/7/04
Relinquished by: (Signature)	Received by Laboratory for analysis: (Signature)	Date/Time 1/7 5:30

Special Instructions:

I hereby authorize the performance of the above indicated work.

[signature]

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CHAIN OF CUSTODY RECORD

Date 1/7/04 Page 2 of 4

CLIENT M&A
ADDRESS 9841 Airport Blvd Suite 1010
Los Angeles CA

PROJECT MANAGER Keith Farrell
PHONE NUMBER (310) 670-9221
SAMPLERS: (Signature) [signature]

PROJECT NAME Dico Oil

Samples Intact Yes ✓ No ___
County Seals Intact Yes ___ No ✓
Sample Ambient ✓ Cooled ___ Frozen ___
Same Day ___ 24 Hr. ___
Regular ✓ 48 Hr. ___

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE WATER	AIR	SOLID	NO OF CNTNRS	SUSP. CONTAM.	TESTS REQUIRED
B-18-5'	Comp 3	1/7/04	922				1		PCBS, Lead, Chrome TPH O/D
B-19-5'			919				1		
B-27-5'			1028				1		
B-28-5'			1453				1		
B-29-5'			1428				1		
~~B-18-7½~~			~~929~~				1		~~PCBS, Lead, Chrome TPH O/D~~
~~B-18-9½~~			~~939~~ 938				1		
~~B-18-11½~~			~~939~~ 950						
~~B-18-13½~~			~~950~~ 1000						
ok ~~B-17-7½'~~	Comp 45		1325				1		hold
B-18-7½'			929				1		
B-27-7½'			1038				1		
B-28-7½			1500				1		

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
[signature]	Tom Vinsonhaler	1/7/04
Relinquished by: (Signature)	Received by Laboratory for analysis: (Signature) [signature]	Date/Time 1/7 5

Special Instructions:

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CHAIN OF CUSTODY RECORD

Date 1/7/04 Page 3 of 4

CLIENT M+A

ADDRESS

PROJECT NAME Dico Oil

PROJECT MANAGER Keith Farrell

PHONE NUMBER

SAMPLERS: (Signature) [signature]

Samples Intact Yes ✓ No ___
County Seals Intact Yes ___ No ✓
Sample Ambient ✓ Cooled ___ Frozen ___
Same Day ___ 24 Hr. ___
Regular ✓ 48 Hr. ___

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE WATER	AIR	SOLID	NO OF CNTNRS	SUSP. CONTAM.	TESTS REQUIRED
B-1827-13S	Comp48	1/7/04	106			✓	1		PCB, Pb, Cr, TPH(od)
B-28-13S	↓	↓	1530			↓	↓		↓
B-27-15S			1130						Hold
B-27-17S			1145						↓
B-27-19S		↓	1147			↓	↓		↓
B-28-15S									Hold

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
[signature]	Tom Vinson [signature]	1/7/04
Relinquished by: (Signature)	Received by Laboratory for analysis: (Signature) [signature]	Date/Time 1/7 5[illegible]

Special In[illegible]tions:

I hereby authorize the performance of the above indicated work.

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122460

CHAIN OF CUSTODY RECORD

Date 1/7/04 Page 4 of 4

CLIENT M&A
ADDRESS 9241 Airport Blvd Suite 1010
Los Angeles CA
PROJECT NAME

PROJECT MANAGER Keith Finnell
PHONE NUMBER (310) 670-9221
SAMPLERS: (Signature)

Samples Intact Yes ✓ No ___
County Seals Intact Yes ___ No ✓
Sample Ambient ✓ Cooled ___ Frozen ___
Same Day ___ 24 Hr. ___
Regular ✓ 48 Hr. ___

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE WATER	AIR	SOLID	NO OF CNTNRS	SUSP. CONTAM.	TESTS REQUIRED
B-29-7½'	Comp 45	1/7/04	1430						hold
B-17-9½'	Comp 46		1338						
B-18-9½'			938						
B-27-9.5			1043						PCBs, Lead, Chrome
B-28-9.5			510						TPH O/D
B-29-9.5			145						
B-17-11.5	Comp 47		1348						Hold
B-18-11.5			950						
B-27-11.5			1054						
B-28-11.5			1515						
~~B-29-11.5~~			—						
B-17-13.5	Comp 48		1400						PCBs, Lead, Chrome
B-18-13.5			100						TPH O/D

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
[signature]	Tom Vinsonhaler	1/7/04
Relinquished by: (Signature)	Received by Laboratory for analysis: (Signature)	Date/Time
	[signature]	1/7 5:30

Special Instructions:

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[signature]

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ASSOCIATED LABORATORIES
6 North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Meredith & Associates, Inc (10577)
ATTN: Keith Farrel
9841 Airport Blvd.
Suite 1010
Los Angeles, CA 90045-5409

LAB REQUEST 122530
REPORTED 01/15/2004
RECEIVED 01/08/2004

PROJECT Dico Oil

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.	Client Sample Identification
489448	Composite 50
489449	Composite 52
489450	Composite 49
489451	Composite 5
489452	Composite 51
489453	Composite 51 DUP
489454	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.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 489448 **Client Sample ID:** Composite 50

Matrix: SOLID **Sample Description:** B-10-2 / B-11-2 / B-20-2 / B-21-2

Date Sampled: 01/08/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	12.3	1	1.0	0.14	mg/Kg	01/12/04 KN
6010B	Lead	10.2	1	0.5	0.16	mg/Kg	01/12/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/12/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/12/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/12/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/12/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/12/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/12/04 RB
8082	PCB-1260	0.049	1	0.03	0.002	mg/Kg	01/12/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	108				%	50 - 135
8015	Diesel	ND	20	60.0	0.7	mg/Kg	01/12/04 AF
8015	Oil	300	20	100.0		mg/Kg	01/12/04 AF

EQ[illegible] - Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
NI[illegible] Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489449 **Client Sample ID**: Composite 52

Matrix: SOLID **Sample Description:** B-12-5 / B-13-5

Date Sampled: 01/08/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	10.8	1	1.0	0.14	mg/Kg	01/12/04 KN
6010B	Lead	1.47	1	0.5	0.16	mg/Kg	01/12/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/12/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/12/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/12/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/12/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/12/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/12/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/12/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	106				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	01/12/04 AF
8015	Oil	ND	1	5		mg/Kg	01/12/04 AF

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489450 **Client Sample ID:** Composite 49

Matrix: SOLID **Sample Description:** B-10-5 / B-11-5 / B-20-5 / B-21-5

Date Sampled: 01/08/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	14.1	1	1.0	0.14	mg/Kg	01/12/04 KN
6010B	Lead	2.21	1	0.5	0.16	mg/Kg	01/12/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/12/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/12/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/12/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/12/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/12/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/12/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/12/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	111				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	01/14/04 AF
8015	Oil	15	1	5		mg/Kg	01/14/04 AF

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489451 **Client Sample ID:** Composite 5

Matrix: SOLID **Sample Description:** B-30-2 / B-31-2

Date Sampled: 01/08/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	12.7	1	1.0	0.14	mg/Kg	01/12/04 KN
6010B	Lead	2.24	1	0.5	0.16	mg/Kg	01/12/04 KN
8082	PCB-1016	ND	2	0.06	0.003	mg/Kg	01/12/04 RB
8082	PCB-1221	ND	2	0.12	0.006	mg/Kg	01/12/04 RB
8082	PCB-1232	ND	2	0.1	0.004	mg/Kg	01/12/04 RB
8082	PCB-1242	1.4	2	0.1	0.002	mg/Kg	01/12/04 RB
8082	PCB-1248	ND	2	0.16	0.008	mg/Kg	01/12/04 RB
8082	PCB-1254	0.55	2	0.06	0.001	mg/Kg	01/12/04 RB
8082	PCB-1260	0.12	2	0.06	0.002	mg/Kg	01/12/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	106				%	50 - 135
8015	Diesel	5400	400	1200.0	0.7	mg/Kg	01/13/04 AF
8015	Oil	10700	400	2000.0		mg/Kg	01/13/04 AF

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489452 **Client Sample ID:** Composite 51

Matrix: SOLID **Sample Description:** B-12-2 / B-13-2

Date Sampled: 01/08/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	11.8	1	1.0	0.14	mg/Kg	01/12/04 KN
6010B	Lead	1.95	1	0.5	0.16	mg/Kg	01/12/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/12/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/12/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/12/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/12/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/12/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/12/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/12/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	106				%	50 - 135
8015	Diesel	3.2	1	3	0.7	mg/Kg	01/12/04 AF
8015	Oil	13	1	5		mg/Kg	01/12/04 AF

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489453 **Client Sample ID**: Composite 51 DUP

Matrix: SOLID **Sample Description:** B-12-2 / B-13-2

Date Sampled: 01/08/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	11.9	1	1.0	0.14	mg/Kg	01/12/04 KN
6010B	Lead	2.14	1	0.5	0.16	mg/Kg	01/12/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/12/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/12/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/12/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/12/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/12/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/12/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/12/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	108				%	50 - 135
8015	Diesel	3.0	1	3	0.7	mg/Kg	01/12/04 AF
8015	Oil	6.0	1	5		mg/Kg	01/12/04 AF

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489454 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	ND	1	1.00	0.14	mg/Kg	01/12/04 KN
6010B	Lead	ND	1	0.50	0.16	mg/Kg	01/12/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/12/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/12/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/12/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/12/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/12/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/12/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/12/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	116				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	01/11/04 AF
8015	Oil	ND	1	5		mg/Kg	01/11/04 AF

EQ[illegible] Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
NL[illegible] ot detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 122537-489478 QC# 011204SO1

Iatrix: SOLID

Prep. Date: 01/12/04

Analysis Date: 01/12/04

Lab ID#'s in Batch: LR 122537, 122530

REPORTING UNITS = mg/Kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	6010	0.74		93	93	90	99	96	3
Chromium	6010	3.38		93	98	95	102	99	3

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - 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 = 75 -125
RPD LIMITS = 20

LCS/MB REPORT FORM

LCS Source(s) : QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank MB	Method Blank ND
Lead	6010	180	200	90	80%	120%	0.50	U
Chromium	6010	189	200	95	80%	120%	1.00	U

*Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True*

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Method Blank; ND = " U " for Non- Detected

ASSOCIATED LABORATORIES
QA REPORT FORM

D...minative Method : EPA 8082 Preparative Method: EPA 3545

QC Sample: 122328-488693

Matrix: SOLID

Analysis Date: 1/9/04

Batch Date: 1/8/04 (pcb 010804s-2)

Applies to: LR 122328, LR 122460, LR 122530 and LR 122537

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULTS
REPORTING UNITS = mg/Kg

Test	Sample Result	Spike Added	Spike Recovered		% Rec		RPD	QC Limits	
			MS	MSD	MS	MSD		RPD	% Rec
Aroclor 1260	ND	0.500	0.515	0.514	103	103	0	35	50-125

ND = Not Detected
% Rec - MS & MSD = Percent Recovery from Matrix Spike & Matrix Spike Duplicate
RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate recoveries

LAB CONTROL SPIKE RECOVERY / METHOD BLANK
REPORTING UNITS = mg/Kg

Test	Spike Added	Spike Recovered	% Rec LCS	QC Limit
Aroclor 1260	0.500	0.542	108	70-130

Method Blank = All ND
% Rec - LCS = Percent Recovery from Lab Control Spike

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 122537-478

ix: SOLID

Extraction Method : 3545

Prep. Date: 01/10/04

Analysis Date: 01/11/04

ID#'s in Batch: LR 122537, 122460, 122530

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = mg/Kg

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
DIESEL	8015D	ND	25	20	20	80	80	0

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 = 70 - 130
RPD LIMITS = 30

PARATION BLANK / LAB CONTROL SAMPLE RESULTS

	PREP BLK					
	Value	Result	True	%Rec	L.Limit	H.Limit
LCS	ND	28	25	112	70%	130%
LCSD	ND	28	25	112	70%	130%

LCS Result = Lab Control Sample Result
True = True Value of LCS
L.Limit / H.Limit = LCS Control Limits

SURROGATE RECOVERY

Sample No.	O-Terphenyl
QC Limit	55-200
MS	131
MSD	141
Method Blank	146
LCS	160
LCSD	160

ASSOCIATED LABORATORIES
806 N. Batavia • Orange, CA 92868
(714) 771-6900 • Fax: (714) 538-1209

122530

CHAIN OF CUSTODY RECORD

Date 1/8/04 Page 1 of 1

CLIENT M+A
ADDRESS 9841 Airport Bl. Suite 1010
Los Angeles, CA 90045

PROJECT NAME Dico Oil

PROJECT MANAGER Keith Farrel
PHONE NUMBER (310) 670-9221
SAMPLERS: (Signature) Lynn Edmond

Samples Intact Yes ____ No ____
County Seals Intact Yes ____ No ____
Sample Ambient ____ Cooled ✓ Frozen ____
Same Day ____ 24 Hr. ____
Regular ✓ 48 Hr. ____

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE WATER	AIR	SOLID	NO OF CNTNRS	SUSP. CONTAM.	TESTS REQUIRED
B10-2'	Comp 50	1/8/04	1023			✓	1		PCB, Pb, Cr, TPH(od)
B-11-2'			1000						
B-20-2'			911						
B-21-2'			946						
B-12-5'	Comp 52		1042						
B-13-5'			1017						
B-10-5'	Comp 49		1028						
B-11-5'			1003						
B-20-5'			913						
B-21-5'			1050						
B-30-2'	Comp 5		827						
B-31-2'			751						
B-12-2'	Comp 51		1041						
B-13-2'			927						

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Lynn Edmond	Tom Visorhales	1/8/04 4:00 PM
Relinquished by: (Signature)	Received by Laboratory for analysis: (Signature)	Date/Time
Tom Visorhales	[signature]	1/8 5:30 pm

Special Instructions: fax results to Lynn @ 626-285-18
bill to Luis Marmol

I hereby authorize the performance of the above indicated work.

Lynn Edmond

DISTRIBUTION: White with report. Y[illegible] to AL, Pink to Courier

ASSOCIATED LABORATORIES
6 North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Meredith & Associates, Inc (10577)
ATTN: Keith Farrell
9841 Airport Blvd.
Suite 1010
Los Angeles, CA 90045-5409

LAB REQUEST 122589
REPORTED 01/21/2004
RECEIVED 01/09/2004

PROJECT Dico Oil

SUBMITTER Client

COMMENTS Added TCLP Lead and STLC Lead & Chromium to order #498633 on 1-22-04.

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.	Client Sample Identification
489632	Composite 17
489633	Composite 18
489634	Composite 6
489635	B-30-7.5
489636	B-37-7.5
489637	B-47-7.5
489638	B-20-7.5
489639	B-39-7.5
489640	B-38-7.5
489641	Composite 53
489642	Composite 53 DUP
489643	Composite 54
489644	B-30-11.5
489645	B-37-11.5
489646	B-38-11.5

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.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

ASSOCIATED LABORATORIES
6 North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Meredith & Associates, Inc (10577)
ATTN: Keith Farrell
9841 Airport Blvd.
Suite 1010
Los Angeles, CA 90045-5409

LAB REQUEST 122589
REPORTED 01/21/2004
RECEIVED 01/09/2004

PROJECT Dico Oil

SUBMITTER Client

COMMENTS Added TCLP Lead and STLC Lead & Chromium to order #498633 on 1-22-04.

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.	Client Sample Identification
489647	B-47-11.5
489648	B-30-13.5
489649	B-31-7.5
489650	B-47-17.5
489651	B-47-15.5
489652	B-37-15.5
489653	B-38-15.5
489654	B-49-15.5
489655	B-49-20
489656	B-48-19.5
489657	Composite 55
489658	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.

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TESTING & CONSULTING
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Environmental

Order #: 489632 **Client Sample ID:** Composite 17

Matrix: SOLID **Sample Description:** B-37-2 / B-38-2 / B-39-2 / B-47-2 / B-48-2 / B-49-2

Date Sampled: 01/08/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	18.2	1	1.0	0.14	mg/Kg	01/15/04 KN
6010B	Lead	49.3	1	0.5	0.16	mg/Kg	01/15/04 KN
8082	PCB-1016	ND	2	0.06	0.003	mg/Kg	01/17/04 RB
8082	PCB-1221	ND	2	0.12	0.006	mg/Kg	01/17/04 RB
8082	PCB-1232	ND	2	0.1	0.004	mg/Kg	01/17/04 RB
8082	PCB-1242	0.13	2	0.1	0.002	mg/Kg	01/17/04 RB
8082	PCB-1248	ND	2	0.16	0.008	mg/Kg	01/17/04 RB
8082	PCB-1254	ND	2	0.06	0.001	mg/Kg	01/17/04 RB
8082	PCB-1260	0.82	2	0.06	0.002	mg/Kg	01/17/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	116				%	50 - 135
8015	Diesel	1800	100	300.0	0.7	mg/Kg	01/14/04 AF
8015	Oil	2400	100	500.0		mg/Kg	01/14/04 AF

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489633 **Client Sample ID:** Composite 18

Matrix: SOLID **Sample Description:** B-37-5 / B-38-5 / B-39-5 / B-47-5 / B-48-5 / B-49-5

Date Sampled: 01/08/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	105	1	1.0	0.14	mg/Kg	01/15/04 KN
6010/STLC	Chromium, STLC	0.301	10	0.1	0.002	mg/L	01/26/04 KN
6010B	Lead	149	1	0.5	0.16	mg/Kg	01/15/04 KN
1311/6010	Lead TCLP	0.371	1	0.05	0.002	mg/L	01/26/04 KN
6010/STLC	Lead, STLC	0.965	10	0.05	0.002	mg/L	01/26/04 KN
8082	PCB-1016	ND	20	0.6	0.003	mg/Kg	01/19/04 RB
8082	PCB-1221	ND	20	1.2	0.006	mg/Kg	01/19/04 RB
8082	PCB-1232	ND	20	1.0	0.004	mg/Kg	01/19/04 RB
8082	PCB-1242	1.3	20	1.0	0.002	mg/Kg	01/19/04 RB
8082	PCB-1248	ND	20	1.6	0.008	mg/Kg	01/19/04 RB
8082	PCB-1254	ND	20	0.6	0.001	mg/Kg	01/19/04 RB
8082	PCB-1260	8.1	20	0.6	0.002	mg/Kg	01/19/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	115				%	50 - 135
8015	Diesel	2000	20	60.0	0.7	mg/Kg	01/14/04 AF
8015	Oil	3700	20	100.0		mg/Kg	01/14/04 AF

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
NL Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489634 **Client Sample ID**: Composite 6

Matrix: SOLID **Sample Description:** B-30-5 / B-31-5

Date Sampled: 01/08/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	14.2	1	1.0	0.14	mg/Kg	01/15/04 KN
6010B	Lead	2.44	1	0.5	0.16	mg/Kg	01/15/04 KN
8082	PCB-1016	ND	2	0.06	0.003	mg/Kg	01/17/04 RB
8082	PCB-1221	ND	2	0.12	0.006	mg/Kg	01/17/04 RB
8082	PCB-1232	ND	2	0.1	0.004	mg/Kg	01/17/04 RB
8082	PCB-1242	0.72	2	0.1	0.002	mg/Kg	01/17/04 RB
8082	PCB-1248	ND	2	0.16	0.008	mg/Kg	01/17/04 RB
8082	PCB-1254	ND	2	0.06	0.001	mg/Kg	01/17/04 RB
8082	PCB-1260	0.077	2	0.06	0.002	mg/Kg	01/17/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	112				%	50 - 135
8015	Diesel	2400	20	60.0	0.7	mg/Kg	01/14/04 AF
8015	Oil	1100	20	100.0		mg/Kg	01/14/04 AF

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489641 **Client Sample ID**: Composite 53

Matrix: SOLID **Sample Description:** B-30-9.5 / B-31-9.5

Date Sampled: 01/08/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	18.9	1	1.0	0.14	mg/Kg	01/15/04 KN
6010B	Lead	2.70	1	0.5	0.16	mg/Kg	01/15/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/17/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/17/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/17/04 RB
8082	PCB-1242	0.31	1	0.05	0.002	mg/Kg	01/17/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/17/04 RB
8082	PCB-1254	0.28	1	0.03	0.001	mg/Kg	01/17/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/17/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	109				%	50 - 135
8015	Diesel	1430	50	150.0	0.7	mg/Kg	01/14/04 AF
8015	Oil	700	50	250.0		mg/Kg	01/14/04 AF

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489642 **Client Sample ID:** Composite 53 DUP

Matrix: SOLID **Sample Description:** B-30-9.5 / B-31-9.5

Date Sampled: 01/08/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	19.7	1	1.0	0.14	mg/Kg	01/15/04 KN
6010B	Lead	2.80	1	0.5	0.16	mg/Kg	01/15/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/17/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/17/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/17/04 RB
8082	PCB-1242	0.34	1	0.05	0.002	mg/Kg	01/17/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/17/04 RB
8082	PCB-1254	0.18	1	0.03	0.001	mg/Kg	01/17/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/17/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	106				%	50 - 135
8015	Diesel	941	50	150.0	0.7	mg/Kg	01/15/04 AF
8015	Oil	500	50	250.0		mg/Kg	01/15/04 AF

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489643 **Client Sample ID:** Composite 54

Matrix: SOLID **Sample Description:** B-38-9.5 / B-39-9.5 / B-47-9.5 / B-49-9.5 / B-37-9.5

Date Sampled: 01/08/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	20.3	1	1.0	0.14	mg/Kg	01/15/04 KN
6010B	Lead	3.81	1	0.5	0.16	mg/Kg	01/15/04 KN
8082	PCB-1016	ND	2	0.06	0.003	mg/Kg	01/17/04 RB
8082	PCB-1221	ND	2	0.12	0.006	mg/Kg	01/17/04 RB
8082	PCB-1232	ND	2	0.1	0.004	mg/Kg	01/17/04 RB
8082	PCB-1242	1.5	2	0.1	0.002	mg/Kg	01/17/04 RB
8082	PCB-1248	ND	2	0.16	0.008	mg/Kg	01/17/04 RB
8082	PCB-1254	ND	2	0.06	0.001	mg/Kg	01/17/04 RB
8082	PCB-1260	0.24	2	0.06	0.002	mg/Kg	01/17/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	111				%	50 - 135
8015	Diesel	1200	20	60.0	0.7	mg/Kg	01/14/04 AF
8015	Oil	350	20	100.0		mg/Kg	01/14/04 AF

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
NL = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489657 **Client Sample ID:** Composite 55

Matrix: SOLID **Sample Description:** B-37-13.5 / B-38-13.5 / B-39-13.5 / B-47-13.5 / B-49-13.5

Date Sampled: 01/08/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	16.5	1	1.0	0.14	mg/Kg	01/16/04 KN
6010B	Lead	2.09	1	0.5	0.16	mg/Kg	01/16/04 KN
8082	PCB-1016	ND	2	0.06	0.003	mg/Kg	01/19/04 RB
8082	PCB-1221	ND	2	0.12	0.006	mg/Kg	01/19/04 RB
8082	PCB-1232	ND	2	0.1	0.004	mg/Kg	01/19/04 RB
8082	PCB-1242	2.3	2	0.1	0.002	mg/Kg	01/19/04 RB
8082	PCB-1248	ND	2	0.16	0.008	mg/Kg	01/19/04 RB
8082	PCB-1254	ND	2	0.06	0.001	mg/Kg	01/19/04 RB
8082	PCB-1260	0.14	2	0.06	0.002	mg/Kg	01/19/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	106				%	50 - 135
8015	Diesel	2350	200	600.0	0.7	mg/Kg	01/15/04 AF
8015	Oil	10200	50	250.0		mg/Kg	01/15/04 AF

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489658 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	ND	1	1.00	0.14	mg/Kg	01/15/04 KN
6010B	Lead	ND	1	0.50	0.16	mg/Kg	01/15/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/17/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/17/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/17/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/17/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/17/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/17/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/17/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	101				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	01/14/04 AF
8015	Oil	ND	1	5		mg/Kg	01/14/04 AF

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 122547-489499 QC# 012604STLC1

Matrix: STLC

Prep. Date: 01/26/04

Analysis Date: 01/26/04

Lab ID#'s in Batch: LR 122547, 123061, 122709, 122549, 122460, 123150, 122589, 118885

REPORTING UNITS = mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	6010	4.73		10	13.40	13.50	87	88	1
Copper	6010	0.70		10	10.10	9.97	94	93	1
Arsenic	6010	0.50	U	10	9.60	9.70	96	97	1
Cadmium	6010	1.00	U	10	9.80	9.70	98	97	1
Chromium	6010	1.00	U	10	9.20	9.02	92	90	2

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - 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 = 75 -125
RPD LIMITS = 20

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 122547-489499 QC# 012304tclp1

Matrix: Water

Prep. Date: 01/23/04

Analysis Date: 01/26/04

Lab ID#'s in Batch: LR 122547, 123150, 122708, 123353, 122589

REPORTING UNITS = mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Arsenic	6010	0.05	U	1.0	0.86	0.91	86	91	6
Selenium	6010	0.01		1.0	0.96	1.02	95	101	6
Lead	* 6010	1.97		1.0	2.58	2.67	61	70	3
Barium	* 6010	1.61		1.0	2.27	2.37	66	76	4
Cadmium	6010	0.05	U	1.0	0.83	0.88	83	88	6
Chromium	6010	0.05	U	1.0	0.77	0.80	77	80	4
Silver	6010	0.05	U	0.5	0.39	0.41	78	82	5
Copper	6010	0.260		1.0	1.03	1.08	77	82	5

*** = Outside QC limits, due to matrix Interference**

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - 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 = 75 -125
RPD LIMITS = 20

LCS/MB REPORT FORM

LCS Source(s) : QC21-LOT#QC2/22/01;QC7-LOT7A13/05

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank MB	Method Blank ND
Arsenic	6010	1.76	2	88	80%	120%	0.05	U
Selenium	6010	1.93	2	97	80%	120%	0.05	U
Lead	6010	1.79	2	90	80%	120%	0.05	U
Barium	6010	1.80	2	90	80%	120%	0.10	U
Cadmium	6010	2.01	2	101	80%	120%	0.05	U
Chromium	6010	1.81	2	91	80%	120%	0.05	U
Silver	6010	0.88	1	88	80%	120%	0.05	U
Copper	6010	1.89	2	95	80%	120%	0.01	U

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 122537-478

ix: SOLID

Extraction Method : 3545

Prep. Date: 01/13/04

Analysis Date: 01/14/04

ID#'s in Batch: LR 122589, 122613, 122720

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = mg/Kg

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
DIESEL	8015D	ND	25	18	18	72	72	0

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 = 70 - 130
RPD LIMITS = 30

PARATION BLANK / LAB CONTROL SAMPLE RESULTS

	PREP BLK					
	Value	Result	True	%Rec	L.Limit	H.Limit
LCS	ND	19	25	77	70%	130%
LCSD	ND	21	25	85	70%	130%

LCS Result = Lab Control Sample Result
True = True Value of LCS
L.Limit / H.Limit = LCS Control Limits

SURROGATE RECOVERY

Sample No.	O-Terphenyl
QC Limit	55-200
MS	98
MSD	96
Method Blank	84
S	193
LCSD	135

ASSOCIATED LABORATORIES
QA REPORT FORM

Determinative Method : EPA 8082 Preparative Method: EPA 3545

QC Sample: 122709-490224

Matrix: SOLID

Analysis Date: 1/17/04

Batch Date: 1/14/04 (pcb 011404s)

Applies to: LR 122589, LR 122708 and LR 122709

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULTS
REPORTING UNITS = mg/Kg

Test	Sample Result	Spike Added	Spike Recovered		% Rec		RPD	QC Limits	
			MS	MSD	MS	MSD		RPD	% Rec
Aroclor 1260	0.042	0.500	0.561	0.597	104	111	6	35	50-125

ND = Not Detected
% Rec - MS & MSD = Percent Recovery from Matrix Spike & Matrix Spike Duplicate
RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate recoveries

LAB CONTROL SPIKE RECOVERY / METHOD BLANK
REPORTING UNITS = mg/Kg

Test	Spike Added	Spike Recovered	% Rec LCS	QC Limit
Aroclor 1260	0.500	0.551	110	70-130

Method Blank = All ND
% Rec - LCS = Percent Recovery from Lab Control Spike

ASSOCIATED LABORATORIES
QA REPORT FORM

D...minative Method : EPA 8082 Preparative Method: EPA 3545

QC Sample: 122613-489819

Matrix: SOLID

Analysis Date: 1/15/04

Batch Date: 1/13/04 (pcb 011304s)

Applies to: LR 122589, LR 122613 and LR 122625

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULTS
REPORTING UNITS = mg/Kg

Test	Sample Result	Spike Added	Spike Recovered		% Rec		RPD	QC Limits	
			MS	MSD	MS	MSD		RPD	% Rec
Aroclor 1260	0.08	0.500	0.620	0.562	108	96	10	35	50-125

ND = Not Detected
% Rec - MS & MSD = Percent Recovery from Matrix Spike & Matrix Spike Duplicate
RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate recoveries

LAB CONTROL SPIKE RECOVERY / METHOD BLANK
REPORTING UNITS = mg/Kg

Test	Spike Added	Spike Recovered	% Rec LCS	QC Limit
Aroclor 1260	0.500	0.518	104	70-130

Method Blank = All ND
% Rec - LCS = Percent Recovery from Lab Control Spike

ASSOCIATED LABORATORIES
QA REPORT FORM

Determinative Method : EPA 8082 Preparative Method: EPA 3545

QC Sample: 122709-492765

Matrix: SOLID

Analysis Date: 1/23/04

Batch Date: 1/22/04 (pcb 012204s)

Applies to: LR 122709 (sample 492795)

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULTS
REPORTING UNITS = mg/Kg

Test	Sample Result	Spike Added	Spike Recovered		% Rec		RPD	QC Limits	
			MS	MSD	MS	MSD		RPD	% Rec
Aroclor 1260	3.64	0.500	3.917	3.932	56	59	0	35	50-125

ND = Not Detected
% Rec - MS & MSD = Percent Recovery from Matrix Spike & Matrix Spike Duplicate
RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate recoveries

LAB CONTROL SPIKE RECOVERY / METHOD BLANK
REPORTING UNITS = mg/Kg

Test	Spike Added	Spike Recovered		% Rec		RPD	QC Limits	
		LCS	LCSD	LCS	LCSD		RPD	% Rec
Aroclor 1260	0.500	0.453	0.511	91	102	12	35	70-130

Method Blank = All ND
% Rec - LCS & LCSD = Percent Recovery from Lab Control Spike & Lab Control Spike Duplicate
RPD = Relative Percent Difference of Lab Control Spike and Lab Control Spike Duplicate recoveries

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QA REPORT FORM (MS/MSD)

QC Sample: LR 122547-489499 QC# 012604STLC1

Matrix: STLC

Prep. Date: 01/26/04

Analysis Date: 01/26/04

Lab ID#'s in Batch: LR 122547, 123061, 122709, 122549, 122460, 123150, 122589, 118885

REPORTING UNITS = mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	6010	4.73		10	13.40	13.50	87	88	1
Copper	6010	0.70		10	10.10	9.97	94	93	1
Arsenic	6010	0.50	U	10	9.60	9.70	96	97	1
Cadmium	6010	1.00	U	10	9.80	9.70	98	97	1
Chromium	6010	1.00	U	10	9.20	9.02	92	90	2

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - 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 = 75 -125
RPD LIMITS = 20

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122589

CHAIN OF CUSTODY RECORD

Date 1/8/04 Page 1 of 4

CLIENT M+A
ADDRESS 9841 Airport Blvd #110

PROJECT MANAGER Keith Farrel
PHONE NUMBER 310 670 9221
SAMPLERS: (Signature) [signature]

PROJECT NAME DTCO

Samples Intact Yes ✓ No ____
County Seals Intact Yes ____ No ____
Sample Ambient ✗ Cooled ___ Frozen ___
Same Day ____ 24 Hr. ____
Regular ____ 48 Hr. ____

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE WATER	AIR	SOLID	NO OF CNTNRS	SUSP. CONTAM.	TESTS REQUIRED
B-37-2'	Comp 17	1/8/04	1346			✓	1		PCB, Pb, Cr, TPH(oil)
B-38-2'			1303						
B-39-2'			1105						
B-47-2'			1431						
B-48-2'			1356						
B-49-2'			1603						
B-37-5'	Comp 18		1348						
B-38-5'			1305						
B-39-5'			1111						
B-47-5'			1432						
B-48-5'			1403						
B-49-5'			1616						
B-30-5	Comp 6		828						

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
[signature]	[signature]	1/8/04 1725
Relinquished by: (Signature) [signature]	Received by Laboratory for analysis: (Signature) [signature]	Date/Time 1/9 9:40

Special Instructions:

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CHAIN OF CUSTODY RECORD

Date 1/8/04 Page 2 of 4

CLIENT MNA
ADDRESS 9841 AIRPORT BL. SUITE 1010
PROJECT NAME DCW Oil
PROJECT MANAGER Beth Farrel
PHONE NUMBER 310 670 9221
SAMPLERS: (Signature) [signature]

Samples Intact Yes ✓ No ____
County Seals Intact Yes ____ No ____
Sample Ambient ✗ Cooled ___ Frozen ___
Same Day ____ 24 Hr. ____
Regular ____ 48 Hr. ____

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE WATER	AIR	SOLID	NO OF CNTNRS	SUSP. CONTAM.	TESTS REQUIRED
B-31-5'	Comp 6	1/8/04				1	1		PCB, Pb, Cr, TPH(od)
B-30-7.5'	-		835						Hold
B-37-7.5'	-		1352						↓
B-47-7.5'	-		1439						↓
B-20-7.5'	-		935						Hold
B-39-7.5'	-		1119						↓
B-38-7.5'	-		1311						↓
B-30-9.5'	Comp 53		845						PCB, Pb, Cr, TPH(od)
B-31-9.5'	↓		812						↓
B-38-9.5'	Comp 54		134						↓
B-39-9.5'	↓		1128						↓
B-47-9.5'	↓		144						↓
B-49-9.5'	↓		1620			↓	↓		↓

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
[signature]	[signature]	1/8/04 1825
[signature]	[signature]	
Relinquished by: (Signature)	Received by Laboratory for analysis: (Signature)	Date/Time
[signature]	[signature]	1/9 9:40

Special Instructions:

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CHAIN OF CUSTODY RECORD

Date 1/8/04 Page 3 of 4

CLIENT M&A
ADDRESS 9841 AIRPORT BL #1010

PROJECT MANAGER [signature]
PHONE NUMBER 310 670-9221
SAMPLERS: (Signature) [signature]

PROJECT NAME Dico Oil

Samples Intact Yes ✓ No ___
County Seals Intact Yes ___ No ✓
Sample Ambient ✗ Cooled ✓ Frozen ___
Same Day ___ 24 Hr. ___
Regular ✓ 48 Hr. ___

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE WATER	AIR	SOLID	NO OF CNTNRS	SUSP. CONTAM.	TESTS REQUIRED
B-37-9.5	Comp 54	1/8/04	1356			✓	1		PCB, Pb, Cr, TPH od
B-30-11.5			853						Hold
B-37-11.5			1404						
B-38-11.5			1328						
B47-11.5			1350						
B30-13.5									Hold
B-31-7.5			803						
B47-17.5			1521						
B47-15.5			1507						
B37-15.5			1420						
B-38-15.5			1337						
B49-15.5			1637						
B-49-20			1650						

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
[signature]	[signature] Tom Vinsochale	1/8/04 1725
Relinquished by: (Signature) [signature]	Received by Laboratory for analysis: (Signature) [signature]	Date/Time 1/9 9:40

Special Instructions:

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CHAIN OF CUSTODY RECORD

Date 1/8/04 Page 4 of 4

CLIENT M&A
ADDRESS 9841 AIRPORT BL #1010

PROJECT NAME Dico

PROJECT MANAGER Keith Farrel
PHONE NUMBER 310 670-9221
SAMPLERS: (Signature) [signature]

Samples Intact Yes x No ____
County Seals Intact Yes ____ No ____
Sample Ambient ✓ Cooled ____ Frozen ____
Same Day ____ 24 Hr. ____
Regular ____ 48 Hr. ____

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE WATER	AIR	SOLID	NO OF CNTNRS	SUSP. CONTAM.	TESTS REQUIRED
B48-19.5'		1/8/04	1537			1	1		Hold
B-37-13.5'	COMP 55	1/8/04	1413						PCBs, LEAD, CHROME TPH O/D
B-38-13.5	↓	1/8/04	1325						
B-39-13.5		1/8/04	1138						
B-47-13.5		1/8/04	1447						
B-49-13.5		1/8/04	1152						

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
[signature]	Tom Vinsochalz [signature]	1/8/04 1725
Relinquished by: (Signature) Tom Vinsochalz [signature]	Received by Laboratory for analysis: (Signature) [signature]	Date/Time 1/9 9:00

Special Instructions:

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ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Meredith & Associates, Inc (10577)
ATTN: Keith Farrell
9841 Airport Blvd.
Suite 1010
Los Angeles, CA 90045-5409

LAB REQUEST 122461
REPORTED 01/19/2004
RECEIVED 01/07/2004

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.	Client Sample Identification
489206	Composite 14
489207	B-16-5
489208	B-46-5
489209	Composite 15
489210	Composite 42
489211	Composite 43
489212	Composite 44
489213	Equip Blank-1
489214	Composite 26
489215	B-44-2
489216	Composite 27
489217	Composite 27 DUP
489218	B-44-5
489219	Laboratory Method Blank-S

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.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 489206 **Client Sample ID:** Composite 14

Matrix: SOLID **Sample Description:** B-16-2 / B-26-2 / B-36-2 / B-46-2

Date Sampled: 01/07/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	16.4	1	1.0	0.14	mg/Kg	01/13/04 KN
6010B	Lead	3.35	1	0.5	0.16	mg/Kg	01/13/04 KN
8082	PCB-1016	ND	25	0.75	0.003	mg/Kg	01/16/04 RB
8082	PCB-1221	ND	25	1.5	0.006	mg/Kg	01/16/04 RB
8082	PCB-1232	ND	25	1.25	0.004	mg/Kg	01/16/04 RB
8082	PCB-1242	ND	25	1.25	0.002	mg/Kg	01/16/04 RB
8082	PCB-1248	ND	25	2.0	0.008	mg/Kg	01/16/04 RB
8082	PCB-1254	ND	25	0.75	0.001	mg/Kg	01/16/04 RB
8082	PCB-1260	15	25	0.75	0.002	mg/Kg	01/16/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	98				%	50 - 135
8015	Diesel	335	10	30.0	0.7	mg/Kg	01/12/04 AF
8015	Oil	150	10	50.0		mg/Kg	01/12/04 AF

E[illegible] Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
NL[illegible] Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489207 **Client Sample ID:** B-16-5

Matrix: SOLID

Date Sampled: 01/07/2004
Tir ampled: 10:52

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	16.8	1	1.0	0.14	mg/Kg	01/13/04 KN
6010B	Lead	2.56	1	0.5	0.16	mg/Kg	01/13/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/14/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/14/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/14/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/14/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/14/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/14/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/14/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	97				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	01/12/04 AF
8015	Oil	ND	1	5		mg/Kg	01/12/04 AF

E(Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489208 **Client Sample ID**: B-46-5

Matrix: SOLID

Date Sampled: 01/07/2004
Tir Sampled: 11:46

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	16.6	1	1.0	0.14	mg/Kg	01/13/04 KN
6010B	Lead	2.39	1	0.5	0.16	mg/Kg	01/13/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/15/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/15/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/15/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/15/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/15/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/15/04 RB
8082	PCB-1260	0.056	1	0.03	0.002	mg/Kg	01/15/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	96				%	50 - 135
8015	Diesel	5.0	1	3	0.7	mg/Kg	01/13/04 AF
8015	Oil	ND	1	5		mg/Kg	01/13/04 AF

EQ Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489209 **Client Sample ID:** Composite 15

Matrix: SOLID **Sample Description:** B-26-5 / B-36-5

Date Sampled: 01/07/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	15.4	1	1.0	0.14	mg/Kg	01/13/04 KN
6010B	Lead	2.60	1	0.5	0.16	mg/Kg	01/13/04 KN
8082	PCB-1016	ND	100	3.0	0.003	mg/Kg	01/16/04 RB
8082	PCB-1221	ND	100	6.0	0.006	mg/Kg	01/16/04 RB
8082	PCB-1232	ND	100	5.0	0.004	mg/Kg	01/16/04 RB
8082	PCB-1242	ND	100	5.0	0.002	mg/Kg	01/16/04 RB
8082	PCB-1248	ND	100	8.0	0.008	mg/Kg	01/16/04 RB
8082	PCB-1254	ND	100	3.0	0.001	mg/Kg	01/16/04 RB
8082	PCB-1260	22	100	3.0	0.002	mg/Kg	01/16/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	86				%	50 - 135
8015	Diesel	3700	100	300.0	0.7	mg/Kg	01/13/04 AF
8015	Oil	1200	100	500.0		mg/Kg	01/13/04 AF

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489211 **Client Sample ID:** Composite 43

Matrix: SOLID **Sample Description:** B-36-10 / B-26-10

Date Sampled: 01/07/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	8.78	1	1.0	0.14	mg/Kg	01/13/04 KN
6010B	Lead	0.471 J	1	0.5	0.16	mg/Kg	01/13/04 KN
8082	PCB-1016	ND	100	3.0	0.003	mg/Kg	01/16/04 RB
8082	PCB-1221	ND	100	6.0	0.006	mg/Kg	01/16/04 RB
8082	PCB-1232	ND	100	5.0	0.004	mg/Kg	01/16/04 RB
8082	PCB-1242	ND	100	5.0	0.002	mg/Kg	01/16/04 RB
8082	PCB-1248	ND	100	8.0	0.008	mg/Kg	01/16/04 RB
8082	PCB-1254	ND	100	3.0	0.001	mg/Kg	01/16/04 RB
8082	PCB-1260	31	100	3.0	0.002	mg/Kg	01/16/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	94				%	50 - 135
8015	Diesel	4400	100	300.0	0.7	mg/Kg	01/13/04 AF
8015	Oil	1100	100	500.0		mg/Kg	01/13/04 AF

E(Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489214 **Client Sample ID**: Composite 26

Matrix: SOLID **Sample Description:** B-45-2 / B-56-2 / B-55-2 / B-54-2

Date Sampled: 01/07/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	12.4	1	1.0	0.14	mg/Kg	01/13/04 KN
6010B	Lead	3.65	1	0.5	0.16	mg/Kg	01/13/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/15/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/15/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/15/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/15/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/15/04 RB
8082	PCB-1254	0.22	1	0.03	0.001	mg/Kg	01/15/04 RB
8082	PCB-1260	0.75	1	0.03	0.002	mg/Kg	01/15/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	87				%	50 - 135
8015	Diesel	81	10	30.0	0.7	mg/Kg	01/13/04 AF
8015	Oil	222	10	50.0		mg/Kg	01/13/04 AF

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489215 **Client Sample ID**: B-44-2

Matrix: SOLID

Date Sampled: 01/07/2004
Ti[illegible] [illegible]ampled: 14:35

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	10.8	1	1.0	0.14	mg/Kg	01/13/04 KN
6010B	Lead	6.19	1	0.5	0.16	mg/Kg	01/13/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/15/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/15/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/15/04 RB
8082	PCB-1242	0.34	1	0.05	0.002	mg/Kg	01/15/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/15/04 RB
8082	PCB-1254	0.60	1	0.03	0.001	mg/Kg	01/15/04 RB
8082	PCB-1260	0.30	1	0.03	0.002	mg/Kg	01/15/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	86				%	50 - 135
8015	Diesel	1330	100	300.0	0.7	mg/Kg	01/13/04 AF
8015	Oil	560	100	500.0		mg/Kg	01/13/04 AF

E[illegible] Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489216 **Client Sample ID:** Composite 27

Matrix: SOLID **Sample Description:** B-45-5 / B-56-5 / B-55-5 / B-54-5

Date Sampled: 01/07/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	15.8	1	1.0	0.14	mg/Kg	01/13/04 KN
6010B	Lead	2.89	1	0.5	0.16	mg/Kg	01/13/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/15/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/15/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/15/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/15/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/15/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/15/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/15/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	67				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	01/13/04 AF
8015	Oil	5.0	1	5		mg/Kg	01/13/04 AF

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489217 **Client Sample ID**: Composite 27 DUP

Matrix: SOLID **Sample Description:** B-45-5 / B-56-5 / B-55-5 / B-54-5

Date Sampled: 01/07/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	16.5	1	1.0	0.14	mg/Kg	01/13/04 KN
6010B	Lead	3.15	1	0.5	0.16	mg/Kg	01/13/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/15/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/15/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/15/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/15/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/15/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/15/04 RB
8082	PCB-1260	0.11	1	0.03	0.002	mg/Kg	01/15/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	79				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	01/13/04 AF
8015	Oil	7.0	1	5		mg/Kg	01/13/04 AF

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489218 **Client Sample ID:** B-44-5

Matrix: SOLID

Date Sampled: 01/07/2004
Tir ampled: 15:15

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	15.1	1	1.0	0.14	mg/Kg	01/13/04 KN
6010B	Lead	20.0	1	0.5	0.16	mg/Kg	01/13/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/15/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/15/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/15/04 RB
8082	PCB-1242	0.34	1	0.05	0.002	mg/Kg	01/15/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/15/04 RB
8082	PCB-1254	0.24	1	0.03	0.001	mg/Kg	01/15/04 RB
8082	PCB-1260	0.26	1	0.03	0.002	mg/Kg	01/15/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	107				%	50 - 135
8015	Diesel	2300	100	300.0	0.7	mg/Kg	01/14/04 AF
8015	Oil	520	20	100.0		mg/Kg	01/14/04 AF

E(Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489219 **Client Sample ID**: Laboratory Method Blank-S

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	ND	1	1.00	0.14	mg/Kg	01/13/04 KN
6010B	Lead	ND	1	0.50	0.16	mg/Kg	01/13/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/14/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/14/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/14/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/14/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/14/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/14/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/14/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	100				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	01/12/04 AF
8015	Oil	ND	1	5		mg/Kg	01/12/04 AF

E(Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 122460-489199 QC# 011304SO2

Matrix: SOLID

Prep. Date: 01/13/04

Analysis Date: 01/13/04

Lab ID#'s in Batch: LR 122460, 122461

REPORTING UNITS = mg/Kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	6010	1.53		97	88	86	89	87	2
Chromium	6010	11.60		97	105	100	96	91	5

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - 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 = 75 -125
RPD LIMITS = 20

LCS/MB REPORT FORM

LCS Source(s) : QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank MB	Method Blank ND
Lead	6010	182	200	91	80%	120%	0.50	U
Chromium	6010	179	200	90	80%	120%	1.00	U

*Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True*

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Method Blank; ND = " U " for Non- Detected

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 122461-207

Matrix: SOLID

Extraction Method : 3545

Prep. Date: 01/12/04

Analysis Date: 01/12/04

ID#'s in Batch: LR 122461, 122625, 122686

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = mg/Kg

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
DIESEL	8015D	ND	25	26	26	104	104	0

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 = 70 - 130
RPD LIMITS = 30

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

	PREP BLK					
	Value	Result	True	%Rec	L.Limit	H.Limit
LCS	ND	20.4	25	82	70%	130%
LCSD	ND	21.2	25	85	70%	130%

LCS Result = Lab Control Sample Result
True = True Value of LCS
L.Limit / H.Limit = LCS Control Limits

SURROGATE RECOVERY

Sample No.	O-Terphenyl
QC Limit	55-200
MS	82
MSD	87
Method Blank	135
[illegible]	124
LCSD	128

ASSOCIATED LABORATORIES
QA REPORT FORM

Determinative Method : EPA 8082 Preparative Method: EPA 3545

QC Sample: 122461-489206

Matrix: SOLID

Analysis Date: 1/15/04

Batch Date: 1/12/04 (pcb 011204s)

Applies to: LR 122460, LR 122461, LR 122545, LR 122546, LR 122547, LR 122548, LR 122549, LR 122550 and LR 122551

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULTS
REPORTING UNITS = mg/Kg

Test	Sample Result	Spike Added	Spike Recovered		% Rec		RPD	QC Limits	
			MS	MSD	MS	MSD		RPD	% Rec
Aroclor 1260	ND	0.500	0.494	0.515	99	103	4	35	50-125

ND = Not Detected
% - MS & MSD = Percent Recovery from Matrix Spike & Matrix Spike Duplicate
RPD - Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate recoveries

LAB CONTROL SPIKE RECOVERY / METHOD BLANK
REPORTING UNITS = mg/Kg

Test	Spike Added	Spike Recovered	% Rec LCS	QC Limit
Aroclor 1260	0.500	0.530	106	70-130

Method Blank = All ND
% Rec - LCS = Percent Recovery from Lab Control Spike

ASSOCIATED LABORATORIES
806 N. Batavia • Orange, CA 92868
(714) 771-6900 • Fax: (714) 538-1209

122461

CHAIN OF CUSTODY RECORD

Date 1/7/04 Page 1 of 2

CLIENT MEREDITH & ASSOCIATES
ADDRESS 9241 AIRPORT BLVD SUITE 1010
LOS ANGELES CA

PROJECT MANAGER KEITH FARRELL
PHONE NUMBER (310) 670-9221
SAMPLERS: (Signature) Megan McGracken

PROJECT NAME

Samples Intact Yes ____ No ____
County Seals Intact Yes ____ No ____
Sample Ambient ✓ Cooled ____ Frozen ____
Same Day ____ 24 Hr. ____
Regular ____ 48 Hr. ____

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE WATER	AIR	SOLID	NO OF CNTNRS	SUSP. CONTAM.	TESTS REQUIRED
B-16-2'	COMP14	1/7/04	1057			✓	1		
B-26-2'		1/7/04	1107			✓	1		PCBS, LEAD, CHROME
B-36-2'		1/7/04	1119			✓	1		TPH O/D
B-46-2'		1/7/04	1125			✓	1		
B-16-5'		1/7/04	1052			✓	1		PCBS, LEAD, CHROME, TPH O/D
B-46-5'		1/7/04	1146			✓	1		PCBS, LEAD, CHROME, TPH O/D
B-26-5'	COMP15	1/7/04	1135			✓	1		PCBS, LEAD, CHROME
B-36-5'		1/7/04	1141			✓	1		TPH O/D
B-26-7'	COMP42	1/7/04	1225			✓	1		HOLD
B-36-7'		1/7/04	1236			✓	1		
B-36-10'	COMP43	1/7/04	1303			✓	1		PCBS, LEAD, CHROME,
B-26-10'		1/7/04	1256			✓	1		TPH O/D
B-26-12'	COMP44	1/7/04	1321			✓	1		HOLD

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Megan McGracken	Tom Vinsonhaler	1/7 4:25
Relinquished by: (Signature)	Received by Laboratory for analysis: (Signature)	Date/Time 1/7 5:30

Special Instructions:

I hereby authorize the performance of the above indicated work.

Megan McGracken

DISTRIBUTION: White with report. Yellow to AL, Pink to Courier

1.8.04 11:10

ASSOCIATED LABORATORIES
806 N. Batavia • Orange, CA 92868
(714) 771-6900 • Fax: (714) 538-1209

(122461)

CHAIN OF CUSTODY RECORD

Date 1/7/04 Page 2 of 2

CLIENT MEREDITH & ASSOCIATES
ADDRESS 9841 AIRPORT BL. SUITE 1010
L.A. CA
PROJECT NAME

PROJECT MANAGER KEITH FARRELL
PHONE NUMBER 310 670-9221
SAMPLERS: (Signature) Bryan McCracken

Samples Intact Yes ✓ No ____
County Seals Intact Yes ____ No ____
Sample Ambient ✓ Cooled ____ Frozen ____
Same Day ____ 24 Hr. ____
Regular ____ 48 Hr. ____

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE WATER	AIR	SOLID	NO OF CNTNRS	SUSP. CONTAM.	TESTS REQUIRED
B-36-12'	COMP 44 (FROM PREVIOUS PAGE)	1/7/04	1321			✓	1		HOLD
EQUIP-BLK-1	AFTER B-36-12'	1/7/04	1349	✓			1		PCBS, LEAD, CHROME, TPH O/D
B-45-2'	COMP26	1/7/04	1400			✓	1		
B-56-2'		1/7/04	1410			✓	1		PCBS, LEAD, CHROME TPH O/D
B-55-2'		1/7/04	1419			✓	1		
B-54-2'		1/7/04	1428			✓	1		
B-44-2'		1/7/04	1435			✓	1		PCBS, LEAD, CHROME, TPH O/D
B-45-5'	COMP27	1/7/04	1444			✓	1		
B-56-5'		1/7/04	1451			✓	1		PCBS, LEAD, CHROME TPH O/D
B-55-5'		1/7/04	1500			✓	1		
B-54-5'		1/7/04	1506			✓	1		
B-44-5'		1/7/04	1515			✓	1		PCBS, LEAD, CHROME, TPH O/D

Relinquished by: (Signature) Bryan McCracken
Received by: (Signature) Tom Vissorhales
Date/Time 1/7 4:25

Relinquished by: (Signature)
Received by Laboratory for analysis: (Signature)
Date/Time 1/7 5:30

Special Instructions:

I hereby authorize the performance of the above indicated work.

Bryan McCracken

DISTRIBUTION: White with report. Yellow to AL, Pink to Courier

ASSOCIATED LABORATORIES
06 North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Meredith & Associates, Inc (10577)
ATTN: Keith Farrell
9841 Airport Blvd.
Suite 1010
Los Angeles, CA 90045-5409

LAB REQUEST 122613
REPORTED 01/20/2004
RECEIVED 01/09/2004

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.	Client Sample Identification
489815	Composite 37
489816	Composite 31
489817	Composite 36
489818	Composite 38
489819	Composite 38 Dup
489820	Composite 35
489821	Composite 39
489822	Composite 33
489823	Composite 34
489824	Composite 32
489825	EB-2
489826	Laboratory Method Blank-S
489827	Laboratory Method Blank-W

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.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 489815 **Client Sample ID**: Composite 37

Matrix: SOLID **Sample Description:** B-77-3 / B-78-3 / B-79-3 / B-80-3

Date Sampled: 01/09/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	32.6	1	1.0	0.14	mg/Kg	01/14/04 KN
6010B	Lead	197	1	0.5	0.16	mg/Kg	01/14/04 KN
1311/6010	Lead TCLP	0.020 J	1	0.05	0.002	mg/L	01/22/04 KN
6010/STLC	Lead, STLC	7.09	10	0.05	0.002	mg/L	01/22/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/15/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/15/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/15/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/15/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/15/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/15/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/15/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	107	%	50 - 135

8015	Diesel	ND	20	60.0	0.7	mg/Kg	01/16/04 AF
8015	Oil	1800	20	100.0		mg/Kg	01/16/04 AF

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489816 **Client Sample ID**: Composite 31

Matrix: SOLID **Sample Description:** B-71-3 / B-72-3 / B-73-3 / B-68-3 / B-67-3 / B-66-3

Date Sampled: 01/09/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	77.7	1	1.0	0.14	mg/Kg	01/14/04 KN
6010/STLC	Chromium, STLC	0.27	10	0.1	0.002	mg/L	01/22/04 KN
6010B	Lead	531	1	0.5	0.16	mg/Kg	01/14/04 KN
1311/6010	Lead TCLP	0.78	1	0.05	0.002	mg/L	01/22/04 KN
6010/STLC	Lead, STLC	15.5	10	0.05	0.002	mg/L	01/22/04 KN
8082	PCB-1016	ND	500	15.0	0.003	mg/Kg	01/15/04 RB
8082	PCB-1221	ND	500	30.0	0.006	mg/Kg	01/15/04 RB
8082	PCB-1232	ND	500	25.0	0.004	mg/Kg	01/15/04 RB
8082	PCB-1242	ND	500	25.0	0.002	mg/Kg	01/15/04 RB
8082	PCB-1248	ND	500	40.0	0.008	mg/Kg	01/15/04 RB
8082	PCB-1254	ND	500	15.0	0.001	mg/Kg	01/15/04 RB
8082	PCB-1260	310	500	15.0	0.002	mg/Kg	01/15/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	217 S				%	50 - 135
8015	Diesel	ND	20	60.0	0.7	mg/Kg	01/16/04 AF
8015	Oil	300	20	100.0		mg/Kg	01/16/04 AF

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND – Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489817 **Client Sample ID:** Composite 36

Matrix: SOLID **Sample Description:** B-69-5 / B-70-5 / B-75-5 / B-74-5 / B-76-5

Date Sampled: 01/09/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	12.8	1	1.0	0.14	mg/Kg	01/14/04 KN
6010B	Lead	2.13	1	0.5	0.16	mg/Kg	01/14/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/16/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/16/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/16/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/16/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/16/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/16/04 RB
8082	PCB-1260	0.033	1	0.03	0.002	mg/Kg	01/16/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	104				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	01/15/04 AF
8015	Oil	ND	1	5		mg/Kg	01/15/04 AF

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489818 **Client Sample ID**: Composite 38

Matrix: SOLID **Sample Description:** B-77-2.5 / B-78-2.5 / B-79-2.5 / B-80-2.5

Date Sampled: 01/09/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	12.6	1	1.0	0.14	mg/Kg	01/14/04 KN
6010B	Lead	1.53	1	0.5	0.16	mg/Kg	01/14/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/16/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/16/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/16/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/16/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/16/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/16/04 RB
8082	PCB-1260	0.067	1	0.03	0.002	mg/Kg	01/16/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	112				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	01/15/04 AF
8015	Oil	ND	1	5		mg/Kg	01/15/04 AF

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489819 **Client Sample ID**: Composite 38 Dup

Matrix: SOLID **Sample Description:** B-77-2.5 / B-78-2.5 / B-79-2.5 / B-80-2.5

Date Sampled: 01/09/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	12.5	1	1.0	0.14	mg/Kg	01/14/04 KN
6010B	Lead	1.45	1	0.5	0.16	mg/Kg	01/14/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/16/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/16/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/16/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/16/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/16/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/16/04 RB
8082	PCB-1260	0.082	1	0.03	0.002	mg/Kg	01/16/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	119				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	01/15/04 AF
8015	Oil	ND	1	5		mg/Kg	01/15/04 AF

E(Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, I=Trace, S=Surrogate Outside Control Limits

Order #: 489820 **Client Sample ID:** Composite 35

Matrix: SOLID **Sample Description:** B-69-2.5 / B-70-2.5 / B-74-2.5 / B-75-2.5 / B-76-2.5

Date Sampled: 01/09/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	13.0	1	1.0	0.14	mg/Kg	01/14/04 KN
6010B	Lead	1.78	1	0.5	0.16	mg/Kg	01/14/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/16/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/16/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/16/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/16/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/16/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/16/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/16/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	ND				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	01/15/04 AF
8015	Oil	ND	1	5		mg/Kg	01/15/04 AF

E(Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
NL— Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489821 **Client Sample ID**: Composite 39

Matrix: SOLID **Sample Description:** B-77-5 / B-78-5 / B-79-5 / B-80-5

Date Sampled: 01/09/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	13.7	1	1.0	0.14	mg/Kg	01/14/04 KN
6010B	Lead	1.23	1	0.5	0.16	mg/Kg	01/14/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/16/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/16/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/16/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/16/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/16/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/16/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/16/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	99				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	01/14/04 AF
8015	Oil	ND	1	5		mg/Kg	01/14/04 AF

E Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489822 **Client Sample ID**: Composite 33

Matrix: SOLID **Sample Description:** B-66-5 / B-67-5 / B-68-5 / B-71-5 / B-72-5 / B-73-5

Date Sampled: 01/09/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	14.7	1	1.0	0.14	mg/Kg	01/14/04 KN
6010B	Lead	10.5	1	0.5	0.16	mg/Kg	01/14/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/16/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/16/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/16/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/16/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/16/04 RB
8082	PCB-1254	0.23	1	0.03	0.001	mg/Kg	01/16/04 RB
8082	PCB-1260	0.67	1	0.03	0.002	mg/Kg	01/16/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	107				%	50 - 135
8015	Diesel	470	10	30.0	0.7	mg/Kg	01/15/04 AF
8015	Oil	ND	10	50.0		mg/Kg	01/15/04 AF

E(Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
NL Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489823 **Client Sample ID:** Composite 34

Matrix: SOLID **Sample Description:** B-69-3 / B-70-3 / B-74-3 / B-75-3 / B-76-3

Date Sampled: 01/09/2004

Method	Analyte	Result		DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	19.3		1	1.0	0.14	mg/Kg	01/14/04 KN
6010B	Lead	216		1	0.5	0.16	mg/Kg	01/14/04 KN
1311/6010	Lead TCLP	0.039	J	1	0.05	0.002	mg/L	01/22/04 KN
6010/STLC	Lead, STLC	5.63		10	0.05	0.002	mg/L	01/22/04 KN
8082	PCB-1016	ND		1	0.03	0.003	mg/Kg	01/16/04 RB
8082	PCB-1221	ND		1	0.06	0.006	mg/Kg	01/16/04 RB
8082	PCB-1232	ND		1	0.05	0.004	mg/Kg	01/16/04 RB
8082	PCB-1242	ND		1	0.05	0.002	mg/Kg	01/16/04 RB
8082	PCB-1248	ND		1	0.08	0.008	mg/Kg	01/16/04 RB
8082	PCB-1254	0.24		1	0.03	0.001	mg/Kg	01/16/04 RB
8082	PCB-1260	0.088		1	0.03	0.002	mg/Kg	01/16/04 RB
Surrogates							**Units**	**Control Limits**
8082	DCB(Sur)	93					%	50 - 135
8015	Diesel	ND		20	60.0	0.7	mg/Kg	01/15/04 AF
8015	Oil	600		100	500.0		mg/Kg	01/15/04 AF

E(Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489824 **Client Sample ID:** Composite 32

Matrix: SOLID **Sample Description:** B-66-2.5 / B-67-2.5 / B-68-2.5 / B-71-2.5 / B-72-2.5 / B-73-2.5

Date Sampled: 01/09/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	12.6	1	1.0	0.14	mg/Kg	01/14/04 KN
6010B	Lead	2.31	1	0.5	0.16	mg/Kg	01/14/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/16/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/16/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/16/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/16/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/16/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/16/04 RB
8082	PCB-1260	0.15	1	0.03	0.002	mg/Kg	01/16/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	96				%	50 - 135
8015	Diesel	400	10	30.0	0.7	mg/Kg	01/15/04 AF
8015	Oil	ND	10	50.0		mg/Kg	01/15/04 AF

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489825 **Client Sample ID:** EB-2

Matrix: WATER

Date Sampled: 01/09/2004
Time Sampled: 12:20

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	ND	1	0.01	0.002	mg/L	01/15/04 KN
6010B	Lead	ND	1	0.005	0.002	mg/L	01/15/04 KN
8082	PCB-1016	ND	1	0.5	0.16	ug/L	01/16/04 RB
8082	PCB-1221	ND	1	0.5	0.1	ug/L	01/16/04 RB
8082	PCB-1232	ND	1	0.5	0.06	ug/L	01/16/04 RB
8082	PCB-1242	ND	1	0.5	0.031	ug/L	01/16/04 RB
8082	PCB-1248	ND	1	0.5	0.121	ug/L	01/16/04 RB
8082	PCB-1254	ND	1	0.5	0.017	ug/L	01/16/04 RB
8082	PCB-1260	ND	1	0.5	0.19	ug/L	01/16/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	46 S				%	60 - 130
8015	Diesel	ND	1	0.2	0.04	mg/L	01/13/04 AF
8015	Oil	ND	1	1		mg/L	01/13/04 AF

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND – Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489826 **Client Sample ID**: Laboratory Method Blank-S

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	ND	1	1.00	0.14	mg/Kg	01/14/04 KN
6010/STLC	Chromium, STLC	ND	1	0.010	0.002	mg/L	01/22/04 KN
6010B	Lead	ND	1	0.50	0.16	mg/Kg	01/14/04 KN
1311/6010	Lead TCLP	ND	1	0.05	0.002	mg/L	01/22/04 KN
6010/STLC	Lead, STLC	ND	1	0.005	0.002	mg/L	01/22/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/15/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/15/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/15/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/15/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/15/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/15/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/15/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	101				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	01/14/04 AF
8015	Oil	ND	1	5		mg/Kg	01/14/04 AF

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489827 **Client Sample ID**: Laboratory Method Blank-W

Matrix: WATER

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	ND	1	0.010	0.002	mg/L	01/15/04 KN
6010B	Lead	ND	1	0.005	0.002	mg/L	01/15/04 KN
8082	PCB-1016	ND	1	0.5	0.16	ug/L	01/16/04 RB
8082	PCB-1221	ND	1	0.5	0.1	ug/L	01/16/04 RB
8082	PCB-1232	ND	1	0.5	0.06	ug/L	01/16/04 RB
8082	PCB-1242	ND	1	0.5	0.031	ug/L	01/16/04 RB
8082	PCB-1248	ND	1	0.5	0.121	ug/L	01/16/04 RB
8082	PCB-1254	ND	1	0.5	0.017	ug/L	01/16/04 RB
8082	PCB-1260	ND	1	0.5	0.19	ug/L	01/16/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	86				%	60 - 130
8015	Diesel	ND	1	0.2	0.04	mg/L	01/12/04 AF
8015	Oil	ND	1	1		mg/L	01/12/04 AF

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 122767-490402 QC# 011404W1

Matrix: WATER

Prep. Date: 01/14/04

Analysis Date: 01/15/04

Lab ID#'s in Batch: LR 122767, 122693, 122614, 122781, 122579, 122795, 122770, 122781, 122613, 122778, 122779

Reporting Units = mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Arsenic	200.7 / 6010	0.020		1	0.97	0.96	95	94	1
Selenium	200.7 / 6010	0.016		1	0.91	0.90	89	88	1
Thallium	200.7 / 6010	0.005	U	1	0.88	0.88	88	88	0
Lead	200.7 / 6010	0.005	U	1	0.87	0.87	87	87	0
Antimony	200.7 / 6010	0.030	U	1	0.98	0.98	98	98	0
Barium	200.7 / 6010	0.104		1	1.06	1.14	96	104	7
Beryllium	200.7 / 6010	0.005	U	1	0.99	0.99	99	99	0
Cadmium	200.7 / 6010	0.005	U	1	0.95	0.99	95	99	4
Chromium	200.7 / 6010	0.010	U	1	0.92	0.96	92	96	4
Cobalt	200.7 / 6010	0.005	U	1	0.92	0.95	92	95	3
Copper	200.7 / 6010	0.010	U	1	0.91	0.95	91	95	4
Molybdenum	200.7 / 6010	0.010	U	1	1.05	1.04	105	104	1
Nickel	200.7 / 6010	0.015	U	1	0.87	0.91	87	91	4
Silver	200.7 / 6010	0.005	U	1	0.43	0.45	86	90	5
Vanadium	200.7 / 6010	0.018		1	0.99	1.03	97	101	4
Zinc	200.7 / 6010	0.010	U	1	0.95	1.03	95	103	8
Aluminum	200.7 / 6010	0.048		1	1.13	1.26	108	121	11
Iron	200.7 / 6010	0.023		1	1.01	1.06	99	104	5
Manganese	200.7 / 6010	0.010	U	1	0.96	0.99	96	99	3

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - 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 = 75 -125
RPD LIMITS = 20

ASSOCIATED LABORATORIES

LCS/MB REPORT FORM

LCS Source(s) :	QC21-LOT#QC2/91/1;QC7-LOT7A92/1						Method Blank	
Element	**Method**	**Result**	**TRUE**	**%Rec**	**L.Limit**	**H.Limit**	**MB**	**ND**
Silver	200.7 / 6010	0.91	1	91	80%	120%	0.005	U
Aluminum	200.7 / 6010	1.94	2	97	80%	120%	0.030	U
Arsenic	200.7 / 6010	1.64	2	82	80%	120%	0.005	U
Boron	200.7 / 6010	1.97	2	99	80%	120%	0.010	U
Barium	200.7 / 6010	1.88	2	94	80%	120%	0.010	U
Beryllium	200.7 / 6010	1.97	2	99	80%	120%	0.005	U
Cadmium	200.7 / 6010	1.98	2	99	80%	120%	0.005	U
Cobalt	200.7 / 6010	1.90	2	95	80%	120%	0.005	U
Chromium	200.7 / 6010	1.88	2	94	80%	120%	0.010	U
Copper	200.7 / 6010	1.84	2	92	80%	120%	0.010	U
Iron	200.7 / 6010	1.93	2	97	80%	120%	0.020	U
Manganese	200.7 / 6010	1.96	2	98	80%	120%	0.010	U
Molybdenum	200.7 / 6010	1.98	2	99	80%	120%	0.010	U
Nickel	200.7 / 6010	1.85	2	93	80%	120%	0.015	U
Lead	200.7 / 6010	1.85	2	93	80%	120%	0.005	U
Antimony	200.7 / 6010	1.95	2	98	80%	120%	0.030	U
Selenium	200.7 / 6010	1.82	2	91	80%	120%	0.005	U
Thallium	200.7 / 6010	1.85	2	93	80%	120%	0.005	U
Vanadium	200.7 / 6010	1.93	2	97	80%	120%	0.005	U
Zinc	200.7 / 6010	1.97	2	99	80%	120%	0.010	U

*Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True*

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Method Blank; ND = " U " for Non- Detected

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 122613-489817 QC# 011304SO3

Matrix: SOLID

Prep. Date: 01/13/04

Analysis Date: 01/14/04

Lab ID#'s in Batch: LR 122613, 122625

REPORTING UNITS = mg/Kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	6010	2.13		97	93	92	94	93	1
Chromium	6010	12.80		97	109	105	99	95	4

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - 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 = 75 -125
RPD LIMITS = 20

LCS/MB REPORT FORM

LCS Source(s) : QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank MB	Method Blank ND
Lead	6010	191	200	96	80%	120%	0.50	U
Chromium	6010	201	200	101	80%	120%	1.00	U

*Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True*

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Method Blank; ND = " U " for Non- Detected

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

)C Sample: LR 122613-489816 QC# 012204stlc1

Matrix: STLC

Prep. Date: 01/22/04

Analysis Date: 01/22/04

Lab ID#'s in Batch: LR 122546, 122613, 122545

REPORTING UNITS = mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	6010	15.50		10	23.10	23.50	76	80	2
Chromium	6010	0.27		10	8.99	8.98	87	87	0

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - Not Detected

PD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS&MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

% REC LIMITS = 75 -125
RPD LIMITS = 20

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 122613-489816 QC# 012204tclp1

Matrix: TCLP

Prep. Date: 01/22/04

Analysis Date: 01/22/04

Lab ID#'s in Batch: LR 122546, 122613, 119181

REPORTING UNITS = mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	6010	0.78		1	1.58	1.62	80	84	3

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - 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 = 75 -125
RPD LIMITS = 20

LCS/MB REPORT FORM

LCS Source(s) : QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank MB	Method Blank ND
Lead	6010	1.64	2	82	80%	120%	0.05	U

*Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True*

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Method Blank; ND = " U " for Non- Detected

ASSOCIATED LABORATORIES
LCS REPORT FORM

QC Sample: LCS/LCSD

Matrix: WATER

Extraction Method : 3510 B

Prep. Date: 01/12/04

Analysis Date: 01/12/04

ID#'s in Batch: LR 122597, 122608, 122642, 122613

Reporting Units = mg/L

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

			PREP BLK					
			Value	Result	True	%Rec	L.Limit	H.Limit
Test	Method	LCS	ND	0.79	1	79	70%	130%
DIESEL	8015D	LCSD	ND	0.77	1	77	70%	130%

LCS Result = Lab Control Sample Result
True = True Value of LCS
L.Limit / H.Limit = LCS Control Limits

SURROGATE RECOVERY

Sample No.	O-Terphenyl
QC Limit	55-200
Method Blank	88
LCS	117
LCSD	113

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 122537-478

Matrix: SOLID

Extraction Method : 3545

Prep. Date: 01/13/04

Analysis Date: 01/14/04

ID#'s in Batch: LR 122589, 122613, 122720

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = mg/Kg

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
DIESEL	8015D	ND	25	18	18	72	72	0

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 = 70 - 130
RPD LIMITS = 30

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

	PREP BLK Value	Result	True	%Rec	L.Limit	H.Limit
LCS	ND	19	25	77	70%	130%
LCSD	ND	21	25	85	70%	130%

LCS Result = Lab Control Sample Result
True = True Value of LCS
L.Limit / H.Limit = LCS Control Limits

SURROGATE RECOVERY

Sample No.	O-Terphenyl
QC Limit	55-200
MS	98
MSD	96
Method Blank	84
[illegible]	193
LCSD	135

ASSOCIATED LABORATORIES
QA REPORT FORM

Determinative Method : EPA 8082 Preparative Method: EPA 3510

QC Sample: LCS / LCSD

Matrix: WATER

Analysis Date: 1/16/04

Batch Date: 1/14/04 (pcb 011404w)

Applies to: LR 122613 (sample 489825)

LAB CONTROL SPIKE / LAB CONTROL SPIKE DUPLICATE RESULTS
REPORTING UNITS = µg/L

Test	Spike Added	Spike Recovered		% Rec		RPD	QC Limits	
		LCS	LCSD	LCS	LCSD		RPD	% Rec
Aroclor 1260	2.50	2.23	2.31	89	92	4	35	70-130

Method Blank = All ND (Not Detected)

% R - LCS & LCSD = Percent Recovery from Lab Control Spike & Lab Control Spike Duplicate

R Relative Percent Difference of Lab Control Spike and Lab Control Spike Duplicate recoveries

ASSOCIATED LABORATORIES
QA REPORT FORM

Determinative Method : EPA 8082 Preparative Method: EPA 3545

QC Sample: 122613-489819

Matrix: SOLID

Analysis Date: 1/15/04

Batch Date: 1/13/04 (pcb 011304s)

Applies to: LR 122589, LR 122613 and LR 122625

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULTS
REPORTING UNITS = mg/Kg

Test	Sample Result	Spike Added	Spike Recovered		% Rec		RPD	QC Limits	
			MS	MSD	MS	MSD		RPD	% Rec
Aroclor 1260	0.08	0.500	0.620	0.562	108	96	10	35	50-125

ND = Not Detected
% Rec - MS & MSD = Percent Recovery from Matrix Spike & Matrix Spike Duplicate
F Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate recoveries

LAB CONTROL SPIKE RECOVERY / METHOD BLANK
REPORTING UNITS = mg/Kg

Test	Spike Added	Spike Recovered	% Rec LCS	QC Limit
Aroclor 1260	0.500	0.518	104	70-130

Method Blank = All ND
% Rec - LCS = Percent Recovery from Lab Control Spike

Associated Laboratories

NON-CONFORMANCE DOCUMENTATION

DATE: January 16, 2004	**DOCUMENT # :**
ID: LR 122613	**TYPE OF NC:**
CLIENT ID: 10577	***(QA Limits Client Req. Other)***
DEPARTMENT: Pesticides	

Description of Non-Conformance: Method 8082 – Polychlorinated Biphenyls

Recovery of DCB surrogate from sample 489825 is outside control limits due to matrix interference.

Signed (Initiator): _____ **Date:** 1-16-04

Description of Corrective Action:

None – all other surrogate recoveries in the QC batch conform, as do the spike recoveries from the LCS and LCSD samples. The extraction and analysis methodologies are valid.

Signed (Supervisor): _____ **Date:** 1/28/04

QA Manager Approval:

Signed(QA Manager): _____ **Date:** 1/28/04

ASSOCIATED LABORATORIES
806 N. Batavia • Orange, CA 92868
(714) 771-6900 • Fax: (714) 538-1209

122613

CHAIN OF CUSTODY RECORD

Date 1/9/04 Page 1 of 4

CLIENT M&A
ADDRESS 9841 AIRPORT BL, SUITE 1010
LOS ANGELES, CA
PROJECT NAME

PROJECT MANAGER KEITH FARRELL
PHONE NUMBER (310) 670-9221
SAMPLERS: (Signature)

Samples Intact Yes X No ___
County Seals Intact Yes ___ No X
Sample Ambient ___ Cooled X Frozen ___
Same Day ___ 24 Hr. ___
Regular X 48 Hr. ___

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE WATER	AIR	SOLID	NO OF CNTNRS	SUSP. CONTAM.	TESTS REQUIRED
B-77-3"	COMP-37	1/9/04	0814			✓	1		
B-78-3"		1/9/04	0815			✓	1		PCBS, LEAD, CHROME TPH O/D
B-79-3"		1/9/04	0816			✓	1		
B-80-3"		1/9/04	0817			✓	1		
B-71-3"	COMP-31	1/9/04	0741			✓	1		
B-72-3"		1/9/04	0753			✓	1		
B-73-3"		1/9/04	0803			✓	1		PCBS, LEAD, CHROME TPH O/D
B-68-3"		1/9/04	0819			✓	1		
B-67-3"		1/9/04	0820			✓	1		
B-66-3"		1/9/04	0822			✓	1		
B-69-5'	COMP-36	1/9/04	1034			✓	1		PCBS, LEAD, CHROME TPH O/D
B-70-5'		1/9/04	1024			✓	1		
B-75-5'		1/9/04	0831			✓	1		

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[signature]	Cuperatino Olivares	1440 1/09/04
Relinquished by: (Signature)	Received by Laboratory for analysis: (Signature) [signature] 1-12-04 7:30	Date/Time

Special Instructions:

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[signature]

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122613

CHAIN OF CUSTODY RECORD

Date 1/9/04 Page 2 of 4

CLIENT MEA
ADDRESS 9841 Airport Rd St 1010
LA Ca 90045
PROJECT NAME DICO
2003 - 123

PROJECT MANAGER Keith Farrell / Lynn Edlund
PHONE NUMBER 310 670 9221
SAMPLERS: (Signature) [signature] / RMC

Samples Intact Yes X No ___
County Seals Intact Yes ___ No X
Sample Ambient ___ Cooled X Frozen ___
Same Day ___ 24 Hr. ___
Regular X 48 Hr. ___

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE WATER	AIR	SOLID	NO OF CNTNRS	SUSP. CONTAM.	TESTS REQUIRED
B-74-5'	COMP-36 FROM PREVIOUS PAGE	1/9/04	0820			✓	1		PCBs, LEAD, CHROME, TPH O/D
B-76-5'	↓	1/9/04	0849			✓	1		↓
B-77-2.5'	COMP-38 (LAB DUP)	1/9/04	0901			✓	1		
B-78-2.5'		1/9/04	0927			✓	1		PCBS, LEAD, CHROME, TPH O/D
B-79-2.5		1/9/04	0942			✓	1		
B-80-2.5	↓	1/9/04	1004			✓	1		
B-69-2.5	COMP-35	1/9/04	1030			✓	1		
B-70-2.5		1/9/04	1022			✓	1		PCBS, LEAD, CHROME TPH O/D
B-74-2.5		1/9/04	0815			✓	1		
B-75-2.5		1/9/04	0826			✓	1		
B-76-2.5	↓	1/9/04	0842			✓	1		
B-77-5	COMP-39	1/9/04	0905			✓	1		PCBS, LEAD, CHROME TPH O/D
B-78-5	↓	1/9/04	0931			✓	1		↓

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[signature]	Cupertino Olivares [signature]	1440 1/09/04
Relinquished by: (Signature)	Received by Laboratory for analysis: (Signature)	Date/Time

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12263

CHAIN OF CUSTODY RECORD

Date 1/9/04 Page 3 of 4

CLIENT MEA
ADDRESS 9841 Airport Rd St 1010
LA CA 90045

PROJECT NAME DICO
2003-123

PROJECT MANAGER Keith Farrell, Lynn Edlund
PHONE NUMBER ~~626~~ 310 670 9221
SAMPLERS: (Signature) K Farrell / RMc

Samples Intact Yes ____ No ____
County Seals Intact Yes ____ No ____
Sample Ambient ___ Cooled ___ Frozen ___
Same Day ____ 24 Hr. ____
Regular X 48 Hr. ____

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE WATER	AIR	SOLID	NO OF CNTNRS	SUSP. CONTAM.	TESTS REQUIRED
B-79-5	COMP 39 FROM PREVIOUS PAGE	1/9/04	0946			✓	1		PCBS, LEAD, CHROME TPH O/D
B-80-5	↓	1/9/04	1010			✓	1		↓
B-66-5	COMP-33	1/9/04	1108			✓	1		
B-67-5		1/9/04	1058			✓	1		
B-68-5		1/9/04	1047			✓	1		PCBS, LEAD, CHROME
~~B-75~~ B-71-5		1/9/04	0750			✓	1		TPH O/D
B-72-5		1/9/04	0757			✓	1		
B-73-5	↓	1/9/04	0807			✓	1		
B-69-3"	COMP 34	1/9/04	1029			✓	1		
B-70-3"		1/9/04	1021			✓	1		
B-74-3		1/9/04	0815			✓	1		PCBS, LEAD, CHROME
B-75-3		1/9/04	0826			✓	1		TPH O/D
B-76-3	↓	1/9/04	0824			✓	1		

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[signature]	Cupertino Olivares	1440 1/09/04
Relinquished by: (Signature)	Received by Laboratory for analysis: (Signature)	Date/Time

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CHAIN OF CUSTODY RECORD

Date 1/9/04 Page 4 of 4

CLIENT MIA
ADDRESS 9841 AIRPORT BL #1010
LA 90045

PROJECT MANAGER KEITH PANNELL
PHONE NUMBER (310) 670-9221
SAMPLERS: (Signature)

PROJECT NAME

Samples Intact Yes X No ___
County Seals Intact Yes ___ No X
Sample Ambient ___ Cooled X Frozen ___
Same Day ___ 24 Hr. ___
Regular X 48 Hr. ___

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE WATER	AIR	SOLID	NO OF CNTNRS	SUSP. CONTAM.	TESTS REQUIRED
B-66-2.5	COMP-32	1/9/04	1105			✓	1		
B-67-2.5		1/9/04	1054			✓	1		
B-68-2.5		1/9/04	1043			✓	1		
B-71-2.5		1/9/04	0745			✓	1		PCBS, LEAD, CHROME
B-72-2.5		1/9/04	0754			✓	1		TPH O/D
B-73-2.5		1/9/04	0809			✓	1		
EB-2	EQUIPMENT BLANK	1/9/04	1220	✓			3		PCBS, LEAD, CHROME, TPH O/D

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
[signature]	Cupertino Olivares	1440 1/09/04
Relinquished by: (Signature)	Received by Laboratory for analysis: (Signature)	Date/Time

Special Instructions:

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ASSOCIATED LABORATORIES
06 North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Meredith & Associates, Inc (10577)
ATTN: Keith Farrel
9841 Airport Blvd.
Suite 1010
Los Angeles, CA 90045-5409

LAB REQUEST 122537
REPORTED 01/15/2004
RECEIVED 01/08/2004

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.	Client Sample Identification
489476	B-44-7
489477	B-44-10
489478	TB-1
489479	FB-1
489480	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. Bellare, Ph.D.
Vice President

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

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 489477 **Client Sample ID:** B-44-10

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 08:54

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	15.2	1	1.0	0.14	mg/Kg	01/12/04 KN
6010B	Lead	6.12	1	0.5	0.16	mg/Kg	01/12/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/13/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/13/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/13/04 RB
8082	PCB-1242	0.074	1	0.05	0.002	mg/Kg	01/13/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/13/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/13/04 RB
8082	PCB-1260	0.075	1	0.03	0.002	mg/Kg	01/13/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	110				%	50 - 135
8015	Diesel	160	20	60.0	0.7	mg/Kg	01/11/04 AF
8015	Oil	ND	20	100.0		mg/Kg	01/11/04 AF

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489478 **Client Sample ID:** TB-1

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 15:00

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	3.38	1	1.0	0.14	mg/Kg	01/12/04 KN
6010B	Lead	0.744	1	0.5	0.16	mg/Kg	01/12/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/13/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/13/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/13/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/13/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/13/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/13/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/13/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	110				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	01/11/04 AF
8015	Oil	ND	1	5		mg/Kg	01/11/04 AF

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489479 **Client Sample ID:** FB-1

Matrix: SOLID

Date Sampled: 01/08/2004
Tir Sampled: 15:40

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	2.54	1	1.0	0.14	mg/Kg	01/12/04 KN
6010B	Lead	0.399 J	1	0.5	0.16	mg/Kg	01/12/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/13/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/13/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/13/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/13/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/13/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/13/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/13/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	122				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	01/11/04 AF
8015	Oil	ND	1	5		mg/Kg	01/11/04 AF

E(Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489480 **Client Sample ID:** Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Chromium	ND	1	1.00	0.14	mg/Kg	01/12/04 KN
6010B	Lead	ND	1	0.50	0.16	mg/Kg	01/12/04 KN
8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/12/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/12/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/12/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/12/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/12/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/12/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/12/04 RB
Surrogates						**Units**	**Control Limits**
8082	DCB(Sur)	116				%	50 - 135
8015	Diesel	ND	1	3	0.7	mg/Kg	01/11/04 AF
8015	Oil	ND	1	5		mg/Kg	01/11/04 AF

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 122537-489478 QC# 011204SO1

Matrix: SOLID

Prep. Date: 01/12/04

Analysis Date: 01/12/04

Lab ID#'s in Batch: LR 122537, 122530

REPORTING UNITS = mg/Kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	6010	0.74		93	93	90	99	96	3
Chromium	6010	3.38		93	98	95	102	99	3

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - 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 = 75 -125
RPD LIMITS = 20

LCS/MB REPORT FORM

LCS Source(s) : QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank MB	Method Blank ND
Lead	6010	180	200	90	80%	120%	0.50	U
Chromium	6010	189	200	95	80%	120%	1.00	U

*Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True*

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Method Blank; ND = " U " for Non- Detected

ASSOCIATED LABORATORIES
QA REPORT FORM

Determinative Method : EPA 8082 Preparative Method: EPA 3545

QC Sample: 122328-488693

Matrix: SOLID

Analysis Date: 1/9/04

Batch Date: 1/8/04 (pcb 010804s-2)

Applies to: LR 122328, LR 122460, LR 122530 and LR 122537

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULTS
REPORTING UNITS = mg/Kg

Test	Sample Result	Spike Added	Spike Recovered		% Rec		RPD	QC Limits	
			MS	MSD	MS	MSD		RPD	% Rec
Aroclor 1260	ND	0.500	0.515	0.514	103	103	0	35	50-125

ND = Not Detected
% Rec - MS & MSD = Percent Recovery from Matrix Spike & Matrix Spike Duplicate
P - Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate recoveries

LAB CONTROL SPIKE RECOVERY / METHOD BLANK
REPORTING UNITS = mg/Kg

Test	Spike Added	Spike Recovered	% Rec LCS	QC Limit
Aroclor 1260	0.500	0.542	108	70-130

Method Blank = All ND
% Rec - LCS = Percent Recovery from Lab Control Spike

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 122537-478

Matrix: SOLID

Extraction Method : 3545

Prep. Date: 01/10/04

Analysis Date: 01/11/04

ID#'s in Batch: LR 122537, 122460, 122530

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = mg/Kg

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
DIESEL	8015D	ND	25	20	20	80	80	0

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 = 70 - 130
RPD LIMITS = 30

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

	PREP BLK Value	Result	True	%Rec	L.Limit	H.Limit
LCS	ND	28	25	112	70%	130%
LCSD	ND	28	25	112	70%	130%

LCS Result = Lab Control Sample Result
True = True Value of LCS
L.Limit / H.Limit = LCS Control Limits

SURROGATE RECOVERY

Sample No.	O-Terphenyl
QC Limit	55-200
MS	131
MSD	141
Method Blank	146
[illegible]	160
LCSD	160

ASSOCIATED LABORATORIES
806 N. Batavia • Orange, CA 92868
(714) 771-6900 • Fax: (714) 538-1209

122537

CHAIN OF CUSTODY RECORD

Date 1/8/04 Page 1 of 1

CLIENT M&A
ADDRESS 9841 AIRPORT BLVD, SUITE 1000
LOS ANGELES CA

PROJECT NAME

PROJECT MANAGER KEITH FARRELL
PHONE NUMBER (310) 670-9221
SAMPLERS: (Signature) Roger McCracken

Samples Intact Yes ✓ No ___
County Seals Intact Yes ___ No ✓
Sample Ambient ✓ Cooled ___ Frozen ___
Same Day ___ 24 Hr. ___
Regular ✓ 48 Hr. ___

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE WATER	AIR	SOLID	NO OF CNTNRS	SUSP. CONTAM.	TESTS REQUIRED
B-44-7'		1/8/04	0836			✓	1		HOLD
B-44-10'		1/8/04	0854			✓	1		PCBS, LEAD, CHROME, TPH O/D
TB-1	TRIP BLANK	1/8/04	1500			✓	✓		PCBS, LEAD, CHROME, TPH O/D
FB-1	FIELD BLANK	1/8/04	1540			✓	1		PCBS, LEAD, CHROME, TPH O/D

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Roger McCracken	Tom Visonhaber	1/8 3:40 P.M.
Relinquished by: (Signature) Tom Visonhaber	Received by Laboratory for analysis: (Signature)	Date/Time 1/8 5:10

Special Instructions:

I hereby authorize the performance of the above indicated work.

Roger McCracken

DISTRIBUTION: White with report. ...w to AL, Pink to Courier

ASSOCIATED LABORATORIES
...6 North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Meredith & Associates, Inc (10577)
ATTN: Roger McCracken
9841 Airport Blvd.
Suite 1010
Los Angeles, CA 90045-5409

LAB REQUEST 122708

REPORTED 01/27/2004

RECEIVED 01/13/2004

PROJECT #2003-123 Dico Oil

SUBMITTER Client

COMMENTS Added TCLP Lead on 1-22-04.

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.	Client Sample Identification
490216	Drum Comp-2
490217	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.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 490216 **Client Sample ID**: Drum Comp-2

Matrix: SOLID **Sample Description:** D-6 / D-7 / D-8 / D-9 / D-10

Date Sampled: 01/12/2004
Time Sampled: 11:30

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Antimony	ND	1	3.0	0.62	mg/Kg	01/16/04 KN
6010B	Arsenic	18.3	1	1.0	0.72	mg/Kg	01/16/04 KN
6010B	Barium	474	1	1.0	0.05	mg/Kg	01/16/04 KN
6010B	Beryllium	ND	1	0.5	0.16	mg/Kg	01/16/04 KN
6010B	Cadmium	20.4	1	0.5	0.06	mg/Kg	01/16/04 KN
6010B	Chromium	45.5	1	1.0	0.14	mg/Kg	01/16/04 KN
6010B	Cobalt	4.72	1	0.5	0.06	mg/Kg	01/16/04 KN
6010B	Copper	490	1	1.0	0.10	mg/Kg	01/16/04 KN
6010B	Lead	7240	1	0.5	0.16	mg/Kg	01/16/04 KN
1311/6010	Lead TCLP	22.4	1	0.05	0.002	mg/L	01/26/04 KN
6010B	Molybdenum	66.7	1	1.0	0.38	mg/Kg	01/16/04 KN
6010B	Nickel	21.0	1	1.5	0.29	mg/Kg	01/16/04 KN
6010B	Selenium	ND	1	1.0	0.55	mg/Kg	01/16/04 KN
6010B	Silver	ND	1	0.5	0.12	mg/Kg	01/16/04 KN
6010B	Thallium	ND	1	1.0	0.33	mg/Kg	01/16/04 KN
6010B	Vanadium	17.2	1	0.5	0.17	mg/Kg	01/16/04 KN
6010B	Zinc	1690	1	5.0	0.07	mg/Kg	01/16/04 KN
7471A	Mercury	0.29	1	0.14	0.02	mg/Kg	01/16/04 MDJ
8270C	1,2,4-Trichlorobenzene	ND	20	6660.0	32.1	ug/Kg	01/21/04 DP
8270C	1,2-Dichlorobenzene	ND	20	6660.0	69.1	ug/Kg	01/21/04 DP
8270C	1,3-Dichlorobenzene	ND	20	6660.0	133.5	ug/Kg	01/21/04 DP
8270C	1,4-Dichlorobenzene	ND	20	6660.0	58.0	ug/Kg	01/21/04 DP
8270C	2,4,5-Trichlorophenol	ND	20	33300.0	33.6	ug/Kg	01/21/04 DP
8270C	2,4,6-Trichlorophenol	ND	20	33300.0	31.9	ug/Kg	01/21/04 DP
8270C	2,4-Dichlorophenol	ND	20	6660.0	35.3	ug/Kg	01/21/04 DP
8270C	2,4-Dimethylphenol	ND	20	6660.0	37.1	ug/Kg	01/21/04 DP
8270C	2,4-Dinitrophenol	ND	20	33300.0	60.5	ug/Kg	01/21/04 DP
8270C	2,4-Dinitrotoluene	ND	20	6660.0	58.4	ug/Kg	01/21/04 DP
8270C	2,6-Dinitrotoluene	ND	20	6660.0	50.4	ug/Kg	01/21/04 DP
8270C	2-Chloronaphthalene	ND	20	6660.0	18.2	ug/Kg	01/21/04 DP
8270C	2-Chlorophenol	ND	20	6660.0	230.8	ug/Kg	01/21/04 DP
8270C	2-Methylnaphthalene	351000	20	6660.0	31.6	ug/Kg	01/21/04 DP
8270C	2-Methylphenol	ND	20	6660.0	194.3	ug/Kg	01/21/04 DP

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 490216 **Client Sample ID**: Drum Comp-2

Matrix: SOLID **Sample Description:** D-6 / D-7 / D-8 / D-9 / D-10

Date Sampled: 01/12/2004
Time Sampled: 11:30

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	2-Nitroaniline	ND	20	33300.0	30.8	ug/Kg	01/21/04 DP
8270C	2-Nitrophenol	ND	20	6660.0	63.4	ug/Kg	01/21/04 DP
8270C	3,3-Dichlorobenzidine	ND	20	6660.0	52.3	ug/Kg	01/21/04 DP
8270C	3-Methylphenol	ND	20	6660.0	211.4	ug/Kg	01/21/04 DP
8270C	3-Nitroaniline	ND	20	33300.0	31.1	ug/Kg	01/21/04 DP
8270C	4,6-Dinitro-2-methylphenol	ND	20	33300.0	44.9	ug/Kg	01/21/04 DP
8270C	4-Bromophenyl-phenylether	ND	20	6660.0	29.6	ug/Kg	01/21/04 DP
8270C	4-Chloro-3-methylphenol	ND	20	6660.0	48.8	ug/Kg	01/21/04 DP
8270C	4-Chloroaniline	ND	20	6660.0	19.2	ug/Kg	01/21/04 DP
8270C	4-Chlorophenyl-phenylether	ND	20	6660.0	38.1	ug/Kg	01/21/04 DP
8270C	4-Methylphenol	ND	20	6660.0	211.4	ug/Kg	01/21/04 DP
8270C	4-Nitroaniline	ND	20	33300.0	134.9	ug/Kg	01/21/04 DP
8270C	4-Nitrophenol	ND	20	33300.0	84.8	ug/Kg	01/21/04 DP
8270C	Acenaphthene	ND	20	6660.0	17.4	ug/Kg	01/21/04 DP
8270C	Acenaphthylene	ND	20	6660.0	14.8	ug/Kg	01/21/04 DP
8270C	Anthracene	ND	20	6660.0	9.9	ug/Kg	01/21/04 DP
8270C	Benzidine	ND	20	6660.0	260	ug/Kg	01/21/04 DP
8270C	Benzo(a)anthracene	ND	20	6660.0	26.2	ug/Kg	01/21/04 DP
8270C	Benzo(a)pyrene	ND	20	6660.0	20.0	ug/Kg	01/21/04 DP
8270C	Benzo(b)fluoranthene	ND	20	6660.0	29.9	ug/Kg	01/21/04 DP
8270C	Benzo(g,h,i)perylene	ND	20	6660.0	13.9	ug/Kg	01/21/04 DP
8270C	Benzo(k)fluoranthene	ND	20	6660.0	23.7	ug/Kg	01/21/04 DP
8270C	Benzoic Acid	ND	20	6660.0	70.0	ug/Kg	01/21/04 DP
8270C	Benzyl alcohol	ND	20	6660.0	197.0	ug/Kg	01/21/04 DP
8270C	bis(2-Chloroethoxy)methane	ND	20	6660.0	22.6	ug/Kg	01/21/04 DP
8270C	bis(2-Chloroethyl)ether	ND	20	6660.0	291.5	ug/Kg	01/21/04 DP
8270C	bis(2-Chloroisopropyl) ether	ND	20	6660.0	275.3	ug/Kg	01/21/04 DP
8270C	bis(2-Ethylhexyl)phthalate	275000	20	6660.0	36.1	ug/Kg	01/21/04 DP
8270C	Butylbenzylphthalate	ND	20	6660.0	25.9	ug/Kg	01/21/04 DP
8270C	Chrysene	ND	20	6660.0	38.0	ug/Kg	01/21/04 DP
8270C	Di-n-butylphthalate	ND	20	6660.0	30.7	ug/Kg	01/21/04 DP
8270C	Di-n-octylphthalate	ND	20	6660.0	66.3	ug/Kg	01/21/04 DP
8270C	Dibenz(a,h)anthracene	ND	20	6660.0	32.3	ug/Kg	01/21/04 DP
8270C	Dibenzofuran	ND	20	6660.0	16.4	ug/Kg	01/21/04 DP
8270C	Diethylphthalate	ND	20	6660.0	43.8	ug/Kg	01/21/04 DP
8270C	Dimethylphthalate	ND	20	6660.0	28.6	ug/Kg	01/21/04 DP
8270C	Fluoranthene	ND	20	6660.0	28.2	ug/Kg	01/21/04 DP
8270C	Fluorene	ND	20	6660.0	19.3	ug/Kg	01/21/04 DP
8270C	Hexachlorobenzene	ND	20	6660.0	49.4	ug/Kg	01/21/04 DP

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 490216 **Client Sample ID:** Drum Comp-2

Matrix: SOLID **Sample Description:** D-6 / D-7 / D-8 / D-9 / D-10

Date Sampled: 01/12/2004
Time Sampled: 11:30

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	Hexachlorobutadiene	ND	20	6660.0	40.1	ug/Kg	01/21/04 DP
8270C	Hexachlorocyclopentadiene	ND	20	6660.0	48.3	ug/Kg	01/21/04 DP
8270C	Hexachloroethane	ND	20	6660.0	180.8	ug/Kg	01/21/04 DP
8270C	Indeno(1,2,3-c,d)pyrene	ND	20	6660.0	36.1	ug/Kg	01/21/04 DP
8270C	Isophorone	ND	20	6660.0	30.4	ug/Kg	01/21/04 DP
8270C	N-Nitroso-di-n-propylamine	ND	20	6660.0	221.8	ug/Kg	01/21/04 DP
8270C	N-Nitrosodiphenylamine	ND	20	6660.0	29.1	ug/Kg	01/21/04 DP
8270C	Naphthalene	13900	20	6660.0	15.6	ug/Kg	01/21/04 DP
8270C	Nitrobenzene	ND	20	6660.0	60.6	ug/Kg	01/21/04 DP
8270C	Pentachlorophenol	ND	20	33300.0	38.0	ug/Kg	01/21/04 DP
8270C	Phenanthrene	133000	20	6660.0	19.4	ug/Kg	01/21/04 DP
8270C	Phenol	ND	20	6660.0	229.8	ug/Kg	01/21/04 DP
8270C	Pyrene	ND	20	6660.0	28.2	ug/Kg	01/21/04 DP

Surrogates				Units	Control Limits
8270C	2,4,6-Tribromophenol (sur)	97		%	17 - 122
8270C	2-Fluorobiphenyl (sur)	139	S	%	30 - 115
8270C	2-Fluorophenol (sur)	108		%	25 - 121
8270C	Nitrobenzene-d5 (sur)	120		%	23 - 120
8270C	Phenol-d5 (sur)	139	S	%	24 - 113
8270C	Terphenyl-d14 (sur)	122		%	18 - 137

8260B	1,1,1,2-Tetrachloroethane	ND	1000	5000.0	2.19	ug/Kg	01/14/04 AM
8260B	1,1,1-Trichloroethane	ND	1000	5000.0	0.47	ug/Kg	01/14/04 AM
8260B	1,1,2,2-Tetrachloroethane	ND	1000	5000.0	0.50	ug/Kg	01/14/04 AM
8260B	1,1,2-Trichloroethane	ND	1000	5000.0	0.57	ug/Kg	01/14/04 AM
8260B	1,1,2-Trichlorotrifluoroethane	ND	1000	5000.0	0.10	ug/Kg	01/14/04 AM
8260B	1,1-Dichloroethane	ND	1000	5000.0	0.74	ug/Kg	01/14/04 AM
8260B	1,1-Dichloroethene	ND	1000	5000.0	0.43	ug/Kg	01/14/04 AM
8260B	1,1-Dichloropropene	ND	1000	5000.0	1.30	ug/Kg	01/14/04 AM
8260B	1,2,3-Trichlorobenzene	ND	1000	5000.0	0.54	ug/Kg	01/14/04 AM
8260B	1,2,3-Trichloropropane	ND	1000	5000.0	0.65	ug/Kg	01/14/04 AM
8260B	1,2,4-Trichlorobenzene	ND	1000	5000.0	0.54	ug/Kg	01/14/04 AM
8260B	1,2,4-Trimethylbenzene	96600	1000	5000.0	0.60	ug/Kg	01/14/04 AM
8260B	1,2-Dibromo-3-chloropropane	ND	1000	5000.0	1.92	ug/Kg	01/14/04 AM
8260B	1,2-Dibromoethane	ND	1000	5000.0	0.43	ug/Kg	01/14/04 AM
8260B	1,2-Dichlorobenzene	ND	1000	5000.0	0.45	ug/Kg	01/14/04 AM
8260B	1,2-Dichloroethane	ND	1000	5000.0	0.59	ug/Kg	01/14/04 AM

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 490216 **Client Sample ID**: Drum Comp-2

Matrix: SOLID **Sample Description:** D-6 / D-7 / D-8 / D-9 / D-10

Date Sampled: 01/12/2004
Time Sampled: 11:30

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	1,2-Dichloropropane	ND	1000	5000.0	0.58	ug/Kg	01/14/04 AM
8260B	1,3,5-Trimethylbenzene	34300	1000	5000.0	0.55	ug/Kg	01/14/04 AM
8260B	1,3-Dichlorobenzene	ND	1000	5000.0	0.44	ug/Kg	01/14/04 AM
8260B	1,3-Dichloropropane	ND	1000	5000.0	0.51	ug/Kg	01/14/04 AM
8260B	1,4-Dichlorobenzene	ND	1000	5000.0	0.46	ug/Kg	01/14/04 AM
8260B	1,4-Dioxane	ND	1000	200000.0	200	ug/Kg	01/14/04 AM
8260B	1-Chlorohexane	ND	1000	5000.0	0.38	ug/Kg	01/14/04 AM
8260B	2,2-Dichloropropane	ND	1000	5000.0	0.47	ug/Kg	01/14/04 AM
8260B	2-Butanone (MEK)	ND	1000	100000.0	0.98	ug/Kg	01/14/04 AM
8260B	2-Chloroethyl vinyl ether	ND	1000	5000.0	0.46	ug/Kg	01/14/04 AM
8260B	2-Chlorotoluene	ND	1000	5000.0	0.92	ug/Kg	01/14/04 AM
8260B	2-Hexanone	ND	1000	5000.0	4.7	ug/Kg	01/14/04 AM
8260B	4-Chlorotoluene	ND	1000	5000.0	0.52	ug/Kg	01/14/04 AM
8260B	4-Methyl -2- Pentanone	ND	1000	5000.0	0.49	ug/Kg	01/14/04 AM
8260B	Acetone	ND	1000	50000.0	3.81	ug/Kg	01/14/04 AM
8260B	Acetonitrile	ND	1000	5000.0	0.7	ug/Kg	01/14/04 AM
8260B	Acrolein	ND	1000	200000.0	172	ug/Kg	01/14/04 AM
8260B	Acrylonitrile	ND	1000	5000.0	1.3	ug/Kg	01/14/04 AM
8260B	Allyl chloride	ND	1000	5000.0	0.4	ug/Kg	01/14/04 AM
8260B	Benzene	3740 J	1000	5000.0	0.39	ug/Kg	01/14/04 AM
8260B	Benzyl chloride	ND	1000	5000.0	0.38	ug/Kg	01/14/04 AM
8260B	Bromobenzene	ND	1000	5000.0	0.65	ug/Kg	01/14/04 AM
8260B	Bromochloromethane	ND	1000	5000.0	0.36	ug/Kg	01/14/04 AM
8260B	Bromodichloromethane	ND	1000	5000.0	0.48	ug/Kg	01/14/04 AM
8260B	Bromoform	ND	1000	5000.0	0.53	ug/Kg	01/14/04 AM
8260B	Bromomethane	ND	1000	5000.0	2.07	ug/Kg	01/14/04 AM
8260B	Carbon Disulfide	ND	1000	5000.0	0.8	ug/Kg	01/14/04 AM
8260B	Carbon tetrachloride	ND	1000	5000.0	0.40	ug/Kg	01/14/04 AM
8260B	Chlorobenzene	ND	1000	5000.0	0.42	ug/Kg	01/14/04 AM
8260B	Chloroethane	ND	1000	5000.0	1.1	ug/Kg	01/14/04 AM
8260B	Chloroform	ND	1000	5000.0	0.46	ug/Kg	01/14/04 AM
8260B	Chloromethane	ND	1000	5000.0	0.25	ug/Kg	01/14/04 AM
8260B	cis-1,2-Dichloroethene	ND	1000	5000.0	0.79	ug/Kg	01/14/04 AM
8260B	cis-1,3-Dichloropropene	ND	1000	5000.0	0.38	ug/Kg	01/14/04 AM
8260B	cis-1,4-Dichloro-2-butene	ND	1000	5000.0	0.59	ug/Kg	01/14/04 AM
8260B	Dibromochloromethane	ND	1000	5000.0	0.44	ug/Kg	01/14/04 AM
8260B	Dibromomethane	ND	1000	5000.0	0.46	ug/Kg	01/14/04 AM
8260B	Dichlorodifluoromethane	ND	1000	5000.0	0.16	ug/Kg	01/14/04 AM
8260B	Ethyl benzene	30000	1000	5000.0	0.41	ug/Kg	01/14/04 AM

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 490216 **Client Sample ID:** Drum Comp-2

Matrix: SOLID **Sample Description:** D-6 / D-7 / D-8 / D-9 / D-10

Date Sampled: 01/12/2004
Time Sampled: 11:30

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Ethyl methacrylate	ND	1000	5000.0	1.8	ug/Kg	01/14/04 AM
8260B	Hexachlorobutadiene	ND	1000	5000.0	0.29	ug/Kg	01/14/04 AM
8260B	Iodomethane	ND	1000	5000.0	0.6	ug/Kg	01/14/04 AM
8260B	Isopropylbenzene (Cumene)	8450	1000	5000.0	0.38	ug/Kg	01/14/04 AM
8260B	Methacrylonitrile	ND	1000	5000.0	2.70	ug/Kg	01/14/04 AM
8260B	Methyl methacrylate	ND	1000	5000.0	0.21	ug/Kg	01/14/04 AM
8260B	Methyl-tert-butylether (MTBE)	ND	1000	5000.0	0.51	ug/Kg	01/14/04 AM
8260B	Methylene chloride	ND	1000	5000.0	0.91	ug/Kg	01/14/04 AM
8260B	n-Butylbenzene	10900	1000	5000.0	0.38	ug/Kg	01/14/04 AM
8260B	n-Propylbenzene	15100	1000	5000.0	0.32	ug/Kg	01/14/04 AM
8260B	Naphthalene	31700	1000	5000.0	0.60	ug/Kg	01/14/04 AM
8260B	p-Isopropyltoluene	12900	1000	5000.0	0.32	ug/Kg	01/14/04 AM
8260B	Pentachloroethane	ND	1000	5000.0	0.6	ug/Kg	01/14/04 AM
8260B	Propionitrile	ND	1000	5000.0	5	ug/Kg	01/14/04 AM
8260B	sec-Butylbenzene	ND	1000	5000.0	0.31	ug/Kg	01/14/04 AM
8260B	Styrene	ND	1000	5000.0	0.37	ug/Kg	01/14/04 AM
8260B	tert-Butylbenzene	ND	1000	5000.0	0.41	ug/Kg	01/14/04 AM
8260B	Tetrachloroethene	ND	1000	5000.0	0.49	ug/Kg	01/14/04 AM
8260B	Toluene	80300	1000	5000.0	0.42	ug/Kg	01/14/04 AM
8260B	trans-1,2-Dichloroethene	ND	1000	5000.0	0.48	ug/Kg	01/14/04 AM
8260B	trans-1,3-Dichloropropene	ND	1000	5000.0	0.44	ug/Kg	01/14/04 AM
8260B	trans-1,4-Dichloro-2-butene	ND	1000	5000.0	2.35	ug/Kg	01/14/04 AM
8260B	Trichloroethene	ND	1000	5000.0	0.43	ug/Kg	01/14/04 AM
8260B	Trichlorofluoromethane	ND	1000	5000.0	0.40	ug/Kg	01/14/04 AM
8260B	Vinyl acetate	ND	1000	50000.0	10.2	ug/Kg	01/14/04 AM
8260B	Vinyl chloride	ND	1000	5000.0	0.47	ug/Kg	01/14/04 AM
8260B	Xylenes, total	153000	1000	5000.0	0.8	ug/Kg	01/14/04 AM

Surrogates			Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	98	%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	96	%	70 - 135
8260B	Surr3 - Toluene-d8	102	%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	109	%	70 - 135

8082	PCB-1016	ND	2	0.06	0.003	mg/Kg	01/17/04 RB
8082	PCB-1221	ND	2	0.12	0.006	mg/Kg	01/17/04 RB
8082	PCB-1232	ND	2	0.1	0.004	mg/Kg	01/17/04 RB
8082	PCB-1242	0.70	2	0.1	0.002	mg/Kg	01/17/04 RB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 490216 **Client Sample ID**: Drum Comp-2

Matrix: SOLID **Sample Description:** D-6 / D-7 / D-8 / D-9 / D-10

Date Sampled: 01/12/2004
Time Sampled: 11:30

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1248	ND	2	0.16	0.008	mg/Kg	01/17/04 RB
8082	PCB-1254	ND	2	0.06	0.001	mg/Kg	01/17/04 RB
8082	PCB-1260	1.3	2	0.06	0.002	mg/Kg	01/17/04 RB

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 490217 **Client Sample ID:** Laboratory Method Blank

Matrix: SOLID **Sample Description:** Comp. of D-6, D-7, D-8, D-9, D-10

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Antimony	ND	1	3.00	0.62	mg/Kg	01/16/04 KN
6010B	Arsenic	ND	1	1.00	0.72	mg/Kg	01/16/04 KN
6010B	Barium	ND	1	1.00	0.05	mg/Kg	01/16/04 KN
6010B	Beryllium	ND	1	0.50	0.16	mg/Kg	01/16/04 KN
6010B	Cadmium	ND	1	0.50	0.06	mg/Kg	01/16/04 KN
6010B	Chromium	ND	1	1.00	0.14	mg/Kg	01/16/04 KN
6010B	Cobalt	ND	1	0.50	0.06	mg/Kg	01/16/04 KN
6010B	Copper	ND	1	1.00	0.10	mg/Kg	01/16/04 KN
6010B	Lead	ND	1	0.50	0.16	mg/Kg	01/16/04 KN
6010B	Molybdenum	ND	1	1.00	0.38	mg/Kg	01/16/04 KN
6010B	Nickel	ND	1	1.50	0.29	mg/Kg	01/16/04 KN
6010B	Selenium	ND	1	1.00	0.55	mg/Kg	01/16/04 KN
6010B	Silver	ND	1	0.50	0.12	mg/Kg	01/16/04 KN
6010B	Thallium	ND	1	1.00	0.33	mg/Kg	01/16/04 KN
6010B	Vanadium	ND	1	0.50	0.17	mg/Kg	01/16/04 KN
6010B	Zinc	ND	1	5.00	0.07	mg/Kg	01/16/04 KN
7471A	Mercury	ND	1	0.14	0.02	mg/Kg	01/16/04 MDJ
8270C	1,2,4-Trichlorobenzene	ND	1	333	32.1	ug/Kg	01/16/04 DP
8270C	1,2-Dichlorobenzene	ND	1	333	69.1	ug/Kg	01/16/04 DP
8270C	1,3-Dichlorobenzene	ND	1	333	133.5	ug/Kg	01/16/04 DP
8270C	1,4-Dichlorobenzene	ND	1	333	58.0	ug/Kg	01/16/04 DP
8270C	2,4,5-Trichlorophenol	ND	1	1665	33.6	ug/Kg	01/16/04 DP
8270C	2,4,6-Trichlorophenol	ND	1	1665	31.9	ug/Kg	01/16/04 DP
8270C	2,4-Dichlorophenol	ND	1	333	35.3	ug/Kg	01/16/04 DP
8270C	2,4-Dimethylphenol	ND	1	333	37.1	ug/Kg	01/16/04 DP
8270C	2,4-Dinitrophenol	ND	1	1665	60.5	ug/Kg	01/16/04 DP
8270C	2,4-Dinitrotoluene	ND	1	333	58.4	ug/Kg	01/16/04 DP
8270C	2,6-Dinitrotoluene	ND	1	333	50.4	ug/Kg	01/16/04 DP
8270C	2-Chloronaphthalene	ND	1	333	18.2	ug/Kg	01/16/04 DP
8270C	2-Chlorophenol	ND	1	333	230.8	ug/Kg	01/16/04 DP
8270C	2-Methylnaphthalene	ND	1	333	31.6	ug/Kg	01/16/04 DP
8270C	2-Methylphenol	ND	1	333	194.3	ug/Kg	01/16/04 DP
8270C	2-Nitroaniline	ND	1	1665	30.8	ug/Kg	01/16/04 DP

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 490217 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID **Sample Description:** Comp. of D-6, D-7, D-8, D-9, D-10

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	2-Nitrophenol	ND	1	333	63.4	ug/Kg	01/16/04 DP
8270C	3,3-Dichlorobenzidine	ND	1	333	52.3	ug/Kg	01/16/04 DP
8270C	3-Methylphenol	ND	1	333	211.4	ug/Kg	01/16/04 DP
8270C	3-Nitroaniline	ND	1	1665	31.1	ug/Kg	01/16/04 DP
8270C	4,6-Dinitro-2-methylphenol	ND	1	1665	44.9	ug/Kg	01/16/04 DP
8270C	4-Bromophenyl-phenylether	ND	1	333	29.6	ug/Kg	01/16/04 DP
8270C	4-Chloro-3-methylphenol	ND	1	333	48.8	ug/Kg	01/16/04 DP
8270C	4-Chloroaniline	ND	1	333	19.2	ug/Kg	01/16/04 DP
8270C	4-Chlorophenyl-phenylether	ND	1	333	38.1	ug/Kg	01/16/04 DP
8270C	4-Methylphenol	ND	1	333	211.4	ug/Kg	01/16/04 DP
8270C	4-Nitroaniline	ND	1	1665	134.9	ug/Kg	01/16/04 DP
8270C	4-Nitrophenol	ND	1	1665	84.8	ug/Kg	01/16/04 DP
8270C	Acenaphthene	ND	1	333	17.4	ug/Kg	01/16/04 DP
8270C	Acenaphthylene	ND	1	333	14.8	ug/Kg	01/16/04 DP
8270C	Anthracene	ND	1	333	9.9	ug/Kg	01/16/04 DP
8270C	Benzidine	ND	1	333	260	ug/Kg	01/16/04 DP
8270C	Benzo(a)anthracene	ND	1	333	26.2	ug/Kg	01/16/04 DP
8270C	Benzo(a)pyrene	ND	1	333	20.0	ug/Kg	01/16/04 DP
8270C	Benzo(b)fluoranthene	ND	1	333	29.9	ug/Kg	01/16/04 DP
8270C	Benzo(g,h,i)perylene	ND	1	333	13.9	ug/Kg	01/16/04 DP
8270C	Benzo(k)fluoranthene	ND	1	333	23.7	ug/Kg	01/16/04 DP
8270C	Benzoic Acid	ND	1	333	70.0	ug/Kg	01/16/04 DP
8270C	Benzyl alcohol	ND	1	333	197.0	ug/Kg	01/16/04 DP
8270C	bis(2-Chloroethoxy)methane	ND	1	333	22.6	ug/Kg	01/16/04 DP
8270C	bis(2-Chloroethyl)ether	ND	1	333	291.5	ug/Kg	01/16/04 DP
8270C	bis(2-Chloroisopropyl) ether	ND	1	333	275.3	ug/Kg	01/16/04 DP
8270C	bis(2-Ethylhexyl)phthalate	ND	1	333	36.1	ug/Kg	01/16/04 DP
8270C	Butylbenzylphthalate	ND	1	333	25.9	ug/Kg	01/16/04 DP
8270C	Chrysene	ND	1	333	38.0	ug/Kg	01/16/04 DP
8270C	Di-n-butylphthalate	ND	1	333	30.7	ug/Kg	01/16/04 DP
8270C	Di-n-octylphthalate	ND	1	333	66.3	ug/Kg	01/16/04 DP
8270C	Dibenz(a,h)anthracene	ND	1	333	32.3	ug/Kg	01/16/04 DP
8270C	Dibenzofuran	ND	1	333	16.4	ug/Kg	01/16/04 DP
8270C	Diethylphthalate	ND	1	333	43.8	ug/Kg	01/16/04 DP
8270C	Dimethylphthalate	ND	1	333	28.6	ug/Kg	01/16/04 DP
8270C	Fluoranthene	ND	1	333	28.2	ug/Kg	01/16/04 DP
8270C	Fluorene	ND	1	333	19.3	ug/Kg	01/16/04 DP
8270C	Hexachlorobenzene	ND	1	333	49.4	ug/Kg	01/16/04 DP
8270C	Hexachlorobutadiene	ND	1	333	40.1	ug/Kg	01/16/04 DP

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 490217 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID **Sample Description:** Comp. of D-6, D-7, D-8, D-9, D-10

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	Hexachlorocyclopentadiene	ND	1	333	48.3	ug/Kg	01/16/04 DP
8270C	Hexachloroethane	ND	1	333	180.8	ug/Kg	01/16/04 DP
8270C	Indeno(1,2,3-c,d)pyrene	ND	1	333	36.1	ug/Kg	01/16/04 DP
8270C	Isophorone	ND	1	333	30.4	ug/Kg	01/16/04 DP
8270C	N-Nitroso-di-n-propylamine	ND	1	333	221.8	ug/Kg	01/16/04 DP
8270C	N-Nitrosodiphenylamine	ND	1	333	29.1	ug/Kg	01/16/04 DP
8270C	Naphthalene	ND	1	333	15.6	ug/Kg	01/16/04 DP
8270C	Nitrobenzene	ND	1	333	60.6	ug/Kg	01/16/04 DP
8270C	Pentachlorophenol	ND	1	1665	38.0	ug/Kg	01/16/04 DP
8270C	Phenanthrene	ND	1	333	19.4	ug/Kg	01/16/04 DP
8270C	Phenol	ND	1	333	229.8	ug/Kg	01/16/04 DP
8270C	Pyrene	ND	1	333	28.2	ug/Kg	01/16/04 DP

Surrogates			Units	Control Limits
8270C	2,4,6-Tribromophenol (sur)	37	%	17 - 122
8270C	2-Fluorobiphenyl (sur)	51	%	30 - 115
8270C	2-Fluorophenol (sur)	46	%	25 - 121
8270C	Nitrobenzene-d5 (sur)	48	%	23 - 120
8270C	Phenol-d5 (sur)	65	%	24 - 113
8270C	Terphenyl-d14 (sur)	86	%	18 - 137

8260B	1,1,1,2-Tetrachloroethane	ND	1	5	2.19	ug/Kg	01/14/04 AM
8260B	1,1,1-Trichloroethane	ND	1	5	0.47	ug/Kg	01/14/04 AM
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.50	ug/Kg	01/14/04 AM
8260B	1,1,2-Trichloroethane	ND	1	5	0.57	ug/Kg	01/14/04 AM
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	0.10	ug/Kg	01/14/04 AM
8260B	1,1-Dichloroethane	ND	1	5	0.74	ug/Kg	01/14/04 AM
8260B	1,1-Dichloroethene	ND	1	5	0.43	ug/Kg	01/14/04 AM
8260B	1,1-Dichloropropene	ND	1	5	1.30	ug/Kg	01/14/04 AM
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.54	ug/Kg	01/14/04 AM
8260B	1,2,3-Trichloropropane	ND	1	5	0.65	ug/Kg	01/14/04 AM
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/Kg	01/14/04 AM
8260B	1,2,4-Trimethylbenzene	ND	1	5	0.60	ug/Kg	01/14/04 AM
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	1.92	ug/Kg	01/14/04 AM
8260B	1,2-Dibromoethane	ND	1	5	0.43	ug/Kg	01/14/04 AM
8260B	1,2-Dichlorobenzene	ND	1	5	0.45	ug/Kg	01/14/04 AM
8260B	1,2-Dichloroethane	ND	1	5	0.59	ug/Kg	01/14/04 AM
8260B	1,2-Dichloropropane	ND	1	5	0.58	ug/Kg	01/14/04 AM

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 490217 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID **Sample Description:** Comp. of D-6, D-7, D-8, D-9, D-10

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	1,3,5-Trimethylbenzene	ND	1	5	0.55	ug/Kg	01/14/04 AM
8260B	1,3-Dichlorobenzene	ND	1	5	0.44	ug/Kg	01/14/04 AM
8260B	1,3-Dichloropropane	ND	1	5	0.51	ug/Kg	01/14/04 AM
8260B	1,4-Dichlorobenzene	ND	1	5	0.46	ug/Kg	01/14/04 AM
8260B	1,4-Dioxane	ND	1	200	200	ug/Kg	01/14/04 AM
8260B	1-Chlorohexane	ND	1	5	0.38	ug/Kg	01/14/04 AM
8260B	2,2-Dichloropropane	ND	1	5	0.47	ug/Kg	01/14/04 AM
8260B	2-Butanone (MEK)	ND	1	100	0.98	ug/Kg	01/14/04 AM
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.46	ug/Kg	01/14/04 AM
8260B	2-Chlorotoluene	ND	1	5	0.92	ug/Kg	01/14/04 AM
8260B	2-Hexanone	ND	1	5	4.7	ug/Kg	01/14/04 AM
8260B	4-Chlorotoluene	ND	1	5	0.52	ug/Kg	01/14/04 AM
8260B	4-Methyl -2- Pentanone	ND	1	5	0.49	ug/Kg	01/14/04 AM
8260B	Acetone	ND	1	50	3.81	ug/Kg	01/14/04 AM
8260B	Acetonitrile	ND	1	5	0.7	ug/Kg	01/14/04 AM
8260B	Acrolein	ND	1	200	172	ug/Kg	01/14/04 AM
8260B	Acrylonitrile	ND	1	5	1.3	ug/Kg	01/14/04 AM
8260B	Allyl chloride	ND	1	5	0.4	ug/Kg	01/14/04 AM
8260B	Benzene	ND	1	5	0.39	ug/Kg	01/14/04 AM
8260B	Benzyl chloride	ND	1	5	0.38	ug/Kg	01/14/04 AM
8260B	Bromobenzene	ND	1	5	0.65	ug/Kg	01/14/04 AM
8260B	Bromochloromethane	ND	1	5	0.36	ug/Kg	01/14/04 AM
8260B	Bromodichloromethane	ND	1	5	0.48	ug/Kg	01/14/04 AM
8260B	Bromoform	ND	1	5	0.53	ug/Kg	01/14/04 AM
8260B	Bromomethane	ND	1	5	2.07	ug/Kg	01/14/04 AM
8260B	Carbon Disulfide	ND	1	5	0.8	ug/Kg	01/14/04 AM
8260B	Carbon tetrachloride	ND	1	5	0.40	ug/Kg	01/14/04 AM
8260B	Chlorobenzene	ND	1	5	0.42	ug/Kg	01/14/04 AM
8260B	Chloroethane	ND	1	5	1.1	ug/Kg	01/14/04 AM
8260B	Chloroform	ND	1	5	0.46	ug/Kg	01/14/04 AM
8260B	Chloromethane	ND	1	5	0.25	ug/Kg	01/14/04 AM
8260B	cis-1,2-Dichloroethene	ND	1	5	0.79	ug/Kg	01/14/04 AM
8260B	cis-1,3-Dichloropropene	ND	1	5	0.38	ug/Kg	01/14/04 AM
8260B	cis-1,4-Dichloro-2-butene	ND	1	5	0.59	ug/Kg	01/14/04 AM
8260B	Dibromochloromethane	ND	1	5	0.44	ug/Kg	01/14/04 AM
8260B	Dibromomethane	ND	1	5	0.46	ug/Kg	01/14/04 AM
8260B	Dichlorodifluoromethane	ND	1	5	0.16	ug/Kg	01/14/04 AM
8260B	Ethyl benzene	ND	1	5	0.41	ug/Kg	01/14/04 AM
8260B	Ethyl methacrylate	ND	1	5	1.8	ug/Kg	01/14/04 AM

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 490217 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID **Sample Description:** Comp. of D-6, D-7, D-8, D-9, D-10

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Hexachlorobutadiene	ND	1	5	0.29	ug/Kg	01/14/04 AM
8260B	Iodomethane	ND	1	5	0.6	ug/Kg	01/14/04 AM
8260B	Isopropylbenzene (Cumene)	ND	1	5	0.38	ug/Kg	01/14/04 AM
8260B	m and p-Xylene	ND	1	5	0.67	ug/Kg	01/14/04 AM
8260B	Methacrylonitrile	ND	1	5	2.70	ug/Kg	01/14/04 AM
8260B	Methyl methacrylate	ND	1	5	0.21	ug/Kg	01/14/04 AM
8260B	Methyl-tert-butylether (MTBE)	ND	1	5	0.51	ug/Kg	01/14/04 AM
8260B	Methylene chloride	ND	1	5	0.91	ug/Kg	01/14/04 AM
8260B	n-Butylbenzene	ND	1	5	0.38	ug/Kg	01/14/04 AM
8260B	n-Propylbenzene	ND	1	5	0.32	ug/Kg	01/14/04 AM
8260B	Naphthalene	ND	1	5	0.60	ug/Kg	01/14/04 AM
8260B	o-Xylene	ND	1	5	0.35	ug/Kg	01/14/04 AM
8260B	p-Isopropyltoluene	ND	1	5	0.32	ug/Kg	01/14/04 AM
8260B	Pentachloroethane	ND	1	5	0.6	ug/Kg	01/14/04 AM
8260B	Propionitrile	ND	1	5	5	ug/Kg	01/14/04 AM
8260B	sec-Butylbenzene	ND	1	5	0.31	ug/Kg	01/14/04 AM
8260B	Styrene	ND	1	5	0.37	ug/Kg	01/14/04 AM
8260B	tert-Butylbenzene	ND	1	5	0.41	ug/Kg	01/14/04 AM
8260B	Tetrachloroethene	ND	1	5	0.49	ug/Kg	01/14/04 AM
8260B	Toluene	ND	1	5	0.42	ug/Kg	01/14/04 AM
8260B	trans-1,2-Dichloroethene	ND	1	5	0.48	ug/Kg	01/14/04 AM
8260B	trans-1,3-Dichloropropene	ND	1	5	0.44	ug/Kg	01/14/04 AM
8260B	trans-1,4-Dichloro-2-butene	ND	1	5	2.35	ug/Kg	01/14/04 AM
8260B	Trichloroethene	ND	1	5	0.43	ug/Kg	01/14/04 AM
8260B	Trichlorofluoromethane	ND	1	5	0.40	ug/Kg	01/14/04 AM
8260B	Vinyl acetate	ND	1	50	10.2	ug/Kg	01/14/04 AM
8260B	Vinyl chloride	ND	1	5	0.47	ug/Kg	01/14/04 AM
8260B	Xylenes, total	ND	1	5	0.8	ug/Kg	01/14/04 AM

Surrogates			Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	94	%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	100	%	70 - 135
8260B	Surr3 - Toluene-d8	105	%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	103	%	70 - 135

8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/17/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/17/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/17/04 RB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 490217 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID **Sample Description:** Comp. of D-6, D-7, D-8, D-9, D-10

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/17/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/17/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/17/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/17/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	116	%	50 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 122547-489499 QC# 012304tclp1

atrix: Water

Prep. Date: 01/23/04

Analysis Date: 01/26/04

Lab ID#'s in Batch: LR 122547, 123150, 122708, 123353, 122589

REPORTING UNITS = mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Arsenic	6010	0.05	U	1.0	0.86	0.91	86	91	6
Selenium	6010	0.01		1.0	0.96	1.02	95	101	6
Lead	* 6010	1.97		1.0	2.58	2.67	61	70	3
Barium	* 6010	1.61		1.0	2.27	2.37	66	76	4
Cadmium	6010	0.05	U	1.0	0.83	0.88	83	88	6
Chromium	6010	0.05	U	1.0	0.77	0.80	77	80	4
.lver	6010	0.05	U	0.5	0.39	0.41	78	82	5
Copper	6010	0.260		1.0	1.03	1.08	77	82	5

*** = Outside QC limits, due to matrix Interference**

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - 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	*= 75 -125*
RPD LIMITS	*= 20*

LCS/MB REPORT FORM

LCS Source(s) : QC21-LOT#QC2/22/01;QC7-LOT7A13/05

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank MB	Method Blank ND
Arsenic	6010	1.76	2	88	80%	120%	0.05	U
Selenium	6010	1.93	2	97	80%	120%	0.05	U
Lead	6010	1.79	2	90	80%	120%	0.05	U
Barium	6010	1.80	2	90	80%	120%	0.10	U
Cadmium	6010	2.01	2	101	80%	120%	0.05	U
hromium	6010	1.81	2	91	80%	120%	0.05	U
Silver	6010	0.88	1	88	80%	120%	0.05	U
Copper	6010	1.89	2	95	80%	120%	0.01	U

CHAIN OF CUSTODY RECORD

Sheet 1 of 1.

122708

MEREDITH & ASSOCIATES, INC.

SCIENTIFIC and REGULATORY CONSULTANTS

9841 Airport Blvd., Suite 1010 Los Angeles, California 90045-5409
Phone (310) 670-9221 Fax: (310) 670-9512

CONTACT PERSON(S): LYNN EDLUND

CLIENT: L. MARMOL PROJECT NO.: 2003-123

SITE NAME: DICO OIL

SITE LOCATION: SIGNAL HILL

SAMPLING LOCATION: DRUMS

SAMPLING INFORMATION: TANK WASTE

ANALYSIS REQUESTED

TURNAROUND TIME: NORMAL ✓ RUSH

COMMENTS (Precautions/Hazards/ Field Conditions)

SAMPLE ID#	LAB ID#	DATE	TIME	SAMPLE TYPE	# of CONTAINERS	PRESERVATION	OTHER	5035/8260B (VOCs)	8270C (SVOCs)	8082 (PCBs)	6010/7000 (METALS)	NOTES
DRUM-COMP-2		1/12/04	1130	SOIL	9	ICE	✓	X	X	X	X	MAKE COMPOSITE FROM D-6, D-7, D-8, D-9, D-10 PRIOR TO ANALYSES 4-OZ. JARS ONLY RUN VOAs AS IS

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
COLLECTED by	Roger W McCracken	R. MCCRACKEN	M&A	1/12/04	1200 AM PM
RELEASED by	Roger W McCracken	R. MCCRACKEN	M&A	1/12/04	[illegible] AM PM
RELEASED to	Tom Vinsonhaler	TOM VINSONHALER	ASSOCIATED LAB	[illegible]	[illegible] AM PM
RELEASED	[illegible]	[illegible]	Associated Lab	4/1	[illegible] AM PM
RECEIVED by LABORATORY					AM PM

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Meredith & Associates, Inc (10577)
ATTN: Keith Farrell
9841 Airport Blvd.
Suite 1010
Los Angeles, CA 90045-5409

LAB REQUEST 122550
REPORTED 01/19/2004
RECEIVED 01/08/2004

PROJECT #2003-123 Dico Oil

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.	Client Sample Identification
489505	RO-13
489506	Laboratory Method Blank

QC OK

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.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

JAN-22-2004 12:00 FROM-Associated Laboratories 714-538-1209 T-955 P.001/020 F-869

Order #: 489505 **Client Sample ID:** RO-13

Matrix: SOLID

Date Sampled: 01/08/2004
Sampled: 14:13

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Antimony	ND	1	3.0	0.62	mg/Kg	01/13/04 KN
6010B	Arsenic	5.24	1	1.0	0.72	mg/Kg	01/13/04 KN
6010B	Barium	83.9	1	1.0	0.05	mg/Kg	01/13/04 KN
6010B	Beryllium	0.437 J	1	0.5	0.16	mg/Kg	01/13/04 KN
6010B	Cadmium	0.399 J	1	0.5	0.06	mg/Kg	01/13/04 KN
6010B	Chromium	12.8	1	1.0	0.14	mg/Kg	01/13/04 KN
6010B	Cobalt	5.53	1	0.5	0.06	mg/Kg	01/13/04 KN
6010B	Copper	8.65	1	1.0	0.10	mg/Kg	01/13/04 KN
6010B	Lead	40.0	1	0.5	0.16	mg/Kg	01/13/04 KN
6010B	Molybdenum	ND	1	1.0	0.38	mg/Kg	01/13/04 KN
6010B	Nickel	8.58	1	1.5	0.29	mg/Kg	01/13/04 KN
6010B	Selenium	ND	1	1.0	0.55	mg/Kg	01/13/04 KN
6010B	Silver	0.393 J	1	0.5	0.12	mg/Kg	01/13/04 KN
6010B	Thallium	ND	1	1.0	0.33	mg/Kg	01/13/04 KN
6010B	Vanadium	21.7	1	0.5	0.17	mg/Kg	01/13/04 KN
6010B	Zinc	53.3	1	5.0	0.07	mg/Kg	01/13/04 KN
7471A	Mercury	0.055 J	1	0.14	0.02	mg/Kg	01/13/04 MDJ
8270C	1,2,4-Trichlorobenzene	ND	20	6660.0	32.1	ug/Kg	01/12/04 DP
8270C	1,2-Dichlorobenzene	ND	20	6660.0	69.1	ug/Kg	01/12/04 DP
8270C	1,3-Dichlorobenzene	ND	20	6660.0	133.5	ug/Kg	01/12/04 DP
8270C	1,4-Dichlorobenzene	ND	20	6660.0	58.0	ug/Kg	01/12/04 DP
8270C	2,4,5-Trichlorophenol	ND	20	33300.0	35.6	ug/Kg	01/12/04 DP
8270C	2,4,6-Trichlorophenol	ND	20	33300.0	31.9	ug/Kg	01/12/04 DP
8270C	2,4-Dichlorophenol	ND	20	6660.0	35.3	ug/Kg	01/12/04 DP
8270C	2,4-Dimethylphenol	ND	20	6660.0	37.1	ug/Kg	01/12/04 DP
8270C	2,4-Dinitrophenol	ND	20	33300.0	60.5	ug/Kg	01/12/04 DP
8270C	2,4-Dinitrotoluene	ND	20	6660.0	58.4	ug/Kg	01/12/04 DP
8270C	2,6-Dinitrotoluene	ND	20	6660.0	50.4	ug/Kg	01/12/04 DP
8270C	2-Chloronaphthalene	ND	20	6660.0	18.2	ug/Kg	01/12/04 DP
8270C	2-Chlorophenol	ND	20	6660.0	230.8	ug/Kg	01/12/04 DP
8270C	2-Methylnaphthalene	17500	20	6660.0	31.6	ug/Kg	01/12/04 DP
8270C	2-Methylphenol	ND	20	6660.0	194.3	ug/Kg	01/12/04 DP
8270C	2-Nitroaniline	ND	20	33300.0	30.8	ug/Kg	01/12/04 DP

QL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
D = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

JAN-22-2004 12:01 FROM-Associated Laboratories 714-538-1209 T-955 P.002/020 F-869

Order #: 489505 **Client Sample ID:** RO-13

Matrix: SOLID

Date Sampled: 01/08/2004
Sampled: 14:13

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	2-Nitrophenol	ND	20	6660.0	63.4	ug/Kg	01/12/04 DP
8270C	3,3-Dichlorobenzidine	ND	20	6660.0	52.3	ug/Kg	01/12/04 DP
8270C	3-Methylphenol	ND	20	6660.0	211.4	ug/Kg	01/12/04 DP
8270C	3-Nitroaniline	ND	20	33300.0	31.1	ug/Kg	01/12/04 DP
8270C	4,6-Dinitro-2-methylphenol	ND	20	33300.0	44.9	ug/Kg	01/12/04 DP
8270C	4-Bromophenyl-phenylether	ND	20	6660.0	29.6	ug/Kg	01/12/04 DP
8270C	4-Chloro-3-methylphenol	ND	20	6660.0	48.8	ug/Kg	01/12/04 DP
8270C	4-Chloroaniline	ND	20	6660.0	19.2	ug/Kg	01/12/04 DP
8270C	4-Chlorophenyl-phenylether	ND	20	6660.0	38.1	ug/Kg	01/12/04 DP
8270C	4-Methylphenol	ND	20	6660.0	211.4	ug/Kg	01/12/04 DP
8270C	4-Nitroaniline	ND	20	33300.0	134.9	ug/Kg	01/12/04 DP
8270C	4-Nitrophenol	ND	20	33300.0	84.8	ug/Kg	01/12/04 DP
8270C	Acenaphthene	ND	20	6660.0	17.4	ug/Kg	01/12/04 DP
8270C	Acenaphthylene	ND	20	6660.0	14.8	ug/Kg	01/12/04 DP
8270C	Anthracene	ND	20	6660.0	9.9	ug/Kg	01/12/04 DP
8270C	Benzidine	ND	20	6660.0	260	ug/Kg	01/12/04 DP
8270C	Benzo(a)anthracene	ND	20	6660.0	26.2	ug/Kg	01/12/04 DP
8270C	Benzo(a)pyrene	ND	20	6660.0	20.0	ug/Kg	01/12/04 DP
8270C	Benzo(b)fluoranthene	ND	20	6660.0	29.9	ug/Kg	01/12/04 DP
8270C	Benzo(g,h,i)perylene	ND	20	6660.0	13.9	ug/Kg	01/12/04 DP
8270C	Benzo(k)fluoranthene	ND	20	6660.0	23.7	ug/Kg	01/12/04 DP
8270C	Benzoic Acid	ND	20	6660.0	70.0	ug/Kg	01/12/04 DP
8270C	Benzyl alcohol	ND	20	6660.0	197.0	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroethoxy)methane	ND	20	6660.0	22.6	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroethyl)ether	ND	20	6660.0	291.5	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroisopropyl) ether	ND	20	6660.0	275.3	ug/Kg	01/12/04 DP
8270C	bis(2-Ethylhexyl)phthalate	ND	20	6660.0	36.1	ug/Kg	01/12/04 DP
8270C	Butylbenzylphthalate	ND	20	6660.0	25.9	ug/Kg	01/12/04 DP
8270C	Chrysene	ND	20	6660.0	38.0	ug/Kg	01/12/04 DP
8270C	Di-n-butylphthalate	ND	20	6660.0	30.7	ug/Kg	01/12/04 DP
8270C	Di-n-octylphthalate	ND	20	6660.0	66.3	ug/Kg	01/12/04 DP
8270C	Dibenz(a,h)anthracene	ND	20	6660.0	32.3	ug/Kg	01/12/04 DP
8270C	Dibenzofuran	ND	20	6660.0	16.4	ug/Kg	01/12/04 DP
8270C	Diethylphthalate	ND	20	6660.0	43.8	ug/Kg	01/12/04 DP
8270C	Dimethylphthalate	ND	20	6660.0	28.6	ug/Kg	01/12/04 DP
8270C	Fluoranthene	ND	20	6660.0	28.2	ug/Kg	01/12/04 DP
8270C	Fluorene	3820 J	20	6660.0	19.3	ug/Kg	01/12/04 DP
8270C	Hexachlorobenzene	ND	20	6660.0	49.4	ug/Kg	01/12/04 DP
8270C	Hexachlorobutadiene	ND	20	6660.0	40.1	ug/Kg	01/12/04 DP

QL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
D = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

JAN-22-2004 12:01 FROM-Associated Laboratories 714-538-1208 T-955 P.003/020 F-869

Order #: 489505 **Client Sample ID.** RO-13

Matrix: SOLID

Date Sampled: 01/08/2004
T Sampled: 14:13

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	Hexachlorocyclopentadiene	ND	20	6660.0	48.3	ug/Kg	01/12/04 DP
8270C	Hexachloroethane	ND	20	6660.0	180.8	ug/Kg	01/12/04 DP
8270C	Indeno(1,2,3-c,d)pyrene	ND	20	6660.0	36.1	ug/Kg	01/12/04 DP
8270C	Isophorone	ND	20	6660.0	30.4	ug/Kg	01/12/04 DP
8270C	N-Nitroso-di-n-propylamine	ND	20	6660.0	221.8	ug/Kg	01/12/04 DP
8270C	N-Nitrosodiphenylamine	ND	20	6660.0	29.1	ug/Kg	01/12/04 DP
8270C	Naphthalene	6130 J	20	6660.0	15.6	ug/Kg	01/12/04 DP
8270C	Nitrobenzene	ND	20	6660.0	60.6	ug/Kg	01/12/04 DP
8270C	Pentachlorophenol	ND	20	33300.0	38.0	ug/Kg	01/12/04 DP
8270C	Phenanthrene	5540 J	20	6660.0	19.4	ug/Kg	01/12/04 DP
8270C	Phenol	ND	20	6660.0	229.8	ug/Kg	01/12/04 DP
8270C	Pyrene	4460 J	20	6660.0	28.2	ug/Kg	01/12/04 DP

Surrogates			Units	Control Limits
8270C	2,4,6-Tribromophenol (sur)	67	%	17 - 122
8270C	2-Fluorobiphenyl (sur)	100	%	30 - 115
8270C	2-Fluorophenol (sur)	63	%	25 - 121
8270C	Nitrobenzene-d5 (sur)	83	%	23 - 120
8270C	Phenol-d5 (sur)	87	%	24 - 113
8270C	Terphenyl-d14 (sur)	118	%	18 - 137

8260B	1,1,1,2-Tetrachloroethane	ND	27	135.0	2.19	ug/Kg	01/14/04 AM
8260B	1,1,1-Trichloroethane	ND	27	135.0	0.47	ug/Kg	01/14/04 AM
8260B	1,1,2,2-Tetrachloroethane	ND	27	135.0	0.50	ug/Kg	01/14/04 AM
8260B	1,1,2-Trichloroethane	ND	27	135.0	0.57	ug/Kg	01/14/04 AM
8260B	1,1,2-Trichlorotrifluoroethane	ND	27	135.0	0.10	ug/Kg	01/14/04 AM
8260B	1,1-Dichloroethane	ND	27	135.0	0.74	ug/Kg	01/14/04 AM
8260B	1,1-Dichloroethene	ND	27	135.0	0.43	ug/Kg	01/14/04 AM
8260B	1,1-Dichloropropene	ND	27	135.0	1.30	ug/Kg	01/14/04 AM
8260B	1,2,3-Trichlorobenzene	ND	27	135.0	0.54	ug/Kg	01/14/04 AM
8260B	1,2,3-Trichloropropane	ND	27	135.0	0.65	ug/Kg	01/14/04 AM
8260B	1,2,4-Trichlorobenzene	ND	27	135.0	0.54	ug/Kg	01/14/04 AM
8260B	1,2,4-Trimethylbenzene	60 J	27	135.0	0.60	ug/Kg	01/14/04 AM
8260B	1,2-Dibromo-3-chloropropane	ND	27	135.0	1.92	ug/Kg	01/14/04 AM
8260B	1,2-Dibromoethane	ND	27	135.0	0.43	ug/Kg	01/14/04 AM
8260B	1,2-Dichlorobenzene	ND	27	135.0	0.45	ug/Kg	01/14/04 AM
8260B	1,2-Dichloroethane	ND	27	135.0	0.59	ug/Kg	01/14/04 AM
8260B	1,2-Dichloropropane	ND	27	135.0	0.58	ug/Kg	01/14/04 AM

QL - Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
D = detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

JAN-22-2004 12:01 FROM-Associated Laboratories 714-538-1209 T-855 P.004/020 F-869

Order #: 489505 **Client Sample ID**: RO-13

Matrix: SOLID

Date Sampled: 01/08/2004
T Sampled: 14:13

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	1,3,5-Trimethylbenzene	669	27	135.0	0.55	ug/Kg	01/14/04 AM
8260B	1,3-Dichlorobenzene	ND	27	135.0	0.44	ug/Kg	01/14/04 AM
8260B	1,3-Dichloropropane	ND	27	135.0	0.51	ug/Kg	01/14/04 AM
8260B	1,4-Dichlorobenzene	ND	27	135.0	0.46	ug/Kg	01/14/04 AM
8260B	1,4-Dioxane	ND	27	5400.0	200	ug/Kg	01/14/04 AM
8260B	1-Chlorohexane	ND	27	135.0	0.38	ug/Kg	01/14/04 AM
8260B	2,2-Dichloropropane	ND	27	135.0	0.47	ug/Kg	01/14/04 AM
8260B	2-Butanone (MEK)	ND	27	2700.0	0.98	ug/Kg	01/14/04 AM
8260B	2-Chloroethyl vinyl ether	ND	27	135.0	0.46	ug/Kg	01/14/04 AM
8260B	2-Chlorotoluene	ND	27	135.0	0.92	ug/Kg	01/14/04 AM
8260B	2-Hexanone	ND	27	135.0	4.7	ug/Kg	01/14/04 AM
8260B	4-Chlorotoluene	ND	27	135.0	0.52	ug/Kg	01/14/04 AM
8260B	4-Methyl -2- Pentanone	ND	27	135.0	0.49	ug/Kg	01/14/04 AM
8260B	Acetone	ND	27	1350.0	3.81	ug/Kg	01/14/04 AM
8260B	Acetonitrile	ND	27	135.0	0.7	ug/Kg	01/14/04 AM
8260B	Acrolein	ND	27	5400.0	172	ug/Kg	01/14/04 AM
8260B	Acrylonitrile	ND	27	135.0	1.3	ug/Kg	01/14/04 AM
8260B	Allyl chloride	ND	27	135.0	0.4	ug/Kg	01/14/04 AM
8260B	Benzene	ND	27	135.0	0.39	ug/Kg	01/14/04 AM
8260B	Benzyl chloride	ND	27	135.0	0.38	ug/Kg	01/14/04 AM
8260B	Bromobenzene	ND	27	135.0	0.65	ug/Kg	01/14/04 AM
8260B	Bromochloromethane	ND	27	135.0	0.36	ug/Kg	01/14/04 AM
8260B	Bromodichloromethane	ND	27	135.0	0.48	ug/Kg	01/14/04 AM
8260B	Bromoform	ND	27	135.0	0.53	ug/Kg	01/14/04 AM
8260B	Bromomethane	ND	27	135.0	2.07	ug/Kg	01/14/04 AM
8260B	Carbon Disulfide	ND	27	135.0	0.8	ug/Kg	01/14/04 AM
8260B	Carbon tetrachloride	ND	27	135.0	0.40	ug/Kg	01/14/04 AM
8260B	Chlorobenzene	ND	27	135.0	0.42	ug/Kg	01/14/04 AM
8260B	Chloroethane	ND	27	135.0	1.1	ug/Kg	01/14/04 AM
8260B	Chloroform	ND	27	135.0	0.46	ug/Kg	01/14/04 AM
8260B	Chloromethane	ND	27	135.0	0.25	ug/Kg	01/14/04 AM
8260B	cis-1,2-Dichloroethene	ND	27	135.0	0.79	ug/Kg	01/14/04 AM
8260B	cis-1,3-Dichloropropene	ND	27	135.0	0.38	ug/Kg	01/14/04 AM
8260B	cis-1,4-Dichloro-2-butene	ND	27	135.0	0.59	ug/Kg	01/14/04 AM
8260B	Dibromochloromethane	ND	27	135.0	0.44	ug/Kg	01/14/04 AM
8260B	Dibromomethane	ND	27	135.0	0.46	ug/Kg	01/14/04 AM
8260B	Dichlorodifluoromethane	ND	27	135.0	0.16	ug/Kg	01/14/04 AM
8260B	Ethyl benzene	ND	27	135.0	0.41	ug/Kg	01/14/04 AM
8260B	Ethyl methacrylate	ND	27	135.0	1.8	ug/Kg	01/14/04 AM

QL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
D = detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

JAN-22-2004 12:01 FROM-Associated Laboratories 714-538-1209 T-955 P.005/020 F-869

Order #: 489505 **Client Sample ID:** RO-13

Matrix: SOLID

Date Sampled: 01/08/2004
T Sampled: 14:13

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Hexachlorobutadiene	ND	27	135.0	0.29	ug/Kg	01/14/04 AM
8260B	Iodomethane	ND	27	135.0	0.6	ug/Kg	01/14/04 AM
8260B	Isopropylbenzene (Cumene)	ND	27	135.0	0.38	ug/Kg	01/14/04 AM
8260B	m and p-Xylene	ND	27	135.0	0.67	ug/Kg	01/14/04 AM
8260B	Methacrylonitrile	ND	27	135.0	2.70	ug/Kg	01/14/04 AM
8260B	Methyl methacrylate	ND	27	135.0	0.21	ug/Kg	01/14/04 AM
8260B	Methyl-tert-butylether (MTBE)	ND	27	135.0	0.51	ug/Kg	01/14/04 AM
8260B	Methylene chloride	ND	27	135.0	0.91	ug/Kg	01/14/04 AM
8260B	n-Butylbenzene	ND	27	135.0	0.38	ug/Kg	01/14/04 AM
8260B	n-Propylbenzene	ND	27	135.0	0.32	ug/Kg	01/14/04 AM
8260B	Naphthalene	ND	27	135.0	0.60	ug/Kg	01/14/04 AM
8260B	o-Xylene	ND	27	135.0	0.35	ug/Kg	01/14/04 AM
8260B	p-Isopropyltoluene	333	27	135.0	0.32	ug/Kg	01/14/04 AM
8260B	Pentachloroethane	ND	27	135.0	0.6	ug/Kg	01/14/04 AM
8260B	Propionitrile	ND	27	135.0	5	ug/Kg	01/14/04 AM
8260B	sec-Butylbenzene	ND	27	135.0	0.31	ug/Kg	01/14/04 AM
8260B	Styrene	ND	27	135.0	0.37	ug/Kg	01/14/04 AM
8260B	tert-Butylbenzene	ND	27	135.0	0.41	ug/Kg	01/14/04 AM
8260B	Tetrachloroethene	ND	27	135.0	0.49	ug/Kg	01/14/04 AM
8260B	Toluene	ND	27	135.0	0.42	ug/Kg	01/14/04 AM
8260B	trans-1,2-Dichloroethene	ND	27	135.0	0.48	ug/Kg	01/14/04 AM
8260B	trans-1,3-Dichloropropene	ND	27	135.0	0.44	ug/Kg	01/14/04 AM
8260B	trans-1,4-Dichloro-2-butene	ND	27	135.0	2.35	ug/Kg	01/14/04 AM
8260B	Trichloroethene	ND	27	135.0	0.43	ug/Kg	01/14/04 AM
8260B	Trichlorofluoromethane	ND	27	135.0	0.40	ug/Kg	01/14/04 AM
8260B	Vinyl acetate	ND	27	1350.0	10.2	ug/Kg	01/14/04 AM
8260B	Vinyl chloride	ND	27	135.0	0.47	ug/Kg	01/14/04 AM
8260B	Xylenes, total	116 J	27	135.0	0.8	ug/Kg	01/14/04 AM

Surrogates			Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	94	%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	98	%	70 - 135
8260B	Surr3 - Toluene-d8	102	%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	111	%	70 - 135

8082	PCB-1016	ND	10	0.3	0.003	mg/Kg	01/16/04 RB
8082	PCB-1221	ND	10	0.6	0.006	mg/Kg	01/16/04 RB
8082	PCB-1232	ND	10	0.5	0.004	mg/Kg	01/16/04 RB

QL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

JAN-22-2004 12:02 FROM-Associated Laboratories 714-538-1209 T-955 P.008/020 F-869

Order #: 489506 **Client Sample ID:** Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Antimony	ND	1	3.00	0.62	mg/Kg	01/13/04 KN
6010B	Arsenic	ND	1	1.00	0.72	mg/Kg	01/13/04 KN
6010B	Barium	ND	1	1.00	0.05	mg/Kg	01/13/04 KN
6010B	Beryllium	ND	1	0.50	0.16	mg/Kg	01/13/04 KN
6010B	Cadmium	ND	1	0.50	0.06	mg/Kg	01/13/04 KN
6010B	Chromium	ND	1	1.00	0.14	mg/Kg	01/13/04 KN
6010B	Cobalt	ND	1	0.50	0.06	mg/Kg	01/13/04 KN
6010B	Copper	ND	1	1.00	0.10	mg/Kg	01/13/04 KN
6010B	Lead	ND	1	0.50	0.16	mg/Kg	01/13/04 KN
6010B	Molybdenum	ND	1	1.00	0.38	mg/Kg	01/13/04 KN
6010B	Nickel	ND	1	1.50	0.29	mg/Kg	01/13/04 KN
6010B	Selenium	ND	1	1.00	0.55	mg/Kg	01/13/04 KN
6010B	Silver	ND	1	0.50	0.12	mg/Kg	01/13/04 KN
6010B	Thallium	ND	1	1.00	0.33	mg/Kg	01/13/04 KN
6010B	Vanadium	ND	1	0.50	0.17	mg/Kg	01/13/04 KN
6010B	Zinc	ND	1	5.00	0.07	mg/Kg	01/13/04 KN
7471A	Mercury	ND	1	0.14	0.02	mg/Kg	01/13/04 MDJ
8270C	1,2,4-Trichlorobenzene	ND	1	333	32.1	ug/Kg	01/12/04 DP
8270C	1,2-Dichlorobenzene	ND	1	333	69.1	ug/Kg	01/12/04 DP
8270C	1,3-Dichlorobenzene	ND	1	333	133.5	ug/Kg	01/12/04 DP
8270C	1,4-Dichlorobenzene	ND	1	333	58.0	ug/Kg	01/12/04 DP
8270C	2,4,5-Trichlorophenol	ND	1	1665	33.6	ug/Kg	01/12/04 DP
8270C	2,4,6-Trichlorophenol	ND	1	1665	31.9	ug/Kg	01/12/04 DP
8270C	2,4-Dichlorophenol	ND	1	333	35.3	ug/Kg	01/12/04 DP
8270C	2,4-Dimethylphenol	ND	1	333	37.1	ug/Kg	01/12/04 DP
8270C	2,4-Dinitrophenol	ND	1	1665	60.5	ug/Kg	01/12/04 DP
8270C	2,4-Dinitrotoluene	ND	1	333	58.4	ug/Kg	01/12/04 DP
8270C	2,6-Dinitrotoluene	ND	1	333	50.4	ug/Kg	01/12/04 DP
8270C	2-Chloronaphthalene	ND	1	333	18.2	ug/Kg	01/12/04 DP
8270C	2-Chlorophenol	ND	1	333	230.8	ug/Kg	01/12/04 DP
8270C	2-Methylnaphthalene	ND	1	333	31.6	ug/Kg	01/12/04 DP
8270C	2-Methylphenol	ND	1	333	194.3	ug/Kg	01/12/04 DP
8270C	2-Nitroaniline	ND	1	1665	30.8	ug/Kg	01/12/04 DP

QL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
D = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

JAN-22-2004 12:02 FROM-Associated Laboratories 714-538-1209 T-955 P.008/020 F-869

Order #: 489506 **Client Sample ID** Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	2-Nitrophenol	ND	1	333	63.4	ug/Kg	01/12/04 DP
8270C	3,3-Dichlorobenzidine	ND	1	333	52.3	ug/Kg	01/12/04 DP
8270C	3-Methylphenol	ND	1	333	211.4	ug/Kg	01/12/04 DP
8270C	3-Nitroaniline	ND	1	1665	31.1	ug/Kg	01/12/04 DP
8270C	4,6-Dinitro-2-methylphenol	ND	1	1665	44.9	ug/Kg	01/12/04 DP
8270C	4-Bromophenyl-phenylether	ND	1	333	29.6	ug/Kg	01/12/04 DP
8270C	4-Chloro-3-methylphenol	ND	1	333	48.8	ug/Kg	01/12/04 DP
8270C	4-Chloroaniline	ND	1	333	19.2	ug/Kg	01/12/04 DP
8270C	4-Chlorophenyl-phenylether	ND	1	333	38.1	ug/Kg	01/12/04 DP
8270C	4-Methylphenol	ND	1	333	211.4	ug/Kg	01/12/04 DP
8270C	4-Nitroaniline	ND	1	1665	134.9	ug/Kg	01/12/04 DP
8270C	4-Nitrophenol	ND	1	1665	84.8	ug/Kg	01/12/04 DP
8270C	Acenaphthene	ND	1	333	17.4	ug/Kg	01/12/04 DP
8270C	Acenaphthylene	ND	1	333	14.8	ug/Kg	01/12/04 DP
8270C	Anthracene	ND	1	333	9.9	ug/Kg	01/12/04 DP
8270C	Benzidine	ND	1	333	260	ug/Kg	01/12/04 DP
8270C	Benzo(a)anthracene	ND	1	333	26.2	ug/Kg	01/12/04 DP
8270C	Benzo(a)pyrene	ND	1	333	20.0	ug/Kg	01/12/04 DP
8270C	Benzo(b)fluoranthene	ND	1	333	29.9	ug/Kg	01/12/04 DP
8270C	Benzo(g,h,i)perylene	ND	1	333	13.9	ug/Kg	01/12/04 DP
8270C	Benzo(k)fluoranthene	ND	1	333	23.7	ug/Kg	01/12/04 DP
8270C	Benzoic Acid	ND	1	333	70.0	ug/Kg	01/12/04 DP
8270C	Benzyl alcohol	ND	1	333	197.0	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroethoxy)methane	ND	1	333	22.6	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroethyl)ether	ND	1	333	291.5	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroisopropyl) ether	ND	1	333	275.3	ug/Kg	01/12/04 DP
8270C	bis(2-Ethylhexyl)phthalate	ND	1	333	36.1	ug/Kg	01/12/04 DP
8270C	Butylbenzylphthalate	ND	1	333	25.9	ug/Kg	01/12/04 DP
8270C	Chrysene	ND	1	333	38.0	ug/Kg	01/12/04 DP
8270C	Di-n-butylphthalate	ND	1	333	30.7	ug/Kg	01/12/04 DP
8270C	Di-n-octylphthalate	ND	1	333	66.3	ug/Kg	01/12/04 DP
8270C	Dibenz(a,h)anthracene	ND	1	333	32.3	ug/Kg	01/12/04 DP
8270C	Dibenzofuran	ND	1	333	16.4	ug/Kg	01/12/04 DP
8270C	Diethylphthalate	ND	1	333	43.8	ug/Kg	01/12/04 DP
8270C	Dimethylphthalate	ND	1	333	28.6	ug/Kg	01/12/04 DP
8270C	Fluoranthene	ND	1	333	28.2	ug/Kg	01/12/04 DP
8270C	Fluorene	ND	1	333	19.3	ug/Kg	01/12/04 DP
8270C	Hexachlorobenzene	ND	1	333	49.4	ug/Kg	01/12/04 DP
8270C	Hexachlorobutadiene	ND	1	333	40.1	ug/Kg	01/12/04 DP

QL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
D = [illegible] detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

JAN-22-2004 12:02 FROM-Associated Laboratories 714-538-1208 T-955 P.009/020 F-869

Order #: 489506 **Client Sample ID** Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	2-Nitrophenol	ND	1	333	63.4	ug/Kg	01/12/04 DP
8270C	3,3-Dichlorobenzidine	ND	1	333	52.3	ug/Kg	01/12/04 DP
8270C	3-Methylphenol	ND	1	333	211.4	ug/Kg	01/12/04 DP
8270C	3-Nitroaniline	ND	1	1665	31.1	ug/Kg	01/12/04 DP
8270C	4,6-Dinitro-2-methylphenol	ND	1	1665	44.9	ug/Kg	01/12/04 DP
8270C	4-Bromophenyl-phenylether	ND	1	333	29.6	ug/Kg	01/12/04 DP
8270C	4-Chloro-3-methylphenol	ND	1	333	48.8	ug/Kg	01/12/04 DP
8270C	4-Chloroaniline	ND	1	333	19.2	ug/Kg	01/12/04 DP
8270C	4-Chlorophenyl-phenylether	ND	1	333	38.1	ug/Kg	01/12/04 DP
8270C	4-Methylphenol	ND	1	333	211.4	ug/Kg	01/12/04 DP
8270C	4-Nitroaniline	ND	1	1665	134.9	ug/Kg	01/12/04 DP
8270C	4-Nitrophenol	ND	1	1665	84.8	ug/Kg	01/12/04 DP
8270C	Acenaphthene	ND	1	333	17.4	ug/Kg	01/12/04 DP
8270C	Acenaphthylene	ND	1	333	14.8	ug/Kg	01/12/04 DP
8270C	Anthracene	ND	1	333	9.9	ug/Kg	01/12/04 DP
8270C	Benzidine	ND	1	333	260	ug/Kg	01/12/04 DP
8270C	Benzo(a)anthracene	ND	1	333	26.2	ug/Kg	01/12/04 DP
8270C	Benzo(a)pyrene	ND	1	333	20.0	ug/Kg	01/12/04 DP
8270C	Benzo(b)fluoranthene	ND	1	333	29.9	ug/Kg	01/12/04 DP
8270C	Benzo(g,h,i)perylene	ND	1	333	13.9	ug/Kg	01/12/04 DP
8270C	Benzo(k)fluoranthene	ND	1	333	23.7	ug/Kg	01/12/04 DP
8270C	Benzoic Acid	ND	1	333	70.0	ug/Kg	01/12/04 DP
8270C	Benzyl alcohol	ND	1	333	197.0	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroethoxy)methane	ND	1	333	22.6	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroethyl)ether	ND	1	333	291.5	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroisopropyl) ether	ND	1	333	275.3	ug/Kg	01/12/04 DP
8270C	bis(2-Ethylhexyl)phthalate	ND	1	333	36.1	ug/Kg	01/12/04 DP
8270C	Butylbenzylphthalate	ND	1	333	25.9	ug/Kg	01/12/04 DP
8270C	Chrysene	ND	1	333	38.0	ug/Kg	01/12/04 DP
8270C	Di-n-butylphthalate	ND	1	333	30.7	ug/Kg	01/12/04 DP
8270C	Di-n-octylphthalate	ND	1	333	66.3	ug/Kg	01/12/04 DP
8270C	Dibenz(a,h)anthracene	ND	1	333	32.3	ug/Kg	01/12/04 DP
8270C	Dibenzofuran	ND	1	333	16.4	ug/Kg	01/12/04 DP
8270C	Diethylphthalate	ND	1	333	43.8	ug/Kg	01/12/04 DP
8270C	Dimethylphthalate	ND	1	333	28.6	ug/Kg	01/12/04 DP
8270C	Fluoranthene	ND	1	333	28.2	ug/Kg	01/12/04 DP
8270C	Fluorene	ND	1	333	19.3	ug/Kg	01/12/04 DP
8270C	Hexachlorobenzene	ND	1	333	49.4	ug/Kg	01/12/04 DP
8270C	Hexachlorobutadiene	ND	1	333	40.1	ug/Kg	01/12/04 DP

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

JAN-22-2004 12:12 FROM-Associated Laboratories 714-538-1209 T-959 P.009/020 F-869

Order #: 489506 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	Hexachlorocyclopentadiene	ND	1	333	48.3	ug/Kg	01/12/04 DP
8270C	Hexachloroethane	ND	1	333	180.8	ug/Kg	01/12/04 DP
8270C	Indeno(1,2,3-c,d)pyrene	ND	1	333	36.1	ug/Kg	01/12/04 DP
8270C	Isophorone	ND	1	333	30.4	ug/Kg	01/12/04 DP
8270C	N-Nitroso-di-n-propylamine	ND	1	333	221.8	ug/Kg	01/12/04 DP
8270C	N-Nitrosodiphenylamine	ND	1	333	29.1	ug/Kg	01/12/04 DP
8270C	Naphthalene	ND	1	333	15.6	ug/Kg	01/12/04 DP
8270C	Nitrobenzene	ND	1	333	60.6	ug/Kg	01/12/04 DP
8270C	Pentachlorophenol	ND	1	1665	38.0	ug/Kg	01/12/04 DP
8270C	Phenanthrene	ND	1	333	19.4	ug/Kg	01/12/04 DP
8270C	Phenol	ND	1	333	229.8	ug/Kg	01/12/04 DP
8270C	Pyrene	ND	1	333	28.2	ug/Kg	01/12/04 DP

Surrogates			Units	Control Limits
8270C	2,4,6-Tribromophenol (sur)	37	%	17 - 122
8270C	2-Fluorobiphenyl (sur)	47	%	30 - 115
8270C	2-Fluorophenol (sur)	44	%	25 - 121
8270C	Nitrobenzene-d5 (sur)	43	%	23 - 120
8270C	Phenol-d5 (sur)	54	%	24 - 113
8270C	Terphenyl-d14 (sur)	79	%	18 - 137

8260B	1,1,1,2-Tetrachloroethane	ND	1	5	2.19	ug/Kg	01/14/04 AM
8260B	1,1,1-Trichloroethane	ND	1	5	0.47	ug/Kg	01/14/04 AM
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.50	ug/Kg	01/14/04 AM
8260B	1,1,2-Trichloroethane	ND	1	5	0.57	ug/Kg	01/14/04 AM
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	0.10	ug/Kg	01/14/04 AM
8260B	1,1-Dichloroethane	ND	1	5	0.74	ug/Kg	01/14/04 AM
8260B	1,1-Dichloroethene	ND	1	5	0.43	ug/Kg	01/14/04 AM
8260B	1,1-Dichloropropene	ND	1	5	1.30	ug/Kg	01/14/04 AM
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.54	ug/Kg	01/14/04 AM
8260B	1,2,3-Trichloropropane	ND	1	5	0.65	ug/Kg	01/14/04 AM
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/Kg	01/14/04 AM
8260B	1,2,4-Trimethylbenzene	ND	1	5	0.60	ug/Kg	01/14/04 AM
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	1.92	ug/Kg	01/14/04 AM
8260B	1,2-Dibromoethane	ND	1	5	0.43	ug/Kg	01/14/04 AM
8260B	1,2-Dichlorobenzene	ND	1	5	0.45	ug/Kg	01/14/04 AM
8260B	1,2-Dichloroethane	ND	1	5	0.59	ug/Kg	01/14/04 AM
8260B	1,2-Dichloropropane	ND	1	5	0.58	ug/Kg	01/14/04 AM

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

JAN-22-2004 12:12 FROM-Associated Laboratories 714-538-1209 T-959 P.010/020 F-869

Order #: 489506 **Client Sample ID:** Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	1,3,5-Trimethylbenzene	ND	1	5	0.55	ug/Kg	01/14/04 AM
8260B	1,3-Dichlorobenzene	ND	1	5	0.44	ug/Kg	01/14/04 AM
8260B	1,3-Dichloropropane	ND	1	5	0.51	ug/Kg	01/14/04 AM
8260B	1,4-Dichlorobenzene	ND	1	5	0.46	ug/Kg	01/14/04 AM
8260B	1,4-Dioxane	ND	1	200	200	ug/Kg	01/14/04 AM
8260B	1-Chlorohexane	ND	1	5	0.38	ug/Kg	01/14/04 AM
8260B	2,2-Dichloropropane	ND	1	5	0.47	ug/Kg	01/14/04 AM
8260B	2-Butanone (MEK)	ND	1	100	0.98	ug/Kg	01/14/04 AM
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.46	ug/Kg	01/14/04 AM
8260B	2-Chlorotoluene	ND	1	5	0.92	ug/Kg	01/14/04 AM
8260B	2-Hexanone	ND	1	5	4.7	ug/Kg	01/14/04 AM
8260B	4-Chlorotoluene	ND	1	5	0.52	ug/Kg	01/14/04 AM
8260B	4-Methyl -2- Pentanone	ND	1	5	0.49	ug/Kg	01/14/04 AM
8260B	Acetone	ND	1	50	3.81	ug/Kg	01/14/04 AM
8260B	Acetonitrile	ND	1	5	0.7	ug/Kg	01/14/04 AM
8260B	Acrolein	ND	1	200	172	ug/Kg	01/14/04 AM
8260B	Acrylonitrile	ND	1	5	1.3	ug/Kg	01/14/04 AM
8260B	Allyl chloride	ND	1	5	0.4	ug/Kg	01/14/04 AM
8260B	Benzene	ND	1	5	0.39	ug/Kg	01/14/04 AM
8260B	Benzyl chloride	ND	1	5	0.38	ug/Kg	01/14/04 AM
8260B	Bromobenzene	ND	1	5	0.65	ug/Kg	01/14/04 AM
8260B	Bromochloromethane	ND	1	5	0.36	ug/Kg	01/14/04 AM
8260B	Bromodichloromethane	ND	1	5	0.48	ug/Kg	01/14/04 AM
8260B	Bromoform	ND	1	5	0.53	ug/Kg	01/14/04 AM
8260B	Bromomethane	ND	1	5	2.07	ug/Kg	01/14/04 AM
8260B	Carbon Disulfide	ND	1	5	0.8	ug/Kg	01/14/04 AM
8260B	Carbon tetrachloride	ND	1	5	0.40	ug/Kg	01/14/04 AM
8260B	Chlorobenzene	ND	1	5	0.42	ug/Kg	01/14/04 AM
8260B	Chloroethane	ND	1	5	1.1	ug/Kg	01/14/04 AM
8260B	Chloroform	ND	1	5	0.46	ug/Kg	01/14/04 AM
8260B	Chloromethane	ND	1	5	0.25	ug/Kg	01/14/04 AM
8260B	cis-1,2-Dichloroethene	ND	1	5	0.79	ug/Kg	01/14/04 AM
8260B	cis-1,3-Dichloropropene	ND	1	5	0.38	ug/Kg	01/14/04 AM
8260B	cis-1,4-Dichloro-2-butene	ND	1	5	0.59	ug/Kg	01/14/04 AM
8260B	Dibromochloromethane	ND	1	5	0.44	ug/Kg	01/14/04 AM
8260B	Dibromomethane	ND	1	5	0.46	ug/Kg	01/14/04 AM
8260B	Dichlorodifluoromethane	ND	1	5	0.16	ug/Kg	01/14/04 AM
8260B	Ethyl benzene	ND	1	5	0.41	ug/Kg	01/14/04 AM
8260B	Ethyl methacrylate	ND	1	5	1.8	ug/Kg	01/14/04 AM

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

JAN-22-2004 12:13 FROM-Associated Laboratories 714-538-1209 T-959 P.011/020 F-869

Order #: 489506 **Client Sample ID:** Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Hexachlorobutadiene	ND	1	5	0.29	ug/Kg	01/14/04 AM
8260B	Iodomethane	ND	1	5	0.6	ug/Kg	01/14/04 AM
8260B	Isopropylbenzene (Cumene)	ND	1	5	0.38	ug/Kg	01/14/04 AM
8260B	m and p-Xylene	ND	1	5	0.67	ug/Kg	01/14/04 AM
8260B	Methacrylonitrile	ND	1	5	2.70	ug/Kg	01/14/04 AM
8260B	Methyl methacrylate	ND	1	5	0.21	ug/Kg	01/14/04 AM
8260B	Methyl-tert-butylether (MTBE)	ND	1	5	0.51	ug/Kg	01/14/04 AM
8260B	Methylene chloride	ND	1	5	0.91	ug/Kg	01/14/04 AM
8260B	n-Butylbenzene	ND	1	5	0.38	ug/Kg	01/14/04 AM
8260B	n-Propylbenzene	ND	1	5	0.32	ug/Kg	01/14/04 AM
8260B	Naphthalene	ND	1	5	0.60	ug/Kg	01/14/04 AM
8260B	o-Xylene	ND	1	5	0.35	ug/Kg	01/14/04 AM
8260B	p-Isopropyltoluene	ND	1	5	0.32	ug/Kg	01/14/04 AM
8260B	Pentachloroethane	ND	1	5	0.6	ug/Kg	01/14/04 AM
8260B	Propionitrile	ND	1	5	5	ug/Kg	01/14/04 AM
8260B	sec-Butylbenzene	ND	1	5	0.31	ug/Kg	01/14/04 AM
8260B	Styrene	ND	1	5	0.37	ug/Kg	01/14/04 AM
8260B	tert-Butylbenzene	ND	1	5	0.41	ug/Kg	01/14/04 AM
8260B	Tetrachloroethene	ND	1	5	0.49	ug/Kg	01/14/04 AM
8260B	Toluene	ND	1	5	0.42	ug/Kg	01/14/04 AM
8260B	trans-1,2-Dichloroethene	ND	1	5	0.48	ug/Kg	01/14/04 AM
8260B	trans-1,3-Dichloropropene	ND	1	5	0.44	ug/Kg	01/14/04 AM
8260B	trans-1,4-Dichloro-2-butene	ND	1	5	2.35	ug/Kg	01/14/04 AM
8260B	Trichloroethene	ND	1	5	0.43	ug/Kg	01/14/04 AM
8260B	Trichlorofluoromethane	ND	1	5	0.40	ug/Kg	01/14/04 AM
8260B	Vinyl acetate	ND	1	50	10.2	ug/Kg	01/14/04 AM
8260B	Vinyl chloride	ND	1	5	0.47	ug/Kg	01/14/04 AM
8260B	Xylenes, total	ND	1	5	0.8	ug/Kg	01/14/04 AM

Surrogates			Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	92	%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	101	%	70 - 135
8260B	Surr3 - Toluene-d8	103	%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	104	%	70 - 135

8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/14/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/14/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/14/04 RB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

JAN-22-2004 12:13 FROM-Associated Laboratories 714-538-1208 T-959 P.012/020 F-869

Order #: 489506 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/14/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/14/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/14/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/14/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	100	%	50 - 135

QL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
D = detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

JAN-22-2004 12:13 FROM-Associated Laboratories 714-538-1209 T-959 P.013/020 F-869

ASSOCIATED LABORATORIES
QA REPORT FORM (MS/MSD)

QC Sample: LR 122545-489494 QC# 011304SO1

Matrix: SOLID

Prep. Date: 01/13/04

Analysis Date: 01/13/04

Lab ID#'s in Batch: LR 122545, 122546, 122547, 122548, 122549, 122550, 122551, 122594, 122606

REPORTING UNITS = mg/Kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Arsenic	6010	8.31		94	95	94	92	91	1
Selenium	6010	1.00	U	94	84	83	89	88	1
Thallium	6010	1.00	U	94	82	81	87	86	1
Lead	6010	93.40		94	184	184	96	96	0
Antimony	6010	3.00	U	94	92	91	98	97	1
Barium	6010	185.00		94	272	268	93	88	1
Beryllium	6010	0.50	U	94	90	88	96	94	2
Cadmium	6010	1.00		94	91	91	96	96	0
Chromium	6010	17.40		94	107	105	95	93	2
Cobalt	6010	6.53		94	97	96	96	95	1
Copper	6010	27.40		94	119	116	97	94	3
Molybdenum	6010	2.58		94	104	100	108	104	4
Nickel	6010	12.40		94	97	96	90	89	1
Silver	6010	0.69		47	44	43	92	90	2
Vanadium	6010	25.20		94	118	116	99	97	2
Zinc	6010	131.00		94	215	216	89	90	0

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%C-MS&MSD – Percent Recovery of Matrix Spike & Matrix Spike Duplicate

% REC LIMITS – 75 -125
RPD LIMITS = 20

ASSOCIATED LABORATORIES

LCS/MB REPORT FORM

LCS Source(s) : QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank MB	Method Blank ND
Silver	6010	114	100	114	80%	120%	0.50	U
Arsenic	6010	176	200	88	80%	120%	0.50	U
Barium	6010	200	200	100	80%	120%	1.00	U
Beryllium	6010	209	200	105	80%	120%	0.50	U
Cadmium	6010	212	200	106	80%	120%	0.50	U
Cobalt	6010	204	200	102	80%	120%	0.50	U
Chromium	6010	205	200	103	80%	120%	1.00	U
Copper	6010	200	200	100	80%	120%	1.00	U
Molybdenum	6010	209	200	105	80%	120%	1.00	U
Nickel	6010	205	200	103	80%	120%	1.50	U
Lead	6010	198	200	99	80%	120%	0.50	U
Antimony	6010	209	200	105	80%	120%	3.00	U
Selenium	6010	199	200	100	80%	120%	1.00	U
Thallium	6010	198	200	99	80%	120%	1.00	U
Vanadium	6010	205	200	103	80%	120%	1.00	U
Zinc	6010	213	200	107	80%	120%	5.00	U

*Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True*

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Method Blank; ND = " U " for Non- Detected

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 122546-489497

Matrix: SOIL

Prep. Date: 01/13/04

Analysis Date: 01/13/04

ID#'s in Batch: LR 122546, 122545, 122547, 122548, 122549, 122550, 122551, 122692, 122693

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = mg/Kg

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
MERCURY	245.5 / 7471A	0.32	0.75	1.13	1.15	108	111	2

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	0.85	0.80	106	80%	120%

Value = Preparation Blank Value: ND = Not-Detected
LCS Result = Lab Control Sample Result
True = True Value of LCS
L.Limit / H.Limit = LCS Control Limits

JAN-22-2004 12:14 FROM-Associated Laboratories 714-538-1209 T-959 P.016/020 F-869

ASSOCIATED LABORATORIES
QA REPORT FORM

Method : EPA 8270/625

Pr ethod : 3550B

QC Sample: MS/MSD 122547-499

Matrix: SOLID

Date Extracted : 01/12/04

Date Analyzed : 01/12/04

Applies to: LR 122545, 122546, 122547, 122548, 122549, 122550, 122551

REPORTING UNITS = ug/Kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Test	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup.	%Rec MS	%Rec MSD	RPD	QC Limits RPD	QC Limits %REC
Phenol	ND	50	40	45	80	90	12	35	25-93
2-Chorophenol	ND	50	40	49	80	98	20	50	35-84
1,4-Dichlorobenzene	ND	50	35	42	70	84	18	27	35-89
n-Nitroso-di-n-propylamine	ND	50	52	54	104	108	4	38	25-109
1,2,4-Trichlorobenzene	ND	50	41	48	82	96	16	23	22-92
4-Chloro-3-methylphenol	ND	50	41	46	82	92	11	33	15-99
Acenaphthene *	ND	50	44	54	88	108	20	19	20-105
4-Nir enol	ND	50	39	44	78	88	12	50	7-112
2,4-L toluene	ND	50	17	16	34	32	6	47	13-136
Pentachlorophenol	ND	50	43	45	86	90	5	47	0-147
Pyrene	ND	50	59	64	118	128	8	36	17-136

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	%Rec LCS	QC LIMIT %REC
Phenol	ND	50	27	54	30-97
2-Clorophenol	ND	50	27	54	34-90
1,4-Dichlorobenzene	ND	50	27	54	39-87
n-Nitroso-di-n-propylamine	ND	50	31	62	29-110
1,2,4-Trichlorobenzene	ND	50	26	52	28-87
4-Cloro-3-methylphenol	ND	50	26	52	25-97
Acenaphthene	ND	50	30	60	32-94
4-Nitrophenol	ND	50	21	42	14-95
2,4-Dinitrotoluene	ND	50	37	74	30-113
Pentachlorophenol	ND	50	16	32	0-121
Pyrer	ND	50	43	86	35-120

Method Blank = All ND

*MS/MSD or RPD is outside limits. However, LCS and MB conformed for all spike compounds.

ASSOCIATED LABORATORIES

LCS REPORT FORM - METHOD 8260 / 624 / 524.2

QC Sample: LCS/LCSD - Soil Samples

Analysis Date: 01/12/04 4:20 PM

Applies to: LR 122545, 122546, 122547, 122548, 122549, 122550

Reporting Units = ug/Kg

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	LCS Spk. Dup	%Rec LCS	%Rec LCS D	RPD	QC Limits RPD	QC Limits %REC
1,1-Dichloroethene	ND	50	50.48	47.57	101	95	6	22	59-172
MTBE	ND	50	47.71	47.34	95	95	1	24	62-137
Benzene	ND	50	52.44	50.99	105	102	3	24	62-137
Trichloroethene	ND	50	54.60	55.57	109	111	2	21	66-142
Toluene	ND	50	55.25	56.74	111	113	3	21	59-139
Chlorobenzene	ND	50	53.64	55.81	107	112	4	21	60-133

Method Blank = All ND

SURROGATE (QC Limits : 70-135)

Compound	MB	LCS	LCSD
DBFM	97	99	98
1,2-DCA	102	92	88
Tol-d8	106	100	103
p-BFB	102	98	97

ASSOCIATED LABORATORIES

LCS REPORT FORM - METHOD 8260 / 624 / 524.2

QC Sample: LCS/LCSD - Soil Samples

Ana Date: 01/13/04 11:22 PM

Applies to: LR 122720, 122550, 122596

Reporting Units = ug/Kg

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	LCS Spk. Dup	%Rec LCS	%Rec LCS D	RPD	QC Limits RPD	QC Limits %REC
1,1-Dichloroethene	ND	50	49.26	51.01	99	102	3	22	59-172
MTBE	ND	50	47.02	46.01	94	92	2	24	62-137
Benzene	ND	50	51.09	50.68	102	101	1	24	62-137
Trichloroethene	ND	50	55.63	56.36	111	113	1	21	66-142
Toluene	ND	50	55.64	57.58	111	115	3	21	59-139
Chlorobenzene	ND	50	52.62	54.66	105	109	4	21	60-133

Method Blank = All ND

SURROGATE (QC Limits : 70-135)

Compound	MB 2	LCS	LCSD
DBFM	92	97	96
1,2-DCA	101	89	87
Tol-d8	103	102	104
p-BFB	104	98	95

CHAIN OF CUSTODY RECORD

Sheet 1 of 1.

122545, 122546, 122547, 122548
122549, 122550, 122551

MEREDITH & ASSOCIATES, INC.
SCIENTIFIC and REGULATORY CONSULTANTS
9641 Airport Blvd., Suite 1010 Los Angeles, California 90045-5409
Phone (310) 670-9221 Fax: (310) 670-9512

CONTACT PERSON(S): LYNN EDLUND

CLIENT: C. MARMOL PROJECT NO.: 2003-123

SITE NAME: DICO OIL

SITE LOCATION: SIGNAL HILL

SAMPLING LOCATION: ROLL OFF BINS

SAMPLING INFORMATION:

ANALYSIS REQUESTED

TURNAROUND TIME: NORMAL / RUSH

COMMENTS (Precautions/Hazards/Field Conditions)

SAMPLE ID#	LAB ID#	DATE	TIME	SAMPLE TYPE	# of CONTAINERS	PRESERVATION	OTHER	VOCs (5035/8260B)	SVOCs (8270C)	PCBs (8082)	METALS (6010/7000)	NOTES
RO8		1/8/04	1319	SOIL	7	ICE	✓	X	X	X	X	COMPOSITE 3-40 ZIPLOCS
RO-9 (LAB DUP)		1/8/04	1335	SOIL	11	ICE	✓	X	X	X	X	MAKE LAB DUP FROM COMPOSITE
RO-10		1/8/04	1345	SOIL	7	ICE	✓	X	X	X	X	
RO-11		1/8/04	1357	SOIL	7	ICE	✓	X	X	X	X	
RO-12		1/8/04	1406	SOIL	7	ICE	✓	X	X	X	X	
RO-13		1/8/04	1413	SOIL	7	ICE	✓	X	X	X	X	
RO-14		1/8/04	1425	PEBBLES	1	ICE	✓		X	X	X	

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
COLLECTED by	Roger McCracken	R. MCCRACKEN	M&A	1/8/04	AM PM
RELEASED by	Roger McCracken	R. MCCRACKEN	M&A	1/8/04	AM PM
RELEASED to	Tom Vinsonhaler	TOM VINSONHALER	ASSOCIATED LAB	1/9/04	3:35 AM PM
RELEASED to					AM PM
RECEIVED by LABORATORY	[illegible]	[illegible]	Associated Lab	1/8	5:30 AM PM

JAN-22-2004 12:14 FROM-Associated Laboratories 714-538-1209 T-959 P.020/020 F-869

ASSOCIATED LABORATORIES
5 North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Meredith & Associates, Inc (10577)
ATTN: Roger McCracken
9841 Airport Blvd.
Suite 1010
Los Angeles, CA 90045-5409

LAB REQUEST 122545
REPORTED 01/20/2004
RECEIVED 01/08/2004

PROJECT Roll Off Bins

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.	Client Sample Identification
489494	RO-8
489495	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.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 489494 **Client Sample ID**: RO-8

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 13:19

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Antimony	ND	1	3.0	0.62	mg/Kg	01/13/04 KN
6010B	Arsenic	8.31	1	1.0	0.72	mg/Kg	01/13/04 KN
6010B	Barium	185	1	1.0	0.05	mg/Kg	01/13/04 KN
6010B	Beryllium	0.466 J	1	0.5	0.16	mg/Kg	01/13/04 KN
6010B	Cadmium	0.995	1	0.5	0.06	mg/Kg	01/13/04 KN
6010B	Chromium	17.4	1	1.0	0.14	mg/Kg	01/13/04 KN
6010B	Cobalt	6.53	1	0.5	0.06	mg/Kg	01/13/04 KN
6010B	Copper	27.4	1	1.0	0.10	mg/Kg	01/13/04 KN
6010B	Lead	93.6	1	0.5	0.16	mg/Kg	01/13/04 KN
6010/STLC	Lead, STLC	3.04	10	0.05	0.002	mg/L	01/22/04 KN
6010B	Molybdenum	2.58	1	1.0	0.38	mg/Kg	01/13/04 KN
6010B	Nickel	12.4	1	1.5	0.29	mg/Kg	01/13/04 KN
6010B	Selenium	ND	1	1.0	0.55	mg/Kg	01/13/04 KN
6010B	Silver	0.694	1	0.5	0.12	mg/Kg	01/13/04 KN
6010B	Thallium	ND	1	1.0	0.33	mg/Kg	01/13/04 KN
6010B	Vanadium	25.2	1	0.5	0.17	mg/Kg	01/13/04 KN
6010B	Zinc	131	1	5.0	0.07	mg/Kg	01/13/04 KN
7471A	Mercury	0.75	1	0.14	0.02	mg/Kg	01/13/04 MDJ
8270C	1,2,4-Trichlorobenzene	ND	5	1665.0	32.1	ug/Kg	01/12/04 DP
8270C	1,2-Dichlorobenzene	ND	5	1665.0	69.1	ug/Kg	01/12/04 DP
8270C	1,3-Dichlorobenzene	ND	5	1665.0	133.5	ug/Kg	01/12/04 DP
8270C	1,4-Dichlorobenzene	ND	5	1665.0	58.0	ug/Kg	01/12/04 DP
8270C	2,4,5-Trichlorophenol	ND	5	8325.0	33.6	ug/Kg	01/12/04 DP
8270C	2,4,6-Trichlorophenol	ND	5	8325.0	31.9	ug/Kg	01/12/04 DP
8270C	2,4-Dichlorophenol	ND	5	1665.0	35.3	ug/Kg	01/12/04 DP
8270C	2,4-Dimethylphenol	ND	5	1665.0	37.1	ug/Kg	01/12/04 DP
8270C	2,4-Dinitrophenol	ND	5	8325.0	60.5	ug/Kg	01/12/04 DP
8270C	2,4-Dinitrotoluene	ND	5	1665.0	58.4	ug/Kg	01/12/04 DP
8270C	2,6-Dinitrotoluene	ND	5	1665.0	50.4	ug/Kg	01/12/04 DP
8270C	2-Chloronaphthalene	ND	5	1665.0	18.2	ug/Kg	01/12/04 DP
8270C	2-Chlorophenol	ND	5	1665.0	230.8	ug/Kg	01/12/04 DP
8270C	2-Methylnaphthalene	ND	5	1665.0	31.6	ug/Kg	01/12/04 DP
8270C	2-Methylphenol	ND	5	1665.0	194.3	ug/Kg	01/12/04 DP

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489494 **Client Sample ID:** RO-8

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 13:19

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	2-Nitroaniline	ND	5	8325.0	30.8	ug/Kg	01/12/04 DP
8270C	2-Nitrophenol	ND	5	1665.0	63.4	ug/Kg	01/12/04 DP
8270C	3,3-Dichlorobenzidine	ND	5	1665.0	52.3	ug/Kg	01/12/04 DP
8270C	3-Methylphenol	ND	5	1665.0	211.4	ug/Kg	01/12/04 DP
8270C	3-Nitroaniline	ND	5	8325.0	31.1	ug/Kg	01/12/04 DP
8270C	4,6-Dinitro-2-methylphenol	ND	5	8325.0	44.9	ug/Kg	01/12/04 DP
8270C	4-Bromophenyl-phenylether	ND	5	1665.0	29.6	ug/Kg	01/12/04 DP
8270C	4-Chloro-3-methylphenol	ND	5	1665.0	48.8	ug/Kg	01/12/04 DP
8270C	4-Chloroaniline	ND	5	1665.0	19.2	ug/Kg	01/12/04 DP
8270C	4-Chlorophenyl-phenylether	ND	5	1665.0	38.1	ug/Kg	01/12/04 DP
8270C	4-Methylphenol	ND	5	1665.0	211.4	ug/Kg	01/12/04 DP
8270C	4-Nitroaniline	ND	5	8325.0	134.9	ug/Kg	01/12/04 DP
8270C	4-Nitrophenol	ND	5	8325.0	84.8	ug/Kg	01/12/04 DP
8270C	Acenaphthene	ND	5	1665.0	17.4	ug/Kg	01/12/04 DP
8270C	Acenaphthylene	ND	5	1665.0	14.8	ug/Kg	01/12/04 DP
8270C	Anthracene	ND	5	1665.0	9.9	ug/Kg	01/12/04 DP
8270C	Benzidine	ND	5	1665.0	260	ug/Kg	01/12/04 DP
8270C	Benzo(a)anthracene	ND	5	1665.0	26.2	ug/Kg	01/12/04 DP
8270C	Benzo(a)pyrene	ND	5	1665.0	20.0	ug/Kg	01/12/04 DP
8270C	Benzo(b)fluoranthene	ND	5	1665.0	29.9	ug/Kg	01/12/04 DP
8270C	Benzo(g,h,i)perylene	ND	5	1665.0	13.9	ug/Kg	01/12/04 DP
8270C	Benzo(k)fluoranthene	ND	5	1665.0	23.7	ug/Kg	01/12/04 DP
8270C	Benzoic Acid	ND	5	1665.0	70.0	ug/Kg	01/12/04 DP
8270C	Benzyl alcohol	ND	5	1665.0	197.0	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroethoxy)methane	ND	5	1665.0	22.6	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroethyl)ether	ND	5	1665.0	291.5	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroisopropyl) ether	ND	5	1665.0	275.3	ug/Kg	01/12/04 DP
8270C	bis(2-Ethylhexyl)phthalate	1170 J	5	1665.0	36.1	ug/Kg	01/12/04 DP
8270C	Butylbenzylphthalate	ND	5	1665.0	25.9	ug/Kg	01/12/04 DP
8270C	Chrysene	ND	5	1665.0	38.0	ug/Kg	01/12/04 DP
8270C	Di-n-butylphthalate	ND	5	1665.0	30.7	ug/Kg	01/12/04 DP
8270C	Di-n-octylphthalate	ND	5	1665.0	66.3	ug/Kg	01/12/04 DP
8270C	Dibenz(a,h)anthracene	ND	5	1665.0	32.3	ug/Kg	01/12/04 DP
8270C	Dibenzofuran	ND	5	1665.0	16.4	ug/Kg	01/12/04 DP
8270C	Diethylphthalate	ND	5	1665.0	43.8	ug/Kg	01/12/04 DP
8270C	Dimethylphthalate	ND	5	1665.0	28.6	ug/Kg	01/12/04 DP
8270C	Fluoranthene	ND	5	1665.0	28.2	ug/Kg	01/12/04 DP
8270C	Fluorene	ND	5	1665.0	19.3	ug/Kg	01/12/04 DP
8270C	Hexachlorobenzene	ND	5	1665.0	49.4	ug/Kg	01/12/04 DP

EQT Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
NL ot detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489494 **Client Sample ID:** RO-8

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 13:19

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	Hexachlorobutadiene	ND	5	1665.0	40.1	ug/Kg	01/12/04 DP
8270C	Hexachlorocyclopentadiene	ND	5	1665.0	48.3	ug/Kg	01/12/04 DP
8270C	Hexachloroethane	ND	5	1665.0	180.8	ug/Kg	01/12/04 DP
8270C	Indeno(1,2,3-c,d)pyrene	ND	5	1665.0	36.1	ug/Kg	01/12/04 DP
8270C	Isophorone	ND	5	1665.0	30.4	ug/Kg	01/12/04 DP
8270C	N-Nitroso-di-n-propylamine	ND	5	1665.0	221.8	ug/Kg	01/12/04 DP
8270C	N-Nitrosodiphenylamine	ND	5	1665.0	29.1	ug/Kg	01/12/04 DP
8270C	Naphthalene	ND	5	1665.0	15.6	ug/Kg	01/12/04 DP
8270C	Nitrobenzene	ND	5	1665.0	60.6	ug/Kg	01/12/04 DP
8270C	Pentachlorophenol	ND	5	8325.0	38.0	ug/Kg	01/12/04 DP
8270C	Phenanthrene	ND	5	1665.0	19.4	ug/Kg	01/12/04 DP
8270C	Phenol	ND	5	1665.0	229.8	ug/Kg	01/12/04 DP
8270C	Pyrene	ND	5	1665.0	28.2	ug/Kg	01/12/04 DP

Surrogates			Units	Control Limits
8270C	2,4,6-Tribromophenol (sur)	97	%	17 - 122
8270C	2-Fluorobiphenyl (sur)	87	%	30 - 115
8270C	2-Fluorophenol (sur)	62	%	25 - 121
8270C	Nitrobenzene-d5 (sur)	79	%	23 - 120
8270C	Phenol-d5 (sur)	89	%	24 - 113
8270C	Terphenyl-d14 (sur)	124	%	18 - 137

8260B	1,1,1,2-Tetrachloroethane	ND	1	5	2.19	ug/Kg	01/12/04 AM
8260B	1,1,1-Trichloroethane	ND	1	5	0.47	ug/Kg	01/12/04 AM
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.50	ug/Kg	01/12/04 AM
8260B	1,1,2-Trichloroethane	ND	1	5	0.57	ug/Kg	01/12/04 AM
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	0.10	ug/Kg	01/12/04 AM
8260B	1,1-Dichloroethane	ND	1	5	0.74	ug/Kg	01/12/04 AM
8260B	1,1-Dichloroethene	ND	1	5	0.43	ug/Kg	01/12/04 AM
8260B	1,1-Dichloropropene	ND	1	5	1.30	ug/Kg	01/12/04 AM
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.54	ug/Kg	01/12/04 AM
8260B	1,2,3-Trichloropropane	ND	1	5	0.65	ug/Kg	01/12/04 AM
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/Kg	01/12/04 AM
8260B	1,2,4-Trimethylbenzene	ND	1	5	0.60	ug/Kg	01/12/04 AM
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	1.92	ug/Kg	01/12/04 AM
8260B	1,2-Dibromoethane	ND	1	5	0.43	ug/Kg	01/12/04 AM
8260B	1,2-Dichlorobenzene	ND	1	5	0.45	ug/Kg	01/12/04 AM
8260B	1,2-Dichloroethane	ND	1	5	0.59	ug/Kg	01/12/04 AM

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489494 **Client Sample ID:** RO-8

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 13:19

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	1,2-Dichloropropane	ND	1	5	0.58	ug/Kg	01/12/04 AM
8260B	1,3,5-Trimethylbenzene	ND	1	5	0.55	ug/Kg	01/12/04 AM
8260B	1,3-Dichlorobenzene	ND	1	5	0.44	ug/Kg	01/12/04 AM
8260B	1,3-Dichloropropane	ND	1	5	0.51	ug/Kg	01/12/04 AM
8260B	1,4-Dichlorobenzene	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	1,4-Dioxane	ND	1	200	200	ug/Kg	01/12/04 AM
8260B	1-Chlorohexane	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	2,2-Dichloropropane	ND	1	5	0.47	ug/Kg	01/12/04 AM
8260B	2-Butanone (MEK)	ND	1	100	0.98	ug/Kg	01/12/04 AM
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	2-Chlorotoluene	ND	1	5	0.92	ug/Kg	01/12/04 AM
8260B	2-Hexanone	ND	1	5	4.7	ug/Kg	01/12/04 AM
8260B	4-Chlorotoluene	ND	1	5	0.52	ug/Kg	01/12/04 AM
8260B	4-Methyl -2- Pentanone	ND	1	5	0.49	ug/Kg	01/12/04 AM
8260B	Acetone	ND	1	50	3.81	ug/Kg	01/12/04 AM
8260B	Acetonitrile	ND	1	5	0.7	ug/Kg	01/12/04 AM
8260B	Acrolein	ND	1	200	172	ug/Kg	01/12/04 AM
8260B	Acrylonitrile	ND	1	5	1.3	ug/Kg	01/12/04 AM
8260B	Allyl chloride	ND	1	5	0.4	ug/Kg	01/12/04 AM
8260B	Benzene	ND	1	5	0.39	ug/Kg	01/12/04 AM
8260B	Benzyl chloride	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	Bromobenzene	ND	1	5	0.65	ug/Kg	01/12/04 AM
8260B	Bromochloromethane	ND	1	5	0.36	ug/Kg	01/12/04 AM
8260B	Bromodichloromethane	ND	1	5	0.48	ug/Kg	01/12/04 AM
8260B	Bromoform	ND	1	5	0.53	ug/Kg	01/12/04 AM
8260B	Bromomethane	ND	1	5	2.07	ug/Kg	01/12/04 AM
8260B	Carbon Disulfide	ND	1	5	0.8	ug/Kg	01/12/04 AM
8260B	Carbon tetrachloride	ND	1	5	0.40	ug/Kg	01/12/04 AM
8260B	Chlorobenzene	ND	1	5	0.42	ug/Kg	01/12/04 AM
8260B	Chloroethane	ND	1	5	1.1	ug/Kg	01/12/04 AM
8260B	Chloroform	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	Chloromethane	ND	1	5	0.25	ug/Kg	01/12/04 AM
8260B	cis-1,2-Dichloroethene	ND	1	5	0.79	ug/Kg	01/12/04 AM
8260B	cis-1,3-Dichloropropene	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	cis-1,4-Dichloro-2-butene	ND	1	5	0.59	ug/Kg	01/12/04 AM
8260B	Dibromochloromethane	ND	1	5	0.44	ug/Kg	01/12/04 AM
8260B	Dibromomethane	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	Dichlorodifluoromethane	ND	1	5	0.16	ug/Kg	01/12/04 AM
8260B	Ethyl benzene	ND	1	5	0.41	ug/Kg	01/12/04 AM

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489494 **Client Sample ID**: RO-8

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 13:19

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Ethyl methacrylate	ND	1	5	1.8	ug/Kg	01/12/04 AM
8260B	Hexachlorobutadiene	ND	1	5	0.29	ug/Kg	01/12/04 AM
8260B	Iodomethane	ND	1	5	0.6	ug/Kg	01/12/04 AM
8260B	Isopropylbenzene (Cumene)	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	m and p-Xylene	ND	1	5	0.67	ug/Kg	01/12/04 AM
8260B	Methacrylonitrile	ND	1	5	2.70	ug/Kg	01/12/04 AM
8260B	Methyl methacrylate	ND	1	5	0.21	ug/Kg	01/12/04 AM
8260B	Methyl-tert-butylether (MTBE)	ND	1	5	0.51	ug/Kg	01/12/04 AM
8260B	Methylene chloride	ND	1	5	0.91	ug/Kg	01/12/04 AM
8260B	n-Butylbenzene	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	n-Propylbenzene	ND	1	5	0.32	ug/Kg	01/12/04 AM
8260B	Naphthalene	ND	1	5	0.60	ug/Kg	01/12/04 AM
8260B	o-Xylene	ND	1	5	0.35	ug/Kg	01/12/04 AM
8260B	p-Isopropyltoluene	ND	1	5	0.32	ug/Kg	01/12/04 AM
8260B	Pentachloroethane	ND	1	5	0.6	ug/Kg	01/12/04 AM
8260B	Propionitrile	ND	1	5	5	ug/Kg	01/12/04 AM
8260B	sec-Butylbenzene	ND	1	5	0.31	ug/Kg	01/12/04 AM
8260B	Styrene	ND	1	5	0.37	ug/Kg	01/12/04 AM
8260B	tert-Butylbenzene	ND	1	5	0.41	ug/Kg	01/12/04 AM
8260B	Tetrachloroethene	ND	1	5	0.49	ug/Kg	01/12/04 AM
8260B	Toluene	ND	1	5	0.42	ug/Kg	01/12/04 AM
8260B	trans-1,2-Dichloroethene	ND	1	5	0.48	ug/Kg	01/12/04 AM
8260B	trans-1,3-Dichloropropene	ND	1	5	0.44	ug/Kg	01/12/04 AM
8260B	trans-1,4-Dichloro-2-butene	ND	1	5	2.35	ug/Kg	01/12/04 AM
8260B	Trichloroethene	ND	1	5	0.43	ug/Kg	01/12/04 AM
8260B	Trichlorofluoromethane	ND	1	5	0.40	ug/Kg	01/12/04 AM
8260B	Vinyl acetate	ND	1	50	10.2	ug/Kg	01/12/04 AM
8260B	Vinyl chloride	ND	1	5	0.47	ug/Kg	01/12/04 AM
8260B	Xylenes, total	ND	1	5	0.8	ug/Kg	01/12/04 AM

Surrogates			Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	96	%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	115	%	70 - 135
8260B	Surr3 - Toluene-d8	101	%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	105	%	70 - 135

8082	PCB-1016	ND	100	3.0	0.003	mg/Kg	01/16/04 RB
8082	PCB-1221	ND	100	6.0	0.006	mg/Kg	01/16/04 RB

EQ[illegible] Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
NL[illegible]ot detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489494 **Client Sample ID**: RO-8

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 13:19

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1232	ND	100	5.0	0.004	mg/Kg	01/16/04 RB
8082	PCB-1242	ND	100	5.0	0.002	mg/Kg	01/16/04 RB
8082	PCB-1248	ND	100	8.0	0.008	mg/Kg	01/16/04 RB
8082	PCB-1254	ND	100	3.0	0.001	mg/Kg	01/16/04 RB
8082	PCB-1260	18	100	3.0	0.002	mg/Kg	01/16/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	103	%	50 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489495 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Time Sampled: :

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Antimony	ND	1	3.00	0.62	mg/Kg	01/13/04 KN
6010B	Arsenic	ND	1	1.00	0.72	mg/Kg	01/13/04 KN
6010B	Barium	ND	1	1.00	0.05	mg/Kg	01/13/04 KN
6010B	Beryllium	ND	1	0.50	0.16	mg/Kg	01/13/04 KN
6010B	Cadmium	ND	1	0.50	0.06	mg/Kg	01/13/04 KN
6010B	Chromium	ND	1	1.00	0.14	mg/Kg	01/13/04 KN
6010B	Cobalt	ND	1	0.50	0.06	mg/Kg	01/13/04 KN
6010B	Copper	ND	1	1.00	0.10	mg/Kg	01/13/04 KN
6010B	Lead	ND	1	0.50	0.16	mg/Kg	01/13/04 KN
6010/STLC	Lead, STLC	ND	1	0.005	0.002	mg/L	01/22/04 KN
6010B	Molybdenum	ND	1	1.00	0.38	mg/Kg	01/13/04 KN
6010B	Nickel	ND	1	1.50	0.29	mg/Kg	01/13/04 KN
6010B	Selenium	ND	1	1.00	0.55	mg/Kg	01/13/04 KN
6010B	Silver	ND	1	0.50	0.12	mg/Kg	01/13/04 KN
6010B	Thallium	ND	1	1.00	0.33	mg/Kg	01/13/04 KN
6010B	Vanadium	ND	1	0.50	0.17	mg/Kg	01/13/04 KN
6010B	Zinc	ND	1	5.00	0.07	mg/Kg	01/13/04 KN
7471A	Mercury	ND	1	0.14	0.02	mg/Kg	01/13/04 MDJ
8270C	1,2,4-Trichlorobenzene	ND	1	333	32.1	ug/Kg	01/12/04 DP
8270C	1,2-Dichlorobenzene	ND	1	333	69.1	ug/Kg	01/12/04 DP
8270C	1,3-Dichlorobenzene	ND	1	333	133.5	ug/Kg	01/12/04 DP
8270C	1,4-Dichlorobenzene	ND	1	333	58.0	ug/Kg	01/12/04 DP
8270C	2,4,5-Trichlorophenol	ND	1	1665	33.6	ug/Kg	01/12/04 DP
8270C	2,4,6-Trichlorophenol	ND	1	1665	31.9	ug/Kg	01/12/04 DP
8270C	2,4-Dichlorophenol	ND	1	333	35.3	ug/Kg	01/12/04 DP
8270C	2,4-Dimethylphenol	ND	1	333	37.1	ug/Kg	01/12/04 DP
8270C	2,4-Dinitrophenol	ND	1	1665	60.5	ug/Kg	01/12/04 DP
8270C	2,4-Dinitrotoluene	ND	1	333	58.4	ug/Kg	01/12/04 DP
8270C	2,6-Dinitrotoluene	ND	1	333	50.4	ug/Kg	01/12/04 DP
8270C	2-Chloronaphthalene	ND	1	333	18.2	ug/Kg	01/12/04 DP
8270C	2-Chlorophenol	ND	1	333	230.8	ug/Kg	01/12/04 DP
8270C	2-Methylnaphthalene	ND	1	333	31.6	ug/Kg	01/12/04 DP
8270C	2-Methylphenol	ND	1	333	194.3	ug/Kg	01/12/04 DP

EQ' Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
NL .ot detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489495 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Time Sampled: :

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	2-Nitroaniline	ND	1	1665	30.8	ug/Kg	01/12/04 DP
8270C	2-Nitrophenol	ND	1	333	63.4	ug/Kg	01/12/04 DP
8270C	3,3-Dichlorobenzidine	ND	1	333	52.3	ug/Kg	01/12/04 DP
8270C	3-Methylphenol	ND	1	333	211.4	ug/Kg	01/12/04 DP
8270C	3-Nitroaniline	ND	1	1665	31.1	ug/Kg	01/12/04 DP
8270C	4,6-Dinitro-2-methylphenol	ND	1	1665	44.9	ug/Kg	01/12/04 DP
8270C	4-Bromophenyl-phenylether	ND	1	333	29.6	ug/Kg	01/12/04 DP
8270C	4-Chloro-3-methylphenol	ND	1	333	48.8	ug/Kg	01/12/04 DP
8270C	4-Chloroaniline	ND	1	333	19.2	ug/Kg	01/12/04 DP
8270C	4-Chlorophenyl-phenylether	ND	1	333	38.1	ug/Kg	01/12/04 DP
8270C	4-Methylphenol	ND	1	333	211.4	ug/Kg	01/12/04 DP
8270C	4-Nitroaniline	ND	1	1665	134.9	ug/Kg	01/12/04 DP
8270C	4-Nitrophenol	ND	1	1665	84.8	ug/Kg	01/12/04 DP
8270C	Acenaphthene	ND	1	333	17.4	ug/Kg	01/12/04 DP
8270C	Acenaphthylene	ND	1	333	14.8	ug/Kg	01/12/04 DP
8270C	Anthracene	ND	1	333	9.9	ug/Kg	01/12/04 DP
8270C	Benzidine	ND	1	333	260	ug/Kg	01/12/04 DP
8270C	Benzo(a)anthracene	ND	1	333	26.2	ug/Kg	01/12/04 DP
8270C	Benzo(a)pyrene	ND	1	333	20.0	ug/Kg	01/12/04 DP
8270C	Benzo(b)fluoranthene	ND	1	333	29.9	ug/Kg	01/12/04 DP
8270C	Benzo(g,h,i)perylene	ND	1	333	13.9	ug/Kg	01/12/04 DP
8270C	Benzo(k)fluoranthene	ND	1	333	23.7	ug/Kg	01/12/04 DP
8270C	Benzoic Acid	ND	1	333	70.0	ug/Kg	01/12/04 DP
8270C	Benzyl alcohol	ND	1	333	197.0	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroethoxy)methane	ND	1	333	22.6	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroethyl)ether	ND	1	333	291.5	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroisopropyl) ether	ND	1	333	275.3	ug/Kg	01/12/04 DP
8270C	bis(2-Ethylhexyl)phthalate	ND	1	333	36.1	ug/Kg	01/12/04 DP
8270C	Butylbenzylphthalate	ND	1	333	25.9	ug/Kg	01/12/04 DP
8270C	Chrysene	ND	1	333	38.0	ug/Kg	01/12/04 DP
8270C	Di-n-butylphthalate	ND	1	333	30.7	ug/Kg	01/12/04 DP
8270C	Di-n-octylphthalate	ND	1	333	66.3	ug/Kg	01/12/04 DP
8270C	Dibenz(a,h)anthracene	ND	1	333	32.3	ug/Kg	01/12/04 DP
8270C	Dibenzofuran	ND	1	333	16.4	ug/Kg	01/12/04 DP
8270C	Diethylphthalate	ND	1	333	43.8	ug/Kg	01/12/04 DP
8270C	Dimethylphthalate	ND	1	333	28.6	ug/Kg	01/12/04 DP
8270C	Fluoranthene	ND	1	333	28.2	ug/Kg	01/12/04 DP
8270C	Fluorene	ND	1	333	19.3	ug/Kg	01/12/04 DP
8270C	Hexachlorobenzene	ND	1	333	49.4	ug/Kg	01/12/04 DP

EQ[illegible] Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
NL[illegible]ot detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489495 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Time Sampled: :

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	Hexachlorobutadiene	ND	1	333	40.1	ug/Kg	01/12/04 DP
8270C	Hexachlorocyclopentadiene	ND	1	333	48.3	ug/Kg	01/12/04 DP
8270C	Hexachloroethane	ND	1	333	180.8	ug/Kg	01/12/04 DP
8270C	Indeno(1,2,3-c,d)pyrene	ND	1	333	36.1	ug/Kg	01/12/04 DP
8270C	Isophorone	ND	1	333	30.4	ug/Kg	01/12/04 DP
8270C	N-Nitroso-di-n-propylamine	ND	1	333	221.8	ug/Kg	01/12/04 DP
8270C	N-Nitrosodiphenylamine	ND	1	333	29.1	ug/Kg	01/12/04 DP
8270C	Naphthalene	ND	1	333	15.6	ug/Kg	01/12/04 DP
8270C	Nitrobenzene	ND	1	333	60.6	ug/Kg	01/12/04 DP
8270C	Pentachlorophenol	ND	1	1665	38.0	ug/Kg	01/12/04 DP
8270C	Phenanthrene	ND	1	333	19.4	ug/Kg	01/12/04 DP
8270C	Phenol	ND	1	333	229.8	ug/Kg	01/12/04 DP
8270C	Pyrene	ND	1	333	28.2	ug/Kg	01/12/04 DP

Surrogates			Units	Control Limits
8270C	2,4,6-Tribromophenol (sur)	37	%	17 - 122
8270C	2-Fluorobiphenyl (sur)	47	%	30 - 115
8270C	2-Fluorophenol (sur)	44	%	25 - 121
8270C	Nitrobenzene-d5 (sur)	43	%	23 - 120
8270C	Phenol-d5 (sur)	54	%	24 - 113
8270C	Terphenyl-d14 (sur)	79	%	18 - 137

8260B	1,1,1,2-Tetrachloroethane	ND	1	5	2.19	ug/Kg	01/12/04 AM
8260B	1,1,1-Trichloroethane	ND	1	5	0.47	ug/Kg	01/12/04 AM
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.50	ug/Kg	01/12/04 AM
8260B	1,1,2-Trichloroethane	ND	1	5	0.57	ug/Kg	01/12/04 AM
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	0.10	ug/Kg	01/12/04 AM
8260B	1,1-Dichloroethane	ND	1	5	0.74	ug/Kg	01/12/04 AM
8260B	1,1-Dichloroethene	ND	1	5	0.43	ug/Kg	01/12/04 AM
8260B	1,1-Dichloropropene	ND	1	5	1.30	ug/Kg	01/12/04 AM
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.54	ug/Kg	01/12/04 AM
8260B	1,2,3-Trichloropropane	ND	1	5	0.65	ug/Kg	01/12/04 AM
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/Kg	01/12/04 AM
8260B	1,2,4-Trimethylbenzene	ND	1	5	0.60	ug/Kg	01/12/04 AM
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	1.92	ug/Kg	01/12/04 AM
8260B	1,2-Dibromoethane	ND	1	5	0.43	ug/Kg	01/12/04 AM
8260B	1,2-Dichlorobenzene	ND	1	5	0.45	ug/Kg	01/12/04 AM
8260B	1,2-Dichloroethane	ND	1	5	0.59	ug/Kg	01/12/04 AM

EQ Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
NL ot detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489495 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Time Sampled: :

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	1,2-Dichloropropane	ND	1	5	0.58	ug/Kg	01/12/04 AM
8260B	1,3,5-Trimethylbenzene	ND	1	5	0.55	ug/Kg	01/12/04 AM
8260B	1,3-Dichlorobenzene	ND	1	5	0.44	ug/Kg	01/12/04 AM
8260B	1,3-Dichloropropane	ND	1	5	0.51	ug/Kg	01/12/04 AM
8260B	1,4-Dichlorobenzene	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	1,4-Dioxane	ND	1	200	200	ug/Kg	01/12/04 AM
8260B	1-Chlorohexane	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	2,2-Dichloropropane	ND	1	5	0.47	ug/Kg	01/12/04 AM
8260B	2-Butanone (MEK)	ND	1	100	0.98	ug/Kg	01/12/04 AM
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	2-Chlorotoluene	ND	1	5	0.92	ug/Kg	01/12/04 AM
8260B	2-Hexanone	ND	1	5	4.7	ug/Kg	01/12/04 AM
8260B	4-Chlorotoluene	ND	1	5	0.52	ug/Kg	01/12/04 AM
8260B	4-Methyl -2- Pentanone	ND	1	5	0.49	ug/Kg	01/12/04 AM
8260B	Acetone	ND	1	50	3.81	ug/Kg	01/12/04 AM
8260B	Acetonitrile	ND	1	5	0.7	ug/Kg	01/12/04 AM
8260B	Acrolein	ND	1	200	172	ug/Kg	01/12/04 AM
8260B	Acrylonitrile	ND	1	5	1.3	ug/Kg	01/12/04 AM
8260B	Allyl chloride	ND	1	5	0.4	ug/Kg	01/12/04 AM
8260B	Benzene	ND	1	5	0.39	ug/Kg	01/12/04 AM
8260B	Benzyl chloride	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	Bromobenzene	ND	1	5	0.65	ug/Kg	01/12/04 AM
8260B	Bromochloromethane	ND	1	5	0.36	ug/Kg	01/12/04 AM
8260B	Bromodichloromethane	ND	1	5	0.48	ug/Kg	01/12/04 AM
8260B	Bromoform	ND	1	5	0.53	ug/Kg	01/12/04 AM
8260B	Bromomethane	ND	1	5	2.07	ug/Kg	01/12/04 AM
8260B	Carbon Disulfide	ND	1	5	0.8	ug/Kg	01/12/04 AM
8260B	Carbon tetrachloride	ND	1	5	0.40	ug/Kg	01/12/04 AM
8260B	Chlorobenzene	ND	1	5	0.42	ug/Kg	01/12/04 AM
8260B	Chloroethane	ND	1	5	1.1	ug/Kg	01/12/04 AM
8260B	Chloroform	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	Chloromethane	ND	1	5	0.25	ug/Kg	01/12/04 AM
8260B	cis-1,2-Dichloroethene	ND	1	5	0.79	ug/Kg	01/12/04 AM
8260B	cis-1,3-Dichloropropene	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	cis-1,4-Dichloro-2-butene	ND	1	5	0.59	ug/Kg	01/12/04 AM
8260B	Dibromochloromethane	ND	1	5	0.44	ug/Kg	01/12/04 AM
8260B	Dibromomethane	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	Dichlorodifluoromethane	ND	1	5	0.16	ug/Kg	01/12/04 AM
8260B	Ethyl benzene	ND	1	5	0.41	ug/Kg	01/12/04 AM

EQ[T] Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
NL ot detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489495 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Time Sampled: :

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Ethyl methacrylate	ND	1	5	1.8	ug/Kg	01/12/04 AM
8260B	Hexachlorobutadiene	ND	1	5	0.29	ug/Kg	01/12/04 AM
8260B	Iodomethane	ND	1	5	0.6	ug/Kg	01/12/04 AM
8260B	Isopropylbenzene (Cumene)	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	m and p-Xylene	ND	1	5	0.67	ug/Kg	01/12/04 AM
8260B	Methacrylonitrile	ND	1	5	2.70	ug/Kg	01/12/04 AM
8260B	Methyl methacrylate	ND	1	5	0.21	ug/Kg	01/12/04 AM
8260B	Methyl-tert-butylether (MTBE)	ND	1	5	0.51	ug/Kg	01/12/04 AM
8260B	Methylene chloride	ND	1	5	0.91	ug/Kg	01/12/04 AM
8260B	n-Butylbenzene	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	n-Propylbenzene	ND	1	5	0.32	ug/Kg	01/12/04 AM
8260B	Naphthalene	ND	1	5	0.60	ug/Kg	01/12/04 AM
8260B	o-Xylene	ND	1	5	0.35	ug/Kg	01/12/04 AM
8260B	p-Isopropyltoluene	ND	1	5	0.32	ug/Kg	01/12/04 AM
8260B	Pentachloroethane	ND	1	5	0.6	ug/Kg	01/12/04 AM
8260B	Propionitrile	ND	1	5	5	ug/Kg	01/12/04 AM
8260B	sec-Butylbenzene	ND	1	5	0.31	ug/Kg	01/12/04 AM
8260B	Styrene	ND	1	5	0.37	ug/Kg	01/12/04 AM
8260B	tert-Butylbenzene	ND	1	5	0.41	ug/Kg	01/12/04 AM
8260B	Tetrachloroethene	ND	1	5	0.49	ug/Kg	01/12/04 AM
8260B	Toluene	ND	1	5	0.42	ug/Kg	01/12/04 AM
8260B	trans-1,2-Dichloroethene	ND	1	5	0.48	ug/Kg	01/12/04 AM
8260B	trans-1,3-Dichloropropene	ND	1	5	0.44	ug/Kg	01/12/04 AM
8260B	trans-1,4-Dichloro-2-butene	ND	1	5	2.35	ug/Kg	01/12/04 AM
8260B	Trichloroethene	ND	1	5	0.43	ug/Kg	01/12/04 AM
8260B	Trichlorofluoromethane	ND	1	5	0.40	ug/Kg	01/12/04 AM
8260B	Vinyl acetate	ND	1	50	10.2	ug/Kg	01/12/04 AM
8260B	Vinyl chloride	ND	1	5	0.47	ug/Kg	01/12/04 AM
8260B	Xylenes, total	ND	1	5	0.8	ug/Kg	01/12/04 AM

Surrogates			Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	97	%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	102	%	70 - 135
8260B	Surr3 - Toluene-d8	106	%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	102	%	70 - 135

8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/14/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/14/04 RB

EQ Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
NL ot detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489495 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Time Sampled: :

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/14/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/14/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/14/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/14/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/14/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	100	%	50 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 122545-489494 QC# 011304SO1

atrix: SOLID

Prep. Date: 01/13/04

Analysis Date: 01/13/04

Lab ID#'s in Batch: LR 122545, 122546, 122547, 122548, 122549, 122550, 122551, 122594, 122606

REPORTING UNITS = mg/Kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Arsenic	6010	8.31		94	95	94	92	91	1
Selenium	6010	1.00	U	94	84	83	89	88	1
Thallium	6010	1.00	U	94	82	81	87	86	1
Lead	6010	93.40		94	184	184	96	96	0
Antimony	6010	3.00	U	94	92	91	98	97	1
ırium	6010	185.00		94	272	268	93	88	1
Beryllium	6010	0.50	U	94	90	88	96	94	2
Cadmium	6010	1.00		94	91	91	96	96	0
Chromium	6010	17.40		94	107	105	95	93	2
Cobalt	6010	6.53		94	97	96	96	95	1
Copper	6010	27.40		94	119	116	97	94	3
Molybdenum	6010	2.58		94	104	100	108	104	4
Nickel	6010	12.40		94	97	96	90	89	1
Silver	6010	0.69		47	44	43	92	90	2
Vanadium	6010	25.20		94	118	116	99	97	2
Zinc	6010	131.00		94	215	216	89	90	0

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - 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 = 75 -125
RPD LIMITS = 20

ASSOCIATED LABORATORIES

LCS/MB REPORT FORM

LCS Source(s) : QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank MB	Method Blank ND
lver	6010	114	100	114	80%	120%	0.50	U
Arsenic	6010	176	200	88	80%	120%	0.50	U
Barium	6010	200	200	100	80%	120%	1.00	U
Beryllium	6010	209	200	105	80%	120%	0.50	U
Cadmium	6010	212	200	106	80%	120%	0.50	U
Cobalt	6010	204	200	102	80%	120%	0.50	U
Chromium	6010	205	200	103	80%	120%	1.00	U
Copper	6010	200	200	100	80%	120%	1.00	U
Molybdenum	6010	209	200	105	80%	120%	1.00	U
Nickel	6010	205	200	103	80%	120%	1.50	U
Lead	6010	198	200	99	80%	120%	0.50	U
Antimony	6010	209	200	105	80%	120%	3.00	U
Selenium	6010	199	200	100	80%	120%	1.00	U
Thallium	6010	198	200	99	80%	120%	1.00	U
anadium	6010	205	200	103	80%	120%	1.00	U
Zinc	6010	213	200	107	80%	120%	5.00	U

*Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True*

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Method Blank; ND = " U " for Non- Detected

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 122613-489816 QC# 012204stlc1

Matrix: STLC

Prep. Date: 01/22/04

Analysis Date: 01/22/04

Lab ID#'s in Batch: LR 122546, 122613, 122545

REPORTING UNITS = mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	6010	15.50		10	23.10	23.50	76	80	2
Chromium	6010	0.27		10	8.99	8.98	87	87	0

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - 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 = 75 -125
RPD LIMITS = 20

ASSOCIATED LABORATORIES
QA REPORT FORM

)C Sample: LR 122546-489497

Matrix: SOIL

Prep. Date: 01/13/04

Analysis Date: 01/13/04

ID#'s in Batch: LR 122546, 122545, 122547, 122548, 122549, 122550, 122551, 122692, 122693

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = mg/Kg

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
MERCURY	245.5 / 7471A	0.32	0.75	1.13	1.15	108	111	2

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	0.85	0.80	106	80%	120%

Value = Preparation Blank Value; ND = Not-Detected
LCS Result = Lab Control Sample Result
True = True Value of LCS
L.Limit / H.Limit = LCS Control Limits

ASSOCIATED LABORATORIES

QA REPORT FORM

Method : EPA 8270/625

Prep. Method : 3550B

QC le: MS/MSD 122547-499

Matrix: SOLID

Date Extracted : 01/12/04

Date Analyzed : 01/12/04

Applies to: LR 122545, 122546, 122547, 122548, 122549, 122550, 122551

REPORTING UNITS = ug/Kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Test	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup.	%Rec MS	%Rec MSD	RPD	QC Limits RPD	QC Limits %REC
Phenol	ND	50	40	45	80	90	12	42	6-117
2-Chorophenol	ND	50	40	49	80	98	20	35	28-100
1,4-Dichlorobenzene	ND	50	35	42	70	84	18	36	39-92
n-Nitroso-di-n-propylamine	ND	50	52	54	104	108	4	42	5-149
1,2,4-Trichlorobenzene	ND	50	41	48	82	96	16	41	41-97
4-Chloro-3-methylphenol	ND	50	41	46	82	92	11	37	26-117
Acenaphthene *	ND	50	44	54	88	108	20	41	46-113
4-Nitrophenol	ND	50	39	44	78	88	12	73	53-143
2,4- oluene	ND	50	17	16	34	32	6	43	82-125
Pentachlorophenol	ND	50	43	45	86	90	5	52	25-187
Pyrene	ND	50	59	64	118	128	8	36	47-136

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	%Rec LCS	QC LIMIT %REC
Phenol	ND	50	27	54	17-99
2-Clorophenol	ND	50	27	54	28-88
1,4-Dichlorobenzene	ND	50	27	54	33-89
n-Nitroso-di-n-propylamine	ND	50	31	62	9-130
1,2,4-Trichlorobenzene	ND	50	26	52	25-92
4-Cloro-3-methylphenol	ND	50	26	52	27-96
Acenaphthene	ND	50	30	60	31-101
4-Nitrophenol	ND	50	21	42	8-123
2,4-Dinitrotoluene	ND	50	37	74	27-139
Pentachlorophenol	ND	50	16	32	0-151
Pyre	ND	50	43	86	34-127

Method Blank = All ND

***MS/MSD or RPD is outside lilmits. However, LCS and MB conformed for all spike compounds.**

ASSOCIATED LABORATORIES

LCS REPORT FORM - METHOD 8260 / 624 / 524.2

QC Sample: LCS/LCSD - Soil Samples

Analysis Date: 01/12/04 4:20 PM

Applies to: LR 122545, 122546, 122547, 122548, 122549, 122550

Reporting Units = ug/Kg

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	LCS Spk. Dup	%Rec LCS	%Rec LCS D	RPD	QC Limits RPD	QC Limits %REC
1,1-Dichloroethene	ND	50	50.48	47.57	101	95	6	22	59-172
MTBE	ND	50	47.71	47.34	95	95	1	24	62-137
Benzene	ND	50	52.44	50.99	105	102	3	24	62-137
Trichloroethene	ND	50	54.60	55.57	109	111	2	21	66-142
Toluene	ND	50	55.25	56.74	111	113	3	21	59-139
Chlorobenzene	ND	50	53.64	55.81	107	112	4	21	60-133

Method Blank = All ND

SURROGATE (QC Limits : 70-135)

Compound	MB	LCS	LCSD
DBFM	97	99	98
1,2-DCA	102	92	88
Tol-d8	106	100	103
p-BFB	102	98	97

ASSOCIATED LABORATORIES
QA REPORT FORM

D[illegible]inative Method : EPA 8082 Preparative Method: EPA 3545

QC Sample: 122461-489206

Matrix: SOLID

Analysis Date: 1/15/04

Batch Date: 1/12/04 (pcb 011204s)

Applies to: LR 122460, LR 122461, LR 122545, LR 122546, LR 122547, LR 122548, LR 122549, LR 122550 and LR 122551

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULTS

REPORTING UNITS = mg/Kg

Test	Sample Result	Spike Added	Spike Recovered		% Rec		RPD	QC Limits	
			MS	MSD	MS	MSD		RPD	% Rec
Aroclor 1260	ND	0.500	0.494	0.515	99	103	4	35	50-125

ND = Not Detected

% Rec - MS & MSD = Percent Recovery from Matrix Spike & Matrix Spike Duplicate

RP[illegible] Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate recoveries

LAB CONTROL SPIKE RECOVERY / METHOD BLANK

REPORTING UNITS = mg/Kg

Test	Spike Added	Spike Recovered	% Rec LCS	QC Limit
Aroclor 1260	0.500	0.530	106	70-130

Method Blank = All ND

% Rec - LCS = Percent Recovery from Lab Control Spike

CHAIN OF CUSTODY RECORD

Sheet 1 of 1.

MEREDITH & ASSOCIATES, INC.

SCIENTIFIC and REGULATORY CONSULTANTS

9841 Airport Blvd., Suite 1010 Los Angeles, California 90045-5409
Phone (310) 670-9221 Fax: (310) 670-9512

id 45, 122546, 122547, 122548, 122549, 122550, 122551

CONTACT PERSON(S): LYNN EDLUND

CLIENT: L. MARMOL PROJECT NO.: 2003-123

SITE NAME: DICO OIL

SITE LOCATION: SIGNAL HILL

SAMPLING LOCATION: ROLL OFF BINS

SAMPLING INFORMATION:

ANALYSIS REQUESTED

TURNAROUND TIME: NORMAL / RUSH

COMMENTS (Precautions/Hazards/ Field Conditions)

SAMPLE ID#	LAB ID#	DATE	TIME	SAMPLE TYPE	# of CONTAINERS	PRESERVATION	OTHER	VOCs (5035/8260B)	SVOCs (8270C)	PCBs (8082)	METALS (6010/7000)								NOTES
RO8		1/8/04	1319	SOIL	7	ICE	✓	X	X	X	X								COMPOSITE 3-4 OZ JARS
RO-9 (LAB DUP)		1/8/04	1335	SOIL	11	ICE	✓	X	X	X	X								MAKE LAB DUP FROM COMPOSITE
RO-10		1/8/04	1345	SOIL	7	ICE	✓	X	X	X	X								
RO-11		1/8/04	1357	SOIL	7	ICE	✓	X	X	X	X								
RO-12		1/8/04	1406	SOIL	7	ICE	✓	X	X	X	X								
RO-13		1/8/04	1413	SOIL	7	ICE	✓	X	X	X	X								
RO-14		1/8/04	1425	DEBRIS	1	ICE	NO		X	X	X								

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
COLLECTED by	Roger McCracken	R. MCCRACKEN	M&A	1/8/04	AM PM
RELEASED by	Roger McCracken	R. MCCRACKEN	M&A	1/8/04	AM PM
RELEASED to	Tom Vinsonhaler	TOM VINSONHALER	ASSOCIATED LAB	1/8/04	AM 3:35 PM
RELEASED to					AM PM
RECEIVED by LABORATORY	[illegible]	[illegible]	Associated Lab	1/8	AM 5:30 PM

ASSOCIATED LABORATORIES
North Batavia - Orange, California 92868 - 714/771-6900 FAX 714/538-1209

CLIENT Meredith & Associates, Inc (10577)
ATTN: Roger McCracken
9841 Airport Blvd.
Suite 1010
Los Angeles, CA 90045-5409

LAB REQUEST 122546
REPORTED 01/20/2004
RECEIVED 01/08/2004

PROJECT #2003-123 Dico Oil

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.	Client Sample Identification
489496	RO-9
489497	RO-9 Lab Dup
489498	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. Bekare, Ph.D.
Vice President

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

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 489496 **Client Sample ID**: RO-9

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 13:35

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Antimony	ND	1	3.0	0.62	mg/Kg	01/13/04 KN
6010B	Arsenic	7.88	1	1.0	0.72	mg/Kg	01/13/04 KN
6010B	Barium	228	1	1.0	0.05	mg/Kg	01/13/04 KN
6010B	Beryllium	0.311 J	1	0.5	0.16	mg/Kg	01/13/04 KN
6010B	Cadmium	0.801	1	0.5	0.06	mg/Kg	01/13/04 KN
6010B	Chromium	17.7	1	1.0	0.14	mg/Kg	01/13/04 KN
6010B	Cobalt	6.02	1	0.5	0.06	mg/Kg	01/13/04 KN
6010B	Copper	24.1	1	1.0	0.10	mg/Kg	01/13/04 KN
6010B	Lead	145	1	0.5	0.16	mg/Kg	01/13/04 KN
1311/6010	Lead TCLP	0.019 J	1	0.05	0.002	mg/L	01/22/04 KN
6010/STLC	Lead, STLC	3.08	10	0.05	0.002	mg/L	01/22/04 KN
6010B	Molybdenum	2.05	1	1.0	0.38	mg/Kg	01/13/04 KN
6010B	Nickel	16.0	1	1.5	0.29	mg/Kg	01/13/04 KN
6010B	Selenium	ND	1	1.0	0.55	mg/Kg	01/13/04 KN
6010B	Silver	0.124 J	1	0.5	0.12	mg/Kg	01/13/04 KN
6010B	Thallium	ND	1	1.0	0.33	mg/Kg	01/13/04 KN
6010B	Vanadium	25.8	1	0.5	0.17	mg/Kg	01/13/04 KN
6010B	Zinc	131	1	5.0	0.07	mg/Kg	01/13/04 KN
7471A	Mercury	0.31	1	0.14	0.02	mg/Kg	01/13/04 MDJ
8270C	1,2,4-Trichlorobenzene	ND	5	1665.0	32.1	ug/Kg	01/12/04 DP
8270C	1,2-Dichlorobenzene	ND	5	1665.0	69.1	ug/Kg	01/12/04 DP
8270C	1,3-Dichlorobenzene	ND	5	1665.0	133.5	ug/Kg	01/12/04 DP
8270C	1,4-Dichlorobenzene	ND	5	1665.0	58.0	ug/Kg	01/12/04 DP
8270C	2,4,5-Trichlorophenol	ND	5	8325.0	33.6	ug/Kg	01/12/04 DP
8270C	2,4,6-Trichlorophenol	ND	5	8325.0	31.9	ug/Kg	01/12/04 DP
8270C	2,4-Dichlorophenol	ND	5	1665.0	35.3	ug/Kg	01/12/04 DP
8270C	2,4-Dimethylphenol	ND	5	1665.0	37.1	ug/Kg	01/12/04 DP
8270C	2,4-Dinitrophenol	ND	5	8325.0	60.5	ug/Kg	01/12/04 DP
8270C	2,4-Dinitrotoluene	ND	5	1665.0	58.4	ug/Kg	01/12/04 DP
8270C	2,6-Dinitrotoluene	ND	5	1665.0	50.4	ug/Kg	01/12/04 DP
8270C	2-Chloronaphthalene	ND	5	1665.0	18.2	ug/Kg	01/12/04 DP
8270C	2-Chlorophenol	ND	5	1665.0	230.8	ug/Kg	01/12/04 DP
8270C	2-Methylnaphthalene	ND	5	1665.0	31.6	ug/Kg	01/12/04 DP

EQ Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
NL ot detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489496 **Client Sample ID:** RO-9

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 13:35

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	2-Methylphenol	ND	5	1665.0	194.3	ug/Kg	01/12/04 DP
8270C	2-Nitroaniline	ND	5	8325.0	30.8	ug/Kg	01/12/04 DP
8270C	2-Nitrophenol	ND	5	1665.0	63.4	ug/Kg	01/12/04 DP
8270C	3,3-Dichlorobenzidine	ND	5	1665.0	52.3	ug/Kg	01/12/04 DP
8270C	3-Methylphenol	ND	5	1665.0	211.4	ug/Kg	01/12/04 DP
8270C	3-Nitroaniline	ND	5	8325.0	31.1	ug/Kg	01/12/04 DP
8270C	4,6-Dinitro-2-methylphenol	ND	5	8325.0	44.9	ug/Kg	01/12/04 DP
8270C	4-Bromophenyl-phenylether	ND	5	1665.0	29.6	ug/Kg	01/12/04 DP
8270C	4-Chloro-3-methylphenol	ND	5	1665.0	48.8	ug/Kg	01/12/04 DP
8270C	4-Chloroaniline	ND	5	1665.0	19.2	ug/Kg	01/12/04 DP
8270C	4-Chlorophenyl-phenylether	ND	5	1665.0	38.1	ug/Kg	01/12/04 DP
8270C	4-Methylphenol	ND	5	1665.0	211.4	ug/Kg	01/12/04 DP
8270C	4-Nitroaniline	ND	5	8325.0	134.9	ug/Kg	01/12/04 DP
8270C	4-Nitrophenol	ND	5	8325.0	84.8	ug/Kg	01/12/04 DP
8270C	Acenaphthene	ND	5	1665.0	17.4	ug/Kg	01/12/04 DP
8270C	Acenaphthylene	ND	5	1665.0	14.8	ug/Kg	01/12/04 DP
8270C	Anthracene	ND	5	1665.0	9.9	ug/Kg	01/12/04 DP
8270C	Benzidine	ND	5	1665.0	260	ug/Kg	01/12/04 DP
8270C	Benzo(a)anthracene	ND	5	1665.0	26.2	ug/Kg	01/12/04 DP
8270C	Benzo(a)pyrene	ND	5	1665.0	20.0	ug/Kg	01/12/04 DP
8270C	Benzo(b)fluoranthene	ND	5	1665.0	29.9	ug/Kg	01/12/04 DP
8270C	Benzo(g,h,i)perylene	ND	5	1665.0	13.9	ug/Kg	01/12/04 DP
8270C	Benzo(k)fluoranthene	ND	5	1665.0	23.7	ug/Kg	01/12/04 DP
8270C	Benzoic Acid	ND	5	1665.0	70.0	ug/Kg	01/12/04 DP
8270C	Benzyl alcohol	ND	5	1665.0	197.0	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroethoxy)methane	ND	5	1665.0	22.6	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroethyl)ether	ND	5	1665.0	291.5	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroisopropyl) ether	ND	5	1665.0	275.3	ug/Kg	01/12/04 DP
8270C	bis(2-Ethylhexyl)phthalate	1110 J	5	1665.0	36.1	ug/Kg	01/12/04 DP
8270C	Butylbenzylphthalate	ND	5	1665.0	25.9	ug/Kg	01/12/04 DP
8270C	Chrysene	ND	5	1665.0	38.0	ug/Kg	01/12/04 DP
8270C	Di-n-butylphthalate	ND	5	1665.0	30.7	ug/Kg	01/12/04 DP
8270C	Di-n-octylphthalate	ND	5	1665.0	66.3	ug/Kg	01/12/04 DP
8270C	Dibenz(a,h)anthracene	ND	5	1665.0	32.3	ug/Kg	01/12/04 DP
8270C	Dibenzofuran	ND	5	1665.0	16.4	ug/Kg	01/12/04 DP
8270C	Diethylphthalate	ND	5	1665.0	43.8	ug/Kg	01/12/04 DP
8270C	Dimethylphthalate	ND	5	1665.0	28.6	ug/Kg	01/12/04 DP
8270C	Fluoranthene	ND	5	1665.0	28.2	ug/Kg	01/12/04 DP
8270C	Fluorene	ND	5	1665.0	19.3	ug/Kg	01/12/04 DP

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489496 **Client Sample ID:** RO-9

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 13:35

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	Hexachlorobenzene	ND	5	1665.0	49.4	ug/Kg	01/12/04 DP
8270C	Hexachlorobutadiene	ND	5	1665.0	40.1	ug/Kg	01/12/04 DP
8270C	Hexachlorocyclopentadiene	ND	5	1665.0	48.3	ug/Kg	01/12/04 DP
8270C	Hexachloroethane	ND	5	1665.0	180.8	ug/Kg	01/12/04 DP
8270C	Indeno(1,2,3-c,d)pyrene	ND	5	1665.0	36.1	ug/Kg	01/12/04 DP
8270C	Isophorone	ND	5	1665.0	30.4	ug/Kg	01/12/04 DP
8270C	N-Nitroso-di-n-propylamine	ND	5	1665.0	221.8	ug/Kg	01/12/04 DP
8270C	N-Nitrosodiphenylamine	ND	5	1665.0	29.1	ug/Kg	01/12/04 DP
8270C	Naphthalene	ND	5	1665.0	15.6	ug/Kg	01/12/04 DP
8270C	Nitrobenzene	ND	5	1665.0	60.6	ug/Kg	01/12/04 DP
8270C	Pentachlorophenol	ND	5	8325.0	38.0	ug/Kg	01/12/04 DP
8270C	Phenanthrene	ND	5	1665.0	19.4	ug/Kg	01/12/04 DP
8270C	Phenol	ND	5	1665.0	229.8	ug/Kg	01/12/04 DP
8270C	Pyrene	ND	5	1665.0	28.2	ug/Kg	01/12/04 DP

Surrogates			Units	Control Limits
8270C	2,4,6-Tribromophenol (sur)	95	%	17 - 122
8270C	2-Fluorobiphenyl (sur)	86	%	30 - 115
8270C	2-Fluorophenol (sur)	77	%	25 - 121
8270C	Nitrobenzene-d5 (sur)	83	%	23 - 120
8270C	Phenol-d5 (sur)	94	%	24 - 113
8270C	Terphenyl-d14 (sur)	134	%	18 - 137

8260B	1,1,1,2-Tetrachloroethane	ND	1	5	2.19	ug/Kg	01/12/04 AM
8260B	1,1,1-Trichloroethane	ND	1	5	0.47	ug/Kg	01/12/04 AM
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.50	ug/Kg	01/12/04 AM
8260B	1,1,2-Trichloroethane	ND	1	5	0.57	ug/Kg	01/12/04 AM
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	0.10	ug/Kg	01/12/04 AM
8260B	1,1-Dichloroethane	ND	1	5	0.74	ug/Kg	01/12/04 AM
8260B	1,1-Dichloroethene	ND	1	5	0.43	ug/Kg	01/12/04 AM
8260B	1,1-Dichloropropene	ND	1	5	1.30	ug/Kg	01/12/04 AM
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.54	ug/Kg	01/12/04 AM
8260B	1,2,3-Trichloropropane	ND	1	5	0.65	ug/Kg	01/12/04 AM
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/Kg	01/12/04 AM
8260B	1,2,4-Trimethylbenzene	ND	1	5	0.60	ug/Kg	01/12/04 AM
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	1.92	ug/Kg	01/12/04 AM
8260B	1,2-Dibromoethane	ND	1	5	0.43	ug/Kg	01/12/04 AM
8260B	1,2-Dichlorobenzene	ND	1	5	0.45	ug/Kg	01/12/04 AM

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489496 **Client Sample ID:** RO-9

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 13:35

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	1,2-Dichloroethane	ND	1	5	0.59	ug/Kg	01/12/04 AM
8260B	1,2-Dichloropropane	ND	1	5	0.58	ug/Kg	01/12/04 AM
8260B	1,3,5-Trimethylbenzene	ND	1	5	0.55	ug/Kg	01/12/04 AM
8260B	1,3-Dichlorobenzene	ND	1	5	0.44	ug/Kg	01/12/04 AM
8260B	1,3-Dichloropropane	ND	1	5	0.51	ug/Kg	01/12/04 AM
8260B	1,4-Dichlorobenzene	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	1,4-Dioxane	ND	1	200	200	ug/Kg	01/12/04 AM
8260B	1-Chlorohexane	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	2,2-Dichloropropane	ND	1	5	0.47	ug/Kg	01/12/04 AM
8260B	2-Butanone (MEK)	ND	1	100	0.98	ug/Kg	01/12/04 AM
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	2-Chlorotoluene	ND	1	5	0.92	ug/Kg	01/12/04 AM
8260B	2-Hexanone	ND	1	5	4.7	ug/Kg	01/12/04 AM
8260B	4-Chlorotoluene	ND	1	5	0.52	ug/Kg	01/12/04 AM
8260B	4-Methyl -2- Pentanone	ND	1	5	0.49	ug/Kg	01/12/04 AM
8260B	Acetone	ND	1	50	3.81	ug/Kg	01/12/04 AM
8260B	Acetonitrile	ND	1	5	0.7	ug/Kg	01/12/04 AM
8260B	Acrolein	ND	1	200	172	ug/Kg	01/12/04 AM
8260B	Acrylonitrile	ND	1	5	1.3	ug/Kg	01/12/04 AM
8260B	Allyl chloride	ND	1	5	0.4	ug/Kg	01/12/04 AM
8260B	Benzene	ND	1	5	0.39	ug/Kg	01/12/04 AM
8260B	Benzyl chloride	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	Bromobenzene	ND	1	5	0.65	ug/Kg	01/12/04 AM
8260B	Bromochloromethane	ND	1	5	0.36	ug/Kg	01/12/04 AM
8260B	Bromodichloromethane	ND	1	5	0.48	ug/Kg	01/12/04 AM
8260B	Bromoform	ND	1	5	0.53	ug/Kg	01/12/04 AM
8260B	Bromomethane	ND	1	5	2.07	ug/Kg	01/12/04 AM
8260B	Carbon Disulfide	ND	1	5	0.8	ug/Kg	01/12/04 AM
8260B	Carbon tetrachloride	ND	1	5	0.40	ug/Kg	01/12/04 AM
8260B	Chlorobenzene	ND	1	5	0.42	ug/Kg	01/12/04 AM
8260B	Chloroethane	ND	1	5	1.1	ug/Kg	01/12/04 AM
8260B	Chloroform	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	Chloromethane	ND	1	5	0.25	ug/Kg	01/12/04 AM
8260B	cis-1,2-Dichloroethene	ND	1	5	0.79	ug/Kg	01/12/04 AM
8260B	cis-1,3-Dichloropropene	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	cis-1,4-Dichloro-2-butene	ND	1	5	0.59	ug/Kg	01/12/04 AM
8260B	Dibromochloromethane	ND	1	5	0.44	ug/Kg	01/12/04 AM
8260B	Dibromomethane	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	Dichlorodifluoromethane	ND	1	5	0.16	ug/Kg	01/12/04 AM

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489496 **Client Sample ID:** RO-9

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 13:35

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Ethyl benzene	ND	1	5	0.41	ug/Kg	01/12/04 AM
8260B	Ethyl methacrylate	ND	1	5	1.8	ug/Kg	01/12/04 AM
8260B	Hexachlorobutadiene	ND	1	5	0.29	ug/Kg	01/12/04 AM
8260B	Iodomethane	ND	1	5	0.6	ug/Kg	01/12/04 AM
8260B	Isopropylbenzene (Cumene)	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	m and p-Xylene	ND	1	5	0.67	ug/Kg	01/12/04 AM
8260B	Methacrylonitrile	ND	1	5	2.70	ug/Kg	01/12/04 AM
8260B	Methyl methacrylate	ND	1	5	0.21	ug/Kg	01/12/04 AM
8260B	Methyl-tert-butylether (MTBE)	ND	1	5	0.51	ug/Kg	01/12/04 AM
8260B	Methylene chloride	ND	1	5	0.91	ug/Kg	01/12/04 AM
8260B	n-Butylbenzene	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	n-Propylbenzene	ND	1	5	0.32	ug/Kg	01/12/04 AM
8260B	Naphthalene	ND	1	5	0.60	ug/Kg	01/12/04 AM
8260B	o-Xylene	ND	1	5	0.35	ug/Kg	01/12/04 AM
8260B	p-Isopropyltoluene	ND	1	5	0.32	ug/Kg	01/12/04 AM
8260B	Pentachloroethane	ND	1	5	0.6	ug/Kg	01/12/04 AM
8260B	Propionitrile	ND	1	5	5	ug/Kg	01/12/04 AM
8260B	sec-Butylbenzene	ND	1	5	0.31	ug/Kg	01/12/04 AM
8260B	Styrene	ND	1	5	0.37	ug/Kg	01/12/04 AM
8260B	tert-Butylbenzene	ND	1	5	0.41	ug/Kg	01/12/04 AM
8260B	Tetrachloroethene	ND	1	5	0.49	ug/Kg	01/12/04 AM
8260B	Toluene	ND	1	5	0.42	ug/Kg	01/12/04 AM
8260B	trans-1,2-Dichloroethene	ND	1	5	0.48	ug/Kg	01/12/04 AM
8260B	trans-1,3-Dichloropropene	ND	1	5	0.44	ug/Kg	01/12/04 AM
8260B	trans-1,4-Dichloro-2-butene	ND	1	5	2.35	ug/Kg	01/12/04 AM
8260B	Trichloroethene	ND	1	5	0.43	ug/Kg	01/12/04 AM
8260B	Trichlorofluoromethane	ND	1	5	0.40	ug/Kg	01/12/04 AM
8260B	Vinyl acetate	ND	1	50	10.2	ug/Kg	01/12/04 AM
8260B	Vinyl chloride	ND	1	5	0.47	ug/Kg	01/12/04 AM
8260B	Xylenes, total	ND	1	5	0.8	ug/Kg	01/12/04 AM

Surrogates			Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	97	%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	113	%	70 - 135
8260B	Surr3 - Toluene-d8	102	%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	106	%	70 - 135

8082	PCB-1016	ND	25	0.75	0.003	mg/Kg	01/16/04 RB

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489496 **Client Sample ID:** RO-9

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 13:35

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1221	ND	25	1.5	0.006	mg/Kg	01/16/04 RB
8082	PCB-1232	ND	25	1.25	0.004	mg/Kg	01/16/04 RB
8082	PCB-1242	ND	25	1.25	0.002	mg/Kg	01/16/04 RB
8082	PCB-1248	ND	25	2.0	0.008	mg/Kg	01/16/04 RB
8082	PCB-1254	ND	25	0.75	0.001	mg/Kg	01/16/04 RB
8082	PCB-1260	9.3	25	0.75	0.002	mg/Kg	01/16/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	92	%	50 - 135

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489497 **Client Sample ID:** RO-9 Lab Dup

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 13:35

Method	Analyte	Result		DF	EQL	MDL	Units	Date/Analyst	
6010B	Antimony	ND		1	3.0	0.62	mg/Kg	01/13/04	KN
6010B	Arsenic	6.43		1	1.0	0.72	mg/Kg	01/13/04	KN
6010B	Barium	139		1	1.0	0.05	mg/Kg	01/13/04	KN
6010B	Beryllium	0.447	J	1	0.5	0.16	mg/Kg	01/13/04	KN
6010B	Cadmium	0.844		1	0.5	0.06	mg/Kg	01/13/04	KN
6010B	Chromium	14.5		1	1.0	0.14	mg/Kg	01/13/04	KN
6010B	Cobalt	6.85		1	0.5	0.06	mg/Kg	01/13/04	KN
6010B	Copper	23.9		1	1.0	0.10	mg/Kg	01/13/04	KN
6010B	Lead	93.5		1	0.5	0.16	mg/Kg	01/13/04	KN
6010B	Molybdenum	0.904	J	1	1.0	0.38	mg/Kg	01/13/04	KN
6010B	Nickel	13.1		1	1.5	0.29	mg/Kg	01/13/04	KN
6010B	Selenium	ND		1	1.0	0.55	mg/Kg	01/13/04	KN
6010B	Silver	0.257	J	1	0.5	0.12	mg/Kg	01/13/04	KN
6010B	Thallium	ND		1	1.0	0.33	mg/Kg	01/13/04	KN
6010B	Vanadium	23.8		1	0.5	0.17	mg/Kg	01/13/04	KN
6010B	Zinc	118		1	5.0	0.07	mg/Kg	01/13/04	KN
7471A	Mercury	0.32		1	0.14	0.02	mg/Kg	01/13/04	MDJ
8270C	1,2,4-Trichlorobenzene	ND		5	1665.0	32.1	ug/Kg	01/12/04	DP
8270C	1,2-Dichlorobenzene	ND		5	1665.0	69.1	ug/Kg	01/12/04	DP
8270C	1,3-Dichlorobenzene	ND		5	1665.0	133.5	ug/Kg	01/12/04	DP
8270C	1,4-Dichlorobenzene	ND		5	1665.0	58.0	ug/Kg	01/12/04	DP
8270C	2,4,5-Trichlorophenol	ND		5	8325.0	33.6	ug/Kg	01/12/04	DP
8270C	2,4,6-Trichlorophenol	ND		5	8325.0	31.9	ug/Kg	01/12/04	DP
8270C	2,4-Dichlorophenol	ND		5	1665.0	35.3	ug/Kg	01/12/04	DP
8270C	2,4-Dimethylphenol	ND		5	1665.0	37.1	ug/Kg	01/12/04	DP
8270C	2,4-Dinitrophenol	ND		5	8325.0	60.5	ug/Kg	01/12/04	DP
8270C	2,4-Dinitrotoluene	ND		5	1665.0	58.4	ug/Kg	01/12/04	DP
8270C	2,6-Dinitrotoluene	ND		5	1665.0	50.4	ug/Kg	01/12/04	DP
8270C	2-Chloronaphthalene	ND		5	1665.0	18.2	ug/Kg	01/12/04	DP
8270C	2-Chlorophenol	ND		5	1665.0	230.8	ug/Kg	01/12/04	DP
8270C	2-Methylnaphthalene	ND		5	1665.0	31.6	ug/Kg	01/12/04	DP
8270C	2-Methylphenol	ND		5	1665.0	194.3	ug/Kg	01/12/04	DP
8270C	2-Nitroaniline	ND		5	8325.0	30.8	ug/Kg	01/12/04	DP

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489497 **Client Sample ID**: RO-9 Lab Dup

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 13:35

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	2-Nitrophenol	ND	5	1665.0	63.4	ug/Kg	01/12/04 DP
8270C	3,3-Dichlorobenzidine	ND	5	1665.0	52.3	ug/Kg	01/12/04 DP
8270C	3-Methylphenol	ND	5	1665.0	211.4	ug/Kg	01/12/04 DP
8270C	3-Nitroaniline	ND	5	8325.0	31.1	ug/Kg	01/12/04 DP
8270C	4,6-Dinitro-2-methylphenol	ND	5	8325.0	44.9	ug/Kg	01/12/04 DP
8270C	4-Bromophenyl-phenylether	ND	5	1665.0	29.6	ug/Kg	01/12/04 DP
8270C	4-Chloro-3-methylphenol	ND	5	1665.0	48.8	ug/Kg	01/12/04 DP
8270C	4-Chloroaniline	ND	5	1665.0	19.2	ug/Kg	01/12/04 DP
8270C	4-Chlorophenyl-phenylether	ND	5	1665.0	38.1	ug/Kg	01/12/04 DP
8270C	4-Methylphenol	ND	5	1665.0	211.4	ug/Kg	01/12/04 DP
8270C	4-Nitroaniline	ND	5	8325.0	134.9	ug/Kg	01/12/04 DP
8270C	4-Nitrophenol	ND	5	8325.0	84.8	ug/Kg	01/12/04 DP
8270C	Acenaphthene	ND	5	1665.0	17.4	ug/Kg	01/12/04 DP
8270C	Acenaphthylene	ND	5	1665.0	14.8	ug/Kg	01/12/04 DP
8270C	Anthracene	ND	5	1665.0	9.9	ug/Kg	01/12/04 DP
8270C	Benzidine	ND	5	1665.0	260	ug/Kg	01/12/04 DP
8270C	Benzo(a)anthracene	ND	5	1665.0	26.2	ug/Kg	01/12/04 DP
8270C	Benzo(a)pyrene	ND	5	1665.0	20.0	ug/Kg	01/12/04 DP
8270C	Benzo(b)fluoranthene	ND	5	1665.0	29.9	ug/Kg	01/12/04 DP
8270C	Benzo(g,h,i)perylene	ND	5	1665.0	13.9	ug/Kg	01/12/04 DP
8270C	Benzo(k)fluoranthene	ND	5	1665.0	23.7	ug/Kg	01/12/04 DP
8270C	Benzoic Acid	ND	5	1665.0	70.0	ug/Kg	01/12/04 DP
8270C	Benzyl alcohol	ND	5	1665.0	197.0	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroethoxy)methane	ND	5	1665.0	22.6	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroethyl)ether	ND	5	1665.0	291.5	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroisopropyl) ether	ND	5	1665.0	275.3	ug/Kg	01/12/04 DP
8270C	bis(2-Ethylhexyl)phthalate	1070 J	5	1665.0	36.1	ug/Kg	01/12/04 DP
8270C	Butylbenzylphthalate	ND	5	1665.0	25.9	ug/Kg	01/12/04 DP
8270C	Chrysene	ND	5	1665.0	38.0	ug/Kg	01/12/04 DP
8270C	Di-n-butylphthalate	ND	5	1665.0	30.7	ug/Kg	01/12/04 DP
8270C	Di-n-octylphthalate	ND	5	1665.0	66.3	ug/Kg	01/12/04 DP
8270C	Dibenz(a,h)anthracene	ND	5	1665.0	32.3	ug/Kg	01/12/04 DP
8270C	Dibenzofuran	ND	5	1665.0	16.4	ug/Kg	01/12/04 DP
8270C	Diethylphthalate	ND	5	1665.0	43.8	ug/Kg	01/12/04 DP
8270C	Dimethylphthalate	ND	5	1665.0	28.6	ug/Kg	01/12/04 DP
8270C	Fluoranthene	ND	5	1665.0	28.2	ug/Kg	01/12/04 DP
8270C	Fluorene	ND	5	1665.0	19.3	ug/Kg	01/12/04 DP
8270C	Hexachlorobenzene	ND	5	1665.0	49.4	ug/Kg	01/12/04 DP
8270C	Hexachlorobutadiene	ND	5	1665.0	40.1	ug/Kg	01/12/04 DP

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489497 **Client Sample ID:** RO-9 Lab Dup

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 13:35

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	Hexachlorocyclopentadiene	ND	5	1665.0	48.3	ug/Kg	01/12/04 DP
8270C	Hexachloroethane	ND	5	1665.0	180.8	ug/Kg	01/12/04 DP
8270C	Indeno(1,2,3-c,d)pyrene	ND	5	1665.0	36.1	ug/Kg	01/12/04 DP
8270C	Isophorone	ND	5	1665.0	30.4	ug/Kg	01/12/04 DP
8270C	N-Nitroso-di-n-propylamine	ND	5	1665.0	221.8	ug/Kg	01/12/04 DP
8270C	N-Nitrosodiphenylamine	ND	5	1665.0	29.1	ug/Kg	01/12/04 DP
8270C	Naphthalene	ND	5	1665.0	15.6	ug/Kg	01/12/04 DP
8270C	Nitrobenzene	ND	5	1665.0	60.6	ug/Kg	01/12/04 DP
8270C	Pentachlorophenol	ND	5	8325.0	38.0	ug/Kg	01/12/04 DP
8270C	Phenanthrene	ND	5	1665.0	19.4	ug/Kg	01/12/04 DP
8270C	Phenol	ND	5	1665.0	229.8	ug/Kg	01/12/04 DP
8270C	Pyrene	ND	5	1665.0	28.2	ug/Kg	01/12/04 DP

Surrogates			Units	Control Limits
8270C	2,4,6-Tribromophenol (sur)	108	%	17 - 122
8270C	2-Fluorobiphenyl (sur)	114	%	30 - 115
8270C	2-Fluorophenol (sur)	81	%	25 - 121
8270C	Nitrobenzene-d5 (sur)	79	%	23 - 120
8270C	Phenol-d5 (sur)	93	%	24 - 113
8270C	Terphenyl-d14 (sur)	134	%	18 - 137

8260B	1,1,1,2-Tetrachloroethane	ND	1	5	2.19	ug/Kg	01/12/04 AM
8260B	1,1,1-Trichloroethane	ND	1	5	0.47	ug/Kg	01/12/04 AM
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.50	ug/Kg	01/12/04 AM
8260B	1,1,2-Trichloroethane	ND	1	5	0.57	ug/Kg	01/12/04 AM
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	0.10	ug/Kg	01/12/04 AM
8260B	1,1-Dichloroethane	ND	1	5	0.74	ug/Kg	01/12/04 AM
8260B	1,1-Dichloroethene	ND	1	5	0.43	ug/Kg	01/12/04 AM
8260B	1,1-Dichloropropene	ND	1	5	1.30	ug/Kg	01/12/04 AM
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.54	ug/Kg	01/12/04 AM
8260B	1,2,3-Trichloropropane	ND	1	5	0.65	ug/Kg	01/12/04 AM
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/Kg	01/12/04 AM
8260B	1,2,4-Trimethylbenzene	ND	1	5	0.60	ug/Kg	01/12/04 AM
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	1.92	ug/Kg	01/12/04 AM
8260B	1,2-Dibromoethane	ND	1	5	0.43	ug/Kg	01/12/04 AM
8260B	1,2-Dichlorobenzene	ND	1	5	0.45	ug/Kg	01/12/04 AM
8260B	1,2-Dichloroethane	ND	1	5	0.59	ug/Kg	01/12/04 AM
8260B	1,2-Dichloropropane	ND	1	5	0.58	ug/Kg	01/12/04 AM

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489497 **Client Sample ID**: RO-9 Lab Dup

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 13:35

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	1,3,5-Trimethylbenzene	ND	1	5	0.55	ug/Kg	01/12/04 AM
8260B	1,3-Dichlorobenzene	ND	1	5	0.44	ug/Kg	01/12/04 AM
8260B	1,3-Dichloropropane	ND	1	5	0.51	ug/Kg	01/12/04 AM
8260B	1,4-Dichlorobenzene	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	1,4-Dioxane	ND	1	200	200	ug/Kg	01/12/04 AM
8260B	1-Chlorohexane	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	2,2-Dichloropropane	ND	1	5	0.47	ug/Kg	01/12/04 AM
8260B	2-Butanone (MEK)	ND	1	100	0.98	ug/Kg	01/12/04 AM
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	2-Chlorotoluene	ND	1	5	0.92	ug/Kg	01/12/04 AM
8260B	2-Hexanone	ND	1	5	4.7	ug/Kg	01/12/04 AM
8260B	4-Chlorotoluene	ND	1	5	0.52	ug/Kg	01/12/04 AM
8260B	4-Methyl -2- Pentanone	ND	1	5	0.49	ug/Kg	01/12/04 AM
8260B	Acetone	ND	1	50	3.81	ug/Kg	01/12/04 AM
8260B	Acetonitrile	ND	1	5	0.7	ug/Kg	01/12/04 AM
8260B	Acrolein	ND	1	200	172	ug/Kg	01/12/04 AM
8260B	Acrylonitrile	ND	1	5	1.3	ug/Kg	01/12/04 AM
8260B	Allyl chloride	ND	1	5	0.4	ug/Kg	01/12/04 AM
8260B	Benzene	ND	1	5	0.39	ug/Kg	01/12/04 AM
8260B	Benzyl chloride	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	Bromobenzene	ND	1	5	0.65	ug/Kg	01/12/04 AM
8260B	Bromochloromethane	ND	1	5	0.36	ug/Kg	01/12/04 AM
8260B	Bromodichloromethane	ND	1	5	0.48	ug/Kg	01/12/04 AM
8260B	Bromoform	ND	1	5	0.53	ug/Kg	01/12/04 AM
8260B	Bromomethane	ND	1	5	2.07	ug/Kg	01/12/04 AM
8260B	Carbon Disulfide	ND	1	5	0.8	ug/Kg	01/12/04 AM
8260B	Carbon tetrachloride	ND	1	5	0.40	ug/Kg	01/12/04 AM
8260B	Chlorobenzene	ND	1	5	0.42	ug/Kg	01/12/04 AM
8260B	Chloroethane	ND	1	5	1.1	ug/Kg	01/12/04 AM
8260B	Chloroform	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	Chloromethane	ND	1	5	0.25	ug/Kg	01/12/04 AM
8260B	cis-1,2-Dichloroethene	ND	1	5	0.79	ug/Kg	01/12/04 AM
8260B	cis-1,3-Dichloropropene	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	cis-1,4-Dichloro-2-butene	ND	1	5	0.59	ug/Kg	01/12/04 AM
8260B	Dibromochloromethane	ND	1	5	0.44	ug/Kg	01/12/04 AM
8260B	Dibromomethane	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	Dichlorodifluoromethane	ND	1	5	0.16	ug/Kg	01/12/04 AM
8260B	Ethyl benzene	ND	1	5	0.41	ug/Kg	01/12/04 AM
8260B	Ethyl methacrylate	ND	1	5	1.8	ug/Kg	01/12/04 AM

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489497 **Client Sample ID**: RO-9 Lab Dup

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 13:35

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Hexachlorobutadiene	ND	1	5	0.29	ug/Kg	01/12/04 AM
8260B	Iodomethane	ND	1	5	0.6	ug/Kg	01/12/04 AM
8260B	Isopropylbenzene (Cumene)	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	m and p-Xylene	ND	1	5	0.67	ug/Kg	01/12/04 AM
8260B	Methacrylonitrile	ND	1	5	2.70	ug/Kg	01/12/04 AM
8260B	Methyl methacrylate	ND	1	5	0.21	ug/Kg	01/12/04 AM
8260B	Methyl-tert-butylether (MTBE)	ND	1	5	0.51	ug/Kg	01/12/04 AM
8260B	Methylene chloride	ND	1	5	0.91	ug/Kg	01/12/04 AM
8260B	n-Butylbenzene	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	n-Propylbenzene	ND	1	5	0.32	ug/Kg	01/12/04 AM
8260B	Naphthalene	ND	1	5	0.60	ug/Kg	01/12/04 AM
8260B	o-Xylene	ND	1	5	0.35	ug/Kg	01/12/04 AM
8260B	p-Isopropyltoluene	ND	1	5	0.32	ug/Kg	01/12/04 AM
8260B	Pentachloroethane	ND	1	5	0.6	ug/Kg	01/12/04 AM
8260B	Propionitrile	ND	1	5	5	ug/Kg	01/12/04 AM
8260B	sec-Butylbenzene	ND	1	5	0.31	ug/Kg	01/12/04 AM
8260B	Styrene	ND	1	5	0.37	ug/Kg	01/12/04 AM
8260B	tert-Butylbenzene	ND	1	5	0.41	ug/Kg	01/12/04 AM
8260B	Tetrachloroethene	ND	1	5	0.49	ug/Kg	01/12/04 AM
8260B	Toluene	ND	1	5	0.42	ug/Kg	01/12/04 AM
8260B	trans-1,2-Dichloroethene	ND	1	5	0.48	ug/Kg	01/12/04 AM
8260B	trans-1,3-Dichloropropene	ND	1	5	0.44	ug/Kg	01/12/04 AM
8260B	trans-1,4-Dichloro-2-butene	ND	1	5	2.35	ug/Kg	01/12/04 AM
8260B	Trichloroethene	ND	1	5	0.43	ug/Kg	01/12/04 AM
8260B	Trichlorofluoromethane	ND	1	5	0.40	ug/Kg	01/12/04 AM
8260B	Vinyl acetate	ND	1	50	10.2	ug/Kg	01/12/04 AM
8260B	Vinyl chloride	ND	1	5	0.47	ug/Kg	01/12/04 AM
8260B	Xylenes, total	ND	1	5	0.8	ug/Kg	01/12/04 AM

Surrogates			Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	96	%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	112	%	70 - 135
8260B	Surr3 - Toluene-d8	105	%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	101	%	70 - 135

8082	PCB-1016	ND	25	0.75	0.003	mg/Kg	01/16/04 RB
8082	PCB-1221	ND	25	1.5	0.006	mg/Kg	01/16/04 RB
8082	PCB-1232	ND	25	1.25	0.004	mg/Kg	01/16/04 RB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489497 **Client Sample ID**: RO-9 Lab Dup

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 13:35

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1242	ND	25	1.25	0.002	mg/Kg	01/16/04 RB
8082	PCB-1248	ND	25	2.0	0.008	mg/Kg	01/16/04 RB
8082	PCB-1254	ND	25	0.75	0.001	mg/Kg	01/16/04 RB
8082	PCB-1260	9.2	25	0.75	0.002	mg/Kg	01/16/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	88	%	50 - 135

EQ[illegible] [illegible]stimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND [illegible]ot detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489498 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst	
6010B	Antimony	ND	1	3.00	0.62	mg/Kg	01/13/04	KN
6010B	Arsenic	ND	1	1.00	0.72	mg/Kg	01/13/04	KN
6010B	Barium	ND	1	1.00	0.05	mg/Kg	01/13/04	KN
6010B	Beryllium	ND	1	0.50	0.16	mg/Kg	01/13/04	KN
6010B	Cadmium	ND	1	0.50	0.06	mg/Kg	01/13/04	KN
6010B	Chromium	ND	1	1.00	0.14	mg/Kg	01/13/04	KN
6010B	Cobalt	ND	1	0.50	0.06	mg/Kg	01/13/04	KN
6010B	Copper	ND	1	1.00	0.10	mg/Kg	01/13/04	KN
6010B	Lead	ND	1	0.50	0.16	mg/Kg	01/13/04	KN
1311/6010	Lead TCLP	ND	1	0.05	0.002	mg/L	01/22/04	KN
6010/STLC	Lead, STLC	ND	1	0.005	0.002	mg/L	01/22/04	KN
6010B	Molybdenum	ND	1	1.00	0.38	mg/Kg	01/13/04	KN
6010B	Nickel	ND	1	1.50	0.29	mg/Kg	01/13/04	KN
6010B	Selenium	ND	1	1.00	0.55	mg/Kg	01/13/04	KN
6010B	Silver	ND	1	0.50	0.12	mg/Kg	01/13/04	KN
6010B	Thallium	ND	1	1.00	0.33	mg/Kg	01/13/04	KN
6010B	Vanadium	ND	1	0.50	0.17	mg/Kg	01/13/04	KN
6010B	Zinc	ND	1	5.00	0.07	mg/Kg	01/13/04	KN
7471A	Mercury	ND	1	0.14	0.02	mg/Kg	01/13/04	MDJ
8270C	1,2,4-Trichlorobenzene	ND	1	333	32.1	ug/Kg	01/12/04	DP
8270C	1,2-Dichlorobenzene	ND	1	333	69.1	ug/Kg	01/12/04	DP
8270C	1,3-Dichlorobenzene	ND	1	333	133.5	ug/Kg	01/12/04	DP
8270C	1,4-Dichlorobenzene	ND	1	333	58.0	ug/Kg	01/12/04	DP
8270C	2,4,5-Trichlorophenol	ND	1	1665	33.6	ug/Kg	01/12/04	DP
8270C	2,4,6-Trichlorophenol	ND	1	1665	31.9	ug/Kg	01/12/04	DP
8270C	2,4-Dichlorophenol	ND	1	333	35.3	ug/Kg	01/12/04	DP
8270C	2,4-Dimethylphenol	ND	1	333	37.1	ug/Kg	01/12/04	DP
8270C	2,4-Dinitrophenol	ND	1	1665	60.5	ug/Kg	01/12/04	DP
8270C	2,4-Dinitrotoluene	ND	1	333	58.4	ug/Kg	01/12/04	DP
8270C	2,6-Dinitrotoluene	ND	1	333	50.4	ug/Kg	01/12/04	DP
8270C	2-Chloronaphthalene	ND	1	333	18.2	ug/Kg	01/12/04	DP
8270C	2-Chlorophenol	ND	1	333	230.8	ug/Kg	01/12/04	DP
8270C	2-Methylnaphthalene	ND	1	333	31.6	ug/Kg	01/12/04	DP

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489498 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	2-Methylphenol	ND	1	333	194.3	ug/Kg	01/12/04 DP
8270C	2-Nitroaniline	ND	1	1665	30.8	ug/Kg	01/12/04 DP
8270C	2-Nitrophenol	ND	1	333	63.4	ug/Kg	01/12/04 DP
8270C	3,3-Dichlorobenzidine	ND	1	333	52.3	ug/Kg	01/12/04 DP
8270C	3-Methylphenol	ND	1	333	211.4	ug/Kg	01/12/04 DP
8270C	3-Nitroaniline	ND	1	1665	31.1	ug/Kg	01/12/04 DP
8270C	4,6-Dinitro-2-methylphenol	ND	1	1665	44.9	ug/Kg	01/12/04 DP
8270C	4-Bromophenyl-phenylether	ND	1	333	29.6	ug/Kg	01/12/04 DP
8270C	4-Chloro-3-methylphenol	ND	1	333	48.8	ug/Kg	01/12/04 DP
8270C	4-Chloroaniline	ND	1	333	19.2	ug/Kg	01/12/04 DP
8270C	4-Chlorophenyl-phenylether	ND	1	333	38.1	ug/Kg	01/12/04 DP
8270C	4-Methylphenol	ND	1	333	211.4	ug/Kg	01/12/04 DP
8270C	4-Nitroaniline	ND	1	1665	134.9	ug/Kg	01/12/04 DP
8270C	4-Nitrophenol	ND	1	1665	84.8	ug/Kg	01/12/04 DP
8270C	Acenaphthene	ND	1	333	17.4	ug/Kg	01/12/04 DP
8270C	Acenaphthylene	ND	1	333	14.8	ug/Kg	01/12/04 DP
8270C	Anthracene	ND	1	333	9.9	ug/Kg	01/12/04 DP
8270C	Benzidine	ND	1	333	260	ug/Kg	01/12/04 DP
8270C	Benzo(a)anthracene	ND	1	333	26.2	ug/Kg	01/12/04 DP
8270C	Benzo(a)pyrene	ND	1	333	20.0	ug/Kg	01/12/04 DP
8270C	Benzo(b)fluoranthene	ND	1	333	29.9	ug/Kg	01/12/04 DP
8270C	Benzo(g,h,i)perylene	ND	1	333	13.9	ug/Kg	01/12/04 DP
8270C	Benzo(k)fluoranthene	ND	1	333	23.7	ug/Kg	01/12/04 DP
8270C	Benzoic Acid	ND	1	333	70.0	ug/Kg	01/12/04 DP
8270C	Benzyl alcohol	ND	1	333	197.0	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroethoxy)methane	ND	1	333	22.6	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroethyl)ether	ND	1	333	291.5	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroisopropyl) ether	ND	1	333	275.3	ug/Kg	01/12/04 DP
8270C	bis(2-Ethylhexyl)phthalate	ND	1	333	36.1	ug/Kg	01/12/04 DP
8270C	Butylbenzylphthalate	ND	1	333	25.9	ug/Kg	01/12/04 DP
8270C	Chrysene	ND	1	333	38.0	ug/Kg	01/12/04 DP
8270C	Di-n-butylphthalate	ND	1	333	30.7	ug/Kg	01/12/04 DP
8270C	Di-n-octylphthalate	ND	1	333	66.3	ug/Kg	01/12/04 DP
8270C	Dibenz(a,h)anthracene	ND	1	333	32.3	ug/Kg	01/12/04 DP
8270C	Dibenzofuran	ND	1	333	16.4	ug/Kg	01/12/04 DP
8270C	Diethylphthalate	ND	1	333	43.8	ug/Kg	01/12/04 DP
8270C	Dimethylphthalate	ND	1	333	28.6	ug/Kg	01/12/04 DP
8270C	Fluoranthene	ND	1	333	28.2	ug/Kg	01/12/04 DP
8270C	Fluorene	ND	1	333	19.3	ug/Kg	01/12/04 DP

EQ Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489498 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	Hexachlorobenzene	ND	1	333	49.4	ug/Kg	01/12/04 DP
8270C	Hexachlorobutadiene	ND	1	333	40.1	ug/Kg	01/12/04 DP
8270C	Hexachlorocyclopentadiene	ND	1	333	48.3	ug/Kg	01/12/04 DP
8270C	Hexachloroethane	ND	1	333	180.8	ug/Kg	01/12/04 DP
8270C	Indeno(1,2,3-c,d)pyrene	ND	1	333	36.1	ug/Kg	01/12/04 DP
8270C	Isophorone	ND	1	333	30.4	ug/Kg	01/12/04 DP
8270C	N-Nitroso-di-n-propylamine	ND	1	333	221.8	ug/Kg	01/12/04 DP
8270C	N-Nitrosodiphenylamine	ND	1	333	29.1	ug/Kg	01/12/04 DP
8270C	Naphthalene	ND	1	333	15.6	ug/Kg	01/12/04 DP
8270C	Nitrobenzene	ND	1	333	60.6	ug/Kg	01/12/04 DP
8270C	Pentachlorophenol	ND	1	1665	38.0	ug/Kg	01/12/04 DP
8270C	Phenanthrene	ND	1	333	19.4	ug/Kg	01/12/04 DP
8270C	Phenol	ND	1	333	229.8	ug/Kg	01/12/04 DP
8270C	Pyrene	ND	1	333	28.2	ug/Kg	01/12/04 DP

Surrogates			Units	Control Limits
8270C	2,4,6-Tribromophenol (sur)	37	%	17 - 122
8270C	2-Fluorobiphenyl (sur)	47	%	30 - 115
8270C	2-Fluorophenol (sur)	44	%	25 - 121
8270C	Nitrobenzene-d5 (sur)	43	%	23 - 120
8270C	Phenol-d5 (sur)	54	%	24 - 113
8270C	Terphenyl-d14 (sur)	79	%	18 - 137

8260B	1,1,1,2-Tetrachloroethane	ND	1	5	2.19	ug/Kg	01/12/04 AM
8260B	1,1,1-Trichloroethane	ND	1	5	0.47	ug/Kg	01/12/04 AM
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.50	ug/Kg	01/12/04 AM
8260B	1,1,2-Trichloroethane	ND	1	5	0.57	ug/Kg	01/12/04 AM
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	0.10	ug/Kg	01/12/04 AM
8260B	1,1-Dichloroethane	ND	1	5	0.74	ug/Kg	01/12/04 AM
8260B	1,1-Dichloroethene	ND	1	5	0.43	ug/Kg	01/12/04 AM
8260B	1,1-Dichloropropene	ND	1	5	1.30	ug/Kg	01/12/04 AM
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.54	ug/Kg	01/12/04 AM
8260B	1,2,3-Trichloropropane	ND	1	5	0.65	ug/Kg	01/12/04 AM
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/Kg	01/12/04 AM
8260B	1,2,4-Trimethylbenzene	ND	1	5	0.60	ug/Kg	01/12/04 AM
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	1.92	ug/Kg	01/12/04 AM
8260B	1,2-Dibromoethane	ND	1	5	0.43	ug/Kg	01/12/04 AM
8260B	1,2-Dichlorobenzene	ND	1	5	0.45	ug/Kg	01/12/04 AM

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489498 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	1,2-Dichloroethane	ND	1	5	0.59	ug/Kg	01/12/04 AM
8260B	1,2-Dichloropropane	ND	1	5	0.58	ug/Kg	01/12/04 AM
8260B	1,3,5-Trimethylbenzene	ND	1	5	0.55	ug/Kg	01/12/04 AM
8260B	1,3-Dichlorobenzene	ND	1	5	0.44	ug/Kg	01/12/04 AM
8260B	1,3-Dichloropropane	ND	1	5	0.51	ug/Kg	01/12/04 AM
8260B	1,4-Dichlorobenzene	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	1,4-Dioxane	ND	1	200	200	ug/Kg	01/12/04 AM
8260B	1-Chlorohexane	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	2,2-Dichloropropane	ND	1	5	0.47	ug/Kg	01/12/04 AM
8260B	2-Butanone (MEK)	ND	1	100	0.98	ug/Kg	01/12/04 AM
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	2-Chlorotoluene	ND	1	5	0.92	ug/Kg	01/12/04 AM
8260B	2-Hexanone	ND	1	5	4.7	ug/Kg	01/12/04 AM
8260B	4-Chlorotoluene	ND	1	5	0.52	ug/Kg	01/12/04 AM
8260B	4-Methyl -2- Pentanone	ND	1	5	0.49	ug/Kg	01/12/04 AM
8260B	Acetone	ND	1	50	3.81	ug/Kg	01/12/04 AM
8260B	Acetonitrile	ND	1	5	0.7	ug/Kg	01/12/04 AM
8260B	Acrolein	ND	1	200	172	ug/Kg	01/12/04 AM
8260B	Acrylonitrile	ND	1	5	1.3	ug/Kg	01/12/04 AM
8260B	Allyl chloride	ND	1	5	0.4	ug/Kg	01/12/04 AM
8260B	Benzene	ND	1	5	0.39	ug/Kg	01/12/04 AM
8260B	Benzyl chloride	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	Bromobenzene	ND	1	5	0.65	ug/Kg	01/12/04 AM
8260B	Bromochloromethane	ND	1	5	0.36	ug/Kg	01/12/04 AM
8260B	Bromodichloromethane	ND	1	5	0.48	ug/Kg	01/12/04 AM
8260B	Bromoform	ND	1	5	0.53	ug/Kg	01/12/04 AM
8260B	Bromomethane	ND	1	5	2.07	ug/Kg	01/12/04 AM
8260B	Carbon Disulfide	ND	1	5	0.8	ug/Kg	01/12/04 AM
8260B	Carbon tetrachloride	ND	1	5	0.40	ug/Kg	01/12/04 AM
8260B	Chlorobenzene	ND	1	5	0.42	ug/Kg	01/12/04 AM
8260B	Chloroethane	ND	1	5	1.1	ug/Kg	01/12/04 AM
8260B	Chloroform	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	Chloromethane	ND	1	5	0.25	ug/Kg	01/12/04 AM
8260B	cis-1,2-Dichloroethene	ND	1	5	0.79	ug/Kg	01/12/04 AM
8260B	cis-1,3-Dichloropropene	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	cis-1,4-Dichloro-2-butene	ND	1	5	0.59	ug/Kg	01/12/04 AM
8260B	Dibromochloromethane	ND	1	5	0.44	ug/Kg	01/12/04 AM
8260B	Dibromomethane	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	Dichlorodifluoromethane	ND	1	5	0.16	ug/Kg	01/12/04 AM

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489498 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Ethyl benzene	ND	1	5	0.41	ug/Kg	01/12/04 AM
8260B	Ethyl methacrylate	ND	1	5	1.8	ug/Kg	01/12/04 AM
8260B	Hexachlorobutadiene	ND	1	5	0.29	ug/Kg	01/12/04 AM
8260B	Iodomethane	ND	1	5	0.6	ug/Kg	01/12/04 AM
8260B	Isopropylbenzene (Cumene)	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	m and p-Xylene	ND	1	5	0.67	ug/Kg	01/12/04 AM
8260B	Methacrylonitrile	ND	1	5	2.70	ug/Kg	01/12/04 AM
8260B	Methyl methacrylate	ND	1	5	0.21	ug/Kg	01/12/04 AM
8260B	Methyl-tert-butylether (MTBE)	ND	1	5	0.51	ug/Kg	01/12/04 AM
8260B	Methylene chloride	ND	1	5	0.91	ug/Kg	01/12/04 AM
8260B	n-Butylbenzene	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	n-Propylbenzene	ND	1	5	0.32	ug/Kg	01/12/04 AM
8260B	Naphthalene	ND	1	5	0.60	ug/Kg	01/12/04 AM
8260B	o-Xylene	ND	1	5	0.35	ug/Kg	01/12/04 AM
8260B	p-Isopropyltoluene	ND	1	5	0.32	ug/Kg	01/12/04 AM
8260B	Pentachloroethane	ND	1	5	0.6	ug/Kg	01/12/04 AM
8260B	Propionitrile	ND	1	5	5	ug/Kg	01/12/04 AM
8260B	sec-Butylbenzene	ND	1	5	0.31	ug/Kg	01/12/04 AM
8260B	Styrene	ND	1	5	0.37	ug/Kg	01/12/04 AM
8260B	tert-Butylbenzene	ND	1	5	0.41	ug/Kg	01/12/04 AM
8260B	Tetrachloroethene	ND	1	5	0.49	ug/Kg	01/12/04 AM
8260B	Toluene	ND	1	5	0.42	ug/Kg	01/12/04 AM
8260B	trans-1,2-Dichloroethene	ND	1	5	0.48	ug/Kg	01/12/04 AM
8260B	trans-1,3-Dichloropropene	ND	1	5	0.44	ug/Kg	01/12/04 AM
8260B	trans-1,4-Dichloro-2-butene	ND	1	5	2.35	ug/Kg	01/12/04 AM
8260B	Trichloroethene	ND	1	5	0.43	ug/Kg	01/12/04 AM
8260B	Trichlorofluoromethane	ND	1	5	0.40	ug/Kg	01/12/04 AM
8260B	Vinyl acetate	ND	1	50	10.2	ug/Kg	01/12/04 AM
8260B	Vinyl chloride	ND	1	5	0.47	ug/Kg	01/12/04 AM
8260B	Xylenes, total	ND	1	5	0.8	ug/Kg	01/12/04 AM

Surrogates			Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	97	%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	102	%	70 - 135
8260B	Surr3 - Toluene-d8	106	%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	102	%	70 - 135

8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/14/04 RB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489498 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/14/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/14/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/14/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/14/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/14/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/14/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	100	%	50 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 122613-489816 QC# 012204tclp1

atrix: TCLP

Prep. Date: 01/22/04

Analysis Date: 01/22/04

Lab ID#'s in Batch: LR 122546, 122613, 119181

REPORTING UNITS = mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	6010	0.78		1	1.58	1.62	80	84	3

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - 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 = 75 -125
RPD LIMITS = 20

LCS/MB REPORT FORM

LCS Source(s) : QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank MB	Method Blank ND
Lead	6010	1.64	2	82	80%	120%	0.05	U

*Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True*

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Method Blank; ND = " U " for Non- Detected

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 122613-489816 QC# 012204stlc1

Matrix: STLC

Prep. Date: 01/22/04

Analysis Date: 01/22/04

Lab ID#'s in Batch: LR 122546, 122613, 122545

REPORTING UNITS = mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	6010	15.50		10	23.10	23.50	76	80	2
Chromium	6010	0.27		10	8.99	8.98	87	87	0

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - 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 = 75 -125
RPD LIMITS = 20

CHAIN OF CUSTODY RECORD

Sheet 1 of 1.

122545, 122546, 122547, 122548
122549, 122550, 122551

MEREDITH & ASSOCIATES, INC.
SCIENTIFIC and REGULATORY CONSULTANTS
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Phone (310) 670-9221 Fax: (310) 670-9512

CONTACT PERSON(S): LYNN EDLUND

CLIENT: L. MARMOL PROJECT NO.: 2003-123

SITE NAME: DICO OIL

SITE LOCATION: SIGNAL HILL

SAMPLING LOCATION: ROLL OFF BINS

SAMPLING INFORMATION:

ANALYSIS REQUESTED

TURNAROUND TIME: NORMAL / RUSH

COMMENTS (Precautions/Hazards/ Field Conditions)

SAMPLE ID#	LAB ID#	DATE	TIME	SAMPLE TYPE	# of CONTAINERS	PRESERVATION	OTHER	VOCs (5035/8260B)	SVOCs (8270C)	PCBs (8082)	METALS (6010/7000)								NOTES
RO-8		1/8/04	1319	SOIL	7	ICE	✓	X	X	X	X								COMPOSITE 3-402 JARS
RO-9 (LAB DUP)		1/8/04	1335	SOIL	11	ICE	✓	X	X	X	X								MAKE LAB DUP FROM COMPOSITE
RO-10		1/8/04	1345	SOIL	7	ICE	✓	X	X	X	X								
RO-11		1/8/04	1357	SOIL	7	ICE	✓	X	X	X	X								
RO-12		1/8/04	1406	SOIL	7	ICE	✓	X	X	X	X								
RO-13		1/8/04	1413	SOIL	7	ICE	✓	X	X	X	X								
RO-14		1/8/04	1425	PEBBLES	1	ICE	NONE		X	X	X								

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
COLLECTED by	Roger McCracken	R. MCCRACKEN	M&A	1/8/04	AM PM
RELEASED by	Roger McCracken	R. MCCRACKEN	M&A	1/8/04	AM PM
RELEASED to	Tom Vinsonhaler	TOM VINSONHALER	ASSOCIATED LAB	1/8/04	3:35 AM PM
RELEASED					AM PM
RECEIVED by LABORATORY	[illegible]	[illegible]	Associated Lab	1/8	5:30 AM PM

ASSOCIATED LABORATORIES
North Batavia - Orange, California 92868 - 714/771-6900 FAX 714/538-1209

CLIENT Meredith & Associates, Inc (10577)
ATTN: Roger McCracken
9841 Airport Blvd.
Suite 1010
Los Angeles, CA 90045-5409

LAB REQUEST 122547
REPORTED 01/20/2004
RECEIVED 01/08/2004

PROJECT #2003-123 Dico Oil

SUBMITTER Client

COMMENTS Added STLC and TCLP Lead on 1-23-04.

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.	Client Sample Identification
489499	RO-10
489500	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.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 489499 **Client Sample ID:** RO-10

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 13:45

Method	Analyte	Result		DF	EQL	MDL	Units	Date/Analyst
6010B	Antimony	ND		1	3.0	0.62	mg/Kg	01/13/04 KN
6010B	Arsenic	7.81		1	1.0	0.72	mg/Kg	01/13/04 KN
6010B	Barium	193		1	1.0	0.05	mg/Kg	01/13/04 KN
6010B	Beryllium	0.377	J	1	0.5	0.16	mg/Kg	01/13/04 KN
6010B	Cadmium	0.841		1	0.5	0.06	mg/Kg	01/13/04 KN
6010B	Chromium	16.0		1	1.0	0.14	mg/Kg	01/13/04 KN
6010B	Cobalt	6.06		1	0.5	0.06	mg/Kg	01/13/04 KN
6010B	Copper	24.3		1	1.0	0.10	mg/Kg	01/13/04 KN
6010B	Lead	122		1	0.5	0.16	mg/Kg	01/13/04 KN
1311/6010	Lead TCLP	1.97		1	0.05	0.002	mg/L	01/26/04 KN
6010/STLC	Lead, STLC	4.73		10	0.05	0.002	mg/L	01/26/04 KN
6010B	Molybdenum	1.10		1	1.0	0.38	mg/Kg	01/13/04 KN
6010B	Nickel	12.7		1	1.5	0.29	mg/Kg	01/13/04 KN
6010B	Selenium	ND		1	1.0	0.55	mg/Kg	01/13/04 KN
6010B	Silver	0.293	J	1	0.5	0.12	mg/Kg	01/13/04 KN
6010B	Thallium	ND		1	1.0	0.33	mg/Kg	01/13/04 KN
6010B	Vanadium	26.6		1	0.5	0.17	mg/Kg	01/13/04 KN
6010B	Zinc	160		1	5.0	0.07	mg/Kg	01/13/04 KN
7471A	Mercury	0.58		1	0.14	0.02	mg/Kg	01/13/04 MDJ
8270C	1,2,4-Trichlorobenzene	ND		5	1665.0	32.1	ug/Kg	01/12/04 DP
8270C	1,2-Dichlorobenzene	ND		5	1665.0	69.1	ug/Kg	01/12/04 DP
8270C	1,3-Dichlorobenzene	ND		5	1665.0	133.5	ug/Kg	01/12/04 DP
8270C	1,4-Dichlorobenzene	ND		5	1665.0	58.0	ug/Kg	01/12/04 DP
8270C	2,4,5-Trichlorophenol	ND		5	8325.0	33.6	ug/Kg	01/12/04 DP
8270C	2,4,6-Trichlorophenol	ND		5	8325.0	31.9	ug/Kg	01/12/04 DP
8270C	2,4-Dichlorophenol	ND		5	1665.0	35.3	ug/Kg	01/12/04 DP
8270C	2,4-Dimethylphenol	ND		5	1665.0	37.1	ug/Kg	01/12/04 DP
8270C	2,4-Dinitrophenol	ND		5	8325.0	60.5	ug/Kg	01/12/04 DP
8270C	2,4-Dinitrotoluene	ND		5	1665.0	58.4	ug/Kg	01/12/04 DP
8270C	2,6-Dinitrotoluene	ND		5	1665.0	50.4	ug/Kg	01/12/04 DP
8270C	2-Chloronaphthalene	ND		5	1665.0	18.2	ug/Kg	01/12/04 DP
8270C	2-Chlorophenol	ND		5	1665.0	230.8	ug/Kg	01/12/04 DP
8270C	2-Methylnaphthalene	ND		5	1665.0	31.6	ug/Kg	01/12/04 DP

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489499 **Client Sample ID:** RO-10

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 13:45

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	2-Methylphenol	ND	5	1665.0	194.3	ug/Kg	01/12/04 DP
8270C	2-Nitroaniline	ND	5	8325.0	30.8	ug/Kg	01/12/04 DP
8270C	2-Nitrophenol	ND	5	1665.0	63.4	ug/Kg	01/12/04 DP
8270C	3,3-Dichlorobenzidine	ND	5	1665.0	52.3	ug/Kg	01/12/04 DP
8270C	3-Methylphenol	ND	5	1665.0	211.4	ug/Kg	01/12/04 DP
8270C	3-Nitroaniline	ND	5	8325.0	31.1	ug/Kg	01/12/04 DP
8270C	4,6-Dinitro-2-methylphenol	ND	5	8325.0	44.9	ug/Kg	01/12/04 DP
8270C	4-Bromophenyl-phenylether	ND	5	1665.0	29.6	ug/Kg	01/12/04 DP
8270C	4-Chloro-3-methylphenol	ND	5	1665.0	48.8	ug/Kg	01/12/04 DP
8270C	4-Chloroaniline	ND	5	1665.0	19.2	ug/Kg	01/12/04 DP
8270C	4-Chlorophenyl-phenylether	ND	5	1665.0	38.1	ug/Kg	01/12/04 DP
8270C	4-Methylphenol	ND	5	1665.0	211.4	ug/Kg	01/12/04 DP
8270C	4-Nitroaniline	ND	5	8325.0	134.9	ug/Kg	01/12/04 DP
8270C	4-Nitrophenol	ND	5	8325.0	84.8	ug/Kg	01/12/04 DP
8270C	Acenaphthene	ND	5	1665.0	17.4	ug/Kg	01/12/04 DP
8270C	Acenaphthylene	ND	5	1665.0	14.8	ug/Kg	01/12/04 DP
8270C	Anthracene	ND	5	1665.0	9.9	ug/Kg	01/12/04 DP
8270C	Benzidine	ND	5	1665.0	260	ug/Kg	01/12/04 DP
8270C	Benzo(a)anthracene	ND	5	1665.0	26.2	ug/Kg	01/12/04 DP
8270C	Benzo(a)pyrene	ND	5	1665.0	20.0	ug/Kg	01/12/04 DP
8270C	Benzo(b)fluoranthene	ND	5	1665.0	29.9	ug/Kg	01/12/04 DP
8270C	Benzo(g,h,i)perylene	ND	5	1665.0	13.9	ug/Kg	01/12/04 DP
8270C	Benzo(k)fluoranthene	ND	5	1665.0	23.7	ug/Kg	01/12/04 DP
8270C	Benzoic Acid	ND	5	1665.0	70.0	ug/Kg	01/12/04 DP
8270C	Benzyl alcohol	ND	5	1665.0	197.0	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroethoxy)methane	ND	5	1665.0	22.6	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroethyl)ether	ND	5	1665.0	291.5	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroisopropyl) ether	ND	5	1665.0	275.3	ug/Kg	01/12/04 DP
8270C	bis(2-Ethylhexyl)phthalate	ND	5	1665.0	36.1	ug/Kg	01/12/04 DP
8270C	Butylbenzylphthalate	ND	5	1665.0	25.9	ug/Kg	01/12/04 DP
8270C	Chrysene	ND	5	1665.0	38.0	ug/Kg	01/12/04 DP
8270C	Di-n-butylphthalate	ND	5	1665.0	30.7	ug/Kg	01/12/04 DP
8270C	Di-n-octylphthalate	ND	5	1665.0	66.3	ug/Kg	01/12/04 DP
8270C	Dibenz(a,h)anthracene	ND	5	1665.0	32.3	ug/Kg	01/12/04 DP
8270C	Dibenzofuran	ND	5	1665.0	16.4	ug/Kg	01/12/04 DP
8270C	Diethylphthalate	ND	5	1665.0	43.8	ug/Kg	01/12/04 DP
8270C	Dimethylphthalate	ND	5	1665.0	28.6	ug/Kg	01/12/04 DP
8270C	Fluoranthene	ND	5	1665.0	28.2	ug/Kg	01/12/04 DP
8270C	Fluorene	ND	5	1665.0	19.3	ug/Kg	01/12/04 DP

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489499 **Client Sample ID:** RO-10

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 13:45

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	Hexachlorobenzene	ND	5	1665.0	49.4	ug/Kg	01/12/04 DP
8270C	Hexachlorobutadiene	ND	5	1665.0	40.1	ug/Kg	01/12/04 DP
8270C	Hexachlorocyclopentadiene	ND	5	1665.0	48.3	ug/Kg	01/12/04 DP
8270C	Hexachloroethane	ND	5	1665.0	180.8	ug/Kg	01/12/04 DP
8270C	Indeno(1,2,3-c,d)pyrene	ND	5	1665.0	36.1	ug/Kg	01/12/04 DP
8270C	Isophorone	ND	5	1665.0	30.4	ug/Kg	01/12/04 DP
8270C	N-Nitroso-di-n-propylamine	ND	5	1665.0	221.8	ug/Kg	01/12/04 DP
8270C	N-Nitrosodiphenylamine	ND	5	1665.0	29.1	ug/Kg	01/12/04 DP
8270C	Naphthalene	ND	5	1665.0	15.6	ug/Kg	01/12/04 DP
8270C	Nitrobenzene	ND	5	1665.0	60.6	ug/Kg	01/12/04 DP
8270C	Pentachlorophenol	ND	5	8325.0	38.0	ug/Kg	01/12/04 DP
8270C	Phenanthrene	ND	5	1665.0	19.4	ug/Kg	01/12/04 DP
8270C	Phenol	ND	5	1665.0	229.8	ug/Kg	01/12/04 DP
8270C	Pyrene	ND	5	1665.0	28.2	ug/Kg	01/12/04 DP

Surrogates			Units	Control Limits
8270C	2,4,6-Tribromophenol (sur)	66	%	17 - 122
8270C	2-Fluorobiphenyl (sur)	74	%	30 - 115
8270C	2-Fluorophenol (sur)	56	%	25 - 121
8270C	Nitrobenzene-d5 (sur)	58	%	23 - 120
8270C	Phenol-d5 (sur)	72	%	24 - 113
8270C	Terphenyl-d14 (sur)	77	%	18 - 137

8260B	1,1,1,2-Tetrachloroethane	ND	1	5	2.19	ug/Kg	01/12/04 AM
8260B	1,1,1-Trichloroethane	ND	1	5	0.47	ug/Kg	01/12/04 AM
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.50	ug/Kg	01/12/04 AM
8260B	1,1,2-Trichloroethane	ND	1	5	0.57	ug/Kg	01/12/04 AM
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	0.10	ug/Kg	01/12/04 AM
8260B	1,1-Dichloroethane	ND	1	5	0.74	ug/Kg	01/12/04 AM
8260B	1,1-Dichloroethene	ND	1	5	0.43	ug/Kg	01/12/04 AM
8260B	1,1-Dichloropropene	ND	1	5	1.30	ug/Kg	01/12/04 AM
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.54	ug/Kg	01/12/04 AM
8260B	1,2,3-Trichloropropane	ND	1	5	0.65	ug/Kg	01/12/04 AM
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/Kg	01/12/04 AM
8260B	1,2,4-Trimethylbenzene	ND	1	5	0.60	ug/Kg	01/12/04 AM
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	1.92	ug/Kg	01/12/04 AM
8260B	1,2-Dibromoethane	ND	1	5	0.43	ug/Kg	01/12/04 AM
8260B	1,2-Dichlorobenzene	ND	1	5	0.45	ug/Kg	01/12/04 AM

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489499 **Client Sample ID:** RO-10

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 13:45

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	1,2-Dichloroethane	ND	1	5	0.59	ug/Kg	01/12/04 AM
8260B	1,2-Dichloropropane	ND	1	5	0.58	ug/Kg	01/12/04 AM
8260B	1,3,5-Trimethylbenzene	ND	1	5	0.55	ug/Kg	01/12/04 AM
8260B	1,3-Dichlorobenzene	ND	1	5	0.44	ug/Kg	01/12/04 AM
8260B	1,3-Dichloropropane	ND	1	5	0.51	ug/Kg	01/12/04 AM
8260B	1,4-Dichlorobenzene	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	1,4-Dioxane	ND	1	200	200	ug/Kg	01/12/04 AM
8260B	1-Chlorohexane	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	2,2-Dichloropropane	ND	1	5	0.47	ug/Kg	01/12/04 AM
8260B	2-Butanone (MEK)	11 J	1	100	0.98	ug/Kg	01/12/04 AM
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	2-Chlorotoluene	ND	1	5	0.92	ug/Kg	01/12/04 AM
8260B	2-Hexanone	ND	1	5	4.7	ug/Kg	01/12/04 AM
8260B	4-Chlorotoluene	ND	1	5	0.52	ug/Kg	01/12/04 AM
8260B	4-Methyl -2- Pentanone	ND	1	5	0.49	ug/Kg	01/12/04 AM
8260B	Acetone	29 J	1	50	3.81	ug/Kg	01/12/04 AM
8260B	Acetonitrile	ND	1	5	0.7	ug/Kg	01/12/04 AM
8260B	Acrolein	ND	1	200	172	ug/Kg	01/12/04 AM
8260B	Acrylonitrile	ND	1	5	1.3	ug/Kg	01/12/04 AM
8260B	Allyl chloride	ND	1	5	0.4	ug/Kg	01/12/04 AM
8260B	Benzene	ND	1	5	0.39	ug/Kg	01/12/04 AM
8260B	Benzyl chloride	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	Bromobenzene	ND	1	5	0.65	ug/Kg	01/12/04 AM
8260B	Bromochloromethane	ND	1	5	0.36	ug/Kg	01/12/04 AM
8260B	Bromodichloromethane	ND	1	5	0.48	ug/Kg	01/12/04 AM
8260B	Bromoform	ND	1	5	0.53	ug/Kg	01/12/04 AM
8260B	Bromomethane	ND	1	5	2.07	ug/Kg	01/12/04 AM
8260B	Carbon Disulfide	ND	1	5	0.8	ug/Kg	01/12/04 AM
8260B	Carbon tetrachloride	ND	1	5	0.40	ug/Kg	01/12/04 AM
8260B	Chlorobenzene	ND	1	5	0.42	ug/Kg	01/12/04 AM
8260B	Chloroethane	ND	1	5	1.1	ug/Kg	01/12/04 AM
8260B	Chloroform	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	Chloromethane	ND	1	5	0.25	ug/Kg	01/12/04 AM
8260B	cis-1,2-Dichloroethene	ND	1	5	0.79	ug/Kg	01/12/04 AM
8260B	cis-1,3-Dichloropropene	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	cis-1,4-Dichloro-2-butene	ND	1	5	0.59	ug/Kg	01/12/04 AM
8260B	Dibromochloromethane	ND	1	5	0.44	ug/Kg	01/12/04 AM
8260B	Dibromomethane	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	Dichlorodifluoromethane	ND	1	5	0.16	ug/Kg	01/12/04 AM

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489499 **Client Sample ID:** RO-10

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 13:45

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Ethyl benzene	ND	1	5	0.41	ug/Kg	01/12/04 AM
8260B	Ethyl methacrylate	ND	1	5	1.8	ug/Kg	01/12/04 AM
8260B	Hexachlorobutadiene	ND	1	5	0.29	ug/Kg	01/12/04 AM
8260B	Iodomethane	ND	1	5	0.6	ug/Kg	01/12/04 AM
8260B	Isopropylbenzene (Cumene)	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	m and p-Xylene	ND	1	5	0.67	ug/Kg	01/12/04 AM
8260B	Methacrylonitrile	ND	1	5	2.70	ug/Kg	01/12/04 AM
8260B	Methyl methacrylate	ND	1	5	0.21	ug/Kg	01/12/04 AM
8260B	Methyl-tert-butylether (MTBE)	ND	1	5	0.51	ug/Kg	01/12/04 AM
8260B	Methylene chloride	3.0 J	1	5	0.91	ug/Kg	01/12/04 AM
8260B	n-Butylbenzene	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	n-Propylbenzene	ND	1	5	0.32	ug/Kg	01/12/04 AM
8260B	Naphthalene	ND	1	5	0.60	ug/Kg	01/12/04 AM
8260B	o-Xylene	ND	1	5	0.35	ug/Kg	01/12/04 AM
8260B	p-Isopropyltoluene	ND	1	5	0.32	ug/Kg	01/12/04 AM
8260B	Pentachloroethane	ND	1	5	0.6	ug/Kg	01/12/04 AM
8260B	Propionitrile	ND	1	5	5	ug/Kg	01/12/04 AM
8260B	sec-Butylbenzene	ND	1	5	0.31	ug/Kg	01/12/04 AM
8260B	Styrene	ND	1	5	0.37	ug/Kg	01/12/04 AM
8260B	tert-Butylbenzene	ND	1	5	0.41	ug/Kg	01/12/04 AM
8260B	Tetrachloroethene	ND	1	5	0.49	ug/Kg	01/12/04 AM
8260B	Toluene	ND	1	5	0.42	ug/Kg	01/12/04 AM
8260B	trans-1,2-Dichloroethene	ND	1	5	0.48	ug/Kg	01/12/04 AM
8260B	trans-1,3-Dichloropropene	ND	1	5	0.44	ug/Kg	01/12/04 AM
8260B	trans-1,4-Dichloro-2-butene	ND	1	5	2.35	ug/Kg	01/12/04 AM
8260B	Trichloroethene	ND	1	5	0.43	ug/Kg	01/12/04 AM
8260B	Trichlorofluoromethane	ND	1	5	0.40	ug/Kg	01/12/04 AM
8260B	Vinyl acetate	ND	1	50	10.2	ug/Kg	01/12/04 AM
8260B	Vinyl chloride	ND	1	5	0.47	ug/Kg	01/12/04 AM
8260B	Xylenes, total	ND	1	5	0.8	ug/Kg	01/12/04 AM

Surrogates			Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	96	%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	115	%	70 - 135
8260B	Surr3 - Toluene-d8	105	%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	101	%	70 - 135

8082	PCB-1016	ND	25	0.75	0.003	mg/Kg	01/16/04 RB

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489499 **Client Sample ID:** RO-10

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 13:45

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1221	ND	25	1.5	0.006	mg/Kg	01/16/04 RB
8082	PCB-1232	ND	25	1.25	0.004	mg/Kg	01/16/04 RB
8082	PCB-1242	ND	25	1.25	0.002	mg/Kg	01/16/04 RB
8082	PCB-1248	ND	25	2.0	0.008	mg/Kg	01/16/04 RB
8082	PCB-1254	ND	25	0.75	0.001	mg/Kg	01/16/04 RB
8082	PCB-1260	12	25	0.75	0.002	mg/Kg	01/16/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	90	%	50 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489500 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Antimony	ND	1	3.00	0.62	mg/Kg	01/13/04 KN
6010B	Arsenic	ND	1	1.00	0.72	mg/Kg	01/13/04 KN
6010B	Barium	ND	1	1.00	0.05	mg/Kg	01/13/04 KN
6010B	Beryllium	ND	1	0.50	0.16	mg/Kg	01/13/04 KN
6010B	Cadmium	ND	1	0.50	0.06	mg/Kg	01/13/04 KN
6010B	Chromium	ND	1	1.00	0.14	mg/Kg	01/13/04 KN
6010B	Cobalt	ND	1	0.50	0.06	mg/Kg	01/13/04 KN
6010B	Copper	ND	1	1.00	0.10	mg/Kg	01/13/04 KN
6010B	Lead	ND	1	0.50	0.16	mg/Kg	01/13/04 KN
1311/6010	Lead TCLP	ND	1	0.05	0.002	mg/L	01/26/04 KN
6010/STLC	Lead, STLC	ND	1	0.005	0.002	mg/L	01/26/04 KN
6010B	Molybdenum	ND	1	1.00	0.38	mg/Kg	01/13/04 KN
6010B	Nickel	ND	1	1.50	0.29	mg/Kg	01/13/04 KN
6010B	Selenium	ND	1	1.00	0.55	mg/Kg	01/13/04 KN
6010B	Silver	ND	1	0.50	0.12	mg/Kg	01/13/04 KN
6010B	Thallium	ND	1	1.00	0.33	mg/Kg	01/13/04 KN
6010B	Vanadium	ND	1	0.50	0.17	mg/Kg	01/13/04 KN
6010B	Zinc	ND	1	5.00	0.07	mg/Kg	01/13/04 KN
7471A	Mercury	ND	1	0.14	0.02	mg/Kg	01/13/04 MDJ
8270C	1,2,4-Trichlorobenzene	ND	1	333	32.1	ug/Kg	01/12/04 DP
8270C	1,2-Dichlorobenzene	ND	1	333	69.1	ug/Kg	01/12/04 DP
8270C	1,3-Dichlorobenzene	ND	1	333	133.5	ug/Kg	01/12/04 DP
8270C	1,4-Dichlorobenzene	ND	1	333	58.0	ug/Kg	01/12/04 DP
8270C	2,4,5-Trichlorophenol	ND	1	1665	33.6	ug/Kg	01/12/04 DP
8270C	2,4,6-Trichlorophenol	ND	1	1665	31.9	ug/Kg	01/12/04 DP
8270C	2,4-Dichlorophenol	ND	1	333	35.3	ug/Kg	01/12/04 DP
8270C	2,4-Dimethylphenol	ND	1	333	37.1	ug/Kg	01/12/04 DP
8270C	2,4-Dinitrophenol	ND	1	1665	60.5	ug/Kg	01/12/04 DP
8270C	2,4-Dinitrotoluene	ND	1	333	58.4	ug/Kg	01/12/04 DP
8270C	2,6-Dinitrotoluene	ND	1	333	50.4	ug/Kg	01/12/04 DP
8270C	2-Chloronaphthalene	ND	1	333	18.2	ug/Kg	01/12/04 DP
8270C	2-Chlorophenol	ND	1	333	230.8	ug/Kg	01/12/04 DP
8270C	2-Methylnaphthalene	ND	1	333	31.6	ug/Kg	01/12/04 DP

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489500 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	2-Methylphenol	ND	1	333	194.3	ug/Kg	01/12/04 DP
8270C	2-Nitroaniline	ND	1	1665	30.8	ug/Kg	01/12/04 DP
8270C	2-Nitrophenol	ND	1	333	63.4	ug/Kg	01/12/04 DP
8270C	3,3-Dichlorobenzidine	ND	1	333	52.3	ug/Kg	01/12/04 DP
8270C	3-Methylphenol	ND	1	333	211.4	ug/Kg	01/12/04 DP
8270C	3-Nitroaniline	ND	1	1665	31.1	ug/Kg	01/12/04 DP
8270C	4,6-Dinitro-2-methylphenol	ND	1	1665	44.9	ug/Kg	01/12/04 DP
8270C	4-Bromophenyl-phenylether	ND	1	333	29.6	ug/Kg	01/12/04 DP
8270C	4-Chloro-3-methylphenol	ND	1	333	48.8	ug/Kg	01/12/04 DP
8270C	4-Chloroaniline	ND	1	333	19.2	ug/Kg	01/12/04 DP
8270C	4-Chlorophenyl-phenylether	ND	1	333	38.1	ug/Kg	01/12/04 DP
8270C	4-Methylphenol	ND	1	333	211.4	ug/Kg	01/12/04 DP
8270C	4-Nitroaniline	ND	1	1665	134.9	ug/Kg	01/12/04 DP
8270C	4-Nitrophenol	ND	1	1665	84.8	ug/Kg	01/12/04 DP
8270C	Acenaphthene	ND	1	333	17.4	ug/Kg	01/12/04 DP
8270C	Acenaphthylene	ND	1	333	14.8	ug/Kg	01/12/04 DP
8270C	Anthracene	ND	1	333	9.9	ug/Kg	01/12/04 DP
8270C	Benzidine	ND	1	333	260	ug/Kg	01/12/04 DP
8270C	Benzo(a)anthracene	ND	1	333	26.2	ug/Kg	01/12/04 DP
8270C	Benzo(a)pyrene	ND	1	333	20.0	ug/Kg	01/12/04 DP
8270C	Benzo(b)fluoranthene	ND	1	333	29.9	ug/Kg	01/12/04 DP
8270C	Benzo(g,h,i)perylene	ND	1	333	13.9	ug/Kg	01/12/04 DP
8270C	Benzo(k)fluoranthene	ND	1	333	23.7	ug/Kg	01/12/04 DP
8270C	Benzoic Acid	ND	1	333	70.0	ug/Kg	01/12/04 DP
8270C	Benzyl alcohol	ND	1	333	197.0	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroethoxy)methane	ND	1	333	22.6	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroethyl)ether	ND	1	333	291.5	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroisopropyl) ether	ND	1	333	275.3	ug/Kg	01/12/04 DP
8270C	bis(2-Ethylhexyl)phthalate	ND	1	333	36.1	ug/Kg	01/12/04 DP
8270C	Butylbenzylphthalate	ND	1	333	25.9	ug/Kg	01/12/04 DP
8270C	Chrysene	ND	1	333	38.0	ug/Kg	01/12/04 DP
8270C	Di-n-butylphthalate	ND	1	333	30.7	ug/Kg	01/12/04 DP
8270C	Di-n-octylphthalate	ND	1	333	66.3	ug/Kg	01/12/04 DP
8270C	Dibenz(a,h)anthracene	ND	1	333	32.3	ug/Kg	01/12/04 DP
8270C	Dibenzofuran	ND	1	333	16.4	ug/Kg	01/12/04 DP
8270C	Diethylphthalate	ND	1	333	43.8	ug/Kg	01/12/04 DP
8270C	Dimethylphthalate	ND	1	333	28.6	ug/Kg	01/12/04 DP
8270C	Fluoranthene	ND	1	333	28.2	ug/Kg	01/12/04 DP
8270C	Fluorene	ND	1	333	19.3	ug/Kg	01/12/04 DP

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489500 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	Hexachlorobenzene	ND	1	333	49.4	ug/Kg	01/12/04 DP
8270C	Hexachlorobutadiene	ND	1	333	40.1	ug/Kg	01/12/04 DP
8270C	Hexachlorocyclopentadiene	ND	1	333	48.3	ug/Kg	01/12/04 DP
8270C	Hexachloroethane	ND	1	333	180.8	ug/Kg	01/12/04 DP
8270C	Indeno(1,2,3-c,d)pyrene	ND	1	333	36.1	ug/Kg	01/12/04 DP
8270C	Isophorone	ND	1	333	30.4	ug/Kg	01/12/04 DP
8270C	N-Nitroso-di-n-propylamine	ND	1	333	221.8	ug/Kg	01/12/04 DP
8270C	N-Nitrosodiphenylamine	ND	1	333	29.1	ug/Kg	01/12/04 DP
8270C	Naphthalene	ND	1	333	15.6	ug/Kg	01/12/04 DP
8270C	Nitrobenzene	ND	1	333	60.6	ug/Kg	01/12/04 DP
8270C	Pentachlorophenol	ND	1	1665	38.0	ug/Kg	01/12/04 DP
8270C	Phenanthrene	ND	1	333	19.4	ug/Kg	01/12/04 DP
8270C	Phenol	ND	1	333	229.8	ug/Kg	01/12/04 DP
8270C	Pyrene	ND	1	333	28.2	ug/Kg	01/12/04 DP

Surrogates			Units	Control Limits
8270C	2,4,6-Tribromophenol (sur)	37	%	17 - 122
8270C	2-Fluorobiphenyl (sur)	47	%	30 - 115
8270C	2-Fluorophenol (sur)	44	%	25 - 121
8270C	Nitrobenzene-d5 (sur)	43	%	23 - 120
8270C	Phenol-d5 (sur)	54	%	24 - 113
8270C	Terphenyl-d14 (sur)	79	%	18 - 137

8260B	1,1,1,2-Tetrachloroethane	ND	1	5	2.19	ug/Kg	01/12/04 AM
8260B	1,1,1-Trichloroethane	ND	1	5	0.47	ug/Kg	01/12/04 AM
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.50	ug/Kg	01/12/04 AM
8260B	1,1,2-Trichloroethane	ND	1	5	0.57	ug/Kg	01/12/04 AM
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	0.10	ug/Kg	01/12/04 AM
8260B	1,1-Dichloroethane	ND	1	5	0.74	ug/Kg	01/12/04 AM
8260B	1,1-Dichloroethene	ND	1	5	0.43	ug/Kg	01/12/04 AM
8260B	1,1-Dichloropropene	ND	1	5	1.30	ug/Kg	01/12/04 AM
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.54	ug/Kg	01/12/04 AM
8260B	1,2,3-Trichloropropane	ND	1	5	0.65	ug/Kg	01/12/04 AM
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/Kg	01/12/04 AM
8260B	1,2,4-Trimethylbenzene	ND	1	5	0.60	ug/Kg	01/12/04 AM
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	1.92	ug/Kg	01/12/04 AM
8260B	1,2-Dibromoethane	ND	1	5	0.43	ug/Kg	01/12/04 AM
8260B	1,2-Dichlorobenzene	ND	1	5	0.45	ug/Kg	01/12/04 AM

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489500 **Client Sample ID:** Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	1,2-Dichloroethane	ND	1	5	0.59	ug/Kg	01/12/04 AM
8260B	1,2-Dichloropropane	ND	1	5	0.58	ug/Kg	01/12/04 AM
8260B	1,3,5-Trimethylbenzene	ND	1	5	0.55	ug/Kg	01/12/04 AM
8260B	1,3-Dichlorobenzene	ND	1	5	0.44	ug/Kg	01/12/04 AM
8260B	1,3-Dichloropropane	ND	1	5	0.51	ug/Kg	01/12/04 AM
8260B	1,4-Dichlorobenzene	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	1,4-Dioxane	ND	1	200	200	ug/Kg	01/12/04 AM
8260B	1-Chlorohexane	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	2,2-Dichloropropane	ND	1	5	0.47	ug/Kg	01/12/04 AM
8260B	2-Butanone (MEK)	ND	1	100	0.98	ug/Kg	01/12/04 AM
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	2-Chlorotoluene	ND	1	5	0.92	ug/Kg	01/12/04 AM
8260B	2-Hexanone	ND	1	5	4.7	ug/Kg	01/12/04 AM
8260B	4-Chlorotoluene	ND	1	5	0.52	ug/Kg	01/12/04 AM
8260B	4-Methyl -2- Pentanone	ND	1	5	0.49	ug/Kg	01/12/04 AM
8260B	Acetone	ND	1	50	3.81	ug/Kg	01/12/04 AM
8260B	Acetonitrile	ND	1	5	0.7	ug/Kg	01/12/04 AM
8260B	Acrolein	ND	1	200	172	ug/Kg	01/12/04 AM
8260B	Acrylonitrile	ND	1	5	1.3	ug/Kg	01/12/04 AM
8260B	Allyl chloride	ND	1	5	0.4	ug/Kg	01/12/04 AM
8260B	Benzene	ND	1	5	0.39	ug/Kg	01/12/04 AM
8260B	Benzyl chloride	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	Bromobenzene	ND	1	5	0.65	ug/Kg	01/12/04 AM
8260B	Bromochloromethane	ND	1	5	0.36	ug/Kg	01/12/04 AM
8260B	Bromodichloromethane	ND	1	5	0.48	ug/Kg	01/12/04 AM
8260B	Bromoform	ND	1	5	0.53	ug/Kg	01/12/04 AM
8260B	Bromomethane	ND	1	5	2.07	ug/Kg	01/12/04 AM
8260B	Carbon Disulfide	ND	1	5	0.8	ug/Kg	01/12/04 AM
8260B	Carbon tetrachloride	ND	1	5	0.40	ug/Kg	01/12/04 AM
8260B	Chlorobenzene	ND	1	5	0.42	ug/Kg	01/12/04 AM
8260B	Chloroethane	ND	1	5	1.1	ug/Kg	01/12/04 AM
8260B	Chloroform	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	Chloromethane	ND	1	5	0.25	ug/Kg	01/12/04 AM
8260B	cis-1,2-Dichloroethene	ND	1	5	0.79	ug/Kg	01/12/04 AM
8260B	cis-1,3-Dichloropropene	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	cis-1,4-Dichloro-2-butene	ND	1	5	0.59	ug/Kg	01/12/04 AM
8260B	Dibromochloromethane	ND	1	5	0.44	ug/Kg	01/12/04 AM
8260B	Dibromomethane	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	Dichlorodifluoromethane	ND	1	5	0.16	ug/Kg	01/12/04 AM

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489500 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Ethyl benzene	ND	1	5	0.41	ug/Kg	01/12/04 AM
8260B	Ethyl methacrylate	ND	1	5	1.8	ug/Kg	01/12/04 AM
8260B	Hexachlorobutadiene	ND	1	5	0.29	ug/Kg	01/12/04 AM
8260B	Iodomethane	ND	1	5	0.6	ug/Kg	01/12/04 AM
8260B	Isopropylbenzene (Cumene)	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	m and p-Xylene	ND	1	5	0.67	ug/Kg	01/12/04 AM
8260B	Methacrylonitrile	ND	1	5	2.70	ug/Kg	01/12/04 AM
8260B	Methyl methacrylate	ND	1	5	0.21	ug/Kg	01/12/04 AM
8260B	Methyl-tert-butylether (MTBE)	ND	1	5	0.51	ug/Kg	01/12/04 AM
8260B	Methylene chloride	1.7 J	1	5	0.91	ug/Kg	01/12/04 AM
8260B	n-Butylbenzene	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	n-Propylbenzene	ND	1	5	0.32	ug/Kg	01/12/04 AM
8260B	Naphthalene	ND	1	5	0.60	ug/Kg	01/12/04 AM
8260B	o-Xylene	ND	1	5	0.35	ug/Kg	01/12/04 AM
8260B	p-Isopropyltoluene	ND	1	5	0.32	ug/Kg	01/12/04 AM
8260B	Pentachloroethane	ND	1	5	0.6	ug/Kg	01/12/04 AM
8260B	Propionitrile	ND	1	5	5	ug/Kg	01/12/04 AM
8260B	sec-Butylbenzene	ND	1	5	0.31	ug/Kg	01/12/04 AM
8260B	Styrene	ND	1	5	0.37	ug/Kg	01/12/04 AM
8260B	tert-Butylbenzene	ND	1	5	0.41	ug/Kg	01/12/04 AM
8260B	Tetrachloroethene	ND	1	5	0.49	ug/Kg	01/12/04 AM
8260B	Toluene	ND	1	5	0.42	ug/Kg	01/12/04 AM
8260B	trans-1,2-Dichloroethene	ND	1	5	0.48	ug/Kg	01/12/04 AM
8260B	trans-1,3-Dichloropropene	ND	1	5	0.44	ug/Kg	01/12/04 AM
8260B	trans-1,4-Dichloro-2-butene	ND	1	5	2.35	ug/Kg	01/12/04 AM
8260B	Trichloroethene	ND	1	5	0.43	ug/Kg	01/12/04 AM
8260B	Trichlorofluoromethane	ND	1	5	0.40	ug/Kg	01/12/04 AM
8260B	Vinyl acetate	ND	1	50	10.2	ug/Kg	01/12/04 AM
8260B	Vinyl chloride	ND	1	5	0.47	ug/Kg	01/12/04 AM
8260B	Xylenes, total	ND	1	5	0.8	ug/Kg	01/12/04 AM

Surrogates			Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	97	%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	102	%	70 - 135
8260B	Surr3 - Toluene-d8	106	%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	102	%	70 - 135

8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/14/04 RB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489500 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/14/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/14/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/14/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/14/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/14/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/14/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	100	%	50 - 135

EQ[illegible] Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND [illegible]ot detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 122547-489499 QC# 012604STLC1

Matrix: STLC

Prep. Date: 01/26/04

Analysis Date: 01/26/04

Lab ID#'s in Batch: LR 122547, 123061, 122709, 122549, 122460, 123150, 122589, 118885

REPORTING UNITS = mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	6010	4.73		10	13.40	13.50	87	88	1
Copper	6010	0.70		10	10.10	9.97	94	93	1
Arsenic	6010	0.50	U	10	9.60	9.70	96	97	1
Cadmium	6010	1.00	U	10	9.80	9.70	98	97	1
Chromium	6010	1.00	U	10	9.20	9.02	92	90	2

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - 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 = 75 -125
RPD LIMITS = 20

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 122547-489499 QC# 012304tclp1

atrix: Water

Prep. Date: 01/23/04

Analysis Date: 01/26/04

Lab ID#'s in Batch: LR 122547, 123150, 122708, 123353, 122589

REPORTING UNITS = mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Arsenic	6010	0.05	U	1.0	0.86	0.91	86	91	6
Selenium	6010	0.01		1.0	0.96	1.02	95	101	6
Lead	* 6010	1.97		1.0	2.58	2.67	61	70	3
Barium	* 6010	1.61		1.0	2.27	2.37	66	76	4
Cadmium	6010	0.05	U	1.0	0.83	0.88	83	88	6
Chromium	6010	0.05	U	1.0	0.77	0.80	77	80	4
lver	6010	0.05	U	0.5	0.39	0.41	78	82	5
Copper	6010	0.260		1.0	1.03	1.08	77	82	5

*** = Outside QC limits, due to matrix Interference**

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - 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 = 75 -125
RPD LIMITS = 20

LCS/MB REPORT FORM

LCS Source(s) : QC21-LOT#QC2/22/01;QC7-LOT7A13/05

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank MB	Method Blank ND
Arsenic	6010	1.76	2	88	80%	120%	0.05	U
Selenium	6010	1.93	2	97	80%	120%	0.05	U
Lead	6010	1.79	2	90	80%	120%	0.05	U
Barium	6010	1.80	2	90	80%	120%	0.10	U
Cadmium	6010	2.01	2	101	80%	120%	0.05	U
'hromium	6010	1.81	2	91	80%	120%	0.05	U
Silver	6010	0.88	1	88	80%	120%	0.05	U
Copper	6010	1.89	2	95	80%	120%	0.01	U

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 122545-489494 QC# 011304SO1

Matrix: SOLID

Prep. Date: 01/13/04

Analysis Date: 01/13/04

Lab ID#'s in Batch: LR 122545, 122546, 122547, 122548, 122549, 122550, 122551, 122594, 122606

REPORTING UNITS = mg/Kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Arsenic	6010	8.31		94	95	94	92	91	1
Selenium	6010	1.00	U	94	84	83	89	88	1
Thallium	6010	1.00	U	94	82	81	87	86	1
Lead	6010	93.40		94	184	184	96	96	0
Antimony	6010	3.00	U	94	92	91	98	97	1
Barium	6010	185.00		94	272	268	93	88	1
Beryllium	6010	0.50	U	94	90	88	96	94	2
Cadmium	6010	1.00		94	91	91	96	96	0
Chromium	6010	17.40		94	107	105	95	93	2
Cobalt	6010	6.53		94	97	96	96	95	1
Copper	6010	27.40		94	119	116	97	94	3
Molybdenum	6010	2.58		94	104	100	108	104	4
Nickel	6010	12.40		94	97	96	90	89	1
Silver	6010	0.69		47	44	43	92	90	2
Vanadium	6010	25.20		94	118	116	99	97	2
Zinc	6010	131.00		94	215	216	89	90	0

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - 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 = 75 -125
RPD LIMITS = 20

ASSOCIATED LABORATORIES

LCS/MB REPORT FORM

LCS Source(s) : QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank MB	Method Blank ND
Silver	6010	114	100	114	80%	120%	0.50	U
Arsenic	6010	176	200	88	80%	120%	0.50	U
Barium	6010	200	200	100	80%	120%	1.00	U
Beryllium	6010	209	200	105	80%	120%	0.50	U
Cadmium	6010	212	200	106	80%	120%	0.50	U
Cobalt	6010	204	200	102	80%	120%	0.50	U
Chromium	6010	205	200	103	80%	120%	1.00	U
Copper	6010	200	200	100	80%	120%	1.00	U
Molybdenum	6010	209	200	105	80%	120%	1.00	U
Nickel	6010	205	200	103	80%	120%	1.50	U
Lead	6010	198	200	99	80%	120%	0.50	U
Antimony	6010	209	200	105	80%	120%	3.00	U
Selenium	6010	199	200	100	80%	120%	1.00	U
Thallium	6010	198	200	99	80%	120%	1.00	U
Vanadium	6010	205	200	103	80%	120%	1.00	U
Zinc	6010	213	200	107	80%	120%	5.00	U

*Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True*

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Method Blank; ND = " U " for Non- Detected

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 122546-489497

Matrix: SOIL

Prep. Date: 01/13/04

Analysis Date: 01/13/04

ID#'s in Batch: LR 122546, 122545, 122547, 122548, 122549, 122550, 122551, 122692, 122693

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = mg/Kg

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
MERCURY	245.5 / 7471A	0.32	0.75	1.13	1.15	108	111	2

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	0.85	0.80	106	80%	120%

Value = Preparation Blank Value; ND = Not-Detected
LCS Result = Lab Control Sample Result
True = True Value of LCS
L.Limit / H.Limit = LCS Control Limits

ASSOCIATED LABORATORIES

LCS REPORT FORM - METHOD 8260 / 624 / 524.2

QC Sample: LCS/LCSD - Soil Samples

Ar 's Date: 01/12/04 4:20 PM

Applies to: LR 122545, 122546, 122547, 122548, 122549, 122550

Reporting Units = ug/Kg

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	LCS Spk. Dup	%Rec LCS	%Rec LCS D	RPD	QC Limits RPD	QC Limits %REC
1,1-Dichloroethene	ND	50	50.48	47.57	101	95	6	22	59-172
MTBE	ND	50	47.71	47.34	95	95	1	24	62-137
Benzene	ND	50	52.44	50.99	105	102	3	24	62-137
Trichloroethene	ND	50	54.60	55.57	109	111	2	21	66-142
Toluene	ND	50	55.25	56.74	111	113	3	21	59-139
Chlorobenzene	ND	50	53.64	55.81	107	112	4	21	60-133

Method Blank = All ND

SURROGATE (QC Limits : 70-135)

Compound	MB	LCS	LCSD
DBFM	97	99	98
1,2-DCA	102	92	88
Tol-d8	106	100	103
p-BFB	102	98	97

ASSOCIATED LABORATORIES
QA REPORT FORM

Method : EPA 8270/625

Prep. Method : 3550B

QC ,le: MS/MSD 122547-499

Matrix: SOLID

Date Extracted : 01/12/04

Date Analyzed : 01/12/04

Applies to: LR 122545, 122546, 122547, 122548, 122549, 122550, 122551

REPORTING UNITS = ug/Kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Test	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup.	%Rec MS	%Rec MSD	RPD	QC Limits RPD	QC Limits %REC
Phenol	ND	50	40	45	80	90	12	35	25-93
2-Chorophenol	ND	50	40	49	80	98	20	50	35-84
1,4-Dichlorobenzene	ND	50	35	42	70	84	18	27	35-89
n-Nitroso-di-n-propylamine	ND	50	52	54	104	108	4	38	25-109
1,2,4-Trichlorobenzene	ND	50	41	48	82	96	16	23	22-92
4-Chloro-3-methylphenol	ND	50	41	46	82	92	11	33	15-99
Acenaphthene *	ND	50	44	54	88	108	20	19	20-105
4-Nitronhenol	ND	50	39	44	78	88	12	50	7-112
2,4- toluene	ND	50	17	16	34	32	6	47	13-136
Pentachlorophenol	ND	50	43	45	86	90	5	47	0-147
Pyrene	ND	50	59	64	118	128	8	36	17-136

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	%Rec LCS	QC LIMIT %REC
Phenol	ND	50	27	54	30-97
2-Clorophenol	ND	50	27	54	34-90
1,4-Dichlorobenzene	ND	50	27	54	39-87
n-Nitroso-di-n-propylamine	ND	50	31	62	29-110
1,2,4-Trichlorobenzene	ND	50	26	52	28-87
4-Cloro-3-methylphenol	ND	50	26	52	25-97
Acenaphthene	ND	50	30	60	32-94
4-Nitrophenol	ND	50	21	42	14-95
2,4-Dinitrotoluene	ND	50	37	74	30-113
Pentachlorophenol	ND	50	16	32	0-121
Pyr	ND	50	43	86	35-120

Method Blank = All ND

***MS/MSD or RPD is outside lilmits. However, LCS and MB conformed for all spike compounds.**

ASSOCIATED LABORATORIES
QA REPORT FORM

D. . .ninative Method : EPA 8082 Preparative Method: EPA 3545

QC Sample: 122461-489206

Matrix: SOLID

Analysis Date: 1/15/04

Batch Date: 1/12/04 (pcb 011204s)

Applies to: LR 122460, LR 122461, LR 122545, LR 122546, LR 122547, LR 122548, LR 122549, LR 122550 and LR 122551

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULTS
REPORTING UNITS = mg/Kg

Test	Sample Result	Spike Added	Spike Recovered		% Rec		RPD	QC Limits	
			MS	MSD	MS	MSD		RPD	% Rec
Aroclor 1260	ND	0.500	0.494	0.515	99	103	4	35	50-125

ND = Not Detected
% Rec - MS & MSD = Percent Recovery from Matrix Spike & Matrix Spike Duplicate
R' Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate recoveries

LAB CONTROL SPIKE RECOVERY / METHOD BLANK
REPORTING UNITS = mg/Kg

Test	Spike Added	Spike Recovered	% Rec LCS	QC Limit
Aroclor 1260	0.500	0.530	106	70-130

Method Blank = All ND
% Rec - LCS = Percent Recovery from Lab Control Spike

ASSOCIATED LABORATORIES
North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Meredith & Associates, Inc (10577)
ATTN: Roger McCracken
9841 Airport Blvd.
Suite 1010
Los Angeles, CA 90045-5409

LAB REQUEST 122548
REPORTED 01/20/2004
RECEIVED 01/08/2004

PROJECT #2003-123 Dico Oil

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.	Client Sample Identification
489501	RO-11
489502	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.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 489501 **Client Sample ID:** RO-11

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 13:57

Method	Analyte	Result		DF	EQL	MDL	Units	Date/Analyst
6010B	Antimony	ND		1	3.0	0.62	mg/Kg	01/13/04 KN
6010B	Arsenic	5.42		1	1.0	0.72	mg/Kg	01/13/04 KN
6010B	Barium	83.8		1	1.0	0.05	mg/Kg	01/13/04 KN
6010B	Beryllium	0.465	J	1	0.5	0.16	mg/Kg	01/13/04 KN
6010B	Cadmium	0.468	J	1	0.5	0.06	mg/Kg	01/13/04 KN
6010B	Chromium	10.6		1	1.0	0.14	mg/Kg	01/13/04 KN
6010B	Cobalt	5.83		1	0.5	0.06	mg/Kg	01/13/04 KN
6010B	Copper	10.7		1	1.0	0.10	mg/Kg	01/13/04 KN
6010B	Lead	40.6		1	0.5	0.16	mg/Kg	01/13/04 KN
6010B	Molybdenum	ND		1	1.0	0.38	mg/Kg	01/13/04 KN
6010B	Nickel	7.80		1	1.5	0.29	mg/Kg	01/13/04 KN
6010B	Selenium	ND		1	1.0	0.55	mg/Kg	01/13/04 KN
6010B	Silver	ND		1	0.5	0.12	mg/Kg	01/13/04 KN
6010B	Thallium	ND		1	1.0	0.33	mg/Kg	01/13/04 KN
6010B	Vanadium	20.1		1	0.5	0.17	mg/Kg	01/13/04 KN
6010B	Zinc	61.4		1	5.0	0.07	mg/Kg	01/13/04 KN
7471A	Mercury	0.072	J	1	0.14	0.02	mg/Kg	01/13/04 MDJ
8270C	1,2,4-Trichlorobenzene	4000		5	1665.0	32.1	ug/Kg	01/12/04 DP
8270C	1,2-Dichlorobenzene	ND		5	1665.0	69.1	ug/Kg	01/12/04 DP
8270C	1,3-Dichlorobenzene	ND		5	1665.0	133.5	ug/Kg	01/12/04 DP
8270C	1,4-Dichlorobenzene	ND		5	1665.0	58.0	ug/Kg	01/12/04 DP
8270C	2,4,5-Trichlorophenol	ND		5	8325.0	33.6	ug/Kg	01/12/04 DP
8270C	2,4,6-Trichlorophenol	ND		5	8325.0	31.9	ug/Kg	01/12/04 DP
8270C	2,4-Dichlorophenol	ND		5	1665.0	35.3	ug/Kg	01/12/04 DP
8270C	2,4-Dimethylphenol	ND		5	1665.0	37.1	ug/Kg	01/12/04 DP
8270C	2,4-Dinitrophenol	ND		5	8325.0	60.5	ug/Kg	01/12/04 DP
8270C	2,4-Dinitrotoluene	ND		5	1665.0	58.4	ug/Kg	01/12/04 DP
8270C	2,6-Dinitrotoluene	ND		5	1665.0	50.4	ug/Kg	01/12/04 DP
8270C	2-Chloronaphthalene	ND		5	1665.0	18.2	ug/Kg	01/12/04 DP
8270C	2-Chlorophenol	ND		5	1665.0	230.8	ug/Kg	01/12/04 DP
8270C	2-Methylnaphthalene	ND		5	1665.0	31.6	ug/Kg	01/12/04 DP
8270C	2-Methylphenol	ND		5	1665.0	194.3	ug/Kg	01/12/04 DP
8270C	2-Nitroaniline	ND		5	8325.0	30.8	ug/Kg	01/12/04 DP

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489501 **Client Sample ID**: RO-11

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 13:57

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	2-Nitrophenol	ND	5	1665.0	63.4	ug/Kg	01/12/04 DP
8270C	3,3-Dichlorobenzidine	ND	5	1665.0	52.3	ug/Kg	01/12/04 DP
8270C	3-Methylphenol	ND	5	1665.0	211.4	ug/Kg	01/12/04 DP
8270C	3-Nitroaniline	ND	5	8325.0	31.1	ug/Kg	01/12/04 DP
8270C	4,6-Dinitro-2-methylphenol	ND	5	8325.0	44.9	ug/Kg	01/12/04 DP
8270C	4-Bromophenyl-phenylether	ND	5	1665.0	29.6	ug/Kg	01/12/04 DP
8270C	4-Chloro-3-methylphenol	ND	5	1665.0	48.8	ug/Kg	01/12/04 DP
8270C	4-Chloroaniline	ND	5	1665.0	19.2	ug/Kg	01/12/04 DP
8270C	4-Chlorophenyl-phenylether	ND	5	1665.0	38.1	ug/Kg	01/12/04 DP
8270C	4-Methylphenol	ND	5	1665.0	211.4	ug/Kg	01/12/04 DP
8270C	4-Nitroaniline	ND	5	8325.0	134.9	ug/Kg	01/12/04 DP
8270C	4-Nitrophenol	ND	5	8325.0	84.8	ug/Kg	01/12/04 DP
8270C	Acenaphthene	ND	5	1665.0	17.4	ug/Kg	01/12/04 DP
8270C	Acenaphthylene	ND	5	1665.0	14.8	ug/Kg	01/12/04 DP
8270C	Anthracene	ND	5	1665.0	9.9	ug/Kg	01/12/04 DP
8270C	Benzidine	ND	5	1665.0	260	ug/Kg	01/12/04 DP
8270C	Benzo(a)anthracene	ND	5	1665.0	26.2	ug/Kg	01/12/04 DP
8270C	Benzo(a)pyrene	ND	5	1665.0	20.0	ug/Kg	01/12/04 DP
8270C	Benzo(b)fluoranthene	ND	5	1665.0	29.9	ug/Kg	01/12/04 DP
8270C	Benzo(g,h,i)perylene	ND	5	1665.0	13.9	ug/Kg	01/12/04 DP
8270C	Benzo(k)fluoranthene	ND	5	1665.0	23.7	ug/Kg	01/12/04 DP
8270C	Benzoic Acid	ND	5	1665.0	70.0	ug/Kg	01/12/04 DP
8270C	Benzyl alcohol	ND	5	1665.0	197.0	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroethoxy)methane	ND	5	1665.0	22.6	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroethyl)ether	ND	5	1665.0	291.5	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroisopropyl) ether	ND	5	1665.0	275.3	ug/Kg	01/12/04 DP
8270C	bis(2-Ethylhexyl)phthalate	1540 J	5	1665.0	36.1	ug/Kg	01/12/04 DP
8270C	Butylbenzylphthalate	ND	5	1665.0	25.9	ug/Kg	01/12/04 DP
8270C	Chrysene	ND	5	1665.0	38.0	ug/Kg	01/12/04 DP
8270C	Di-n-butylphthalate	ND	5	1665.0	30.7	ug/Kg	01/12/04 DP
8270C	Di-n-octylphthalate	ND	5	1665.0	66.3	ug/Kg	01/12/04 DP
8270C	Dibenz(a,h)anthracene	ND	5	1665.0	32.3	ug/Kg	01/12/04 DP
8270C	Dibenzofuran	ND	5	1665.0	16.4	ug/Kg	01/12/04 DP
8270C	Diethylphthalate	ND	5	1665.0	43.8	ug/Kg	01/12/04 DP
8270C	Dimethylphthalate	ND	5	1665.0	28.6	ug/Kg	01/12/04 DP
8270C	Fluoranthene	ND	5	1665.0	28.2	ug/Kg	01/12/04 DP
8270C	Fluorene	ND	5	1665.0	19.3	ug/Kg	01/12/04 DP
8270C	Hexachlorobenzene	ND	5	1665.0	49.4	ug/Kg	01/12/04 DP
8270C	Hexachlorobutadiene	ND	5	1665.0	40.1	ug/Kg	01/12/04 DP

EQ[T] Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
NL .ot detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489501 **Client Sample ID:** RO-11

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 13:57

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	Hexachlorocyclopentadiene	ND	5	1665.0	48.3	ug/Kg	01/12/04 DP
8270C	Hexachloroethane	ND	5	1665.0	180.8	ug/Kg	01/12/04 DP
8270C	Indeno(1,2,3-c,d)pyrene	ND	5	1665.0	36.1	ug/Kg	01/12/04 DP
8270C	Isophorone	ND	5	1665.0	30.4	ug/Kg	01/12/04 DP
8270C	N-Nitroso-di-n-propylamine	ND	5	1665.0	221.8	ug/Kg	01/12/04 DP
8270C	N-Nitrosodiphenylamine	ND	5	1665.0	29.1	ug/Kg	01/12/04 DP
8270C	Naphthalene	ND	5	1665.0	15.6	ug/Kg	01/12/04 DP
8270C	Nitrobenzene	ND	5	1665.0	60.6	ug/Kg	01/12/04 DP
8270C	Pentachlorophenol	ND	5	8325.0	38.0	ug/Kg	01/12/04 DP
8270C	Phenanthrene	2080	5	1665.0	19.4	ug/Kg	01/12/04 DP
8270C	Phenol	ND	5	1665.0	229.8	ug/Kg	01/12/04 DP
8270C	Pyrene	1830	5	1665.0	28.2	ug/Kg	01/12/04 DP

Surrogates			Units	Control Limits
8270C	2,4,6-Tribromophenol (sur)	96	%	17 - 122
8270C	2-Fluorobiphenyl (sur)	113	%	30 - 115
8270C	2-Fluorophenol (sur)	85	%	25 - 121
8270C	Nitrobenzene-d5 (sur)	91	%	23 - 120
8270C	Phenol-d5 (sur)	95	%	24 - 113
8270C	Terphenyl-d14 (sur)	120	%	18 - 137

8260B	1,1,1,2-Tetrachloroethane	ND	671	3355.0	2.19	ug/Kg	01/12/04 AM
8260B	1,1,1-Trichloroethane	ND	671	3355.0	0.47	ug/Kg	01/12/04 AM
8260B	1,1,2,2-Tetrachloroethane	ND	671	3355.0	0.50	ug/Kg	01/12/04 AM
8260B	1,1,2-Trichloroethane	ND	671	3355.0	0.57	ug/Kg	01/12/04 AM
8260B	1,1,2-Trichlorotrifluoroethane	ND	671	3355.0	0.10	ug/Kg	01/12/04 AM
8260B	1,1-Dichloroethane	ND	671	3355.0	0.74	ug/Kg	01/12/04 AM
8260B	1,1-Dichloroethene	ND	671	3355.0	0.43	ug/Kg	01/12/04 AM
8260B	1,1-Dichloropropene	ND	671	3355.0	1.30	ug/Kg	01/12/04 AM
8260B	1,2,3-Trichlorobenzene	ND	671	3355.0	0.54	ug/Kg	01/12/04 AM
8260B	1,2,3-Trichloropropane	ND	671	3355.0	0.65	ug/Kg	01/12/04 AM
8260B	1,2,4-Trichlorobenzene	4610	671	3355.0	0.54	ug/Kg	01/12/04 AM
8260B	1,2,4-Trimethylbenzene	ND	671	3355.0	0.60	ug/Kg	01/12/04 AM
8260B	1,2-Dibromo-3-chloropropane	ND	671	3355.0	1.92	ug/Kg	01/12/04 AM
8260B	1,2-Dibromoethane	ND	671	3355.0	0.43	ug/Kg	01/12/04 AM
8260B	1,2-Dichlorobenzene	ND	671	3355.0	0.45	ug/Kg	01/12/04 AM
8260B	1,2-Dichloroethane	ND	671	3355.0	0.59	ug/Kg	01/12/04 AM
8260B	1,2-Dichloropropane	ND	671	3355.0	0.58	ug/Kg	01/12/04 AM

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489501 **Client Sample ID:** RO-11

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 13:57

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	1,3,5-Trimethylbenzene	ND	671	3355.0	0.55	ug/Kg	01/12/04 AM
8260B	1,3-Dichlorobenzene	ND	671	3355.0	0.44	ug/Kg	01/12/04 AM
8260B	1,3-Dichloropropane	ND	671	3355.0	0.51	ug/Kg	01/12/04 AM
8260B	1,4-Dichlorobenzene	ND	671	3355.0	0.46	ug/Kg	01/12/04 AM
8260B	1,4-Dioxane	ND	671	134200.0	200	ug/Kg	01/12/04 AM
8260B	1-Chlorohexane	ND	671	3355.0	0.38	ug/Kg	01/12/04 AM
8260B	2,2-Dichloropropane	ND	671	3355.0	0.47	ug/Kg	01/12/04 AM
8260B	2-Butanone (MEK)	ND	671	67100.0	0.98	ug/Kg	01/12/04 AM
8260B	2-Chloroethyl vinyl ether	ND	671	3355.0	0.46	ug/Kg	01/12/04 AM
8260B	2-Chlorotoluene	ND	671	3355.0	0.92	ug/Kg	01/12/04 AM
8260B	2-Hexanone	ND	671	3355.0	4.7	ug/Kg	01/12/04 AM
8260B	4-Chlorotoluene	ND	671	3355.0	0.52	ug/Kg	01/12/04 AM
8260B	4-Methyl -2- Pentanone	ND	671	3355.0	0.49	ug/Kg	01/12/04 AM
8260B	Acetone	ND	671	33550.0	3.81	ug/Kg	01/12/04 AM
8260B	Acetonitrile	ND	671	3355.0	0.7	ug/Kg	01/12/04 AM
8260B	Acrolein	ND	671	134200.0	172	ug/Kg	01/12/04 AM
8260B	Acrylonitrile	ND	671	3355.0	1.3	ug/Kg	01/12/04 AM
8260B	Allyl chloride	ND	671	3355.0	0.4	ug/Kg	01/12/04 AM
8260B	Benzene	ND	671	3355.0	0.39	ug/Kg	01/12/04 AM
8260B	Benzyl chloride	ND	671	3355.0	0.38	ug/Kg	01/12/04 AM
8260B	Bromobenzene	ND	671	3355.0	0.65	ug/Kg	01/12/04 AM
8260B	Bromochloromethane	ND	671	3355.0	0.36	ug/Kg	01/12/04 AM
8260B	Bromodichloromethane	ND	671	3355.0	0.48	ug/Kg	01/12/04 AM
8260B	Bromoform	ND	671	3355.0	0.53	ug/Kg	01/12/04 AM
8260B	Bromomethane	ND	671	3355.0	2.07	ug/Kg	01/12/04 AM
8260B	Carbon Disulfide	ND	671	3355.0	0.8	ug/Kg	01/12/04 AM
8260B	Carbon tetrachloride	ND	671	3355.0	0.40	ug/Kg	01/12/04 AM
8260B	Chlorobenzene	ND	671	3355.0	0.42	ug/Kg	01/12/04 AM
8260B	Chloroethane	ND	671	3355.0	1.1	ug/Kg	01/12/04 AM
8260B	Chloroform	ND	671	3355.0	0.46	ug/Kg	01/12/04 AM
8260B	Chloromethane	ND	671	3355.0	0.25	ug/Kg	01/12/04 AM
8260B	cis-1,2-Dichloroethene	ND	671	3355.0	0.79	ug/Kg	01/12/04 AM
8260B	cis-1,3-Dichloropropene	ND	671	3355.0	0.38	ug/Kg	01/12/04 AM
8260B	cis-1,4-Dichloro-2-butene	ND	671	3355.0	0.59	ug/Kg	01/12/04 AM
8260B	Dibromochloromethane	ND	671	3355.0	0.44	ug/Kg	01/12/04 AM
8260B	Dibromomethane	ND	671	3355.0	0.46	ug/Kg	01/12/04 AM
8260B	Dichlorodifluoromethane	ND	671	3355.0	0.16	ug/Kg	01/12/04 AM
8260B	Ethyl benzene	ND	671	3355.0	0.41	ug/Kg	01/12/04 AM
8260B	Ethyl methacrylate	ND	671	3355.0	1.8	ug/Kg	01/12/04 AM

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489501 **Client Sample ID:** RO-11

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 13:57

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Hexachlorobutadiene	ND	671	3355.0	0.29	ug/Kg	01/12/04 AM
8260B	Iodomethane	ND	671	3355.0	0.6	ug/Kg	01/12/04 AM
8260B	Isopropylbenzene (Cumene)	ND	671	3355.0	0.38	ug/Kg	01/12/04 AM
8260B	m and p-Xylene	ND	671	3355.0	0.67	ug/Kg	01/12/04 AM
8260B	Methacrylonitrile	ND	671	3355.0	2.70	ug/Kg	01/12/04 AM
8260B	Methyl methacrylate	ND	671	3355.0	0.21	ug/Kg	01/12/04 AM
8260B	Methyl-tert-butylether (MTBE)	ND	671	3355.0	0.51	ug/Kg	01/12/04 AM
8260B	Methylene chloride	ND	671	3355.0	0.91	ug/Kg	01/12/04 AM
8260B	n-Butylbenzene	ND	671	3355.0	0.38	ug/Kg	01/12/04 AM
8260B	n-Propylbenzene	ND	671	3355.0	0.32	ug/Kg	01/12/04 AM
8260B	Naphthalene	ND	671	3355.0	0.60	ug/Kg	01/12/04 AM
8260B	o-Xylene	ND	671	3355.0	0.35	ug/Kg	01/12/04 AM
8260B	p-Isopropyltoluene	ND	671	3355.0	0.32	ug/Kg	01/12/04 AM
8260B	Pentachloroethane	ND	671	3355.0	0.6	ug/Kg	01/12/04 AM
8260B	Propionitrile	ND	671	3355.0	5	ug/Kg	01/12/04 AM
8260B	sec-Butylbenzene	ND	671	3355.0	0.31	ug/Kg	01/12/04 AM
8260B	Styrene	ND	671	3355.0	0.37	ug/Kg	01/12/04 AM
8260B	tert-Butylbenzene	ND	671	3355.0	0.41	ug/Kg	01/12/04 AM
8260B	Tetrachloroethene	ND	671	3355.0	0.49	ug/Kg	01/12/04 AM
8260B	Toluene	ND	671	3355.0	0.42	ug/Kg	01/12/04 AM
8260B	trans-1,2-Dichloroethene	ND	671	3355.0	0.48	ug/Kg	01/12/04 AM
8260B	trans-1,3-Dichloropropene	ND	671	3355.0	0.44	ug/Kg	01/12/04 AM
8260B	trans-1,4-Dichloro-2-butene	ND	671	3355.0	2.35	ug/Kg	01/12/04 AM
8260B	Trichloroethene	ND	671	3355.0	0.43	ug/Kg	01/12/04 AM
8260B	Trichlorofluoromethane	ND	671	3355.0	0.40	ug/Kg	01/12/04 AM
8260B	Vinyl acetate	ND	671	33550.0	10.2	ug/Kg	01/12/04 AM
8260B	Vinyl chloride	ND	671	3355.0	0.47	ug/Kg	01/12/04 AM
8260B	Xylenes, total	ND	671	3355.0	0.8	ug/Kg	01/12/04 AM

Surrogates			Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	93	%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	99	%	70 - 135
8260B	Surr3 - Toluene-d8	103	%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	104	%	70 - 135

8082	PCB-1016	ND	50	1.5	0.003	mg/Kg	01/16/04 RB
8082	PCB-1221	ND	50	3.0	0.006	mg/Kg	01/16/04 RB
8082	PCB-1232	ND	50	2.5	0.004	mg/Kg	01/16/04 RB

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489501 **Client Sample ID**: RO-11

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 13:57

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1242	ND	50	2.5	0.002	mg/Kg	01/16/04 RB
8082	PCB-1248	ND	50	4.0	0.008	mg/Kg	01/16/04 RB
8082	PCB-1254	2.9	50	1.5	0.001	mg/Kg	01/16/04 RB
8082	PCB-1260	27	50	1.5	0.002	mg/Kg	01/16/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	97	%	50 - 135

EQI – Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
NL ɔt detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489502 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Antimony	ND	1	3.00	0.62	mg/Kg	01/13/04 KN
6010B	Arsenic	ND	1	1.00	0.72	mg/Kg	01/13/04 KN
6010B	Barium	ND	1	1.00	0.05	mg/Kg	01/13/04 KN
6010B	Beryllium	ND	1	0.50	0.16	mg/Kg	01/13/04 KN
6010B	Cadmium	ND	1	0.50	0.06	mg/Kg	01/13/04 KN
6010B	Chromium	ND	1	1.00	0.14	mg/Kg	01/13/04 KN
6010B	Cobalt	ND	1	0.50	0.06	mg/Kg	01/13/04 KN
6010B	Copper	ND	1	1.00	0.10	mg/Kg	01/13/04 KN
6010B	Lead	ND	1	0.50	0.16	mg/Kg	01/13/04 KN
6010B	Molybdenum	ND	1	1.00	0.38	mg/Kg	01/13/04 KN
6010B	Nickel	ND	1	1.50	0.29	mg/Kg	01/13/04 KN
6010B	Selenium	ND	1	1.00	0.55	mg/Kg	01/13/04 KN
6010B	Silver	ND	1	0.50	0.12	mg/Kg	01/13/04 KN
6010B	Thallium	ND	1	1.00	0.33	mg/Kg	01/13/04 KN
6010B	Vanadium	ND	1	0.50	0.17	mg/Kg	01/13/04 KN
6010B	Zinc	ND	1	5.00	0.07	mg/Kg	01/13/04 KN
7471A	Mercury	ND	1	0.14	0.02	mg/Kg	01/13/04 MDJ
8270C	1,2,4-Trichlorobenzene	ND	1	333	32.1	ug/Kg	01/12/04 DP
8270C	1,2-Dichlorobenzene	ND	1	333	69.1	ug/Kg	01/12/04 DP
8270C	1,3-Dichlorobenzene	ND	1	333	133.5	ug/Kg	01/12/04 DP
8270C	1,4-Dichlorobenzene	ND	1	333	58.0	ug/Kg	01/12/04 DP
8270C	2,4,5-Trichlorophenol	ND	1	1665	33.6	ug/Kg	01/12/04 DP
8270C	2,4,6-Trichlorophenol	ND	1	1665	31.9	ug/Kg	01/12/04 DP
8270C	2,4-Dichlorophenol	ND	1	333	35.3	ug/Kg	01/12/04 DP
8270C	2,4-Dimethylphenol	ND	1	333	37.1	ug/Kg	01/12/04 DP
8270C	2,4-Dinitrophenol	ND	1	1665	60.5	ug/Kg	01/12/04 DP
8270C	2,4-Dinitrotoluene	ND	1	333	58.4	ug/Kg	01/12/04 DP
8270C	2,6-Dinitrotoluene	ND	1	333	50.4	ug/Kg	01/12/04 DP
8270C	2-Chloronaphthalene	ND	1	333	18.2	ug/Kg	01/12/04 DP
8270C	2-Chlorophenol	ND	1	333	230.8	ug/Kg	01/12/04 DP
8270C	2-Methylnaphthalene	ND	1	333	31.6	ug/Kg	01/12/04 DP
8270C	2-Methylphenol	ND	1	333	194.3	ug/Kg	01/12/04 DP
8270C	2-Nitroaniline	ND	1	1665	30.8	ug/Kg	01/12/04 DP

EQI Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND ot detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489502 **Client Sample ID:** Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	2-Nitrophenol	ND	1	333	63.4	ug/Kg	01/12/04 DP
8270C	3,3-Dichlorobenzidine	ND	1	333	52.3	ug/Kg	01/12/04 DP
8270C	3-Methylphenol	ND	1	333	211.4	ug/Kg	01/12/04 DP
8270C	3-Nitroaniline	ND	1	1665	31.1	ug/Kg	01/12/04 DP
8270C	4,6-Dinitro-2-methylphenol	ND	1	1665	44.9	ug/Kg	01/12/04 DP
8270C	4-Bromophenyl-phenylether	ND	1	333	29.6	ug/Kg	01/12/04 DP
8270C	4-Chloro-3-methylphenol	ND	1	333	48.8	ug/Kg	01/12/04 DP
8270C	4-Chloroaniline	ND	1	333	19.2	ug/Kg	01/12/04 DP
8270C	4-Chlorophenyl-phenylether	ND	1	333	38.1	ug/Kg	01/12/04 DP
8270C	4-Methylphenol	ND	1	333	211.4	ug/Kg	01/12/04 DP
8270C	4-Nitroaniline	ND	1	1665	134.9	ug/Kg	01/12/04 DP
8270C	4-Nitrophenol	ND	1	1665	84.8	ug/Kg	01/12/04 DP
8270C	Acenaphthene	ND	1	333	17.4	ug/Kg	01/12/04 DP
8270C	Acenaphthylene	ND	1	333	14.8	ug/Kg	01/12/04 DP
8270C	Anthracene	ND	1	333	9.9	ug/Kg	01/12/04 DP
8270C	Benzidine	ND	1	333	260	ug/Kg	01/12/04 DP
8270C	Benzo(a)anthracene	ND	1	333	26.2	ug/Kg	01/12/04 DP
8270C	Benzo(a)pyrene	ND	1	333	20.0	ug/Kg	01/12/04 DP
8270C	Benzo(b)fluoranthene	ND	1	333	29.9	ug/Kg	01/12/04 DP
8270C	Benzo(g,h,i)perylene	ND	1	333	13.9	ug/Kg	01/12/04 DP
8270C	Benzo(k)fluoranthene	ND	1	333	23.7	ug/Kg	01/12/04 DP
8270C	Benzoic Acid	ND	1	333	70.0	ug/Kg	01/12/04 DP
8270C	Benzyl alcohol	ND	1	333	197.0	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroethoxy)methane	ND	1	333	22.6	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroethyl)ether	ND	1	333	291.5	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroisopropyl) ether	ND	1	333	275.3	ug/Kg	01/12/04 DP
8270C	bis(2-Ethylhexyl)phthalate	ND	1	333	36.1	ug/Kg	01/12/04 DP
8270C	Butylbenzylphthalate	ND	1	333	25.9	ug/Kg	01/12/04 DP
8270C	Chrysene	ND	1	333	38.0	ug/Kg	01/12/04 DP
8270C	Di-n-butylphthalate	ND	1	333	30.7	ug/Kg	01/12/04 DP
8270C	Di-n-octylphthalate	ND	1	333	66.3	ug/Kg	01/12/04 DP
8270C	Dibenz(a,h)anthracene	ND	1	333	32.3	ug/Kg	01/12/04 DP
8270C	Dibenzofuran	ND	1	333	16.4	ug/Kg	01/12/04 DP
8270C	Diethylphthalate	ND	1	333	43.8	ug/Kg	01/12/04 DP
8270C	Dimethylphthalate	ND	1	333	28.6	ug/Kg	01/12/04 DP
8270C	Fluoranthene	ND	1	333	28.2	ug/Kg	01/12/04 DP
8270C	Fluorene	ND	1	333	19.3	ug/Kg	01/12/04 DP
8270C	Hexachlorobenzene	ND	1	333	49.4	ug/Kg	01/12/04 DP
8270C	Hexachlorobutadiene	ND	1	333	40.1	ug/Kg	01/12/04 DP

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489502 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	Hexachlorocyclopentadiene	ND	1	333	48.3	ug/Kg	01/12/04 DP
8270C	Hexachloroethane	ND	1	333	180.8	ug/Kg	01/12/04 DP
8270C	Indeno(1,2,3-c,d)pyrene	ND	1	333	36.1	ug/Kg	01/12/04 DP
8270C	Isophorone	ND	1	333	30.4	ug/Kg	01/12/04 DP
8270C	N-Nitroso-di-n-propylamine	ND	1	333	221.8	ug/Kg	01/12/04 DP
8270C	N-Nitrosodiphenylamine	ND	1	333	29.1	ug/Kg	01/12/04 DP
8270C	Naphthalene	ND	1	333	15.6	ug/Kg	01/12/04 DP
8270C	Nitrobenzene	ND	1	333	60.6	ug/Kg	01/12/04 DP
8270C	Pentachlorophenol	ND	1	1665	38.0	ug/Kg	01/12/04 DP
8270C	Phenanthrene	ND	1	333	19.4	ug/Kg	01/12/04 DP
8270C	Phenol	ND	1	333	229.8	ug/Kg	01/12/04 DP
8270C	Pyrene	ND	1	333	28.2	ug/Kg	01/12/04 DP

Surrogates			Units	Control Limits
8270C	2,4,6-Tribromophenol (sur)	37	%	17 - 122
8270C	2-Fluorobiphenyl (sur)	47	%	30 - 115
8270C	2-Fluorophenol (sur)	44	%	25 - 121
8270C	Nitrobenzene-d5 (sur)	43	%	23 - 120
8270C	Phenol-d5 (sur)	54	%	24 - 113
8270C	Terphenyl-d14 (sur)	79	%	18 - 137

8260B	1,1,1,2-Tetrachloroethane	ND	1	5	2.19	ug/Kg	01/12/04 AM
8260B	1,1,1-Trichloroethane	ND	1	5	0.47	ug/Kg	01/12/04 AM
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.50	ug/Kg	01/12/04 AM
8260B	1,1,2-Trichloroethane	ND	1	5	0.57	ug/Kg	01/12/04 AM
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	0.10	ug/Kg	01/12/04 AM
8260B	1,1-Dichloroethane	ND	1	5	0.74	ug/Kg	01/12/04 AM
8260B	1,1-Dichloroethene	ND	1	5	0.43	ug/Kg	01/12/04 AM
8260B	1,1-Dichloropropene	ND	1	5	1.30	ug/Kg	01/12/04 AM
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.54	ug/Kg	01/12/04 AM
8260B	1,2,3-Trichloropropane	ND	1	5	0.65	ug/Kg	01/12/04 AM
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/Kg	01/12/04 AM
8260B	1,2,4-Trimethylbenzene	ND	1	5	0.60	ug/Kg	01/12/04 AM
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	1.92	ug/Kg	01/12/04 AM
8260B	1,2-Dibromoethane	ND	1	5	0.43	ug/Kg	01/12/04 AM
8260B	1,2-Dichlorobenzene	ND	1	5	0.45	ug/Kg	01/12/04 AM
8260B	1,2-Dichloroethane	ND	1	5	0.59	ug/Kg	01/12/04 AM
8260B	1,2-Dichloropropane	ND	1	5	0.58	ug/Kg	01/12/04 AM

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489502 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	1,3,5-Trimethylbenzene	ND	1	5	0.55	ug/Kg	01/12/04 AM
8260B	1,3-Dichlorobenzene	ND	1	5	0.44	ug/Kg	01/12/04 AM
8260B	1,3-Dichloropropane	ND	1	5	0.51	ug/Kg	01/12/04 AM
8260B	1,4-Dichlorobenzene	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	1,4-Dioxane	ND	1	200	200	ug/Kg	01/12/04 AM
8260B	1-Chlorohexane	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	2,2-Dichloropropane	ND	1	5	0.47	ug/Kg	01/12/04 AM
8260B	2-Butanone (MEK)	ND	1	100	0.98	ug/Kg	01/12/04 AM
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	2-Chlorotoluene	ND	1	5	0.92	ug/Kg	01/12/04 AM
8260B	2-Hexanone	ND	1	5	4.7	ug/Kg	01/12/04 AM
8260B	4-Chlorotoluene	ND	1	5	0.52	ug/Kg	01/12/04 AM
8260B	4-Methyl -2- Pentanone	ND	1	5	0.49	ug/Kg	01/12/04 AM
8260B	Acetone	ND	1	50	3.81	ug/Kg	01/12/04 AM
8260B	Acetonitrile	ND	1	5	0.7	ug/Kg	01/12/04 AM
8260B	Acrolein	ND	1	200	172	ug/Kg	01/12/04 AM
8260B	Acrylonitrile	ND	1	5	1.3	ug/Kg	01/12/04 AM
8260B	Allyl chloride	ND	1	5	0.4	ug/Kg	01/12/04 AM
8260B	Benzene	ND	1	5	0.39	ug/Kg	01/12/04 AM
8260B	Benzyl chloride	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	Bromobenzene	ND	1	5	0.65	ug/Kg	01/12/04 AM
8260B	Bromochloromethane	ND	1	5	0.36	ug/Kg	01/12/04 AM
8260B	Bromodichloromethane	ND	1	5	0.48	ug/Kg	01/12/04 AM
8260B	Bromoform	ND	1	5	0.53	ug/Kg	01/12/04 AM
8260B	Bromomethane	ND	1	5	2.07	ug/Kg	01/12/04 AM
8260B	Carbon Disulfide	ND	1	5	0.8	ug/Kg	01/12/04 AM
8260B	Carbon tetrachloride	ND	1	5	0.40	ug/Kg	01/12/04 AM
8260B	Chlorobenzene	ND	1	5	0.42	ug/Kg	01/12/04 AM
8260B	Chloroethane	ND	1	5	1.1	ug/Kg	01/12/04 AM
8260B	Chloroform	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	Chloromethane	ND	1	5	0.25	ug/Kg	01/12/04 AM
8260B	cis-1,2-Dichloroethene	ND	1	5	0.79	ug/Kg	01/12/04 AM
8260B	cis-1,3-Dichloropropene	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	cis-1,4-Dichloro-2-butene	ND	1	5	0.59	ug/Kg	01/12/04 AM
8260B	Dibromochloromethane	ND	1	5	0.44	ug/Kg	01/12/04 AM
8260B	Dibromomethane	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	Dichlorodifluoromethane	ND	1	5	0.16	ug/Kg	01/12/04 AM
8260B	Ethyl benzene	ND	1	5	0.41	ug/Kg	01/12/04 AM
8260B	Ethyl methacrylate	ND	1	5	1.8	ug/Kg	01/12/04 AM

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489502 **Client Sample ID:** Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Hexachlorobutadiene	ND	1	5	0.29	ug/Kg	01/12/04 AM
8260B	Iodomethane	ND	1	5	0.6	ug/Kg	01/12/04 AM
8260B	Isopropylbenzene (Cumene)	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	m and p-Xylene	ND	1	5	0.67	ug/Kg	01/12/04 AM
8260B	Methacrylonitrile	ND	1	5	2.70	ug/Kg	01/12/04 AM
8260B	Methyl methacrylate	ND	1	5	0.21	ug/Kg	01/12/04 AM
8260B	Methyl-tert-butylether (MTBE)	ND	1	5	0.51	ug/Kg	01/12/04 AM
8260B	Methylene chloride	ND	1	5	0.91	ug/Kg	01/12/04 AM
8260B	n-Butylbenzene	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	n-Propylbenzene	ND	1	5	0.32	ug/Kg	01/12/04 AM
8260B	Naphthalene	ND	1	5	0.60	ug/Kg	01/12/04 AM
8260B	o-Xylene	ND	1	5	0.35	ug/Kg	01/12/04 AM
8260B	p-Isopropyltoluene	ND	1	5	0.32	ug/Kg	01/12/04 AM
8260B	Pentachloroethane	ND	1	5	0.6	ug/Kg	01/12/04 AM
8260B	Propionitrile	ND	1	5	5	ug/Kg	01/12/04 AM
8260B	sec-Butylbenzene	ND	1	5	0.31	ug/Kg	01/12/04 AM
8260B	Styrene	ND	1	5	0.37	ug/Kg	01/12/04 AM
8260B	tert-Butylbenzene	ND	1	5	0.41	ug/Kg	01/12/04 AM
8260B	Tetrachloroethene	ND	1	5	0.49	ug/Kg	01/12/04 AM
8260B	Toluene	ND	1	5	0.42	ug/Kg	01/12/04 AM
8260B	trans-1,2-Dichloroethene	ND	1	5	0.48	ug/Kg	01/12/04 AM
8260B	trans-1,3-Dichloropropene	ND	1	5	0.44	ug/Kg	01/12/04 AM
8260B	trans-1,4-Dichloro-2-butene	ND	1	5	2.35	ug/Kg	01/12/04 AM
8260B	Trichloroethene	ND	1	5	0.43	ug/Kg	01/12/04 AM
8260B	Trichlorofluoromethane	ND	1	5	0.40	ug/Kg	01/12/04 AM
8260B	Vinyl acetate	ND	1	50	10.2	ug/Kg	01/12/04 AM
8260B	Vinyl chloride	ND	1	5	0.47	ug/Kg	01/12/04 AM
8260B	Xylenes, total	ND	1	5	0.8	ug/Kg	01/12/04 AM

Surrogates			Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	97	%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	102	%	70 - 135
8260B	Surr3 - Toluene-d8	106	%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	102	%	70 - 135

8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/14/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/14/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/14/04 RB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489502 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/14/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/14/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/14/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/14/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	100	%	50 - 135

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 122545-489494 QC# 011304SO1

Matrix: SOLID

Prep. Date: 01/13/04

Analysis Date: 01/13/04

Lab ID#'s in Batch: LR 122545, 122546, 122547, 122548, 122549, 122550, 122551, 122594, 122606

REPORTING UNITS = mg/Kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Arsenic	6010	8.31		94	95	94	92	91	1
Selenium	6010	1.00	U	94	84	83	89	88	1
Thallium	6010	1.00	U	94	82	81	87	86	1
Lead	6010	93.40		94	184	184	96	96	0
Antimony	6010	3.00	U	94	92	91	98	97	1
Barium	6010	185.00		94	272	268	93	88	1
Beryllium	6010	0.50	U	94	90	88	96	94	2
Cadmium	6010	1.00		94	91	91	96	96	0
Chromium	6010	17.40		94	107	105	95	93	2
Cobalt	6010	6.53		94	97	96	96	95	1
Copper	6010	27.40		94	119	116	97	94	3
Molybdenum	6010	2.58		94	104	100	108	104	4
Nickel	6010	12.40		94	97	96	90	89	1
Silver	6010	0.69		47	44	43	92	90	2
Vanadium	6010	25.20		94	118	116	99	97	2
Zinc	6010	131.00		94	215	216	89	90	0

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - 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 = 75 -125
RPD LIMITS = 20

ASSOCIATED LABORATORIES

LCS/MB REPORT FORM

LCS Source(s) : QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank MB	Method Blank ND
Silver	6010	114	100	114	80%	120%	0.50	U
Arsenic	6010	176	200	88	80%	120%	0.50	U
Barium	6010	200	200	100	80%	120%	1.00	U
Beryllium	6010	209	200	105	80%	120%	0.50	U
Cadmium	6010	212	200	106	80%	120%	0.50	U
Cobalt	6010	204	200	102	80%	120%	0.50	U
Chromium	6010	205	200	103	80%	120%	1.00	U
Copper	6010	200	200	100	80%	120%	1.00	U
Molybdenum	6010	209	200	105	80%	120%	1.00	U
Nickel	6010	205	200	103	80%	120%	1.50	U
Lead	6010	198	200	99	80%	120%	0.50	U
Antimony	6010	209	200	105	80%	120%	3.00	U
Selenium	6010	199	200	100	80%	120%	1.00	U
Thallium	6010	198	200	99	80%	120%	1.00	U
Vanadium	6010	205	200	103	80%	120%	1.00	U
Zinc	6010	213	200	107	80%	120%	5.00	U

*Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True*

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Method Blank; ND = " U " for Non- Detected

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 122546-489497

Matrix: SOIL

Prep. Date: 01/13/04

Analysis Date: 01/13/04

ID#'s in Batch: LR 122546, 122545, 122547, 122548, 122549, 122550, 122551, 122692, 122693

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = mg/Kg

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
MERCURY	245.5 / 7471A	0.32	0.75	1.13	1.15	108	111	2

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	0.85	0.80	106	80%	120%

Value = Preparation Blank Value; ND = Not-Detected
LCS Result = Lab Control Sample Result
True = True Value of LCS
L.Limit / H.Limit = LCS Control Limits

ASSOCIATED LABORATORIES

LCS REPORT FORM - METHOD 8260 / 624 / 524.2

QC Sample: LCS/LCSD - Soil Samples

Ar is Date: 01/12/04 4:20 PM

Applies to: LR 122545, 122546, 122547, 122548, 122549, 122550

Reporting Units = ug/Kg

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	LCS Spk. Dup	%Rec LCS	%Rec LCS D	RPD	QC Limits RPD	QC Limits %REC
1,1-Dichloroethene	ND	50	50.48	47.57	101	95	6	22	59-172
MTBE	ND	50	47.71	47.34	95	95	1	24	62-137
Benzene	ND	50	52.44	50.99	105	102	3	24	62-137
Trichloroethene	ND	50	54.60	55.57	109	111	2	21	66-142
Toluene	ND	50	55.25	56.74	111	113	3	21	59-139
Chlorobenzene	ND	50	53.64	55.81	107	112	4	21	60-133

Method Blank = All ND

SURROGATE (QC Limits : 70-135)

Compound	MB	LCS	LCSD
DBFM	97	99	98
1,2-DCA	102	92	88
Tol-d8	106	100	103
p-BFB	102	98	97

ASSOCIATED LABORATORIES
QA REPORT FORM

Method : EPA 8270/625

Prep. Method : 3550B

QC Sample: MS/MSD 122547-499

Matrix: SOLID

Date Extracted : 01/12/04

Date Analyzed : 01/12/04

Applies to: LR 122545, 122546, 122547, 122548, 122549, 122550, 122551

REPORTING UNITS = ug/Kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Test	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup.	%Rec MS	%Rec MSD	RPD	QC Limits RPD	QC Limits %REC
Phenol	ND	50	40	45	80	90	12	42	6-117
2-Chorophenol	ND	50	40	49	80	98	20	35	28-100
1,4-Dichlorobenzene	ND	50	35	42	70	84	18	36	39-92
n-Nitroso-di-n-propylamine	ND	50	52	54	104	108	4	42	5-149
1,2,4-Trichlorobenzene	ND	50	41	48	82	96	16	41	41-97
4-Chloro-3-methylphenol	ND	50	41	46	82	92	11	37	26-117
Acenaphthene *	ND	50	44	54	88	108	20	41	46-113
4-Nitrophenol	ND	50	39	44	78	88	12	73	53-143
2,4-Dinitrotoluene	ND	50	17	16	34	32	6	43	82-125
Pentachlorophenol	ND	50	43	45	86	90	5	52	25-187
Pyrene	ND	50	59	64	118	128	8	36	47-136

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	%Rec LCS	QC LIMIT %REC
Phenol	ND	50	27	54	17-99
2-Clorophenol	ND	50	27	54	28-88
1,4-Dichlorobenzene	ND	50	27	54	33-89
n-Nitroso-di-n-propylamine	ND	50	31	62	9-130
1,2,4-Trichlorobenzene	ND	50	26	52	25-92
4-Cloro-3-methylphenol	ND	50	26	52	27-96
Acenaphthene	ND	50	30	60	31-101
4-Nitrophenol	ND	50	21	42	8-123
2,4-Dinitrotoluene	ND	50	37	74	27-139
Pentachlorophenol	ND	50	16	32	0-151
Pyrene	ND	50	43	86	34-127

Method Blank = All ND

***MS/MSD or RPD is outside lilmits. However, LCS and MB conformed for all spike compounds.**

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 122545-489494 QC# 011304SO1

atrix: SOLID

Prep. Date: 01/13/04

Analysis Date: 01/13/04

Lab ID#'s in Batch: LR 122545, 122546, 122547, 122548, 122549, 122550, 122551, 122594, 122606

REPORTING UNITS = mg/Kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Arsenic	6010	8.31		94	95	94	92	91	1
Selenium	6010	1.00	U	94	84	83	89	88	1
Thallium	6010	1.00	U	94	82	81	87	86	1
Lead	6010	93.40		94	184	184	96	96	0
Antimony	6010	3.00	U	94	92	91	98	97	1
rium	6010	185.00		94	272	268	93	88	1
Beryllium	6010	0.50	U	94	90	88	96	94	2
Cadmium	6010	1.00		94	91	91	96	96	0
Chromium	6010	17.40		94	107	105	95	93	2
Cobalt	6010	6.53		94	97	96	96	95	1
Copper	6010	27.40		94	119	116	97	94	3
Molybdenum	6010	2.58		94	104	100	108	104	4
Nickel	6010	12.40		94	97	96	90	89	1
Silver	6010	0.69		47	44	43	92	90	2
Vanadium	6010	25.20		94	118	116	99	97	2
Zinc	6010	131.00		94	215	216	89	90	0

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - 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 = 75 -125
RPD LIMITS = 20

ASSOCIATED LABORATORIES

LCS/MB REPORT FORM

LCS Source(s) : QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank MB	Method Blank ND
Silver	6010	114	100	114	80%	120%	0.50	U
Arsenic	6010	176	200	88	80%	120%	0.50	U
Barium	6010	200	200	100	80%	120%	1.00	U
Beryllium	6010	209	200	105	80%	120%	0.50	U
Cadmium	6010	212	200	106	80%	120%	0.50	U
Cobalt	6010	204	200	102	80%	120%	0.50	U
Chromium	6010	205	200	103	80%	120%	1.00	U
Copper	6010	200	200	100	80%	120%	1.00	U
Molybdenum	6010	209	200	105	80%	120%	1.00	U
Nickel	6010	205	200	103	80%	120%	1.50	U
Lead	6010	198	200	99	80%	120%	0.50	U
Antimony	6010	209	200	105	80%	120%	3.00	U
Selenium	6010	199	200	100	80%	120%	1.00	U
Thallium	6010	198	200	99	80%	120%	1.00	U
Vanadium	6010	205	200	103	80%	120%	1.00	U
Zinc	6010	213	200	107	80%	120%	5.00	U

*Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True*

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Method Blank; ND = " U " for Non- Detected

ASSOCIATED LABORATORIES
QA REPORT FORM

Determinative Method : EPA 8082 Preparative Method: EPA 3545

QC Sample: 122461-489206

Matrix: SOLID

Analysis Date: 1/15/04

Batch Date: 1/12/04 (pcb 011204s)

Applies to: LR 122460, LR 122461, LR 122545, LR 122546, LR 122547, LR 122548, LR 122549, LR 122550 and LR 122551

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULTS
REPORTING UNITS = mg/Kg

Test	Sample Result	Spike Added	Spike Recovered		% Rec		RPD	QC Limits	
			MS	MSD	MS	MSD		RPD	% Rec
Aroclor 1260	ND	0.500	0.494	0.515	99	103	4	35	50-125

ND = Not Detected
% Rec - MS & MSD = Percent Recovery from Matrix Spike & Matrix Spike Duplicate
RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate recoveries

LAB CONTROL SPIKE RECOVERY / METHOD BLANK
REPORTING UNITS = mg/Kg

Test	Spike Added	Spike Recovered	% Rec LCS	QC Limit
Aroclor 1260	0.500	0.530	106	70-130

Method Blank = All ND
% Rec - LCS = Percent Recovery from Lab Control Spike

CHAIN OF CUSTODY RECORD

Sheet 1 of 1.

MEREDITH & ASSOCIATES, INC.

SCIENTIFIC and REGULATORY CONSULTANTS

9841 Airport Blvd., Suite 1010 Los Angeles, California 90045-5409
Phone (310) 670-9221 Fax: (310) 670-9512

id 45, 122546, 122547, 122548
122549, 122550, 122551

CONTACT PERSON(S): LYNN EDWARD

CLIENT: L. MARMOL PROJECT NO.: 2003-123

SITE NAME: DICO OIL

SITE LOCATION: SIGNAL HILL

SAMPLING LOCATION: ROLL OFF BINS

SAMPLING INFORMATION:

ANALYSIS REQUESTED

TURNAROUND TIME: NORMAL / RUSH

COMMENTS (Precautions/Hazards/ Field Conditions)

SAMPLE ID#	LAB ID#	DATE	TIME	SAMPLE TYPE	# of CONTAINERS	PRESERVATION	OTHER	VOCs (5035/8260B)	SVOCs (8270C)	PCBs (8082)	METALS (6010/7000)	NOTES
RO-8		1/8/04	1319	SOIL	7	ICE	✓	X	X	X	X	COMPOSITE 3-40 ZIPLOCS
RO-9 (LAB DUP)		1/8/04	1335	SOIL	11	ICE	✓	X	X	X	X	MAKE LAB DUP FROM COMPOSITE
RO-10		1/8/04	1345	SOIL	7	ICE	✓	X	X	X	X	
RO-11		1/8/04	1357	SOIL	7	ICE	✓	X	X	X	X	
RO-12		1/8/04	1406	SOIL	7	ICE	✓	X	X	X	X	
RO-13		1/8/04	1413	SOIL	7	ICE	✓	X	X	X	X	
RO-14		1/8/04	1425	DEBRIS	1	ICE	NO		X	X	X	

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
COLLECTED by	Roger McCracken	R. MCCRACKEN	M&A	1/8/04	AM PM
RELEASED by	Roger McCracken	R. MCCRACKEN	M&A	1/8/04	AM PM
RELEASED to	Tom Vinsonhaler	TOM VINSONHALER	ASSOCIATED LAB	1/8/04	3:35 AM PM
RELEASED to					AM PM
RECEIVED by LABORATORY	[illegible]	DUONG W	Associated Lab	1/8	5:30 AM PM

ASSOCIATED LABORATORIES
36 North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Meredith & Associates, Inc (10577)
ATTN: Keith Farrell
9841 Airport Blvd.
Suite 1010
Los Angeles, CA 90045-5409

LAB REQUEST 123695
REPORTED 02/03/2004
RECEIVED 01/29/2004

PROJECT #2003-123

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.	Client Sample Identification
494378	RO-11
494379	RO-12
494380	RO-13
494382	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.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 494378 **Client Sample ID:** RO-11

Matrix: SOLID

Date Sampled: 01/29/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
1030	Ignitability of Solids	Passes	1			P/F	02/02/04 HK
TPH-DHS	Gasoline	11	1	3	0.401	mg/Kg	01/30/04 LT
Surrogates						**Units**	**Control Limits**
TPH-DHS	a,a,a-Trifluorotoluene	95				%	55 - 200

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494379 **Client Sample ID:** RO-12

Matrix: SOLID

Date Sampled: 01/29/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
1030	Ignitability of Solids	Passes	1			P/F	02/02/04 HK
TPH-DHS	Gasoline	121	25	75.0	0.401	mg/Kg	01/30/04 LT
Surrogates						**Units**	**Control Limits**
TPH-DHS	a,a,a-Trifluorotoluene	102				%	55 - 200

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494380 **Client Sample ID:** RO-13

Matrix: SOLID

Date Sampled: 01/29/2004

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
1030	Ignitability of Solids	Passes	1			P/F	02/02/04 HK
TPH-DHS	Gasoline	61 J	25	75.0	0.401	mg/Kg	01/30/04 LT

Surrogates			Units	Control Limits
TPH-DHS	a,a,a-Trifluorotoluene	110	%	55 - 200

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 494382 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
TPH-DHS	Gasoline	ND	1	3	0.401	mg/Kg	01/30/04 LT
Surrogates						**Units**	**Control Limits**
TPH-DHS	a,a,a-Trifluorotoluene	107				%	55 - 200

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

ASSOCIATED LABORATORIES
LCS REPORT FORM

QC Sample: LCS / LCSD

Matrix: SOLID

Prep. Date: 01/30/04

Analysis Date: 01/30/04

ID#'s in Batch: LR 123695

Reporting Units = mg/Kg

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

			PREP BLK					
			Value	Result	True	%Rec	L.Limit	H.Limit
Test	Method	LCS	ND	4.6	5	92	80%	120%
TPH	8015M-G	LCSD	ND	4.7	5	94	80%	120%

LCS Result = Lab Control Sample Result
True = True Value of LCS
L.Limit / H.Limit = LCS Control Limits

SURROGATE RECOVERY

Sample No.	AAA-TFT
QC Limit	55-200
Method Blank	107
LCS	156
LCSD	163

AAA-TFT = a,a,a-Trifluorotoluene

CHAIN OF CUSTODY RECORD

Sheet 1 of 1.

MEREDITH & ASSOCIATES, INC.
SCIENTIFIC and REGULATORY CONSULTANTS
9841 Airport Blvd., Suite 1010 Los Angeles, California 90045-5409
Phone (310) 670-9221 Fax: (310) 670-9512

123695

CONTACT PERSON(S): L. EDLUND / K. FARRELL

CLIENT: L. MARMOL PROJECT NO.: 2003-123

SITE NAME: PICO OIL

SITE LOCATION: SIGNAL HILL

SAMPLING LOCATION: ROLL OFF BINS

SAMPLING INFORMATION:

TURNAROUND TIME: NORMAL 5 DAY / RUSH

COMMENTS (Precautions/Hazards/Field Conditions)

ANALYSIS REQUESTED

SAMPLE ID#	LAB ID#	DATE	TIME	SAMPLE TYPE	# of CONTAINERS	PRESERVATION	OTHER	~~TPH~~ 1035 8015M (TPH-GAS)	IGNITEABILITY											NOTES
RO-11		1/29/04		SOIL	5	ICE	✓	✓												
RO-12		1/29/04		SOIL	5	ICE	✓	✓												
RO-13		1/29/04		SOIL	5	ICE	✓	✓												
RO-14		1/29/04		WOOD	1	ICE		Gols				ON	LR#			122551				HOLD
		→ DO		STLC / TCLP on			Pb													
							only													

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
COLLECTED by R M McCracken	R. MCCRACKEN	M&A	1/29/04	1140 AM PM
RELEASED by R. M. McCracken	R. MCCRACKEN	M&A	12/04	1440 AM PM
RELEASED to Tom Vinsonhaler	L. Edlund T. VINSONHALER	M&A ASSOCIATED LAB	1/29/04	5:10 AM PM
RELEAS[illegible] [illegible]	[illegible]	Assoc. Labs.	1/3[illegible]	855 AM PM
RECEIVED by LABORATORY		1:20 04 1:30		AM PM

ASSOCIATED LABORATORIES
North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Meredith & Associates, Inc (10577)
ATTN: Roger McCracken
9841 Airport Blvd.
Suite 1010
Los Angeles, CA 90045-5409

LAB REQUEST 122549
REPORTED 01/19/2004
RECEIVED 01/08/2004

PROJECT #2003-123 Dico Oil

SUBMITTER Client

COMMENTS Added STLC Lead on 1-22-04.

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.	Client Sample Identification
489503	RO-12
489504	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.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 489503 **Client Sample ID**: RO-12

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 14:06

Method	Analyte	Result		DF	EQL	MDL	Units	Date/Analyst
6010B	Antimony	ND		1	3.0	0.62	mg/Kg	01/13/04 KN
6010B	Arsenic	6.80		1	1.0	0.72	mg/Kg	01/13/04 KN
6010B	Barium	91.6		1	1.0	0.05	mg/Kg	01/13/04 KN
6010B	Beryllium	0.391	J	1	0.5	0.16	mg/Kg	01/13/04 KN
6010B	Cadmium	0.549		1	0.5	0.06	mg/Kg	01/13/04 KN
6010B	Chromium	12.5		1	1.0	0.14	mg/Kg	01/13/04 KN
6010B	Cobalt	6.09		1	0.5	0.06	mg/Kg	01/13/04 KN
6010B	Copper	14.5		1	1.0	0.10	mg/Kg	01/13/04 KN
6010B	Lead	87.8		1	0.5	0.16	mg/Kg	01/13/04 KN
6010/STLC	Lead, STLC	2.31		10	0.05	0.002	mg/L	01/26/04 KN
6010B	Molybdenum	0.575	J	1	1.0	0.38	mg/Kg	01/13/04 KN
6010B	Nickel	8.03		1	1.5	0.29	mg/Kg	01/13/04 KN
6010B	Selenium	ND		1	1.0	0.55	mg/Kg	01/13/04 KN
6010B	Silver	0.143	J	1	0.5	0.12	mg/Kg	01/13/04 KN
6010B	Thallium	ND		1	1.0	0.33	mg/Kg	01/13/04 KN
6010B	Vanadium	23.1		1	0.5	0.17	mg/Kg	01/13/04 KN
6010B	Zinc	78.7		1	5.0	0.07	mg/Kg	01/13/04 KN
7471A	Mercury	0.069	J	1	0.14	0.02	mg/Kg	01/13/04 MDJ
8270C	1,2,4-Trichlorobenzene	4500		5	1665.0	32.1	ug/Kg	01/12/04 DP
8270C	1,2-Dichlorobenzene	ND		5	1665.0	69.1	ug/Kg	01/12/04 DP
8270C	1,3-Dichlorobenzene	ND		5	1665.0	133.5	ug/Kg	01/12/04 DP
8270C	1,4-Dichlorobenzene	ND		5	1665.0	58.0	ug/Kg	01/12/04 DP
8270C	2,4,5-Trichlorophenol	ND		5	8325.0	33.6	ug/Kg	01/12/04 DP
8270C	2,4,6-Trichlorophenol	ND		5	8325.0	31.9	ug/Kg	01/12/04 DP
8270C	2,4-Dichlorophenol	ND		5	1665.0	35.3	ug/Kg	01/12/04 DP
8270C	2,4-Dimethylphenol	ND		5	1665.0	37.1	ug/Kg	01/12/04 DP
8270C	2,4-Dinitrophenol	ND		5	8325.0	60.5	ug/Kg	01/12/04 DP
8270C	2,4-Dinitrotoluene	ND		5	1665.0	58.4	ug/Kg	01/12/04 DP
8270C	2,6-Dinitrotoluene	ND		5	1665.0	50.4	ug/Kg	01/12/04 DP
8270C	2-Chloronaphthalene	ND		5	1665.0	18.2	ug/Kg	01/12/04 DP
8270C	2-Chlorophenol	ND		5	1665.0	230.8	ug/Kg	01/12/04 DP
8270C	2-Methylnaphthalene	2620		5	1665.0	31.6	ug/Kg	01/12/04 DP
8270C	2-Methylphenol	ND		5	1665.0	194.3	ug/Kg	01/12/04 DP

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489503 **Client Sample ID**: RO-12

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 14:06

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	2-Nitroaniline	ND	5	8325.0	30.8	ug/Kg	01/12/04 DP
8270C	2-Nitrophenol	ND	5	1665.0	63.4	ug/Kg	01/12/04 DP
8270C	3,3-Dichlorobenzidine	ND	5	1665.0	52.3	ug/Kg	01/12/04 DP
8270C	3-Methylphenol	ND	5	1665.0	211.4	ug/Kg	01/12/04 DP
8270C	3-Nitroaniline	ND	5	8325.0	31.1	ug/Kg	01/12/04 DP
8270C	4,6-Dinitro-2-methylphenol	ND	5	8325.0	44.9	ug/Kg	01/12/04 DP
8270C	4-Bromophenyl-phenylether	ND	5	1665.0	29.6	ug/Kg	01/12/04 DP
8270C	4-Chloro-3-methylphenol	ND	5	1665.0	48.8	ug/Kg	01/12/04 DP
8270C	4-Chloroaniline	ND	5	1665.0	19.2	ug/Kg	01/12/04 DP
8270C	4-Chlorophenyl-phenylether	ND	5	1665.0	38.1	ug/Kg	01/12/04 DP
8270C	4-Methylphenol	ND	5	1665.0	211.4	ug/Kg	01/12/04 DP
8270C	4-Nitroaniline	ND	5	8325.0	134.9	ug/Kg	01/12/04 DP
8270C	4-Nitrophenol	ND	5	8325.0	84.8	ug/Kg	01/12/04 DP
8270C	Acenaphthene	ND	5	1665.0	17.4	ug/Kg	01/12/04 DP
8270C	Acenaphthylene	ND	5	1665.0	14.8	ug/Kg	01/12/04 DP
8270C	Anthracene	ND	5	1665.0	9.9	ug/Kg	01/12/04 DP
8270C	Benzidine	ND	5	1665.0	260	ug/Kg	01/12/04 DP
8270C	Benzo(a)anthracene	ND	5	1665.0	26.2	ug/Kg	01/12/04 DP
8270C	Benzo(a)pyrene	ND	5	1665.0	20.0	ug/Kg	01/12/04 DP
8270C	Benzo(b)fluoranthene	ND	5	1665.0	29.9	ug/Kg	01/12/04 DP
8270C	Benzo(g,h,i)perylene	ND	5	1665.0	13.9	ug/Kg	01/12/04 DP
8270C	Benzo(k)fluoranthene	ND	5	1665.0	23.7	ug/Kg	01/12/04 DP
8270C	Benzoic Acid	ND	5	1665.0	70.0	ug/Kg	01/12/04 DP
8270C	Benzyl alcohol	ND	5	1665.0	197.0	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroethoxy)methane	ND	5	1665.0	22.6	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroethyl)ether	ND	5	1665.0	291.5	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroisopropyl) ether	ND	5	1665.0	275.3	ug/Kg	01/12/04 DP
8270C	bis(2-Ethylhexyl)phthalate	1110 J	5	1665.0	36.1	ug/Kg	01/12/04 DP
8270C	Butylbenzylphthalate	ND	5	1665.0	25.9	ug/Kg	01/12/04 DP
8270C	Chrysene	ND	5	1665.0	38.0	ug/Kg	01/12/04 DP
8270C	Di-n-butylphthalate	ND	5	1665.0	30.7	ug/Kg	01/12/04 DP
8270C	Di-n-octylphthalate	ND	5	1665.0	66.3	ug/Kg	01/12/04 DP
8270C	Dibenz(a,h)anthracene	ND	5	1665.0	32.3	ug/Kg	01/12/04 DP
8270C	Dibenzofuran	ND	5	1665.0	16.4	ug/Kg	01/12/04 DP
8270C	Diethylphthalate	ND	5	1665.0	43.8	ug/Kg	01/12/04 DP
8270C	Dimethylphthalate	ND	5	1665.0	28.6	ug/Kg	01/12/04 DP
8270C	Fluoranthene	ND	5	1665.0	28.2	ug/Kg	01/12/04 DP
8270C	Fluorene	ND	5	1665.0	19.3	ug/Kg	01/12/04 DP
8270C	Hexachlorobenzene	ND	5	1665.0	49.4	ug/Kg	01/12/04 DP

EQ Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
NL Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489503 **Client Sample ID:** RO-12

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 14:06

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	Hexachlorobutadiene	ND	5	1665.0	40.1	ug/Kg	01/12/04 DP
8270C	Hexachlorocyclopentadiene	ND	5	1665.0	48.3	ug/Kg	01/12/04 DP
8270C	Hexachloroethane	ND	5	1665.0	180.8	ug/Kg	01/12/04 DP
8270C	Indeno(1,2,3-c,d)pyrene	ND	5	1665.0	36.1	ug/Kg	01/12/04 DP
8270C	Isophorone	ND	5	1665.0	30.4	ug/Kg	01/12/04 DP
8270C	N-Nitroso-di-n-propylamine	ND	5	1665.0	221.8	ug/Kg	01/12/04 DP
8270C	N-Nitrosodiphenylamine	ND	5	1665.0	29.1	ug/Kg	01/12/04 DP
8270C	Naphthalene	ND	5	1665.0	15.6	ug/Kg	01/12/04 DP
8270C	Nitrobenzene	ND	5	1665.0	60.6	ug/Kg	01/12/04 DP
8270C	Pentachlorophenol	ND	5	8325.0	38.0	ug/Kg	01/12/04 DP
8270C	Phenanthrene	1370 J	5	1665.0	19.4	ug/Kg	01/12/04 DP
8270C	Phenol	ND	5	1665.0	229.8	ug/Kg	01/12/04 DP
8270C	Pyrene	1420 J	5	1665.0	28.2	ug/Kg	01/12/04 DP

Surrogates			Units	Control Limits
8270C	2,4,6-Tribromophenol (sur)	72	%	17 - 122
8270C	2-Fluorobiphenyl (sur)	101	%	30 - 115
8270C	2-Fluorophenol (sur)	74	%	25 - 121
8270C	Nitrobenzene-d5 (sur)	76	%	23 - 120
8270C	Phenol-d5 (sur)	85	%	24 - 113
8270C	Terphenyl-d14 (sur)	124	%	18 - 137

8260B	1,1,1,2-Tetrachloroethane	ND	586	2930.0	2.19	ug/Kg	01/12/04 AM
8260B	1,1,1-Trichloroethane	ND	586	2930.0	0.47	ug/Kg	01/12/04 AM
8260B	1,1,2,2-Tetrachloroethane	ND	586	2930.0	0.50	ug/Kg	01/12/04 AM
8260B	1,1,2-Trichloroethane	ND	586	2930.0	0.57	ug/Kg	01/12/04 AM
8260B	1,1,2-Trichlorotrifluoroethane	ND	586	2930.0	0.10	ug/Kg	01/12/04 AM
8260B	1,1-Dichloroethane	ND	586	2930.0	0.74	ug/Kg	01/12/04 AM
8260B	1,1-Dichloroethene	ND	586	2930.0	0.43	ug/Kg	01/12/04 AM
8260B	1,1-Dichloropropene	ND	586	2930.0	1.30	ug/Kg	01/12/04 AM
8260B	1,2,3-Trichlorobenzene	ND	586	2930.0	0.54	ug/Kg	01/12/04 AM
8260B	1,2,3-Trichloropropane	ND	586	2930.0	0.65	ug/Kg	01/12/04 AM
8260B	1,2,4-Trichlorobenzene	5270	586	2930.0	0.54	ug/Kg	01/12/04 AM
8260B	1,2,4-Trimethylbenzene	ND	586	2930.0	0.60	ug/Kg	01/12/04 AM
8260B	1,2-Dibromo-3-chloropropane	ND	586	2930.0	1.92	ug/Kg	01/12/04 AM
8260B	1,2-Dibromoethane	ND	586	2930.0	0.43	ug/Kg	01/12/04 AM
8260B	1,2-Dichlorobenzene	ND	586	2930.0	0.45	ug/Kg	01/12/04 AM
8260B	1,2-Dichloroethane	ND	586	2930.0	0.59	ug/Kg	01/12/04 AM

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489503 **Client Sample ID:** RO-12

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 14:06

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	1,2-Dichloropropane	ND	586	2930.0	0.58	ug/Kg	01/12/04 AM
8260B	1,3,5-Trimethylbenzene	4000	586	2930.0	0.55	ug/Kg	01/12/04 AM
8260B	1,3-Dichlorobenzene	ND	586	2930.0	0.44	ug/Kg	01/12/04 AM
8260B	1,3-Dichloropropane	ND	586	2930.0	0.51	ug/Kg	01/12/04 AM
8260B	1,4-Dichlorobenzene	ND	586	2930.0	0.46	ug/Kg	01/12/04 AM
8260B	1,4-Dioxane	ND	586	117200.0	200	ug/Kg	01/12/04 AM
8260B	1-Chlorohexane	ND	586	2930.0	0.38	ug/Kg	01/12/04 AM
8260B	2,2-Dichloropropane	ND	586	2930.0	0.47	ug/Kg	01/12/04 AM
8260B	2-Butanone (MEK)	ND	586	58600.0	0.98	ug/Kg	01/12/04 AM
8260B	2-Chloroethyl vinyl ether	ND	586	2930.0	0.46	ug/Kg	01/12/04 AM
8260B	2-Chlorotoluene	ND	586	2930.0	0.92	ug/Kg	01/12/04 AM
8260B	2-Hexanone	ND	586	2930.0	4.7	ug/Kg	01/12/04 AM
8260B	4-Chlorotoluene	ND	586	2930.0	0.52	ug/Kg	01/12/04 AM
8260B	4-Methyl -2- Pentanone	ND	586	2930.0	0.49	ug/Kg	01/12/04 AM
8260B	Acetone	ND	586	29300.0	3.81	ug/Kg	01/12/04 AM
8260B	Acetonitrile	ND	586	2930.0	0.7	ug/Kg	01/12/04 AM
8260B	Acrolein	ND	586	117200.0	172	ug/Kg	01/12/04 AM
8260B	Acrylonitrile	ND	586	2930.0	1.3	ug/Kg	01/12/04 AM
8260B	Allyl chloride	ND	586	2930.0	0.4	ug/Kg	01/12/04 AM
8260B	Benzene	ND	586	2930.0	0.39	ug/Kg	01/12/04 AM
8260B	Benzyl chloride	ND	586	2930.0	0.38	ug/Kg	01/12/04 AM
8260B	Bromobenzene	ND	586	2930.0	0.65	ug/Kg	01/12/04 AM
8260B	Bromochloromethane	ND	586	2930.0	0.36	ug/Kg	01/12/04 AM
8260B	Bromodichloromethane	ND	586	2930.0	0.48	ug/Kg	01/12/04 AM
8260B	Bromoform	ND	586	2930.0	0.53	ug/Kg	01/12/04 AM
8260B	Bromomethane	ND	586	2930.0	2.07	ug/Kg	01/12/04 AM
8260B	Carbon Disulfide	ND	586	2930.0	0.8	ug/Kg	01/12/04 AM
8260B	Carbon tetrachloride	ND	586	2930.0	0.40	ug/Kg	01/12/04 AM
8260B	Chlorobenzene	ND	586	2930.0	0.42	ug/Kg	01/12/04 AM
8260B	Chloroethane	ND	586	2930.0	1.1	ug/Kg	01/12/04 AM
8260B	Chloroform	ND	586	2930.0	0.46	ug/Kg	01/12/04 AM
8260B	Chloromethane	ND	586	2930.0	0.25	ug/Kg	01/12/04 AM
8260B	cis-1,2-Dichloroethene	ND	586	2930.0	0.79	ug/Kg	01/12/04 AM
8260B	cis-1,3-Dichloropropene	ND	586	2930.0	0.38	ug/Kg	01/12/04 AM
8260B	cis-1,4-Dichloro-2-butene	ND	586	2930.0	0.59	ug/Kg	01/12/04 AM
8260B	Dibromochloromethane	ND	586	2930.0	0.44	ug/Kg	01/12/04 AM
8260B	Dibromomethane	ND	586	2930.0	0.46	ug/Kg	01/12/04 AM
8260B	Dichlorodifluoromethane	ND	586	2930.0	0.16	ug/Kg	01/12/04 AM
8260B	Ethyl benzene	ND	586	2930.0	0.41	ug/Kg	01/12/04 AM

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489503 **Client Sample ID:** RO-12

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 14:06

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Ethyl methacrylate	ND	586	2930.0	1.8	ug/Kg	01/12/04 AM
8260B	Hexachlorobutadiene	ND	586	2930.0	0.29	ug/Kg	01/12/04 AM
8260B	Iodomethane	ND	586	2930.0	0.6	ug/Kg	01/12/04 AM
8260B	Isopropylbenzene (Cumene)	ND	586	2930.0	0.38	ug/Kg	01/12/04 AM
8260B	Methacrylonitrile	ND	586	2930.0	2.70	ug/Kg	01/12/04 AM
8260B	Methyl methacrylate	ND	586	2930.0	0.21	ug/Kg	01/12/04 AM
8260B	Methyl-tert-butylether (MTBE)	ND	586	2930.0	0.51	ug/Kg	01/12/04 AM
8260B	Methylene chloride	ND	586	2930.0	0.91	ug/Kg	01/12/04 AM
8260B	n-Butylbenzene	ND	586	2930.0	0.38	ug/Kg	01/12/04 AM
8260B	n-Propylbenzene	ND	586	2930.0	0.32	ug/Kg	01/12/04 AM
8260B	Naphthalene	ND	586	2930.0	0.60	ug/Kg	01/12/04 AM
8260B	p-Isopropyltoluene	ND	586	2930.0	0.32	ug/Kg	01/12/04 AM
8260B	Pentachloroethane	ND	586	2930.0	0.6	ug/Kg	01/12/04 AM
8260B	Propionitrile	ND	586	2930.0	5	ug/Kg	01/12/04 AM
8260B	sec-Butylbenzene	ND	586	2930.0	0.31	ug/Kg	01/12/04 AM
8260B	Styrene	ND	586	2930.0	0.37	ug/Kg	01/12/04 AM
8260B	tert-Butylbenzene	ND	586	2930.0	0.41	ug/Kg	01/12/04 AM
8260B	Tetrachloroethene	ND	586	2930.0	0.49	ug/Kg	01/12/04 AM
8260B	Toluene	ND	586	2930.0	0.42	ug/Kg	01/12/04 AM
8260B	trans-1,2-Dichloroethene	ND	586	2930.0	0.48	ug/Kg	01/12/04 AM
8260B	trans-1,3-Dichloropropene	ND	586	2930.0	0.44	ug/Kg	01/12/04 AM
8260B	trans-1,4-Dichloro-2-butene	ND	586	2930.0	2.35	ug/Kg	01/12/04 AM
8260B	Trichloroethene	ND	586	2930.0	0.43	ug/Kg	01/12/04 AM
8260B	Trichlorofluoromethane	ND	586	2930.0	0.40	ug/Kg	01/12/04 AM
8260B	Vinyl acetate	ND	586	29300.0	10.2	ug/Kg	01/12/04 AM
8260B	Vinyl chloride	ND	586	2930.0	0.47	ug/Kg	01/12/04 AM
8260B	Xylenes, total	813 J	586	2930.0	0.8	ug/Kg	01/12/04 AM

Surrogates			Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	94	%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	103	%	70 - 135
8260B	Surr3 - Toluene-d8	102	%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	107	%	70 - 135

8082	PCB-1016	ND	200	6.0	0.003	mg/Kg	01/16/04 RB
8082	PCB-1221	ND	200	12.0	0.006	mg/Kg	01/16/04 RB
8082	PCB-1232	ND	200	10.0	0.004	mg/Kg	01/16/04 RB
8082	PCB-1242	ND	200	10.0	0.002	mg/Kg	01/16/04 RB

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489503 **Client Sample ID**: RO-12

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 14:06

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1248	ND	200	16.0	0.008	mg/Kg	01/16/04 RB
8082	PCB-1254	ND	200	6.0	0.001	mg/Kg	01/16/04 RB
8082	PCB-1260	66	200	6.0	0.002	mg/Kg	01/16/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	87	%	50 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489504 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Antimony	ND	1	3.00	0.62	mg/Kg	01/13/04 KN
6010B	Arsenic	ND	1	1.00	0.72	mg/Kg	01/13/04 KN
6010B	Barium	ND	1	1.00	0.05	mg/Kg	01/13/04 KN
6010B	Beryllium	ND	1	0.50	0.16	mg/Kg	01/13/04 KN
6010B	Cadmium	ND	1	0.50	0.06	mg/Kg	01/13/04 KN
6010B	Chromium	ND	1	1.00	0.14	mg/Kg	01/13/04 KN
6010B	Cobalt	ND	1	0.50	0.06	mg/Kg	01/13/04 KN
6010B	Copper	ND	1	1.00	0.10	mg/Kg	01/13/04 KN
6010B	Lead	ND	1	0.50	0.16	mg/Kg	01/13/04 KN
6010B	Molybdenum	ND	1	1.00	0.38	mg/Kg	01/13/04 KN
6010B	Nickel	ND	1	1.50	0.29	mg/Kg	01/13/04 KN
6010B	Selenium	ND	1	1.00	0.55	mg/Kg	01/13/04 KN
6010B	Silver	ND	1	0.50	0.12	mg/Kg	01/13/04 KN
6010B	Thallium	ND	1	1.00	0.33	mg/Kg	01/13/04 KN
6010B	Vanadium	ND	1	0.50	0.17	mg/Kg	01/13/04 KN
6010B	Zinc	ND	1	5.00	0.07	mg/Kg	01/13/04 KN
7471A	Mercury	ND	1	0.14	0.02	mg/Kg	01/13/04 MDJ
8270C	1,2,4-Trichlorobenzene	ND	1	333	32.1	ug/Kg	01/12/04 DP
8270C	1,2-Dichlorobenzene	ND	1	333	69.1	ug/Kg	01/12/04 DP
8270C	1,3-Dichlorobenzene	ND	1	333	133.5	ug/Kg	01/12/04 DP
8270C	1,4-Dichlorobenzene	ND	1	333	58.0	ug/Kg	01/12/04 DP
8270C	2,4,5-Trichlorophenol	ND	1	1665	33.6	ug/Kg	01/12/04 DP
8270C	2,4,6-Trichlorophenol	ND	1	1665	31.9	ug/Kg	01/12/04 DP
8270C	2,4-Dichlorophenol	ND	1	333	35.3	ug/Kg	01/12/04 DP
8270C	2,4-Dimethylphenol	ND	1	333	37.1	ug/Kg	01/12/04 DP
8270C	2,4-Dinitrophenol	ND	1	1665	60.5	ug/Kg	01/12/04 DP
8270C	2,4-Dinitrotoluene	ND	1	333	58.4	ug/Kg	01/12/04 DP
8270C	2,6-Dinitrotoluene	ND	1	333	50.4	ug/Kg	01/12/04 DP
8270C	2-Chloronaphthalene	ND	1	333	18.2	ug/Kg	01/12/04 DP
8270C	2-Chlorophenol	ND	1	333	230.8	ug/Kg	01/12/04 DP
8270C	2-Methylnaphthalene	ND	1	333	31.6	ug/Kg	01/12/04 DP
8270C	2-Methylphenol	ND	1	333	194.3	ug/Kg	01/12/04 DP
8270C	2-Nitroaniline	ND	1	1665	30.8	ug/Kg	01/12/04 DP

EQ[illegible] Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
NL[illegible]ot detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489504 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	2-Nitrophenol	ND	1	333	63.4	ug/Kg	01/12/04 DP
8270C	3,3-Dichlorobenzidine	ND	1	333	52.3	ug/Kg	01/12/04 DP
8270C	3-Methylphenol	ND	1	333	211.4	ug/Kg	01/12/04 DP
8270C	3-Nitroaniline	ND	1	1665	31.1	ug/Kg	01/12/04 DP
8270C	4,6-Dinitro-2-methylphenol	ND	1	1665	44.9	ug/Kg	01/12/04 DP
8270C	4-Bromophenyl-phenylether	ND	1	333	29.6	ug/Kg	01/12/04 DP
8270C	4-Chloro-3-methylphenol	ND	1	333	48.8	ug/Kg	01/12/04 DP
8270C	4-Chloroaniline	ND	1	333	19.2	ug/Kg	01/12/04 DP
8270C	4-Chlorophenyl-phenylether	ND	1	333	38.1	ug/Kg	01/12/04 DP
8270C	4-Methylphenol	ND	1	333	211.4	ug/Kg	01/12/04 DP
8270C	4-Nitroaniline	ND	1	1665	134.9	ug/Kg	01/12/04 DP
8270C	4-Nitrophenol	ND	1	1665	84.8	ug/Kg	01/12/04 DP
8270C	Acenaphthene	ND	1	333	17.4	ug/Kg	01/12/04 DP
8270C	Acenaphthylene	ND	1	333	14.8	ug/Kg	01/12/04 DP
8270C	Anthracene	ND	1	333	9.9	ug/Kg	01/12/04 DP
8270C	Benzidine	ND	1	333	260	ug/Kg	01/12/04 DP
8270C	Benzo(a)anthracene	ND	1	333	26.2	ug/Kg	01/12/04 DP
8270C	Benzo(a)pyrene	ND	1	333	20.0	ug/Kg	01/12/04 DP
8270C	Benzo(b)fluoranthene	ND	1	333	29.9	ug/Kg	01/12/04 DP
8270C	Benzo(g,h,i)perylene	ND	1	333	13.9	ug/Kg	01/12/04 DP
8270C	Benzo(k)fluoranthene	ND	1	333	23.7	ug/Kg	01/12/04 DP
8270C	Benzoic Acid	ND	1	333	70.0	ug/Kg	01/12/04 DP
8270C	Benzyl alcohol	ND	1	333	197.0	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroethoxy)methane	ND	1	333	22.6	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroethyl)ether	ND	1	333	291.5	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroisopropyl) ether	ND	1	333	275.3	ug/Kg	01/12/04 DP
8270C	bis(2-Ethylhexyl)phthalate	ND	1	333	36.1	ug/Kg	01/12/04 DP
8270C	Butylbenzylphthalate	ND	1	333	25.9	ug/Kg	01/12/04 DP
8270C	Chrysene	ND	1	333	38.0	ug/Kg	01/12/04 DP
8270C	Di-n-butylphthalate	ND	1	333	30.7	ug/Kg	01/12/04 DP
8270C	Di-n-octylphthalate	ND	1	333	66.3	ug/Kg	01/12/04 DP
8270C	Dibenz(a,h)anthracene	ND	1	333	32.3	ug/Kg	01/12/04 DP
8270C	Dibenzofuran	ND	1	333	16.4	ug/Kg	01/12/04 DP
8270C	Diethylphthalate	ND	1	333	43.8	ug/Kg	01/12/04 DP
8270C	Dimethylphthalate	ND	1	333	28.6	ug/Kg	01/12/04 DP
8270C	Fluoranthene	ND	1	333	28.2	ug/Kg	01/12/04 DP
8270C	Fluorene	ND	1	333	19.3	ug/Kg	01/12/04 DP
8270C	Hexachlorobenzene	ND	1	333	49.4	ug/Kg	01/12/04 DP
8270C	Hexachlorobutadiene	ND	1	333	40.1	ug/Kg	01/12/04 DP

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489504 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	Hexachlorocyclopentadiene	ND	1	333	48.3	ug/Kg	01/12/04 DP
8270C	Hexachloroethane	ND	1	333	180.8	ug/Kg	01/12/04 DP
8270C	Indeno(1,2,3-c,d)pyrene	ND	1	333	36.1	ug/Kg	01/12/04 DP
8270C	Isophorone	ND	1	333	30.4	ug/Kg	01/12/04 DP
8270C	N-Nitroso-di-n-propylamine	ND	1	333	221.8	ug/Kg	01/12/04 DP
8270C	N-Nitrosodiphenylamine	ND	1	333	29.1	ug/Kg	01/12/04 DP
8270C	Naphthalene	ND	1	333	15.6	ug/Kg	01/12/04 DP
8270C	Nitrobenzene	ND	1	333	60.6	ug/Kg	01/12/04 DP
8270C	Pentachlorophenol	ND	1	1665	38.0	ug/Kg	01/12/04 DP
8270C	Phenanthrene	ND	1	333	19.4	ug/Kg	01/12/04 DP
8270C	Phenol	ND	1	333	229.8	ug/Kg	01/12/04 DP
8270C	Pyrene	ND	1	333	28.2	ug/Kg	01/12/04 DP

Surrogates			Units	Control Limits
8270C	2,4,6-Tribromophenol (sur)	37	%	17 - 122
8270C	2-Fluorobiphenyl (sur)	47	%	30 - 115
8270C	2-Fluorophenol (sur)	44	%	25 - 121
8270C	Nitrobenzene-d5 (sur)	43	%	23 - 120
8270C	Phenol-d5 (sur)	54	%	24 - 113
8270C	Terphenyl-d14 (sur)	79	%	18 - 137

8260B	1,1,1,2-Tetrachloroethane	ND	1	5	2.19	ug/Kg	01/12/04 AM
8260B	1,1,1-Trichloroethane	ND	1	5	0.47	ug/Kg	01/12/04 AM
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.50	ug/Kg	01/12/04 AM
8260B	1,1,2-Trichloroethane	ND	1	5	0.57	ug/Kg	01/12/04 AM
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	0.10	ug/Kg	01/12/04 AM
8260B	1,1-Dichloroethane	ND	1	5	0.74	ug/Kg	01/12/04 AM
8260B	1,1-Dichloroethene	ND	1	5	0.43	ug/Kg	01/12/04 AM
8260B	1,1-Dichloropropene	ND	1	5	1.30	ug/Kg	01/12/04 AM
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.54	ug/Kg	01/12/04 AM
8260B	1,2,3-Trichloropropane	ND	1	5	0.65	ug/Kg	01/12/04 AM
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/Kg	01/12/04 AM
8260B	1,2,4-Trimethylbenzene	ND	1	5	0.60	ug/Kg	01/12/04 AM
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	1.92	ug/Kg	01/12/04 AM
8260B	1,2-Dibromoethane	ND	1	5	0.43	ug/Kg	01/12/04 AM
8260B	1,2-Dichlorobenzene	ND	1	5	0.45	ug/Kg	01/12/04 AM
8260B	1,2-Dichloroethane	ND	1	5	0.59	ug/Kg	01/12/04 AM
8260B	1,2-Dichloropropane	ND	1	5	0.58	ug/Kg	01/12/04 AM

EQ[T] Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
NL .ot detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489504 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	1,3,5-Trimethylbenzene	ND	1	5	0.55	ug/Kg	01/12/04 AM
8260B	1,3-Dichlorobenzene	ND	1	5	0.44	ug/Kg	01/12/04 AM
8260B	1,3-Dichloropropane	ND	1	5	0.51	ug/Kg	01/12/04 AM
8260B	1,4-Dichlorobenzene	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	1,4-Dioxane	ND	1	200	200	ug/Kg	01/12/04 AM
8260B	1-Chlorohexane	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	2,2-Dichloropropane	ND	1	5	0.47	ug/Kg	01/12/04 AM
8260B	2-Butanone (MEK)	ND	1	100	0.98	ug/Kg	01/12/04 AM
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	2-Chlorotoluene	ND	1	5	0.92	ug/Kg	01/12/04 AM
8260B	2-Hexanone	ND	1	5	4.7	ug/Kg	01/12/04 AM
8260B	4-Chlorotoluene	ND	1	5	0.52	ug/Kg	01/12/04 AM
8260B	4-Methyl -2- Pentanone	ND	1	5	0.49	ug/Kg	01/12/04 AM
8260B	Acetone	ND	1	50	3.81	ug/Kg	01/12/04 AM
8260B	Acetonitrile	ND	1	5	0.7	ug/Kg	01/12/04 AM
8260B	Acrolein	ND	1	200	172	ug/Kg	01/12/04 AM
8260B	Acrylonitrile	ND	1	5	1.3	ug/Kg	01/12/04 AM
8260B	Allyl chloride	ND	1	5	0.4	ug/Kg	01/12/04 AM
8260B	Benzene	ND	1	5	0.39	ug/Kg	01/12/04 AM
8260B	Benzyl chloride	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	Bromobenzene	ND	1	5	0.65	ug/Kg	01/12/04 AM
8260B	Bromochloromethane	ND	1	5	0.36	ug/Kg	01/12/04 AM
8260B	Bromodichloromethane	ND	1	5	0.48	ug/Kg	01/12/04 AM
8260B	Bromoform	ND	1	5	0.53	ug/Kg	01/12/04 AM
8260B	Bromomethane	ND	1	5	2.07	ug/Kg	01/12/04 AM
8260B	Carbon Disulfide	ND	1	5	0.8	ug/Kg	01/12/04 AM
8260B	Carbon tetrachloride	ND	1	5	0.40	ug/Kg	01/12/04 AM
8260B	Chlorobenzene	ND	1	5	0.42	ug/Kg	01/12/04 AM
8260B	Chloroethane	ND	1	5	1.1	ug/Kg	01/12/04 AM
8260B	Chloroform	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	Chloromethane	ND	1	5	0.25	ug/Kg	01/12/04 AM
8260B	cis-1,2-Dichloroethene	ND	1	5	0.79	ug/Kg	01/12/04 AM
8260B	cis-1,3-Dichloropropene	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	cis-1,4-Dichloro-2-butene	ND	1	5	0.59	ug/Kg	01/12/04 AM
8260B	Dibromochloromethane	ND	1	5	0.44	ug/Kg	01/12/04 AM
8260B	Dibromomethane	ND	1	5	0.46	ug/Kg	01/12/04 AM
8260B	Dichlorodifluoromethane	ND	1	5	0.16	ug/Kg	01/12/04 AM
8260B	Ethyl benzene	ND	1	5	0.41	ug/Kg	01/12/04 AM
8260B	Ethyl methacrylate	ND	1	5	1.8	ug/Kg	01/12/04 AM

EQ Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
NL ot detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489504 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Hexachlorobutadiene	ND	1	5	0.29	ug/Kg	01/12/04 AM
8260B	Iodomethane	ND	1	5	0.6	ug/Kg	01/12/04 AM
8260B	Isopropylbenzene (Cumene)	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	m and p-Xylene	ND	1	5	0.67	ug/Kg	01/12/04 AM
8260B	Methacrylonitrile	ND	1	5	2.70	ug/Kg	01/12/04 AM
8260B	Methyl methacrylate	ND	1	5	0.21	ug/Kg	01/12/04 AM
8260B	Methyl-tert-butylether (MTBE)	ND	1	5	0.51	ug/Kg	01/12/04 AM
8260B	Methylene chloride	ND	1	5	0.91	ug/Kg	01/12/04 AM
8260B	n-Butylbenzene	ND	1	5	0.38	ug/Kg	01/12/04 AM
8260B	n-Propylbenzene	ND	1	5	0.32	ug/Kg	01/12/04 AM
8260B	Naphthalene	ND	1	5	0.60	ug/Kg	01/12/04 AM
8260B	o-Xylene	ND	1	5	0.35	ug/Kg	01/12/04 AM
8260B	p-Isopropyltoluene	ND	1	5	0.32	ug/Kg	01/12/04 AM
8260B	Pentachloroethane	ND	1	5	0.6	ug/Kg	01/12/04 AM
8260B	Propionitrile	ND	1	5	5	ug/Kg	01/12/04 AM
8260B	sec-Butylbenzene	ND	1	5	0.31	ug/Kg	01/12/04 AM
8260B	Styrene	ND	1	5	0.37	ug/Kg	01/12/04 AM
8260B	tert-Butylbenzene	ND	1	5	0.41	ug/Kg	01/12/04 AM
8260B	Tetrachloroethene	ND	1	5	0.49	ug/Kg	01/12/04 AM
8260B	Toluene	ND	1	5	0.42	ug/Kg	01/12/04 AM
8260B	trans-1,2-Dichloroethene	ND	1	5	0.48	ug/Kg	01/12/04 AM
8260B	trans-1,3-Dichloropropene	ND	1	5	0.44	ug/Kg	01/12/04 AM
8260B	trans-1,4-Dichloro-2-butene	ND	1	5	2.35	ug/Kg	01/12/04 AM
8260B	Trichloroethene	ND	1	5	0.43	ug/Kg	01/12/04 AM
8260B	Trichlorofluoromethane	ND	1	5	0.40	ug/Kg	01/12/04 AM
8260B	Vinyl acetate	ND	1	50	10.2	ug/Kg	01/12/04 AM
8260B	Vinyl chloride	ND	1	5	0.47	ug/Kg	01/12/04 AM
8260B	Xylenes, total	ND	1	5	0.8	ug/Kg	01/12/04 AM

Surrogates			Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	97	%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	102	%	70 - 135
8260B	Surr3 - Toluene-d8	106	%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	102	%	70 - 135

8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/14/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/14/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/14/04 RB

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
NL Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489504 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/14/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/14/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/14/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/14/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	100	%	50 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 122547-489499 QC# 012604STLC1

Matrix: STLC

Prep. Date: 01/26/04

Analysis Date: 01/26/04

Lab ID#'s in Batch: LR 122547, 123061, 122709, 122549, 122460, 123150, 122589, 118885

REPORTING UNITS = mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	6010	4.73		10	13.40	13.50	87	88	1
Copper	6010	0.70		10	10.10	9.97	94	93	1
Arsenic	6010	0.50	U	10	9.60	9.70	96	97	1
Cadmium	6010	1.00	U	10	9.80	9.70	98	97	1
Chromium	6010	1.00	U	10	9.20	9.02	92	90	2

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - 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 = 75 -125
RPD LIMITS = 20

ASSOCIATED LABORATORIES

QA REPORT FORM

Method : EPA 8270/625

Prep. Method : 3550B

QC e: MS/MSD 122547-499

Matrix: SOLID

Date Extracted : 01/12/04

Date Analyzed : 01/12/04

Applies to: LR 122545, 122546, 122547, 122548, 122549, 122550, 122551

REPORTING UNITS = ug/Kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Test	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup.	%Rec MS	%Rec MSD	RPD	QC Limits RPD	QC Limits %REC
Phenol	ND	50	40	45	80	90	12	35	25-93
2-Chorophenol	ND	50	40	49	80	98	20	50	35-84
1,4-Dichlorobenzene	ND	50	35	42	70	84	18	27	35-89
n-Nitroso-di-n-propylamine	ND	50	52	54	104	108	4	38	25-109
1,2,4-Trichlorobenzene	ND	50	41	48	82	96	16	23	22-92
4-Chloro-3-methylphenol	ND	50	41	46	82	92	11	33	15-99
Acenaphthene *	ND	50	44	54	88	108	20	19	20-105
4-Nitrophenol	ND	50	39	44	78	88	12	50	7-112
2,4-[illegible]oluene	ND	50	17	16	34	32	6	47	13-136
Pentachlorophenol	ND	50	43	45	86	90	5	47	0-147
Pyrene	ND	50	59	64	118	128	8	36	17-136

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	%Rec LCS	QC LIMIT %REC
Phenol	ND	50	27	54	30-97
2-Clorophenol	ND	50	27	54	34-90
1,4-Dichlorobenzene	ND	50	27	54	39-87
n-Nitroso-di-n-propylamine	ND	50	31	62	29-110
1,2,4-Trichlorobenzene	ND	50	26	52	28-87
4-Cloro-3-methylphenol	ND	50	26	52	25-97
Acenaphthene	ND	50	30	60	32-94
4-Nitrophenol	ND	50	21	42	14-95
2,4-Dinitrotoluene	ND	50	37	74	30-113
Pentachlorophenol	ND	50	16	32	0-121
Pyr[illegible]	ND	50	43	86	35-120

Method Blank = All ND

***MS/MSD or RPD is outside limits. However, LCS and MB conformed for all spike compounds.**

ASSOCIATED LABORATORIES

LCS REPORT FORM - METHOD 8260 / 624 / 524.2

QC Sample: LCS/LCSD - Soil Samples

Analysis Date: 01/12/04 4:20 PM

Applies to: LR 122545, 122546, 122547, 122548, 122549, 122550

Reporting Units = ug/Kg

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	LCS Spk. Dup	%Rec LCS	%Rec LCS D	RPD	QC Limits RPD	QC Limits %REC
1,1-Dichloroethene	ND	50	50.48	47.57	101	95	6	22	59-172
MTBE	ND	50	47.71	47.34	95	95	1	24	62-137
Benzene	ND	50	52.44	50.99	105	102	3	24	62-137
Trichloroethene	ND	50	54.60	55.57	109	111	2	21	66-142
Toluene	ND	50	55.25	56.74	111	113	3	21	59-139
Chlorobenzene	ND	50	53.64	55.81	107	112	4	21	60-133

Method Blank = All ND

SURROGATE (QC Limits : 70-135)

Compound	MB	LCS	LCSD
DBFM	97	99	98
1,2-DCA	102	92	88
Tol-d8	106	100	103
p-BFB	102	98	97

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 122545-489494 QC# 011304SO1

Matrix: SOLID

Prep. Date: 01/13/04

Analysis Date: 01/13/04

Lab ID#'s in Batch: LR 122545, 122546, 122547, 122548, 122549, 122550, 122551, 122594, 122606

REPORTING UNITS = mg/Kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Arsenic	6010	8.31		94	95	94	92	91	1
Selenium	6010	1.00	U	94	84	83	89	88	1
Thallium	6010	1.00	U	94	82	81	87	86	1
Lead	6010	93.40		94	184	184	96	96	0
Antimony	6010	3.00	U	94	92	91	98	97	1
Barium	6010	185.00		94	272	268	93	88	1
Beryllium	6010	0.50	U	94	90	88	96	94	2
Cadmium	6010	1.00		94	91	91	96	96	0
Chromium	6010	17.40		94	107	105	95	93	2
Cobalt	6010	6.53		94	97	96	96	95	1
Copper	6010	27.40		94	119	116	97	94	3
Molybdenum	6010	2.58		94	104	100	108	104	4
Nickel	6010	12.40		94	97	96	90	89	1
Silver	6010	0.69		47	44	43	92	90	2
Vanadium	6010	25.20		94	118	116	99	97	2
Zinc	6010	131.00		94	215	216	89	90	0

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - 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 = 75 -125
RPD LIMITS = 20

ASSOCIATED LABORATORIES

LCS/MB REPORT FORM

LCS Source(s) : QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank MB	Method Blank ND
.ver	6010	114	100	114	80%	120%	0.50	U
Arsenic	6010	176	200	88	80%	120%	0.50	U
Barium	6010	200	200	100	80%	120%	1.00	U
Beryllium	6010	209	200	105	80%	120%	0.50	U
Cadmium	6010	212	200	106	80%	120%	0.50	U
Cobalt	6010	204	200	102	80%	120%	0.50	U
Chromium	6010	205	200	103	80%	120%	1.00	U
Copper	6010	200	200	100	80%	120%	1.00	U
Molybdenum	6010	209	200	105	80%	120%	1.00	U
Nickel	6010	205	200	103	80%	120%	1.50	U
Lead	6010	198	200	99	80%	120%	0.50	U
Antimony	6010	209	200	105	80%	120%	3.00	U
Selenium	6010	199	200	100	80%	120%	1.00	U
Thallium	6010	198	200	99	80%	120%	1.00	U
.nadium	6010	205	200	103	80%	120%	1.00	U
Zinc	6010	213	200	107	80%	120%	5.00	U

*Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True*

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Method Blank; ND = " U " for Non- Detected

ASSOCIATED LABORATORIES
QA REPORT FORM

)C Sample: LR 122546-489497

Matrix: SOIL

Prep. Date: 01/13/04

Analysis Date: 01/13/04

ID#'s in Batch: LR 122546, 122545, 122547, 122548, 122549, 122550, 122551, 122692, 122693

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = mg/Kg

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
MERCURY	245.5 / 7471A	0.32	0.75	1.13	1.15	108	111	2

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	0.85	0.80	106	80%	120%

Value = Preparation Blank Value; ND = Not-Detected
LCS Result = Lab Control Sample Result
True = True Value of LCS
L.Limit / H.Limit = LCS Control Limits

ASSOCIATED LABORATORIES
QA REPORT FORM

D[illegible]native Method : EPA 8082 Preparative Method: EPA 3545

QC Sample: 122461-489206

Matrix: SOLID

Analysis Date: 1/15/04

Batch Date: 1/12/04 (pcb 011204s)

Applies to: LR 122460, LR 122461, LR 122545, LR 122546, LR 122547, LR 122548, LR 122549, LR 122550 and LR 122551

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULTS
REPORTING UNITS = mg/Kg

Test	Sample Result	Spike Added	Spike Recovered		% Rec		RPD	QC Limits	
			MS	MSD	MS	MSD		RPD	% Rec
Aroclor 1260	ND	0.500	0.494	0.515	99	103	4	35	50-125

ND = Not Detected
% Rec - MS & MSD = Percent Recovery from Matrix Spike & Matrix Spike Duplicate
RP[illegible] [illegible]elative Percent Difference of Matrix Spike and Matrix Spike Duplicate recoveries

LAB CONTROL SPIKE RECOVERY / METHOD BLANK
REPORTING UNITS = mg/Kg

Test	Spike Added	Spike Recovered	% Rec LCS	QC Limit
Aroclor 1260	0.500	0.530	106	70-130

Method Blank = All ND
% Rec - LCS = Percent Recovery from Lab Control Spike

ASSOCIATED LABORATORIES
5 North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Meredith & Associates, Inc (10577)
ATTN: Roger McCracken
9841 Airport Blvd.
Suite 1010
Los Angeles, CA 90045-5409

LAB REQUEST 122551
REPORTED 01/19/2004
RECEIVED 01/08/2004

PROJECT #2003-123 Dico Oil

SUBMITTER Client

COMMENTS More samples were sent in for STLC and TCLP Lead on 1-30-04.

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.	Client Sample Identification
489507	RO-14
489508	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.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 489507 **Client Sample ID**: RO-14

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 14:25

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Antimony	ND	1	3.0	0.62	mg/Kg	01/13/04 KN
6010B	Arsenic	4.17	1	1.0	0.72	mg/Kg	01/13/04 KN
6010B	Barium	254	1	1.0	0.05	mg/Kg	01/13/04 KN
6010B	Beryllium	ND	1	0.5	0.16	mg/Kg	01/13/04 KN
6010B	Cadmium	1.97	1	0.5	0.06	mg/Kg	01/13/04 KN
6010B	Chromium	21.2	1	1.0	0.14	mg/Kg	01/13/04 KN
6010B	Cobalt	7.30	1	0.5	0.06	mg/Kg	01/13/04 KN
6010B	Copper	130	1	1.0	0.10	mg/Kg	01/13/04 KN
6010B	Lead	378	1	0.5	0.16	mg/Kg	01/13/04 KN
1311/6010	Lead TCLP	ND	1	0.05	0.002	mg/L	02/02/04 KN
6010/STLC	Lead, STLC	2.39	10	0.05	0.002	mg/L	02/02/04 KN
6010B	Molybdenum	3.58	1	1.0	0.38	mg/Kg	01/13/04 KN
6010B	Nickel	20.8	1	1.5	0.29	mg/Kg	01/13/04 KN
6010B	Selenium	ND	1	1.0	0.55	mg/Kg	01/13/04 KN
6010B	Silver	0.972	1	0.5	0.12	mg/Kg	01/13/04 KN
6010B	Thallium	ND	1	1.0	0.33	mg/Kg	01/13/04 KN
6010B	Vanadium	20.6	1	0.5	0.17	mg/Kg	01/13/04 KN
6010B	Zinc	254	1	5.0	0.07	mg/Kg	01/13/04 KN
7471A	Mercury	0.52	1	0.14	0.02	mg/Kg	01/13/04 MDJ
8270C	1,2,4-Trichlorobenzene	2770 J	20	6660.0	32.1	ug/Kg	01/13/04 DP
8270C	1,2-Dichlorobenzene	ND	20	6660.0	69.1	ug/Kg	01/13/04 DP
8270C	1,3-Dichlorobenzene	ND	20	6660.0	133.5	ug/Kg	01/13/04 DP
8270C	1,4-Dichlorobenzene	ND	20	6660.0	58.0	ug/Kg	01/13/04 DP
8270C	2,4,5-Trichlorophenol	ND	20	33300.0	33.6	ug/Kg	01/13/04 DP
8270C	2,4,6-Trichlorophenol	ND	20	33300.0	31.9	ug/Kg	01/13/04 DP
8270C	2,4-Dichlorophenol	ND	20	6660.0	35.3	ug/Kg	01/13/04 DP
8270C	2,4-Dimethylphenol	ND	20	6660.0	37.1	ug/Kg	01/13/04 DP
8270C	2,4-Dinitrophenol	ND	20	33300.0	60.5	ug/Kg	01/13/04 DP
8270C	2,4-Dinitrotoluene	ND	20	6660.0	58.4	ug/Kg	01/13/04 DP
8270C	2,6-Dinitrotoluene	ND	20	6660.0	50.4	ug/Kg	01/13/04 DP
8270C	2-Chloronaphthalene	ND	20	6660.0	18.2	ug/Kg	01/13/04 DP
8270C	2-Chlorophenol	ND	20	6660.0	230.8	ug/Kg	01/13/04 DP
8270C	2-Methylnaphthalene	10300	20	6660.0	31.6	ug/Kg	01/13/04 DP

EQ[T] Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
NL ot detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489507 **Client Sample ID:** RO-14

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 14:25

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	2-Methylphenol	ND	20	6660.0	194.3	ug/Kg	01/13/04 DP
8270C	2-Nitroaniline	ND	20	33300.0	30.8	ug/Kg	01/13/04 DP
8270C	2-Nitrophenol	ND	20	6660.0	63.4	ug/Kg	01/13/04 DP
8270C	3,3-Dichlorobenzidine	ND	20	6660.0	52.3	ug/Kg	01/13/04 DP
8270C	3-Methylphenol	ND	20	6660.0	211.4	ug/Kg	01/13/04 DP
8270C	3-Nitroaniline	ND	20	33300.0	31.1	ug/Kg	01/13/04 DP
8270C	4,6-Dinitro-2-methylphenol	ND	20	33300.0	44.9	ug/Kg	01/13/04 DP
8270C	4-Bromophenyl-phenylether	ND	20	6660.0	29.6	ug/Kg	01/13/04 DP
8270C	4-Chloro-3-methylphenol	ND	20	6660.0	48.8	ug/Kg	01/13/04 DP
8270C	4-Chloroaniline	ND	20	6660.0	19.2	ug/Kg	01/13/04 DP
8270C	4-Chlorophenyl-phenylether	ND	20	6660.0	38.1	ug/Kg	01/13/04 DP
8270C	4-Methylphenol	ND	20	6660.0	211.4	ug/Kg	01/13/04 DP
8270C	4-Nitroaniline	ND	20	33300.0	134.9	ug/Kg	01/13/04 DP
8270C	4-Nitrophenol	ND	20	33300.0	84.8	ug/Kg	01/13/04 DP
8270C	Acenaphthene	ND	20	6660.0	17.4	ug/Kg	01/13/04 DP
8270C	Acenaphthylene	ND	20	6660.0	14.8	ug/Kg	01/13/04 DP
8270C	Anthracene	ND	20	6660.0	9.9	ug/Kg	01/13/04 DP
8270C	Benzidine	ND	20	6660.0	260	ug/Kg	01/13/04 DP
8270C	Benzo(a)anthracene	5950 J	20	6660.0	26.2	ug/Kg	01/13/04 DP
8270C	Benzo(a)pyrene	ND	20	6660.0	20.0	ug/Kg	01/13/04 DP
8270C	Benzo(b)fluoranthene	ND	20	6660.0	29.9	ug/Kg	01/13/04 DP
8270C	Benzo(g,h,i)perylene	ND	20	6660.0	13.9	ug/Kg	01/13/04 DP
8270C	Benzo(k)fluoranthene	ND	20	6660.0	23.7	ug/Kg	01/13/04 DP
8270C	Benzoic Acid	ND	20	6660.0	70.0	ug/Kg	01/13/04 DP
8270C	Benzyl alcohol	ND	20	6660.0	197.0	ug/Kg	01/13/04 DP
8270C	bis(2-Chloroethoxy)methane	ND	20	6660.0	22.6	ug/Kg	01/13/04 DP
8270C	bis(2-Chloroethyl)ether	ND	20	6660.0	291.5	ug/Kg	01/13/04 DP
8270C	bis(2-Chloroisopropyl) ether	ND	20	6660.0	275.3	ug/Kg	01/13/04 DP
8270C	bis(2-Ethylhexyl)phthalate	ND	20	6660.0	36.1	ug/Kg	01/13/04 DP
8270C	Butylbenzylphthalate	ND	20	6660.0	25.9	ug/Kg	01/13/04 DP
8270C	Chrysene	6570 J	20	6660.0	38.0	ug/Kg	01/13/04 DP
8270C	Di-n-butylphthalate	ND	20	6660.0	30.7	ug/Kg	01/13/04 DP
8270C	Di-n-octylphthalate	ND	20	6660.0	66.3	ug/Kg	01/13/04 DP
8270C	Dibenz(a,h)anthracene	ND	20	6660.0	32.3	ug/Kg	01/13/04 DP
8270C	Dibenzofuran	ND	20	6660.0	16.4	ug/Kg	01/13/04 DP
8270C	Diethylphthalate	ND	20	6660.0	43.8	ug/Kg	01/13/04 DP
8270C	Dimethylphthalate	ND	20	6660.0	28.6	ug/Kg	01/13/04 DP
8270C	Fluoranthene	7220	20	6660.0	28.2	ug/Kg	01/13/04 DP
8270C	Fluorene	3980 J	20	6660.0	19.3	ug/Kg	01/13/04 DP

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489507 **Client Sample ID:** RO-14

Matrix: SOLID

Date Sampled: 01/08/2004
Time Sampled: 14:25

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	Hexachlorobenzene	ND	20	6660.0	49.4	ug/Kg	01/13/04 DP
8270C	Hexachlorobutadiene	ND	20	6660.0	40.1	ug/Kg	01/13/04 DP
8270C	Hexachlorocyclopentadiene	ND	20	6660.0	48.3	ug/Kg	01/13/04 DP
8270C	Hexachloroethane	ND	20	6660.0	180.8	ug/Kg	01/13/04 DP
8270C	Indeno(1,2,3-c,d)pyrene	ND	20	6660.0	36.1	ug/Kg	01/13/04 DP
8270C	Isophorone	ND	20	6660.0	30.4	ug/Kg	01/13/04 DP
8270C	N-Nitroso-di-n-propylamine	ND	20	6660.0	221.8	ug/Kg	01/13/04 DP
8270C	N-Nitrosodiphenylamine	ND	20	6660.0	29.1	ug/Kg	01/13/04 DP
8270C	Naphthalene	ND	20	6660.0	15.6	ug/Kg	01/13/04 DP
8270C	Nitrobenzene	ND	20	6660.0	60.6	ug/Kg	01/13/04 DP
8270C	Pentachlorophenol	ND	20	33300.0	38.0	ug/Kg	01/13/04 DP
8270C	Phenanthrene	12600	20	6660.0	19.4	ug/Kg	01/13/04 DP
8270C	Phenol	ND	20	6660.0	229.8	ug/Kg	01/13/04 DP
8270C	Pyrene	ND	20	6660.0	28.2	ug/Kg	01/13/04 DP

Surrogates			Units	Control Limits
8270C	2,4,6-Tribromophenol (sur)	72	%	17 - 122
8270C	2-Fluorobiphenyl (sur)	91	%	30 - 115
8270C	2-Fluorophenol (sur)	70	%	25 - 121
8270C	Nitrobenzene-d5 (sur)	72	%	23 - 120
8270C	Phenol-d5 (sur)	77	%	24 - 113
8270C	Terphenyl-d14 (sur)	82	%	18 - 137

8082	PCB-1016	ND	200	6.0	0.003	mg/Kg	01/16/04 RB
8082	PCB-1221	ND	200	12.0	0.006	mg/Kg	01/16/04 RB
8082	PCB-1232	ND	200	10.0	0.004	mg/Kg	01/16/04 RB
8082	PCB-1242	ND	200	10.0	0.002	mg/Kg	01/16/04 RB
8082	PCB-1248	ND	200	16.0	0.008	mg/Kg	01/16/04 RB
8082	PCB-1254	6.4	200	6.0	0.001	mg/Kg	01/16/04 RB
8082	PCB-1260	86	200	6.0	0.002	mg/Kg	01/16/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	106	%	50 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489508 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
6010B	Antimony	ND	1	3.00	0.62	mg/Kg	01/13/04 KN
6010B	Arsenic	ND	1	1.00	0.72	mg/Kg	01/13/04 KN
6010B	Barium	ND	1	1.00	0.05	mg/Kg	01/13/04 KN
6010B	Beryllium	ND	1	0.50	0.16	mg/Kg	01/13/04 KN
6010B	Cadmium	ND	1	0.50	0.06	mg/Kg	01/13/04 KN
6010B	Chromium	ND	1	1.00	0.14	mg/Kg	01/13/04 KN
6010B	Cobalt	ND	1	0.50	0.06	mg/Kg	01/13/04 KN
6010B	Copper	ND	1	1.00	0.10	mg/Kg	01/13/04 KN
6010B	Lead	ND	1	0.50	0.16	mg/Kg	01/13/04 KN
6010B	Molybdenum	ND	1	1.00	0.38	mg/Kg	01/13/04 KN
6010B	Nickel	ND	1	1.50	0.29	mg/Kg	01/13/04 KN
6010B	Selenium	ND	1	1.00	0.55	mg/Kg	01/13/04 KN
6010B	Silver	ND	1	0.50	0.12	mg/Kg	01/13/04 KN
6010B	Thallium	ND	1	1.00	0.33	mg/Kg	01/13/04 KN
6010B	Vanadium	ND	1	0.50	0.17	mg/Kg	01/13/04 KN
6010B	Zinc	ND	1	5.00	0.07	mg/Kg	01/13/04 KN
7471A	Mercury	ND	1	0.14	0.02	mg/Kg	01/13/04 MDJ
8270C	1,2,4-Trichlorobenzene	ND	1	333	32.1	ug/Kg	01/12/04 DP
8270C	1,2-Dichlorobenzene	ND	1	333	69.1	ug/Kg	01/12/04 DP
8270C	1,3-Dichlorobenzene	ND	1	333	133.5	ug/Kg	01/12/04 DP
8270C	1,4-Dichlorobenzene	ND	1	333	58.0	ug/Kg	01/12/04 DP
8270C	2,4,5-Trichlorophenol	ND	1	1665	33.6	ug/Kg	01/12/04 DP
8270C	2,4,6-Trichlorophenol	ND	1	1665	31.9	ug/Kg	01/12/04 DP
8270C	2,4-Dichlorophenol	ND	1	333	35.3	ug/Kg	01/12/04 DP
8270C	2,4-Dimethylphenol	ND	1	333	37.1	ug/Kg	01/12/04 DP
8270C	2,4-Dinitrophenol	ND	1	1665	60.5	ug/Kg	01/12/04 DP
8270C	2,4-Dinitrotoluene	ND	1	333	58.4	ug/Kg	01/12/04 DP
8270C	2,6-Dinitrotoluene	ND	1	333	50.4	ug/Kg	01/12/04 DP
8270C	2-Chloronaphthalene	ND	1	333	18.2	ug/Kg	01/12/04 DP
8270C	2-Chlorophenol	ND	1	333	230.8	ug/Kg	01/12/04 DP
8270C	2-Methylnaphthalene	ND	1	333	31.6	ug/Kg	01/12/04 DP
8270C	2-Methylphenol	ND	1	333	194.3	ug/Kg	01/12/04 DP
8270C	2-Nitroaniline	ND	1	1665	30.8	ug/Kg	01/12/04 DP

EQ[T] – Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
NL[illegible]ot detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489508 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	2-Nitrophenol	ND	1	333	63.4	ug/Kg	01/12/04 DP
8270C	3,3-Dichlorobenzidine	ND	1	333	52.3	ug/Kg	01/12/04 DP
8270C	3-Methylphenol	ND	1	333	211.4	ug/Kg	01/12/04 DP
8270C	3-Nitroaniline	ND	1	1665	31.1	ug/Kg	01/12/04 DP
8270C	4,6-Dinitro-2-methylphenol	ND	1	1665	44.9	ug/Kg	01/12/04 DP
8270C	4-Bromophenyl-phenylether	ND	1	333	29.6	ug/Kg	01/12/04 DP
8270C	4-Chloro-3-methylphenol	ND	1	333	48.8	ug/Kg	01/12/04 DP
8270C	4-Chloroaniline	ND	1	333	19.2	ug/Kg	01/12/04 DP
8270C	4-Chlorophenyl-phenylether	ND	1	333	38.1	ug/Kg	01/12/04 DP
8270C	4-Methylphenol	ND	1	333	211.4	ug/Kg	01/12/04 DP
8270C	4-Nitroaniline	ND	1	1665	134.9	ug/Kg	01/12/04 DP
8270C	4-Nitrophenol	ND	1	1665	84.8	ug/Kg	01/12/04 DP
8270C	Acenaphthene	ND	1	333	17.4	ug/Kg	01/12/04 DP
8270C	Acenaphthylene	ND	1	333	14.8	ug/Kg	01/12/04 DP
8270C	Anthracene	ND	1	333	9.9	ug/Kg	01/12/04 DP
8270C	Benzidine	ND	1	333	260	ug/Kg	01/12/04 DP
8270C	Benzo(a)anthracene	ND	1	333	26.2	ug/Kg	01/12/04 DP
8270C	Benzo(a)pyrene	ND	1	333	20.0	ug/Kg	01/12/04 DP
8270C	Benzo(b)fluoranthene	ND	1	333	29.9	ug/Kg	01/12/04 DP
8270C	Benzo(g,h,i)perylene	ND	1	333	13.9	ug/Kg	01/12/04 DP
8270C	Benzo(k)fluoranthene	ND	1	333	23.7	ug/Kg	01/12/04 DP
8270C	Benzoic Acid	ND	1	333	70.0	ug/Kg	01/12/04 DP
8270C	Benzyl alcohol	ND	1	333	197.0	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroethoxy)methane	ND	1	333	22.6	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroethyl)ether	ND	1	333	291.5	ug/Kg	01/12/04 DP
8270C	bis(2-Chloroisopropyl) ether	ND	1	333	275.3	ug/Kg	01/12/04 DP
8270C	bis(2-Ethylhexyl)phthalate	ND	1	333	36.1	ug/Kg	01/12/04 DP
8270C	Butylbenzylphthalate	ND	1	333	25.9	ug/Kg	01/12/04 DP
8270C	Chrysene	ND	1	333	38.0	ug/Kg	01/12/04 DP
8270C	Di-n-butylphthalate	ND	1	333	30.7	ug/Kg	01/12/04 DP
8270C	Di-n-octylphthalate	ND	1	333	66.3	ug/Kg	01/12/04 DP
8270C	Dibenz(a,h)anthracene	ND	1	333	32.3	ug/Kg	01/12/04 DP
8270C	Dibenzofuran	ND	1	333	16.4	ug/Kg	01/12/04 DP
8270C	Diethylphthalate	ND	1	333	43.8	ug/Kg	01/12/04 DP
8270C	Dimethylphthalate	ND	1	333	28.6	ug/Kg	01/12/04 DP
8270C	Fluoranthene	ND	1	333	28.2	ug/Kg	01/12/04 DP
8270C	Fluorene	ND	1	333	19.3	ug/Kg	01/12/04 DP
8270C	Hexachlorobenzene	ND	1	333	49.4	ug/Kg	01/12/04 DP
8270C	Hexachlorobutadiene	ND	1	333	40.1	ug/Kg	01/12/04 DP

EQ Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
NL ot detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

Order #: 489508 **Client Sample ID**: Laboratory Method Blank

Matrix: SOLID

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8270C	Hexachlorocyclopentadiene	ND	1	333	48.3	ug/Kg	01/12/04 DP
8270C	Hexachloroethane	ND	1	333	180.8	ug/Kg	01/12/04 DP
8270C	Indeno(1,2,3-c,d)pyrene	ND	1	333	36.1	ug/Kg	01/12/04 DP
8270C	Isophorone	ND	1	333	30.4	ug/Kg	01/12/04 DP
8270C	N-Nitroso-di-n-propylamine	ND	1	333	221.8	ug/Kg	01/12/04 DP
8270C	N-Nitrosodiphenylamine	ND	1	333	29.1	ug/Kg	01/12/04 DP
8270C	Naphthalene	ND	1	333	15.6	ug/Kg	01/12/04 DP
8270C	Nitrobenzene	ND	1	333	60.6	ug/Kg	01/12/04 DP
8270C	Pentachlorophenol	ND	1	1665	38.0	ug/Kg	01/12/04 DP
8270C	Phenanthrene	ND	1	333	19.4	ug/Kg	01/12/04 DP
8270C	Phenol	ND	1	333	229.8	ug/Kg	01/12/04 DP
8270C	Pyrene	ND	1	333	28.2	ug/Kg	01/12/04 DP

Surrogates			Units	Control Limits
8270C	2,4,6-Tribromophenol (sur)	37	%	17 - 122
8270C	2-Fluorobiphenyl (sur)	47	%	30 - 115
8270C	2-Fluorophenol (sur)	44	%	25 - 121
8270C	Nitrobenzene-d5 (sur)	43	%	23 - 120
8270C	Phenol-d5 (sur)	54	%	24 - 113
8270C	Terphenyl-d14 (sur)	79	%	18 - 137

8082	PCB-1016	ND	1	0.03	0.003	mg/Kg	01/14/04 RB
8082	PCB-1221	ND	1	0.06	0.006	mg/Kg	01/14/04 RB
8082	PCB-1232	ND	1	0.05	0.004	mg/Kg	01/14/04 RB
8082	PCB-1242	ND	1	0.05	0.002	mg/Kg	01/14/04 RB
8082	PCB-1248	ND	1	0.08	0.008	mg/Kg	01/14/04 RB
8082	PCB-1254	ND	1	0.03	0.001	mg/Kg	01/14/04 RB
8082	PCB-1260	ND	1	0.03	0.002	mg/Kg	01/14/04 RB

Surrogates			Units	Control Limits
8082	DCB(Sur)	100	%	50 - 135

EQL Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND Not detected below indicated MDL, J=Trace, S=Surrogate Outside Control Limits

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 122551-489507 QC# 020204stlc1

Matrix: STLC

Prep. Date: 02/02/04

Analysis Date: 02/02/04

Lab ID#'s in Batch: LR 122551, 123505

REPORTING UNITS = mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	6010	2.39		10	11.20	11.90	88	95	6

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - 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 = 75 -125
RPD LIMITS = 20

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 122551-489507 QC# 020204tclp1

atrix: TCLP

Prep. Date: 02/02/04

Analysis Date: 02/02/04

Lab ID#'s in Batch: LR 123593, 123634, 122551

REPORTING UNITS = mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Arsenic	6010	0.05	U	1.0	0.91	0.92	91	92	1
Selenium	6010	0.05	U	1.0	0.91	0.92	91	92	1
Lead	6010	0.05	U	1.0	0.84	0.84	84	84	0
Barium	6010	0.33		1.0	1.19	1.19	86	86	0
Cadmium	6010	0.05	U	1.0	0.88	0.88	88	88	0
Chromium	6010	0.05	U	1.0	0.85	0.84	85	84	1
lver	6010	0.05	U	0.5	0.43	0.43	86	86	0

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - 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 = 75 -125
RPD LIMITS = 20

LCS/MB REPORT FORM

LCS Source(s) : QC21-LOT#QC2/22/01;QC7-LOT7A13/05

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank MB	Method Blank ND
Arsenic	6010	1.99	2	100	80%	120%	0.05	U
Selenium	6010	2.09	2	105	80%	120%	0.05	U
Lead	6010	1.81	2	91	80%	120%	0.05	U
Barium	6010	1.90	2	95	80%	120%	0.10	U
Cadmium	6010	2.10	2	105	80%	120%	0.05	U
Chromium	6010	1.95	2	98	80%	120%	0.05	U
ilver	6010	0.97	1	97	80%	120%	0.05	U

*Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True*

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Method Blank; ND = " U " for Non- Detected

APPENDIX C

HEALTH AND SAFETY PLAN

M&A Project No. MA-2003-123

HEALTH AND SAFETY PLAN
EXCAVATION

Dico Waste Oil Site
Signal Hill, California

Prepared by:

MEREDITH & ASSOCIATES, INC.
9841 Airport Boulevard, Suite 1010
Los Angeles, California 90045

February 3, 2004

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LIST OF ACRONYMS

°C	degrees Celsius
°F	degrees Fahrenheit
ACP	access control point
ACGIH	American Conference of Governmental Industrial Hygienists
BHH	Biological Health Hazard
BTEX	benzene, toluene, ethylbenzene, and xylenes
CAL/OSHA	California Department of Occupational Safety and Health
CCR	California Code of Regulations
CHSO	Corporate Health and Safety Officer
COC	chemicals of concern
CP	command post
CRZ	contaminant reduction zone
dBA	decibels
ESA	Environmental Site Assessment
EZ	exclusion zone
FID	flame ionization detector
HSM	Health and Safety Manual
HASP	Health and Safety Plan
IDLH	immediately dangerous to life or health
IIPP	Illness and Injury Prevention Program
IPA	isopropyl alcohol
LEL	lower explosion limit
LOP	level of protection
m	meter
MEK	methyl ethyl ketone
MIBK	methyl isobutyl ketone
MTBE	methyl tertiary-butyl ether
NIOSH	National Institute of Occupational Safety and Health
OSHA	Occupational Safety and Health Administration
PEL	permissible exposure limit
PFS	Project Field Supervisor
PHSO	Project Health and Safety Officer
PM	Project Manager
PPE	personal protective equipment
PVC	polyvinyl chloride

LIST OF ACRONYMS
(concluded)

SCBA	self-contained breathing apparatus
SHSO	Site Health and Safety Officer
STEL	short term exposure limit
SZ	support zone
TWA	time weighted average
UEL	upper explosive limit
USEPA	United States Environmental Protection Agency
VOCs	volatile organic compounds

1.0 INTRODUCTION

This Health and Safety Plan (HASP) was prepared by Meredith & Associates (M&A) to be used when conducting field investigations at the Dico Oil Company Property (hereinafter the Site). The property owner has entered into an agreement with the United States Environmental Protection Agency (USEPA) to mitigate the threats to human health and the environment posed by contaminated soils and structures at the Site.

2.0 BACKGROUND

The Site address is 1845 East Willow Street and is located south of the corner of East 27th Street and North Rose Avenue in Signal Hill, California (see Figure 1). The purpose of this document is to ensure the safety and compliance of M&A personnel and subcontractors during the completion of activities at the Site.

2.1 SITE DESCRIPTION

The Site is located in City of Signal Hill, (Figure 1). The Site is approximately 19,000 square feet in size and is generally bounded by East 27th Street to the north, residential and commercial properties to the east, East Willow Street to the south and commercial/industrial properties to the west. Historically, the Site was an oil and recycling facility, operations ceased in the mid 1990's. During operations, the Site consisted of a tank farm, a truck pad, a laboratory, and tool sheds. The tank farm has been dismantled.

2.2 CLIMATE

Moderate temperatures with comfortable humidities and limited precipitation characterize the climate in the South Bay area. Temperatures are normally mild, with rare extremes above 100°F or below freezing. Mean annual precipitation is approximately 14.8 inches, of which approximately 12.2 inches occur between November and March. Temperatures are expected to range between 60°F and 75°F during field activities.

3.0 PROJECT SAFETY PERSONNEL

This HASP has been prepared by M&A. M&A is responsible for ensuring compliance of M&A personnel, subcontractor personnel, and visitors to the site invited by M&A, with the HASP and its provisions. The Corporate Health and Safety Officer, Project Manager, Project Health and Safety Officer, and Site Health and Safety Officer are responsible for the distribution of this HASP and for the compliance audit.

3.1 CORPORATE HEALTH AND SAFETY OFFICER (CHSO): John R. Anderson

The CHSO is responsible for the following:

- Establishing all corporate health and safety procedures
- Distributing this corporate HASP and enforcing the provisions outlined herein
- Ensuring that the company is in compliance with all Federal, State, and local guidelines regarding health and safety issues
- Confirming that all employees have appropriate health and safety training and have taken a current respirator fit test as outlined in M&A's Respiratory Protection Program
- Verifying that all employees are current in M&A's Medical Surveillance Program (see Appendix A)

- Maintaining records regarding employee safety training, respirator fit testing, and medical screening
- Reporting all accidents to the necessary authorities.

With regard to individual projects, the CHSO has the same authority as the Project Health and Safety Officer and Site Health and Safety Officer.

3.2 PROJECT MANAGER (PM): Lynn J. Edlund

The PM is responsible for the overall performance and compliance with applicable regulations and procedural guidelines as specified in this HASP. The PM also is responsible for implementing the provisions of this plan. Implementation includes review of field personnel compliance with M&A's medical examination requirements, training of field personnel involved with the project, provision of appropriate safety equipment, and submittal of the required health and safety documents to the Project Health and Safety Officer. In the event that the PM becomes aware of a deficiency in the implementation of the HASP, he/she will take appropriate action by consulting with the Project Health and Safety Officer and provide all affected personnel with appropriate written docu-mentation. The authority of the PM is the same as the Project Health and Safety Officer.

3.3 PROJECT HEALTH AND SAFETY OFFICER (PHSO): Keith G. Farrell

The PHSO will make daily assessments of health and safety practices at the site. The PHSO will observe operating personnel and authorized visitors for indications of impaired health due to contaminant exposure, heat stress, or other hazards.

The PHSO will evaluate whether site conditions present hazards not previously predicted or expected, will inspect personal protective equipment and verify its use. The PHSO also is responsible for assisting the PM with on-site implementation of this HASP, including maintaining safety equipment supplies, performing air monitoring of the breathing zones of workers (if deemed necessary), and setting up work zone markers and signs.

The PHSO will ensure that daily safety meetings involving all persons permitted to enter the contaminated area (Exclusion Zone) are conducted. The PHSO will have the authority to suspend work or modify work practices for safety reasons and to dismiss individuals whose conduct on site endangers the health and/or safety of others.

3.4 PROJECT FIELD SUPERVISOR (PFS): Roger D. McCracken

The PFS is responsible for coordinating and supervising technical field activities at the site. This individual will be on site at all times during the field operations and will document all work progress and be responsible for execution of the PEA Workplan and HASP. This individual is responsible for controlling access to the site, has the authority to prohibit individuals from continuing on-site work due to safety infractions, and can implement use of upgraded personal protective equipment using his judgment. This individual also will maintain a record of all logs and a copy of the HASP at the site.

3.5 SITE HEALTH AND SAFETY OFFICER (SHSO): Roger D. McCracken

The SHSO is responsible for assisting the PM and PHSO with on-site implementation of this HASP. Responsi-bilities include:

- Maintaining safety equipment and supplies
- Performing air quality measurements as required or needed
- Directing decontamination operations and emergency response operations

- Setting up work zone markers and signs if such zones are specified in the HASP
- Reporting all accidents, incidents, and infractions of safety rules and requirements to the PM, PHSO, and CHSO.

The SHSO has the authority to inspect work at any time. If he determines that the provisions of the HASP are inadequate to provide a working environment conductive to worker safety, then he/she is to inform the PM of individuals whose on-site presence jeopardizes their health and safety or the health and safety of others.

4.0 SCOPE OF WORK

This HASP covers all field activities associated with the excavation and removal of soil impacted with PCBs, lead, chromium, and total petroleum hydrocarbons. The activities are expected to include, but are not limited to, soil excavation, truck loading, equipment decontamination, and confirmation sampling.

Soil initially will be removed to an approximate depth of 6-inches bgs; excavation if impacted soil will continue as described in the workplan. Additional excavation in either vertical or horizontal directions may be required based on the results of confirmation soil sampling. The excavated soil will either be loaded into roll-off bins or directly into end-dump trucks and transported to an off-site facility for treatment and/or disposal. All operations involving excavation or trenching will be performed in accordance with 29 CFR 1926.650 and California Code of Regulations Title 8, 1539-1547.

Field activities related to this task include the soil excavation using excavators and other heavy equipment, and confirmation soil sampling. All fieldwork will be conducted under the supervision of a California Registered Geologist or registered Civil Engineer, in accordance with the procedures specified in the workplan. Hazards associated with this task include slip, trip, falls, excavation, dermal contact with and accidental inhalation and/or ingestion of contaminated soil. Protective measures to be implemented during soil excavation and confirmation sampling include, but are not limited to, organic vapor/dust suppression, air monitoring with an organic vapor analyzer where appropriate (breathing and work zones around the excavation) and the use of chemical-resistant gloves to reduce the hazardous associated with soil handling and sampling.

5.0 SITE HAZARD ANALYSIS

The field investigation at the site may result in exposure to biological, chemical, and physical hazards. Preparation of this HASP was based on review of historical documents.

5.1 CHEMICAL HEALTH HAZARDS

The chemicals of concern (COC) may form toxicological exposure hazards and enter the body via inhalation, ingestion, skin absorption, and/or injection. The permissible exposure limit (PEL) is defined by the California Department of Occupational Safety and Health (CAL/OSHA) in the California Code of Regulations (CCR), Title 26, Section 5155, and other sections, where necessary. PELs refer to the airborne concentrations of substances and represent conditions during which it is believed that nearly all workers may be repeatedly exposed, eight hours per day, for a 40-year working lifetime, without adverse effect. Variations in individual susceptibility may result in a small number of workers experiencing discomfort to some or all the chemicals at concentrations equal to or below the PEL. A smaller percentage of individuals may be affected more seriously from exposures at or below the PEL due to aggravation of a pre-existing condition or by development of and occupational illness. The PEL is based on research conducted by the National Institute for Occupational Safety and Health (NIOSH) and the American

Conference of Governmental Industrial Hygienists (ACGIH) and are based on the best available information from industrial experience, animal studies, and other sources.

The time-weighted average (TWA) PEL represents a time-weighted exposure for and 8-hour work day, 40 hours per week. Most PELs are expressed as time-weighted averages. CAL/OSHA also has promulgated short-term exposure limits (STEL; usually 15 or 30 minutes) for certain substances. A few substances have a ceiling concentration (the highest allowable concentration in the workplace) that can not be exceeded, even instantaneously.

A site assessment conducted for the Site have identified current and historical businesses that used or may have chemicals of concern. The potential COCs are total petroleum hydrocarbons, polychlorinated biphenyls (PCBs), and metals (i.e., chromium and lead. Applicable exposure limits for selected chemicals are summarized in the following sections and Table 1.

5.1.1 Total Petroleum Hydrocarbons

Analytes	Exposure Limits		Prop. 65	
	8-hr TWA	STEL	Cancer	Reproductive Toxin
Gasoline	300 ppm	500 ppm	Yes	No

Total petroleum hydrocarbons are a large chemical grouping that includes compounds such as gases, fuels, oils, greases, waxes, and tars. Most petroleum hydrocarbons present some fire risk, are variably toxic by ingestion and inhalation and cause local skin irritation.

Gasoline

Gasoline is an eye and throat irritant at levels around the PEL, and causes narcotic effects (with symptoms including headache, nausea, dizziness, and blurred vision) at higher levels. Long term exposure can effect liver and kidney function. Some studies indicate a potential for gasoline to be an animal carcinogen, but this has not been fully established. Because gasoline is a mixture of varying proportions of dozens of hydrocarbons, a mean odor threshold has not been determined.

Fuel Oil (Diesel)

Exposure to diesel fuel may cause nausea, eye irritation, increased blood pressure, headache, lightheadedness, loss of appetite, poor coordination, and difficultly concentrating. Breathing diesel fuel vapors for extended periods may cause kidney damage and lower the blood's ability to clot.

5.1.2 Polychlorinated Biphenyls

Analytes	Exposure Limits		Prop. 65	
	8-hr TWA	STEL	Cancer	Reproductive Toxin
Polychlorinated Biphenyls	0.5 mg/m^3	NA	Yes	Yes

Polychlorinated biphenyl also referred to as PCB, Aroclor 1242 (42% chlorine), or Aroclor 1254 (54% chlorine) is a colorless to pale yellow, non-combustible viscous liquid. PCBs have a boiling point ranging from 617°F to 734°F and a vapor pressure of 0.001 mm Hg. Under conditions where exposure may occur, inhalation or ingestion may cause dry, sore throat, eye discharge, acneform eruptions, follicular accentuation, dark brown pigmentation of nails and skin, sweating palms, feeling of weakness, and headache. PCBs, reported to be a carcinogen, may damage the skin, eyes, liver, and reproductive system.

5.1.3 Metals

Compound	Exposure Limit		Prop 65	
	8-hr TWA	STEL	Cancer	Reproductive Toxin
Chromium	0.5 mg/m^3	NA	No	No
Lead	0.05 mg/m^3	NA	Yes	Yes

These COCs have been used as pigments, and as fungicides. Lead was used in gasoline as an octane booster. Exposure may result in weakness, insomnia, facial pallor, malnutrition, anemia, loss of hair and nails, colic, abdominal pain, and hyper-tension.

5.1.4 Required Safety Measures for Chemical Health Hazards

Should exposure to any of the above compounds occur, the following should be accomplished:

Affected Body Part	Response
Eye	Irrigate immediately
Skin	Wash promptly with soap
Breath	Move to fresh air
Swallow	Seek medical attention immediately

If breathing has stopped, mouth-to-mouth resuscitation should be provided and medical attention sought (refer to page 31 for emergency contact information).

5.2 BIOLOGICAL HAZARDS

Potential biological hazards may include plants, ticks, snakes, various stinging insects, and biological health hazards (BHH). Some of the most common biological hazards can be prevented or the effects reduced by over-the-counter medications. These medications, as recommended by local pharmacists, will be kept in supply in the first aid kit. The best protections against biological hazards are to wear appropriate clothing and avoid exposure to the hazard. Workers who know they are sensitized to any biological hazard should not perform any task that would increase their risk for anaphylactic shock. Additionally, the site safety officer should be informed of any sensitizations to biological hazards.

5.3 PHYSICAL HAZARDS

Listed below are the type of physical hazards that may be present during activities at the site:

- Slip, Trip, or Fall - These types of hazards result from unleveled surfaces, slippery surfaces, and hard-to-see objects located across walking paths (e.g., rope, cords, etc.), and are responsible for over 60% of work-related injuries.

- Housekeeping and Sanitation - In order to permit safe and efficient work conditions, all work areas will be kept clean and free from debris. All hand tools will be kept in storage until they are needed for use. Trash containers will be leak proof, clean, and maintained in a sanitary condition. If vermin are encountered, an approved extermination method will be initiated. Potable water will be used for first aid, drinking, and personal hygiene purposes. All floors will be kept free from standing water. Disposable drinking cups will be provided, along with water coolers. Community drinking cups will not be permitted.

- Falling Objects - Hard hats, safety glasses, and steel-toed footwear will be required for personnel in all work areas.

- Traffic Safety - During normal working hours, there may be significant truck traffic coming to and from the site. Pedestrian traffic on the site may be at risk as trucks enter and exit the site.

- Noise - High noise levels (in excess of 85 decibels [dBA] for extended periods) can result in temporary and permanent loss of hearing. Areas where noise levels exceed 85 dBA will be posted and hearing protection will be provided and worn. Noise dosimetery will be performed as required by OSHA specifications.

5.3.1 Required Safety Measures for Physical Hazards

Listed below are the types of safety measures to be taken to reduce physical hazards that may be present at the site:

Potential Hazard	Required Safety Measure
Head Injury	Hard hats will be worn
Eye Injury	Safety glasses will be worn around moving machinery
Foot Injury	Safety shoes with steel reinforced toes will be worn
Other Injury	Guards are required on all moving parts, belts, and pulleys
Fire	Fire or tobacco smoking will be strictly prohibited within the containment area. Fire extinguishers will be readily available
Inhalation	The vapor and dust concentrations that might be encountered may exceed currently recommended exposure limits. Respiratory protection must be used if 80% of the exposure limits are exceeded. Appropriate protective equipment will be used, as directed by the PFS/SHSO
Noise	Ear plugs will be used whenever loud machinery is in use
Dermal exposure	Contact of sufficient duration to cause significant absorption of toxic components is highly unlikely. Repeated daily or prolonged contact with contaminated soil or water, however may be expected to defat the skin and perhaps over a long period of time lead to irritation and dermatitis. For this reason, direct skin contact with contaminated soil or water will be avoided by wearing protective gloves. However, if skin contact does occur, the exposed areas will be washed with soap and water and rinsed thoroughly
Equipment Failure	If monitoring instruments or any safety equipment fails, work will be suspended until repairs or replacements can be found. In case of working equipment failure, the PFS/SHSO will ensure that no hazardous conditions prevail before authorizing further work
Slip, Trip, and Falls	Appropriate warning signs will be posted, wherever this danger exists
Underground Utility	Location of all underground utility lines will be determined before commencing work. In case of breach of a line, electricity and/or gas supply will be shut off as necessary
Traffic Hazards	When working in an area open to vehicular traffic, the work area will be clearly delineated to restrict vehicular access. When working in public right-of-ways, lanes closures must be conducted in compliance with the guidelines set forth in the *State of California Manual of Traffic Controls* (Watch handbook) and any additional local ordinances or guidelines. Personnel exposed to vehicular traffic will use high-visibility clothing in accordance with the requirements of 8 CCR 1598(c).

5.3.2 Heat Stress

Heat stress and associated complications can be the most prevalent health concerns on sites, especially when Personal Protective Equipment (PPE) is used. Heat stress problems for workers can occur more often than chemical-related hazards and must therefore be regarded with caution.

If precautions are not taken, workers in PPE may experience varying degrees of heat stress. All workers will be encouraged to drink increased amounts of fluids (which will be readily available at the site at all times, at an appropriate location). All personnel will monitor each other to determine if any signs of heat stress become apparent. A work/rest regimen will be instituted to reduce heat-related exhaustion.

The PFS/SHSO will be trained to recognize the symptoms of heat rash, heat cramps, heat exhaustion, and heat stroke. Using the following procedures will help reduce the potential for workers to experience symptoms of heat stress:

- Provide plenty of liquids to replace loss of body fluids, including salt water solutions or commercial mixes such as Gatorade (registered product). Commercial mixes may be preferred by individuals on low sodium diets
- The following work/rest regimen will be followed for field workers performing light/moderate work at PPE level C or level B outdoors:

Work/Rest Regimen	Temperature	
	°F	°C
Continuous work	<79	<26
75% work/25% rest each hour	79	26
50% work/50% rest each hour	84	29
25% work/75% rest each hour	88	31

In order to evaluate the adequacy of this work/rest schedule, heart rate (pulse) determination will be made involving each worker leaving the work area and again approximately one minute after exit. If the exit pulse exceeds 0.7 times the difference between 220 and the age of the individual, or if the one minute pulse exceeds 110 beats per minute, then the work schedule will be reduced by 10 minutes and, therefore, the rest period will increase by the same 10 minutes each hour.

6.0 GENERAL HEALTH AND SAFETY REQUIREMENTS

Records documenting the site safety program will be maintained. This will include information about medical clearance for each individual working at the site, training, safety briefing, distribution of the HASP, incidents, safety completion report, and posting requirements. Records will be maintained in a health and safety logbook and appropriate health and safety forms.

Records will be kept consistent with all applicable CAL/OSHA regulations. The following records will be maintained at the offices of each subcontractor:

- Hazard communication training
- Hazardous waste site training
- Respiratory protection training
- Respirator assignment
- Medical surveillance
- Safety inspection reports
- Personal monitoring records

- Accident logs
- CAL/OSHA logs (200 form or equivalent).

The PM or PFS will maintain the following records at the site:

- Persons on-site, their affiliation, and purpose
- Telephone conversations
- Sampling activities
- Chain-of-custody forms
- Work progress
- Tailgate safety meeting forms
- Worker illness and (or) injury reports
- PEA Workplan (and changes)
- HASP (and changes)
- Daily work activities and conditions
- Accident log.

Subcontractors will maintain employee records in a manner consistent with the applicable regulations.

6.1 MEDICAL CLEARANCE AND MONITORING

All personnel must obtain health and safety clearances before beginning work at the site. M&A Employees will be active participants in M&A's Medical Surveillance Program (see Appendix A). Project personnel who may be required to wear respirators must provide evidence that they have been cleared by a physician to wear respirators. All M&A field personnel are to be an active participant in M&A's Respiratory Protection Program. Subcontractor employees required to wear respirators will participate in their employers Respiratory Protection Program.

6.2 SAFETY ORIENTATION MEETING

All field personnel must attend a safety orientation meeting before commencing fieldwork. The meeting will be scheduled and conducted by the PM, or PFS or SHSO. The dates of briefing sessions and attendees must be recorded on the Safety Meeting Form provided in Appendix B. Safety orientation/training meetings must be convened:

- Before field work begins
- When there are modifications to the HASP that are applicable to field personnel
- When additional personnel begin fieldwork.

The Compliance Agreement will be signed on the first day of field work prior to start-up. The SHSO will provide a copy of the Compliance Agreement to the CHSO within 1 week from initiation of field tasks. The Compliance Agreement form is provided in Appendix B. Safety meetings should be held every morning thereafter to discuss

possible safety hazards for field operations. Safety meetings should be held every morning thereafter to discuss possible safety hazards for field operations.

Respirator fit testing should be conducted at the safety meeting for all individuals who have not been test fitted and who may be required to wear respirators. The meeting will include presentation of the HASP. The NIOSH report regarding confined spaces will be presented at the initial safety meeting if deemed appropriate by the PFS/SHSO.

6.3 TRAINING

Participation in field activities will not occur until all participants have been trained to the level required by their job function and responsibility. The specific types of training required include orientation for new employees, basic training for first time hazardous waste workers, supervisor training, advanced training, site-specific training, first aid, and refresher training.

Personnel on this project are required to have completed 40 hours of training (with annual 8-hour refresher training as required). This will include personnel involved with investigations and activities where contaminated soils/water may likely be encountered. Personnel for each task will be evaluated on site by the SHSO, as per HAZWOPER training.

6.4 DISTRIBUTION OF THE HASP

A copy of this SSP must be available to each employee and subcontractor. M/B&A employees and subcontractors must acknowledge reviewing of the SSP and agree to comply with its provisions in writing by signing the Acknowledgement Statement provided in Appendix B.

6.5 INCIDENT REPORTING

Injuries, exposure, illnesses, safety infractions, and other incidences must be reported to the SHSO within 24 hours of occurrence.

An incident is any event listed below:

- Illness resulting from chemical exposure or unknown causes
- Physical injury, including those that do not require medical attention
- Fire, explosions, and flashes resulting from activities performed by M&A personnel and their sub-contractors
- Property damage
- Vehicular accidents occurring on-site or while traveling to and from the Site on related business
- Infractions of safety rules and requirements
- Unexpected chemical exposure (indicated by irritation of eyes, nose, throat, or skin).

Accidents on site where M&A is not retaining the subcontractor or individual will be reported if injury or illness relates to the M&A task. Serious or fatal on-site injuries will be reported as soon as possible to the CHSO.

6.6 SAFETY COMPLETION REPORT

Upon completion of the work, a Safety Completion Report must be submitted to the CHSO within five working days. The report should include a critical evaluation of this HASP and all approved notifications, names, and affiliations of individuals who worked at the site, exposure monitoring data with monitoring dates and decisions made, summary of incidences and action taken, if any, and recommendations for improving health and safety at similar sites. The Safety Completion Report form is provided in Appendix B.

6.7 POSTING REQUIREMENTS

The following information will be posted or readily available on site:

- Emergency phone numbers
- Directions to the nearest hospital
- HASP.

6.8 AUDITING

The success of the M&A's Health and Safety Program will be evaluated through statistical reporting (such as the OSHA 200 logs and insurance experience) and formal audits. Audits will be conducted by the CHSO. Audits may be announced or unannounced, and a formal health and safety audit report will be provided to the PM. Following completion of the field audit, a verbal review of concerns will be completed with the PM and SHSO. Inspections will be made to identify and evaluate hazards when:

- The program is first established
- New substances, processes, procedures, or equipment are introduced to the workplace that represent a new occupational safety and health hazard
- Whenever M&A is made aware of a new or previously unrecognized hazard.

6.9 INJURY AND ILLNESS PREVENTION PROGRAM (IIPP)

This entire document, including the appendices, serves as an IIPP. The persons with authority and responsibility for implementing the program are identified in Section 3.0.

The system for ensuring that employees comply with safe and healthy work practices includes:

- Generation of a HASP
- Auditing by the CHSO
- Daily field health and safety oversight by the SHSO
- Daily tailgate safety review meetings
- Review of employee and subcontractor training.

Employees and subcontractors who are not prepared to abide by the health and safety provisions contained within this document will not be allowed on-site. Field personnel who are under or associated with M/B&A must sign the SSP Compliance Agreement provided in Appendix B. Individuals observed violating requirements of this

document will be given a formal "Notice of Violation." Should violations continue, or not be corrected, the individual(s) will be removed from the site(s).

The tailgate safety meetings, training sessions, and postings at the site are the three major sources of communication between employees. M&A's internal communication system includes:

- A reporting matrix between the SHSO and CHSO
- The communications associated with the auditing program.

The auditing program also complies with Title 8, CCR Section 3203(a)(4), which states that an employer must:

> "Include procedures for identifying and evaluating work place hazards including scheduled periodic inspections to identify unsafe conditions and work practices."

M&A's incident/accident reporting system is the procedure for investigating injury or occupational illness, in addition to its medical surveillance program. This document addresses the applicable sections of the Title 8 CCR, Sections 1509 (Construction) and 3203 (General) regarding the IIPP. Additional information regarding the internal programs of M&A, which are not specific, are discussed in M&A's HSM.

6.10 FIT FOR DUTY

While M&A does not seek to interfere with the off-duty and personal conduct of its employees, subcontractors, clients, or visitors, certain types of off-duty conduct may interfere with the legitimate business interests of M&A at the site. It is the responsibility of M&A employees, subcontractors, clients, or visitors to ensure that they are fit to perform their required duties at the site. The SHSO has the responsibility to ensure that each individual signing the tailgate meeting is fit for duty. Activities that may affect the fitness of individuals at the site include:

- Consumption of alcohol
- Use of illegal or controlled substances
- Certain prescription or over-the-counter medicines
- Altered mental state
- Personal injury
- Fatigue.

Any individual found to be unfit for duty will be prevented from entering/working at the site until it is determined they are fit to return to duty. The SHSO will make an incident report and inform the PM of the incident. Subcontractors who have personnel unfit for duty will be notified and provided with the opportunity to replace the impaired individuals at the site.

7.0 EXPOSURE MONITORING PLAN

Air monitoring may be used to identify and quantify levels of hazardous substances that could be present at the site. This may be accomplished by the use of personal monitoring instruments and direct reading instruments for personal and site monitoring, respectively.

A wind direction indicator may be utilized to ensure the direction that personnel will move when instructed to do so or in any emergency. Air monitoring equipment will be used to measure airborne levels of organic vapors during sampling activities. Monitoring for organic vapors will be done using a flame ionization detector (FID),a photoionization detector (PID), or equivalent. The detector will be calibrated prior to each day's activities. The calibration will be recorded in a logbook and the instrument will be re-calibrated during the day at the discretion of the PFS/SHSO. Background readings will be obtained at an upwind location.

Work will be started with all personnel using Level D personal protective clothing. For areas where chemicals vapor hazards are suspected, the first person entering the work zone will carry the detector and monitor concentration levels of vapors in the work area before anyone else is allowed into the work zone. The breathing zone will be monitored at a minimum of every 15 minutes. If sustained detector measurements confirm the presence of vapors more than 5 ppm above background levels, field personnel wearing Level D personal protective equipment will be instructed to cease all work activities until engineering controls are instituted to prevent vapors from reaching the breathing zone. This can be accomplished by increasing air speed (mechanical fans), improving ventilation, or changing work activities (move personnel farther away). If engineering controls cannot reduce breathing zone readings to below 5 ppm above background levels, personnel in the work area will upgrade their protective equipment to Level C PPE. If detector measurements confirm the presence of vapors at a concentration of more than 50 ppm, field personnel will be instructed to move to an upwind location to allow air to circulate in the immediate work area. If concentrations diminish below 50 ppm, work may continue. If air concentrations in the breathing zone are sustained at more than 50 ppm above the background concentrations, supplied air respirators (Level B) protective equipment will be used. If the monitored level of organic vapors exceed 1,000 ppm or 10% of the LEL, all work will be stopped until engineering controls are implemented.

As an alternative to using Level B protection, work will stop, and a Certified Industrial Hygienist will monitor the site for specific chemicals and provide on-site control for the Health and Safety Program. If airborne organic vapor concentrations exceed 50 ppm in the breathing zone, work will stop and all site personnel will move upwind of the work site until levels decrease below 50 ppm.

8.0 SITE CONTROL

The purpose of site control is to minimize potential contamination of workers, protect the public from the site's hazards, and prevent vandalism. In order to control activities and movement of personnel and equipment at the site, a site control program will be set up. The basic components of a site control program include establishing work zones, a buddy system, site security, safe work practices, sanitation, site communication, and visitor clearances into the work area(s). These components are described below.

8.1 SITE WORK ZONES

Access to hazardous or potentially hazardous areas must be controlled to reduce the probability of physical injury to field personnel, visitors, and the public. A hazardous or potentially hazardous area includes any area where 1) field personnel are required to wear PPE or 2) operations involving machinery (e.g., drilling, excavating, etc.) are being performed. The establishment of work zones will help ensure that: personnel are properly protected against hazards present where they are working, work activities and contamination are confined to appropriate areas, and personnel are located and evacuated in an emergency. Three work zones will be established around any hazardous or potentially hazardous areas: the exclusion zone (EZ), the contaminant reduction zone (CRZ), and the support zone (SZ). The area work zones will be clearly identified, as appropriate, with barrier tape or other demarcation methods.

The exclusion zone will be maintained up to a distance of 15 feet from the work activity area. Protective clothing and equipment, as described below, are to be worn by all personnel working within the EZ.

The precise locations of all work areas, the decontamination area, equipment storage areas, rest areas, restroom facilities, and routes of exit will be established in the field. The support zone will be upwind from the work zone, when possible. All persons entering the subject site will identify themselves to the PM or PFS, or SHSO for proper documentation.

8.1.1 Exclusion Zone

The EZ is defined as the area where contamination is either known or likely to be present, or where activities will create the potential to cause harm to personnel. The EZ initially will be established for each specific task based on the presence of contaminants within the area, and subsequently may be altered by the SHSO based on new data or observations. The outer boundary of the EZ, known as the Hotline, will be clearly delineated with barrier tape and/or traffic barriers. Access Control Point(s) (ACPs) will be established at the periphery of the EZ to regulate the flow of personnel and equipment into and out of the EZ, and to verify that relevant procedures for entry and exit are followed. Access will be restricted to personnel with appropriate training and documentation, and wearing appropriate PPE, as defined in this HASP. Eating, drinking, and smoking are prohibited within the EZ.

8.1.2 Contaminant Reduction Zone

The CRZ is the area where personnel conduct personal and equipment decontamination. Its location will be established based on air monitoring results, and it will be surrounded by barrier tags, traffic cones, and/or warning signs. It is a transition area between contaminated areas and clean areas, and provides an area to prevent or reduce the transfer of contaminants that may be present on personnel or equipment returning from the EZ. No disposable outer protective work clothing will leave the CRZ. Emergency and first aid equipment, equipment resupply (gloves, etc.), and temporary rest facilities (chairs, shade, liquids, etc.) will be available in the CRZ.

Access into and out of the CRZ from the EZ is controlled through ACPs. The boundary between the CRZ and the SZ, the Contamination Control Line, separates the low contamination area from the clean SZ. Entry into the CRZ from the SZ will be controlled through ACPs. Activities to be conducted in the CRZ will require PE as defined in the decontamination procedures. Exit from the CRZ requires the removal of any suspected or known contaminated PPE and compliance with decontamination procedures. A primary and secondary CRZ will be established. Exit through the secondary CRZ will occur only during emergencies.

8.1.3 Support Zone

The SZ is a clean area where the chance of encountering hazardous materials or conditions is minimal. It contains administrative and other support functions, including the Command Post (CP). CP personnel are responsible for supervision of all field operations and field teams. CP personnel also are responsible for maintaining internal and external communication and alerting the proper authorities in the event of an emergency. Telephone communication will be maintained by the use of cellular phones at the site. Emergency telephone numbers and hospital route maps will be kept here. Health and safety records and up-to-date copies of the HASP will be kept in the SZ. Break/conference, lunch, storage/supply, security, sanitation, and emergency medical facilities will be established in this area. Personnel may wear normal street clothes within this area. Eating, drinking, and smoking are permitted in this area.

8.2 SPILL CONTROL

Absorbent material for spill containment will be kept on-site, especially during any groundwater sampling. The absorbent material will also be present in the CRZ to contain any spills from the decontamination process.

8.3 BUDDY SYSTEM

The "Buddy System" will be used on site to:

- Work inside the EZ
- Warn partners of an impending hazard
- Periodically check the integrity of partner's PPE
- Provide aid in the case of injury, and notify the appropriate personnel of accidents.

Prior to working in the field, "buddies" will establish a time to communicate if either one is out of sight from the other person for an extended period. A way to communicate should also be agreed on prior to entry into the work area.

8.4 SITE SECURITY

Site security is necessary to:

- Prevent the exposure of unauthorized, unprotected people to site hazards;
- Prevent theft; and
- Avoid interference with safe working procedures.

Personnel and vehicle entry will be restricted in established work zones. The responsibilities of personnel include:

- Limiting access to authorized personnel only. Requiring identification of all personnel requesting access to the work zones (i.e., SZ, CRZ, or EZ)
- Ensuring that all visitors to the site who will not be involved in specific work operations have a valid purpose for entering the site and approval for access from the SHSO. The SHSO will ensure that visitors entering work zones have the appropriate training, and have read and signed the HASP
- Requiring all personnel accessing the work zones to sign in and out
- Excluding unauthorized personnel from the site. Advising unauthorized personnel attempting to gain access to the site that they are trespassing and will be prosecuted for unauthorized entrance to the site. Security personnel will make all reasonable efforts to record a description of the trespasser and their vehicle
- In the event of a fire, explosion, release of airborne contaminants, flood, or other emergency that requires the evacuation of personnel, security personnel will limit site access to only those personnel authorized by the site emergency response coordinator. The SHSO will initiate a head count, review the sign-in log, and determine which personnel, if any, are not accounted for
- Keeping a daily security log including entry/exits log, vehicle log, results of security checks, and details of any security problems.

8.5 SAFE WORK PRACTICES

To maintain a strong safety awareness and enforce safe procedures, the following personnel requirements and prohibitions will be established for the site:

- The subject work area will be restricted to authorized visitors and personnel. These individuals will be required to attend a tailgate safety meeting upon entering the subject area during which they will be informed of the various work zones and facilities, the health and safety hazards associated with their assigned work activities, control measures, the care and use of personal protective equipment, emergency action plans, and other pertinent information. Tailgate safety meetings will be conducted on a daily basis at the beginning of each shift. Attendance rosters will be recorded and maintained by the PFS

- All persons entering the site will be required to identify themselves to the PFS. Persons who have not attended a tailgate safety meeting on that day will be required to do so with the SHSO or other authorized representative. Persons unfamiliar with the site will be informed of site hazards and instructed to avoid contact with contaminated surfaces, soils, sample materials, or related equipment, and will be instructed to remain upwind from all active work areas. Eating, drinking, chewing gum or tobacco, smoking or any practice that increases the probability of hand-to-mouth transfer and ingestion of material is prohibited in the EZ and CRZ. Drinking water or equivalent fluids may occur in the CRZ at the discretion of the SHSO. Before wearing Level C PPE, personnel may drink fluids in the CRZ. They will also complete the decontamination procedures necessary to exit the EZ, remove their respiratory protection, remove all protective gloves, and wipe their hands and face with premoistened towelettes

- Any skin contact with contaminated or potentially contaminated surfaces, samples, or equipment will be avoided

- Site personnel will use the "Buddy System" when performing duties in the EZ and CRZ work zones. Communications between members will be maintained at all times. Visual contact will be maintained between buddy pairs at all times

- As appropriate, equipment will be bonded and grounded, and will be spark resistant

- A fire extinguisher will be available for use in the subject area during all working hours. If the travel distance to the extinguisher from any point in the area where work is in progress is greater than 50 feet (15.3 meters), then additional fire extinguishers will be furnished and strategically located so that the travel distance does not exceed 50 feet (15.3 meters)

- A portable emergency eyewash station will be located strategically in the work area. The eye wash station will be capable of flushing the eyes with copious amounts of water

- Upon leaving the CRZ, all persons will adhere to the decontamination procedures outlined in this HASP

- Removal of materials from protective clothing or equipment by blowing, shaking, or any other means which may disperse contaminated materials into the air is prohibited

- Legible precautionary labels will be affixed to containers of raw materials, intermediate products, mixtures, waste debris, and contaminated PPE

- Contaminated PPE will not be removed from the site until it has been cleaned or properly packaged or labeled

- Hands will be thoroughly washed upon leaving contaminated or suspected contaminated areas before eating, drinking, or other such activity
- All hazardous wastes, soil samples, and other contaminated materials which are removed from the subject site will be accompanied by appropriate shipping papers
- A first-aid kit suitable for use at hazardous waste sites will be located in the SZ at each contamination reduction corridor
- No running or horseplay
- The required level of PPE must be worn by all on-site personnel
- No facial hair that interferes with a satisfactory fit of the mask-to-face seal is allowed on personnel required to wear respiratory protection
- Medicine and alcohol can worsen the effects from exposure to toxic chemicals. Prescribed drugs will not be taken by personnel on operations where the potential for absorption, inhalation, or ingestion of toxic substances exists, unless specifically approved by a qualified physician. Alcoholic beverage intake will not be allowed
- Safety devices on equipment must be left intact and used as designed
- Equipment and tools will be kept clean and in good repair, and used only for their intended purpose.

8.6 STANDARD OPERATING PROCEDURES

Employees and subcontractors are expected to follow the standard operating procedures listed below while involved in work at the site:

- Buddy System: A minimum of two workers will be on the site at all times during all operations. The buddy pair(s) will maintain visual or voice contact at all times. In addition, a minimum of one person will remain in the SZ, at all times
- Personal Protective Equipment: All persons entering the EZ will do so while wearing the PPE equipment documented in this HASP. Such individuals will be trained in the proper use, care and maintenance of this equipment, will have submitted to a physical examination by a licensed medical physician, and will have been deemed physically fit to wear such equipment. The user will inspect such equipment before donning. Donned gloves and boots will be taped to protective clothing to provide closure
- Emission control: Wet methods will be used to control emissions of volatile hydrocarbon or other gases and vapors, liquids, or particulate materials
- Observance of Unanticipated Hazardous Materials: In the event, unanticipated hazardous material(s) are observed or symptoms of distress are experienced by workers, the SHSO will conduct an investigation. He/she may collect samples in order to ascertain the identity of the material(s)
- Symptoms of Distress: The SSO and each subcontractor field supervisor will periodically observe personnel for symptoms of distress. Indications of such adverse effects include:
  - Changes in complexion, skin discoloration
  - Signs of uncoordination
  - Changes in demeanor, disposition

- Excessive salivation, papillary response
- Changes in speech patterns
- Nervousness or excitability

- Field personnel are required to contact their field supervisor upon experiencing ill effects such as:
  - Headache or dizziness
  - Blurred vision
  - Irritation to the eyes, mucous membranes, respiratory tract or skin
  - Heat stress

- Daily Shutdown: All mechanical equipment will be parked and/or stored in a safe location designated by the PM, PFS, or SHSO

- Stop Work Orders: In the event work is performed contrary to the provisions of the specifications and/or approved work plans, or contrary to the conditions of any applicable permit or certificate, or if upon inspection, it is determined that continuation of authorized work is likely to endanger any person or public and/or private property, then the work will be stopped by notice in writing served by the PM or any other authorized representative. . An example of a Stop Work Order is included in Appendix B.

8.7 SANITATION

An adequate supply of potable water will be provided. Potable drinking water containers will be capable of being tightly closed. The "common" drinking cup is prohibited. Adequate washing facilities for employees engaged in operations at the Site will be provided. The facilities will be in proximity to the active work area and will be equipped to handle both sexes.

8.8 SITE COMMUNICATION

Successful communication between field teams and SZ personnel is essential. An internal communication system among on-site personnel and an external communication system between on-site and off-site personnel will be established.

8.8.1 Internal Communication System

The internal communication system will be used to relay health and safety information, communicate changes in work, maintain site control, and alert personnel in case of emergencies. Verbal communications will be the primary method of routine communication.

8.8.2 External Communication System

The external communication system between on-site and off-site personnel is necessary to report to management, maintain contact with essential off-site personnel, and coordinate emergency response. Cellular telephones maintained in the SZ will be the primary means of external communication, and will be used to notify off-site emergency response agencies if incidents and to request assistance.

8.9 VISITOR CLEARANCES

Entry to hazardous areas will be limited to individuals who must work in those areas. Unofficial visitors must not be permitted to enter hazardous areas while work in those areas is in progress. Official visitors should be

discouraged from entering work areas, but may be allowed to enter only if they agree to abide by the provisions of this document, follow orders issued by the SSO, and sign a compliance agreement that they were informed of the potential dangers that could be encountered in the areas.

9.0 PERSONNEL PROTECTIVE EQUIPMENT (PPE)

The purpose of PPE is to isolate or protect personnel from the chemical and physical hazards that may be encountered at the work site. A site-specific PPE program has been developed. The various components of this program are levels of protection, respirator care, PPE inspection, and levels of protection per task.

PPE and safety precautions will be appropriate to protect against the known and potential health hazards in the subject area. The protective equipment required has been selected based on the contaminant type, anticipated concentrations in the air, and known routes of entry into the body.

9.1 LEVELS OF PROTECTION (LOP)

The LOP required for the investigation of the source of communication will be continually evaluated as fieldwork progresses. It should be noted that there may be increases or decreases in the LOP. The following levels of protection have been defined based on a review of work site histories and tasks to be performed.

9.1.1 Level D

USEPA Level D personnel protective equipment for all personnel entering the work area, unless the SHSO decides to upgrade the level of protective equipment to be used. Level D consists of the following:

- Work clothes (sleeved shirts and long pants)
- Construction quality boots with steel toe and shank
- Inner polyvinyl chloride surgical or latex gloves (when working with water or wet soil)
- Outer cotton or leather gloves
- Hard hats
- Safety glasses and hearing protection.

At a minimum, the following PPE will be discarded and replaced daily:

- Inner polyvinyl chloride surgical or latex gloves
- Outer polyvinyl chloride surgical or latex gloves.

New outer gloves should be used for each sample.

9.1.2 Modified Level D

Modified Level D personnel protective equipment may be required by the SHSO if monitoring data or the tasks to be performed suggests that personnel entering the work area need additional protection. Modified Level D consists of the following:

- Uncoated Tyvek

- During intrusive activities, Tyvek sleeves will be worn over the cuff of protective gloves and Tyvek legs will be worn over the upper portion of disposable boot covers. Tape will be used to seal the joints between Tyvek, protective gloves, and boot covers
- Protective disposable gloves (inner latex, outer nitrile or butyl)
- Chemical-resistant outer gloves
- Boots (PVC, neoprene or other chemically resistive material) with steel toe and shank, or boot covers
- Splash-resistant goggles will be worn if splashing may occur
- Hard hats.

9.1.3 Level C

Level C consists of Modified Level D gear plus:

- Full- or half-face respirators and NIOSH/OSHA approved cartridges sealed in a plastic bag and ready for immediate donning. The cartridges to be used will be HEPA organic vapor cartridges with dust mist pre-filter.

9.1.4 Level B

Level B is used when a high level of respiratory protection is required. This involves atmospheres with IDLH concentrations of specific substances that do not represent a skin hazard or atmospheres containing less than 19.5% oxygen. Level B gear consists of the following:

- Pressure-demand, full-face, self-contained breathing apparatus (SCBA), pressure-demand supplied-air respirator with escape SCBA, or supplied air respirator (SAR)
- Chemically-resistant tyvek suits (wet soil)
- Uncoated tyvek suits (dry soil)
- Chemically-resistant inner and outer gloves
- Chemically-resistant steel-toed rubber boots
- Hard hat
- Hearing protection
- Two-way radio communications.

Level B personal protective equipment will not be available on site. Should the SHSO determine that Level B protection is required, the CHSO will be contacted to make arrangements for a Certified Industrial Hygienist to evaluate the health and safety requirements at the site and prepare a more detailed HASP.

9.2 RESPIRATOR CARE

Each individual is responsible for inspecting and maintaining his or her own respirator. Before being taken into the field, all respirators will be inspected, cartridges (if used) installed, a positive and negative pressure check con-

ducted, and the entire respirator assembly will be sealed in a plastic bag. After the respirator is used, the following cleaning procedures will be used:

- Cartridges for air-purifying respirators will be removed and disposed of as contaminated PPE
- The respirator face piece interior and exterior will be wiped down with pre-moistened towelettes, such as baby wipes, and subsequently sealed in a plastic bag for transport to the respirator cleaning station at the personal decontamination facility
- After a respirator has been cleaned and rinsed, it will be patted dry with a clean towel and stored.

9.3 PPE INSPECTION

PPE inspection will be done before use, during use, and after use. The following will be inspected during the course of the work activities at the site.

9.3.1 Clothing

Before use:

- Determine that the LOP is correct for the specific task at hand by consulting with the SSO
- Visually inspect for:
  - Imperfect seams
  - Tears
  - Malfunctioning closures

During use look for:

- Evidence of chemical attack, such as discoloration, swelling, stiffening, and softening. However, chemical penetration can occur without any visible effects
- Closure failure
- Tears
- Punctures
- Seam discoloration.

9.3.2 Gloves

Before use, pressurize glove to check for pinholes. Blow into glove and make sure no air escapes.

9.3.3 Respirator

Before use:

- Make sure that respirators have been adequately cleaned
- Check material condition for signs of deterioration and distortion

- Examine cartridges or canisters for expiration dates and ensure that they are the proper type for intended use. Also, make sure that the canisters or cartridges have not been previously used.
- Perform a negative/positive pressure test.

After use, make sure that respirators have been adequately cleaned.

9.4 LEVEL OF PPE PROTECTION

The work being performed will be conducted in Level D or modified Level D. Levels of protection will be upgraded in accordance with action levels provided in Table 2: Response Level and Action. PPE ensembles have been selected to ensure a level of protection greater than the minimum required to protect employees from anticipated hazards. The HASP will further assess the workplace hazards and ensure that the proper PPE ensemble is provided and worn during work activities.

9.5 EQUIPMENT REQUIRED TO BE AVAILABLE ON SITE

Items required on-site include:

- First-aid kit with eye wash
- Fire extinguisher
- Construction tape and barriers to delineate work zone
- Spill containment equipment
- Decontamination equipment
- A vehicle must be kept on site when personnel are working for the transport of slightly injured personnel to the hospital (severely injured personnel MUST be transported by paramedics).

10.0 DECONTAMINATION METHODS

Decontamination procedures will be implemented to protect personnel from hazardous substances that may contaminate and/or eventually permeate protective clothing, respiratory protective equipment, tools, vehicles, and other equipment used on-site; to protect all site personnel by minimizing the transfer of harmful materials into clean areas; to prevent mixing of incompatible chemicals; and to protect the community by preventing uncontrolled transportation of contaminants from the site. Personnel exiting the EZ will pass through the CRZ, where protective gear will be cleaned and/or discarded. There will be one CRZ per EZ. The particular location of the CRZ will be determined during the initiation of site activities.

10.1 PERSONNEL DECONTAMINATION

Personnel decontamination facilities will be supplied with a potable water supply. All personnel leaving the EZ must exit through the CRZ and perform appropriate decontamination procedures to prevent the transfer of contaminated materials into clean areas. The types of contaminants that they may have contacted and their function in the CRZ should determine the extent of their decontamination.

The decontamination process consists of a series of procedures performed in a specific sequence, depending on the level of PPE worn and site contaminants present. Before the start of work activities, the number and layout of

decontamination stations will be determined. To prevent cross-contamination, each procedure will be performed at a separate station, and stations will be arranged in order of decreasing contamination. In the event that Level C or B equipment is used, the following procedures will be instituted for decontamination all articles leaving the EZ and CRZ to prevent or reduce the physical transfer of contaminants by people and/or equipment from the subject area.

PERSONNEL EXITING EZ:

- If the worker is heavily contaminated, water will be used to remove contamination prior to entering the CRZ. Water will be contained in a bucket or tub
- Deposit used equipment in the EZ or on tables in the CRZ for subsequent decontamination
- Discard or scrub outer boot covers or polyvinyl chloride (PVC) overboots and outer gloves with decontamination solution or detergent and water
- If gross contamination is evident, remove contamination, to the extent practicable, from disposable suit and/or tank using disposable wipes or towels, with assistance from CRZ technician
- Remove tape around boots and gloves. Remove outer boot covers or PVC overboots and outer gloves. Discard tape, boot covers, and outer gloves in appropriate container
- Remove inner gloves and discard in appropriate container
- Thoroughly wash hands and face
- All PPE, including respirator, protective clothing and boots, will be removed and placed in appropriately marked containers, for disposal or for decontamination (boots and respirator minus cartridges) as the individual steps from the CRZ to the SZ
- Used boots, respirators, and other reusable personal protective equipment will be dismantled (if possible), decontaminated with mild detergent and warm tap water, and rinsed with clean tap water in the CRZ
- The spent solutions, brushes, and the like will, until shown otherwise, be considered contaminated and so treated
- Workers/visitors will be required to wash thoroughly with soap and water prior to leaving the site and will be instructed to remove work clothes and shower as soon as possible thereafter.

10.2 EQUIPMENT DECONTAMINATION

Vehicles and equipment will be decontaminated before exiting the EZ. People and/or equipment from the subject area will institute the following procedures for decontaminating all vehicles and equipment leaving the EZ and CRZ to prevent or reduce the physical transfer of contaminants:

- An equipment decontamination pad or area will be designated for cleaning large equipment utilized during work activities
- All sampling devices will be decontaminated by scrubbing or wiping a decontamination solution and water on the device
- Tools that are difficult to decontaminate will be kept in the EZ and handled only by workers using the appropriate PPE

- Respirators will be decontaminated and sanitized before being reused
- Following decontamination of equipment using steam cleaning, a final steam/water rinse will be applied
- The spent solutions, brushes, and the like will, until shown otherwise, be considered contaminated and so treated
- Wash materials will be disposed of properly
- All porous equipment, which is believed to be contaminated, will be disposed of as hazardous waste.

10.3 EMERGENCY DECONTAMINATION

During emergency situations, decontamination will be performed to the maximum extent possible without compromising medical attention to the victim. If decontamination may aggravate or cause more serious health effects, or if injuries are life threatening, prompt life saving, first aid and medical treatment should be administered without decontamination or concurrently with it. Outer garments can be removed (depending on the weather) if it does not delay or interfere with medical treatment, or aggravate the problem. Respirators and backpack assemblies must always be removed. If outer garments cannot be safely removed, the victim should be wrapped in plastic, rubber, or blankets to minimize contamination of emergency transport vehicles and medical personnel. Whenever possible, site personnel should accompany the contaminated victim to the medical facility to advise of matters involving decontamination.

10.4 EQUIPMENT FOR DECONTAMINATION OF PERSONNEL, PPE, AND HEAVY EQUIPMENT

The following is a list of equipment needed to conduct proper decontamination of personnel, PPE, and equipment:

- Drop cloths of plastic or other suitable materials on which heavily contaminated equipment and other protective clothing may be deposited
- Collection containers, such as drums or suitably lined trash cans for storing disposable clothing and heavily contaminated personal protective clothing or equipment that must be discarded
- Lined box with absorbents for wiping or rinsing off gross contamination and liquid contaminants
- Galvanized tubs, stock tanks, or children's wading pools to hold wash and rinse solution. The tubs should be large enough for a worker to place a booted foot inside
- Appropriate wash solutions to wash off and reduce hazards associated with the contaminants
- Long-handled, soft-bristled brushes to scrub contaminants off PPE and for general exterior cleaning of heavy equipment
- Paper or cloth towels for drying protective clothing and equipment
- Metal or plastic drums for contaminated wash and rinse solutions
- Plastic sheeting, sealed pads with drains, or other appropriate methods for containing and collecting contaminated wash and rinse solutions
- Soap or wash solutions, wash cloths, and towels for personnel.

10.5 TRUCK DECONTAMINATION

The dump trucks will park adjacent to the excavation area to await loading. Once loaded, soil that has fallen on the exterior of the truck can be wiped or brushed off prior to the truck exiting the Site.

11.0 EMERGENCY RESPONSE PROCEDURES

This Emergency Response/Contingency Plan (ERP) has been developed to include instruction and procedures for personnel evacuation and procedures for medical emergencies that may occur during the project. All personnel emergency conditions require actions conducted in a manner that minimizes health and safety risks. All on-site personnel must be familiar with the ERP. Additions to the ERP will be incorporated into this HASP by addendum. All aspects of the plan will be addressed as part of the site-specific health and safety training required for all personnel.

11.1 RESPONSIBILITIES

11.1.1 Corporate Health and Safety Officer

The CHSO, or designee, will oversee the development and approval of the ERP and perform audits to ensure that the ERP is in effect and that all pre-emergency requirements are met. The CHSO will act as a liaison to applicable regulatory agencies and notify OSHA of reportable accidents or fatalities.

11.1.2 Project Field Supervisor

The PFS will be responsible for ensuring that all site work is performed in a safe manner. In an emergency situation, the PFS may serve as a focal point for the dissemination of information or as a Community Relations Manager. On this site, the PFS will act as the Emergency Coordinator.

11.1.3 Project Manager

The PM is ultimately responsible for field implementation of the ERP. This includes communication specific health and safety requirements to the PFS and consulting with the CHSO regarding planned activities, unforeseen conditions and for resolving any questions with identified safety procedures.

11.1.4 Site Health and Safety Officer

The SHSO is responsible for assisting the CHSO in development of the ERP and ensuring its provisions are abided by on-site. The SHSO is responsible for seeing that all personnel are evacuated safely and that all equipment are shut down or secured in the event of a stop work order or evacuation. The SHSO will complete an Accident/Incident form, which includes the following:

- A description of the emergency
- Date, time, and name of all persons/agencies notified and their response
- A description of corrective actions implemented or other resolution of the incident.

11.1.5 Emergency Coordinator

The Emergency Coordinator is responsible for implementing the ERP whenever conditions warrant. The Emergency Coordinator is responsible for ensuring the emergency treatment, transport, and evacuation of site personnel and notification of the appropriate individuals when the ERP has been implemented. The Emergency Coordinator also is responsible for prior notification of emergency services (fire, police, hospital, ambulance, etc.) about the nature and duration of work expected on the site, types of COCs, possible health and safety effects and the anticipated emergency conditions.

11.1.6 On-Site Personnel

All on-site personnel are responsible for knowing the ERP and its procedures. Personnel will be expected to notify the Emergency Coordinator of occurring or impending emergencies and to cooperate fully once the plan has been implemented. All information is to be communicated to the Emergency Coordinator. All media and public inquires are to be directed to the Emergency Coordinator.

11.2 POTENTIAL EMERGENCIES

The activities, layout, and hazards of the site have been evaluated to determine anticipated potential emergencies. Five categories of emergencies have been identified. The list will be revised in the event on-site conditions or operations warrant. The ERP will be updated in case of a revision or addition to the list. Anticipated emergencies include:

- Injury or illness
- Fire
- Explosion
- Spill/environmental release
- Natural disaster/hazard.

At this site, personnel accidents requiring first aid, potential fires, and potential exposure to soil with COC are emergencies that may arise.

11.3 PUBLIC RESPONSE AGENCIES

Contact between site personnel and local emergency services will assist in developing a good working relationship and provide an opportunity for the development of effective, overlapping emergency plans. The Emergency Coordinator will contact the local hospital before beginning work on the site. The nature and duration of work, types of COCs and the potential emergency conditions will be discussed.

11.4 EMERGENCY CONDITIONS

Whenever there is an emergency at the site, the following steps will be taken:

- An immediate report of the emergency will be made to the PM and PFS
- The emergency will be assessed by the PFS and identify:
  - The name, location, and telephone numbers of the appropriate agencies

- The nature of the emergency
- Hazardous conditions (fire, explosion, etc.)
- The amount of material involved or released
- The extent to which evacuation should occur

- The PFS will notify all personnel on-site and activate the appropriate response
- All work will be stopped and evacuation initiated if appropriate
- The PFS will notify the following as necessary:

Agency	Type of Incident	Phone Number
Ambulance	Any situation requiring immediate medical attention	911
Hospital	Any situation requiring immediate medical attention	(562) 498-1000
Fire Department	Any uncontrollable fires	911
Police Department	Any crimes	911
USEPA	Damage to the environment	(800) 342-4636
Meredith & Associates	Any accident or incident	(310) 670-9221

Should the emergency draw the attention of the public, all inquiries are to be directed to the PFS.

11.5 EMERGENCY EQUIPMENT

In addition to equipment that is to be used only in the event of an emergency, other equipment used in the event of an emergency also may be used as part of regular operations, this may include PPE, telephones, etc. The following emergency equipment will be maintained at the first-aid station:

- Fire extinguisher
- Cell phone
- First-aid kit
- Eye wash solution.

11.6 ON-SITE PERSONNEL INJURY/ILLNESS

First aid will be administered on-site as necessary. Personnel requiring medical attrition will be transported or emergency medical services will be contacted to respond. The medical data sheet will accompany the injured person. The route to the hospital is shown on Figure 1. This map will be posted at the first-aid station and is to be taken with the driver of the injured individual. The hospital will be notified of the impending arrival and provided with pertinent information while the injured individual is being transported.

Basic first aid procedures must be followed in the event a person working on site is injured. Depending on the severity of the injury, emergency medical response may be sought. If the person can be moved, they will be taken to the edge of the work area where emergency first aid can be administered. If necessary, transportation to the local emergency medical facility will be provided.

If the injury to on-site personnel involves chemical exposure, the following first-aid steps must be taken immediately:

- Eye Exposure – If foreign material (liquid or solid) gets into the eyes, wash eyes immediately for at least 15 minutes using water and lifting the lower and upper lids occasionally. Obtain medical attention immediately.
- Skin Exposure – Wash skin immediately with water. Obtain medical attention immediately.
- Inhalation – If a person has inhaled a large amount of organic vapor, dust, etc., move them to fresh air at once. Obtain medical attention immediately. If breathing has stopped, appropriately trained personnel and/or medical personnel should perform CPR. Keep the person warm and comfortable.
- Ingestion – If liquid or solid is swallowed, obtain medical attention immediately. The Poison Control Center also must be consulted.

The SSO must inform the PM of any injury/accident and a written report of the accident, its causes and consequences must be submitted to the client within 48 hours of the incident.

11.6.1 Temperature Related Problems

First aid for all forms of heat stress includes cooling the body. This may involve removing PPE and moving the person to a cooler environment to rest.

11.6.2 Emergency Decontamination

In case of a medical emergency, gross decontamination procedures will be implemented and the person transported to the nearest medical facility. If a life threatening injury occurs and the injured person cannot be decontaminated without causing additional injuries, every effort will be made to ensure exposure of others to potential COCs is minimized. The medical facility will be notified of the potential COC present and the exposure prevention measures that can be employed during treatment.

Decontamination measures for emergencies will be based on the toxicity of the COC on-site and the immediacy of the emergency.

11.6.3 Fire

M&A will not respond to any fire that is larger than is able to be handled by the on-site portable fire extinguishers. Any fire too large to be extinguished by the portable extinguishers will be reported immediately to the local fire department by dialing 911.

There are three basic ways to extinguish a fire:

- Take away its air
- Take away its fuel
- Cool the fire.

To put out a fire:

- Put it out with a fire extinguisher, water or other liquid (e.g., coffee)
- Move all flammable materials away from the fire
- Smother the fire with a coat or other heavy, if possible wet, object.

To use a fire extinguisher:

1) Pick the extinguisher up by the handle.
2) Pull the ring at the top to release the safety pin
3) Keep the extinguisher upright, aim at the base of the fire, and squeeze the handle.

No individual should attempt to put out a fire unless they are sure they are able to do it. SUMMON HELP IMMEDIATELY IF YOU THINK YOU ARE UNABLE TO PUT IT OUT!

The fire extinguishers at the site are multi-purpose dry chemical (ABC). These types of extinguishers are effective on ordinary combustibles, flammable liquids, and electrical equipment. The effective range is approximately 5 to 15 feet. The contents will be discharged in 8 to 25 seconds.

The first five minutes are the most critical in putting out a fire. It is crucial that the fire department be notified as soon as possible when a fire is discovered. Do not hesitate to report small fires. The fire can spread and become a threat to everyone's safety.

Most fire related deaths occur for poisonous gases, smoke, and panic. Few deaths are the result of being burned. Panic is the most common cause of death in a fire situation. In the event of a fire, know what to do and DO NOT PANIC.

If a fire occurs while working within a building, evacuate by the building by doing the following:

1) Listen to the instructions of the PFS
2) Walk to the nearest exit unless instructed otherwise
3) To prevent a bottleneck, move to the assembly area
4) Await further instructions.

11.6.4 Explosion

An explosion can be the most difficult emergency to deal with. Reasons include trauma, death, fire, unstable structures, secondary explosions, toxic clouds, and destruction of emergency equipment. The following, measures, and backup systems may be required:

- Initiate evacuation procedures
- Notify appropriate response agencies (fire, police, etc.)
- Assess situation – are secondary emergencies occurring or about to occur?
- Turn off or remove sources of explosives
- Attend to the injured
- Check for exposed live utilities
- Initiate spill response measures (if necessary).

11.7 SPILLS/ENVIRONMENTAL RELEASE

The first responder on the scene is responsible for spill containment until additional help arrives. Upon arriving at the scene, the individual will determine:

- The location of the spill
- If liquid, direction of flow
- If possible the identity of the leaking material
- Potential hazards to responders.

If the leaking material is not completely characterized, the maximum PPE should be worn and only experienced individuals should enter the area.

Spilled liquids may be contained by the construction of dikes, diversion of spills to specific areas, inlet blockage, of solidification. Special attention should be given to quickly preventing spills from leaving the confines of the property and entering the public right-of-way or sewer/storm drain system.

Equipment or supplies for controlling spills may include the following:

- Sandbags
- Sorbent socks, pillows, etc.
- Dry granular sorbent
- Salvage pumps
- Drums
- Plastic sheets, tarps, salvage covers, etc.
- Sorbent booms
- Barrier booms.

In addition to containing the spilled materials, the source of the spill must also be controlled. For leaking containers (e.g., drums, small tanks, etc.) the material should be transferred to vessels capable of storing the liquids. Used materials such as sorbent pads/booms/sheets or granular sorbents are to be collected in the appropriate storage containers until they can be disposed of properly.

Once containment of the spill has occurred, and/or sufficient help has arrived, the PM must be notified. The PM then will notify the appropriate parties (e.g., USEPA, local fire department, etc.) to report the release.

11.8 NATURAL HAZARDS

In the event of a natural disaster, work will be halted and the site secured as possible. Restoration after the event will include a recheck of all operating systems, containment and cleanup of spills and resumption of operations.

11.9 BOMB THREATS/CIVIL COMMOTION

Bomb threats, vandalism, arson, riots, and assaults are almost impossible to anticipate. However, using common sense and implementing security measures can prevent or reduce their impact and proper response can help control further loss.

11.10 HAZARDOUS MATERIALS INFORMATION

EPA-INFO	(800) 342-4636
TOXLINE	(301) 496-1131
CHEMTREC (24-hour, emergency)	(800) 424-9300
ORNL, Toxicology Information Response Center	(615) 576-1743
Poison Control Center	(800) 682-9211

11.11 WORK SITE ADDRESS

1845 East Willow Street
Signal Hill, California

11.12 CONTACTS

Lynn Edlund or Roger McCracken
MEREDITH & ASSOCIATES, INC.
9841 Airport Blvd. Suite 1010
Los Angeles, California 90045
Telephone: (310) 670-9221
Fax: (310) 670-9512

11.13 HOSPITAL ADDRESS AND ROUTE

Address: Community Hospital of Long Beach
1720 Termino Avenue
Long Beach, California 90804
Telephone: (562) 498-1000

Hospital route:

- Exit site onto 27th Street
- Turn right (east) onto 27th Street
- Proceed approximately 0.12 mile to Cherry Avenue. Turn right (south)
- Proceed approximately 1.0 mile to Pacific Coast Highway. Turn left (east)
-
- Proceed approximately 1.25 miles to Termino Avenue. Turn right (south)

The hospital is on the left side of the street at the northeast intersection of Termino Avenue and East Wilton Street.

TABLES

TABLE 1

CHEMICAL EXPOSURE LIMITS

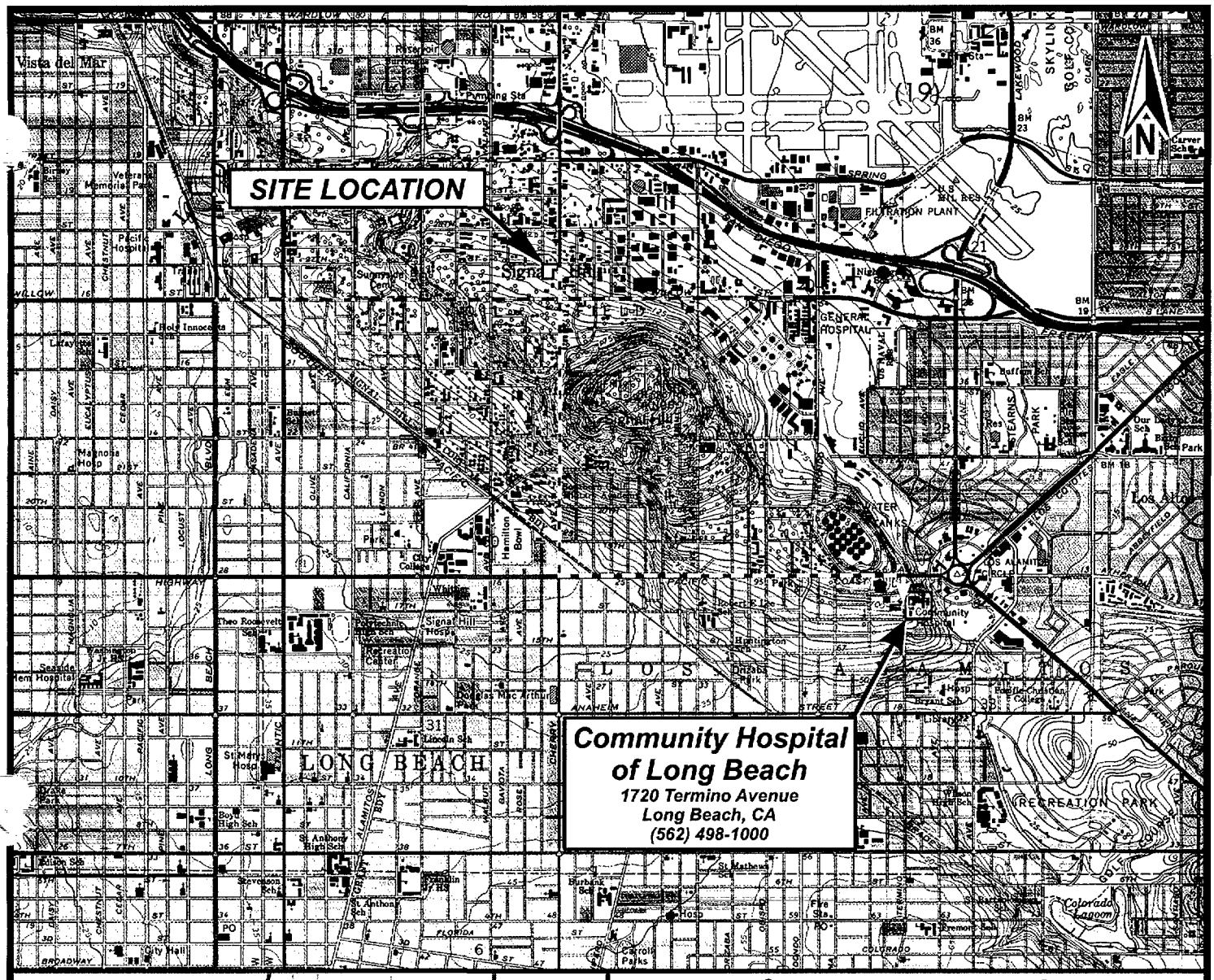
Chemical	Exposure Limits (ppm)			
	CAL/OSHA PEL	TLV	STEL	IDLH
Acetone	750 ppm	250 ppm	1,000 ppm	2,500 ppm
Aluminum	10 mg/m^3	10 mg/m^3	NA	NA
Anthracene	0.2 mg//m^3	NA	NA	NA
Antimony	0.5 mg/m^3	0.5 mg/m^3	NA	50 mg/m^3
Arsenic	0.2 mg/m^3	0.002 mg/m^3	NA	5 mg/m^3
Barium	0.5 mg/m^3	0.5 mg/m^3	NA	50 mg/m^3
Benzene	1.0 mg/m^3	0.1 mg/m^3	5.0 ppm	500 ppm
Benzo(a)perylene	0.2 mg/m^3	NA	NA	NA
Benzo(k)fluoranthene	0.2 mg/m^3	0.1 mg/m^3	NA	NA
Beryllium	0.002 mg/m^3	0.0005 mg/m^3	0.005 mg/m^3	4.0 mg/m^3
Cadmium	0.005 mg/m^3	NA	NA	9.0 mg/m^3
Carbon disulfide	4.0 ppm	1.0 ppm	12 ppm	500 ppm
Chromium (III)	0.5 mg/m^3	0.5 ppm	NA	25 mg/m^3
Chromium (VI)	0.5 mg/m^3	0.001 mg/m^3	0.1 mg/m^3 (ceiling)	15 mg/m^3
Chrycene	0.2 mg/m^3	NA	NA	NA
Cobalt	0.05 mg/m^3	0.05 mg/m^3	NA	20 mg/m^3
Copper	1.0 mg/m^3	1.0 mg/m^3	NA	100 mg/m^3
Cyanide	5.0 mg/m^3	NA	NA	NA
Dichlorodifluoromethane	1,000 ppm	1,000 ppm	NA	15,000 ppm
Ethylbenzene	100 ppm	100 ppm	125 ppm	800 ppm
Fluoranthene	0.2 mg/m^3	0.2 mg/m^3	NA	NA
Hexone	50 ppm	50 ppm	75 ppm	500 ppm
Indeno(1,2,3-cd)pyrene	0.2 mg/m^3	NA	NA	NA
Iron	1.0 mg/m^3	5 mg/m^3	NA	2,500 mg/m^3
Lead	0.05 mg/m^3	0.1 mg/m^3	NA	100 mg/m^3
Manganese	5.0 mg/m^3	1.0 mg/m^3	NA	500 mg/m^3
Mercury	0.01 mg/m^3	0.05 mg/m^3	NA	10 mg/m^3
Methyl ethyl ketone	200 ppm	200 ppm	300 ppm	3,000 ppm
Methylene chloride	25 ppm	NA	125 ppm	2,300 ppm
Nickel	1.0 mg/m^3	0.015 mg/m^3	NA	10 mg/m^3
Phenanthrene	0.2 mg/m^3	0.1 mg/m^3	NA	NA
Silver	0.01 mg/m^3	0.01 mg/m^3	NA	10 mg/m^3
Tetrachloroethene	25 ppm	NA	100 ppm	150 ppm
Thallium	5.0 mg/m^3	0.1 mg/m^3	NA	15 mg/m^3
Toluene	50 ppm	100 ppm	150 ppm	500 ppm
Trichloroethene	25 ppm	NA	200 ppm	1,000 ppm
Vanadium	0.05 mg/m^3	0.05 mg/m^3	NA	35 mg/m^3
Xylenes	100 ppm	100 ppm	150 ppm	900 ppm
Zinc	5.0 mg/m^3	5.0 mg/m^3	10 mg/m^3	500 mg/m^3
1,1,1-trichloroethane	350 ppm	350 ppm	450 ppm	700 ppm

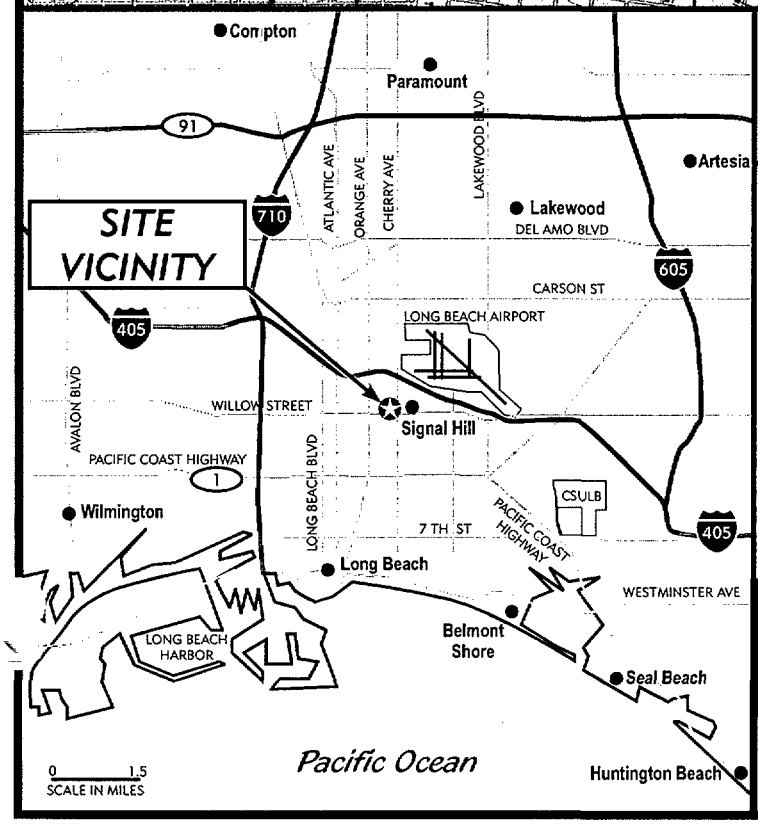
TABLE 2

RESPONSE LEVEL AND ACTION

Instrument	Reading	Additional Monitoring	Action
PID (breathing zone)	>5 ppm above background sustained for 10 seconds	--	Stop work, move upwind, monitor perimeter, and notify SHSO and PM; continue work when levels decrease
	Every 1 ppm increase	--	Stop work, move upwind, monitor perimeter, and notify SHSO and PM; may continue in Level C or wait until levels decrease
	>5 ppm	--	Stop work, move upwind, monitor perimeter, and notify SHSO and PM; may continue in Level C
	>50 ppm	--	Stop work, move upwind, monitor perimeter, and notify SHSO and PM
Observation	Potential for splashing/dust	--	Upgrade to modified Level D
Thermometer	>75 °F	--	Institute heat stress program
Noise	>85 dBA	--	Requires ear plugs

FIGURES

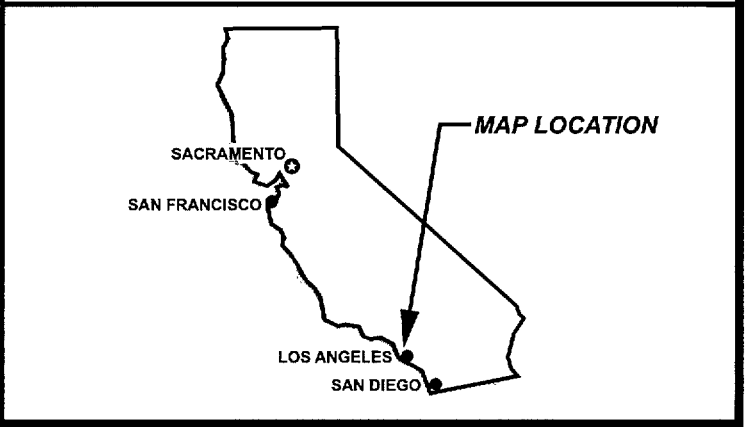




0 ½ 1

BASE MAP: U.S. Geological Survey 7.5 Minute Series Long Beach, CA Quadrangle 1964, Photorevised 1981.

Scale (Miles)



M&A Meredith & Associates, Inc.
Scientific, Environmental Engineering, and Regulatory Consultants

DICO OIL COMPANY SITE
1845 EAST WILLOW STREET
SIGNAL HILL, CALIFORNIA

SITE LOCATION MAP AND EMERGENCY ROUTE TO HOSPITAL

FIGURE 1

2003-123

02/16/04

APPENDIX A

MEDICAL SURVEILLANCE, TRAINING, AND ECAVATIONS

M&A Safe Work Practices
Prevention of Heat Stress and Stroke

Heat stress may manifest as a variety of health effects ranging in seriousness from temporary fatigue to death. Factors influencing heat stress include individual susceptibility, environmental conditions, personnel protective equipment, and the level of physical exertion. The Site Safety Officer will take precautionary measures against heat stress, and monitor workers for symptoms of heat stress or heat stroke, as necessary, depending on the ambient temperature and worker susceptibility.

Heat Stress Symptoms

Symptoms of heat stress include the following:

- Heat rash
- Heat cramps caused by heavy sweating
- Pale, cool, moist skin
- Dizziness
- Nausea
- Fainting.

Heat Stroke

In extreme cases, heat stroke causes the body temperature to rise to critical levels. Immediate action must be taken to cool the body to prevent serious injury or death. Symptoms of heat stroke include the following:

- Red, hot, dry skin
- Lack of perspiration
- Nausea
- Dizziness and confusion
- Strong rapid pulse
- Coma.

Reproductive Effects

- If during the first trimester of pregnancy, a female worker's core temperature exceeds 102.2 °F for extended periods, there is an increased risk of malformation to the unborn fetus.
- Temporary infertility in both men and women may be associated with core temperatures exceeding 100.4 °F (ACGIH, 1996).

Worker Susceptibility

Factors that may affect a person's susceptibility to heat stress include:

- Dehydration
- Acclimatization
- Physical condition
- Infection
- Sunburn
- Medications
- Chronic disease
- Age.

Safe Work Practices

The following practices are recommended for moderate exertion work (e.g., sitting or standing with intermittent walking, etc.) in Level D ensemble at adjusted temperatures of not more than 80 °F:[1]

- Inform workers of heat stress symptoms.
- Encourage workers to drink 16 ounces of cool water or sport drink before commencing work.
- Encourage workers to drink water or sport drink at each work break.
- Visually monitor workers for symptoms of heat stress.

The recommended frequency for rest breaks and monitoring is presented in Table 1. When the ambient air temperature, adjusted for the added effects of direct sunlight (see Table 1), reaches 80 °F, or workers begin to exhibit signs of heat stress, the Site Safety Officer shall monitor pulse rates at the beginning of each break. For workers wearing semi-permeable or impermeable encapsulating suits, monitoring shall be performed when the adjusted temperature reaches 70 °F. If rates exceed 55 pulses per 30-second period, the duration of the next work cycle shall be shorten by 33 percent.

The following actions shall be taken in response to heat stress symptoms:

- Workers who exhibit symptoms of heat stress shall not be permitted return to work until symptoms have abated.
- If a worker exhibits symptoms of heat stroke, immediate action shall be taken to cool the body, and emergency medical care summoned
- Notify the Corporate Health and Safety Officer when persons exhibit signs of heat stress.

---

(1) [Note: Heat stress may be of especial concern when working inside of a tank or other confined space where humidity may be high and temperatures may exceed ambient air temperatures. M&A employees are prohibited from entering a confined space or tank except under the conditions specified in M&A's Work Practices for confined space.]

TABLE 1. Recommended Work Break Frequency and Monitoring to Prevent Heat Stress[2],[3]

Adjusted Temperature Range	Level D	Impermeable Clothing
72.5 °F-77.5 °F	Every 150 minutes	Every 2 hours
77.5 °F-82.5 °F	Every 2 hours	Every 1.5 hours
82.5 °F-87.5 °F	Every 1.5 hours	Every 1 hour
87.5 °F-90 °F	Every 1 hour	Every 30 minutes
90 °F and Above	Every 45 minutes	Every 15 minutes

References:

American Conference of Governmental Industrial Hygienists. *Threshold Limit Values for Chemical Substances and Physical Agents, Biological Exposure Indices*. Cincinnati. 1996.

National Institute for Occupational Safety & Health. *Occupational Safety & Health Guidance Manual for Hazardous Waste Site Activities*. Cincinnati. October 1985.

---

(2) The adjusted temperature takes into account the effects of direct sunlight. The adjusted temperature may be calculated by measuring the temperature with a standard glass-mercury thermometer that is shielded from sunlight or other radiant heat sources and applying the following formula:

$$\text{Adjusted Temperature } ^\circ\text{F} = {}^\circ\text{F} + (13 \times \% \text{ sunshine})$$

[Note: On a typical cloudless Southern California day, the % sunshine = 100%.]

(3) This table presents the recommended frequency of rest and monitoring for physically fit and acclimatized workers, working at a low to medium low exertion level (e.g., 250 kilocalories/hr.)

MEREDITH & ASSOCIATES
MEDICAL SURVEILLANCE AND TRAINING POLICIES

MEDICAL SURVEILLANCE

In accordance with Section 6.0 of M&A's Employee Handbook and Section 4.2 of its Injury and Illness Prevention Program, mandatory medical surveillance has been instituted for selected technical/professional staff, who routinely work at job sites at which they may come into contact with hazardous substances. The program was developed to comply with the requirements of the Part 1910.120 Federal OSHA Standards. The purpose of the program is to provide comprehensive medical examination and assessment of employees whose job functions may involve working with hazardous substances. Through medical surveillance, each individual is assessed from the standpoint of their ability to work in environments where chemical exposure, physical stresses such as heat and noise, and the use of respiratory protection may be involved.

Baseline (i.e., pre-field work), annual, exit (i.e., upon termination of employment), and if necessary, special/ "emergency" medical examinations (if necessary) are required and are provided by M&A at no cost to the employee. The content of the examinations is determined by qualified occupational health specialists and physicians of the Centinela Hospital Airport Medical Clinic, located at 9601 South Sepulveda Boulevard, Los Angeles, California 90045. It includes the following categories: work history, medical history, CBC (i.e., WBC, RBC, hemoglobin, hematocrit, MCV, MCH, RDW, platelets, MPV, and WBC Diff), chemistry panel (including lead, HDL cholesterol, LDCL, and LDL/HDL ratio), urinalysis, spirometry, audiometry, chest X-ray, and direct examination (including blood pressure, pulse, and rectal). For employees over the age of 40, a resting electrocardiogram (EKG) is taken; for employees 50 years of age or older, a treadmill EKG is performed.

A "Respirator Wearer's Certificate Form" accompanies the copy of the examination reports and laboratory analytical results, which are forwarded in confidence to M&A's health and safety officer pursuant to a "General Authorization for Release of Information Form." The Form must be signed in advance by the employee and the attending physician. As a matter of policy, M&A has directed the occupational health specialists and physicians of the Centinela Hospital Airport Medical Clinic to update the scope of the policy, as appropriate, to reflect the specific hazardous substances to which M&A's employees have the greatest potential for adverse exposure.

TRAINING

All M&A field personnel and subcontractor field personnel have received 40-hour OSHA training per 29 CFR 1910.120 regulations. M&A project supervisors have received 8-hour management and supervisor training per Title 8 CCR section 5192(e)(4) regulations. Follow-up annual 8-hour refresher training also is required. This training covers topical areas related to health hazard recognition, safety training, respiratory protection training, equipment training, safe work practices, personal hygiene, etc. In addition to the OSHA hazardous waste site worker training, all M&A field personnel assigned have current certifications in adult first-aid and cardio-pulmonary resuscitation (CPR). All workers will have undergone respirator fit tests in the event that respirators may be required during field investigations. Additionally, drilling subcontractor employees also maintain certification in adult first-aid and CPR; they also undergo specialized training that covers operation of the drill rigs and safety procedures as part of their employment.

M&A Safe Work Practices for Excavation Activities

M&A employees and its subcontractors shall comply with all applicable regulations regarding excavation including but not limited to the California Occupational Safety and Health (Cal-OSHA) requirements that are contained in Title 8, California Code of Regulations (CCR), Sections 5140 and 5141. The following general safe work practices shall apply.

- M&A employees are prohibited from entering excavations in excess of 4 feet in depth unless special approval is obtained from the Corporate Health and Safety Officer.
- At least 48 hours before commencing any excavation, contact Underground Service Alert (800) 422-4133. Retain a copy of the service ticket with the project files.
- In addition to contacting Underground Service Alert, a geophysical survey shall be performed to identify service lines, gas lines, and other obstructions.
- Where the potential for an oxygen deficient, flammable or toxic atmospheres exist, air monitoring shall be performed to ensure safe conditions before employees enter excavations in excess of 4 feet in depth.
- When hazardous atmospheres exist and the excavation is more than 4 feet deep, the excavation shall be considered a confined space, and confined space permit procedures shall apply.
- For trenches or excavations more than 4 feet deep, a ladder, stairway, or other safe means of egress shall be provided so as to require no more than 25 feet of lateral distance to reach a means of egress. Structural ramps must be designed by a competent person. When ramps are constructed of two or more structural members, they must be connected to prevent displacement.
- Excavations that are 5 feet or more in depth shall be protected from cave-in using sloping or support systems (aluminum hydraulic shoring is the preferred system).
- In general sloping shall be no steeper than 34 degrees (1.5 to 1). For excavations less than 20 feet deep, the following maximum allowable slopes may be used as provided for in Title 8, Section 5141, Appendixes A and B (see attached):
  - Excavations in stable rock 90 degrees
  - Excavation in Type A Soils 53 degrees (0.75 to 1)
  - Excavation in Type B Soils 45 degrees (1 to 1)
  - Excavation in Type C Soils 34 degree (1.5 to 1)
- Whenever slopes exceed 34 degrees, the soils type and slope stability must be reviewed by a registered geologist or a professional geotechnical engineer before employees enter an excavation.
- Aluminum hydraulic shoring shall be installed in accordance with the manufacturer's tabulated data or the installation must be approved by a civil engineer, registered in the state where the work is being performed, and who is a subcontractor to M&A.
- Shoring systems for which there are no manufacturer's specifications must be approved by a civil engineer, who is registered in the state where the work is being performed , and who is a subcontractor to M&A.
- The excavation edge shall be clearly marked with barricades and/or hazard tape.

- Persons may not work underneath loads handled by lifting or digging equipment.
- Persons shall not work in excavations in which water has accumulated unless adequate precautions have been taken. Precautions may include shoring or other means which have been approved by a registered geologist or professional engineer.
- A competent person shall inspect the integrity of the excavation at the beginning of each work shift.
- All excavations, open pits, wells, or shafts shall be barricaded, covered, or secured when job site personnel are not present so as to prevent persons or animals from accidentally falling into the excavation.

APPENDIX B

FORMS

SAFETY MEETING FORM

Facility:	Job Number:
Date:	Time:
Site Location:	
Type of Work:	
Chemicals:	
SAFETY TOPICS PRESENTED	
Protective Clothing/Equipment:	
Chemical Hazards:	
Physical Hazards:	
Environmental Hazards:	
Health Effects:	
Emergency Procedures:	
Nearest Hospital/Clinic:	
Phone:	Paramedics Phone:
Special Equipment::	
Other:	
ATTENDEES	
Name Printed/Signature	Name Printed/Signature
Meeting Conducted by:	
Supervisor:	

Acknowledgement Statement

I understand and agree to abide by the provisions of this health and safety plan, including the appendixes.

Name	Title	Date
Name	Title	Date
Name	Title	Date
Name	Title	Date
Name	Title	Date
Name	Title	Date
Name	Title	Date
Name	Title	Date
Name	Title	Date
Name	Title	Date
Name	Title	Date
Name	Title	Date
Name	Title	Date
Name	Title	Date
Name	Title	Date
Name	Title	Date

HEALTH AND SAFETY COMPLIANCE AGREEMENT

Project Number: _____ **Site Location:** _____

Site Name: _____ **Date of Plan:** _____

Project Manager: _____ _____ _____
Name Signature Date

Project Health & Safety Officer: _____ _____ _____
Name Signature Date

Site Health & Safety Officer: _____ _____ _____
Name Signature Date

I the undersigned have reviewed a copy of the health and safety plan prepared for the project identified above. I have read the plan, understand it, and agree to comply with all of the health and safety requirements contained in this plan. I understand that I may be prohibited from working on the project for violating any of the requirements.

SIGNED	NAME	COMPANY	DATE

SAFETY COMPLETION REPORT

(This report must be submitted to the Health and Safety Officer within five days after the completion of the project.)

Report Completed: _____

Name Signature Date

Project Name: _____ Project Number: _____

1. Evaluation of Health and Safety Plan (Add additional pages if required.)

a. Was the HSP Adequate? ☐ No ☐ Yes

b. Did the HSP adequately anticipate chemical and physical hazards actually present at the Site? ☐ No ☐ Yes

c. What situations were discovered that were not anticipated in the HSP?

_____

_____

d. How were these situations handled? _____

_____

_____

e. Was the recommended personal protective equipment (PPE), such as gloves, respirators, eye, face and whole body skin protection appropriate to protect employees from chemical hazards? ☐ No ☐ Yes

f. If not, what should be improved in future HSPs of this type? _____

_____

_____

2. Exposure Data

a. Were any employees exposed to chemical or physical hazards as a result of failure of PPE or other problems?

☐ No ☐ Yes

If yes, give names of employees: _____

_____

b. Was monitoring performed? ☐ No ☐ Yes

c. What type of monitoring was performed? ☐ Area Monitoring ☐ Personal (On Employee) Monitoring

d. What type of monitoring equipment was used?

☐ Personal Air Sampling Pumps
☐ Vapor Badges
☐ Charcoal Sorbent Tube (Analyzed by Lab)
☐ Direct Reading instruments including:
  ☐ PID ☐ FID ☐ Hnu
  ☐ Photovac ☐ MiniRae ☐ OVM
  ☐ Combustible Gas ☐ Oxygen Deficiency ☐ Other
  ☐ Hydrogen Sulfide ☐ Carbon Monoxide
☐ Colormetric Indicators (Draegger) Tubes
☐ Film Badges or TLD badges (radiation)

e. Summary of Sampling Results (Attach additional pages if required.)

STOP WORK ORDER

(This order must be submitted to the Project Health and Safety Officer within 24 hours after notice is issued.)

Order Issued by: _____

Name Signature Date

Project Name: _____ Project Number: _____

1. Describe work in detail. _____

_____

_____

_____

_____

_____

_____

2. What corrective actions were taken? _____

_____

_____

_____

_____

_____

_____

_____

I have reviewed this Stop Work Order. I understand the importance of following proper Safety Procedures on the Job. I certify that the above corrective action(s) has been implemented.

Implemented by: _____

Name Signature Date

APPENDIX D

QUALITY ASSURANCE PROJECT PLAN

M&A Project No. MA-2003-123

QUALITY ASSURANCE PROJECT PLAN

Former Dico Oil
Signal Hill, California

Prepared by:

MEREDITH & ASSOCIATES, INC.
9841 Airport Boulevard, Suite 1010
Los Angeles, California 90045

February 12, 2004

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1.0 INTRODUCTION/BACKGROUND

This Quality Assurance Project Plan (QAPP) has been prepared by Meredith & Associates (M&A) to address quality assurance (QA) and quality control (QC) procedures associated with the collection of environmental data at the Dico Oil Company property (the "Site"). This QAPP presents the plan for sampling and analysis to be conducted in support of the investigation to be performed under the oversight of the United States Environmental Protection Agency (USEPA). USEPA policy requires a QAPP for all environmental data collection projects mandated or supported by the USEPA through regulations or other formalized means (USEPA, 1998a). The purpose of this QAPP is to identify the methods to be employed to establish technical accuracy, precision, and validity of data that are generated at the Site.

The sampling and analytical program is described in detail in the accompanying Workplan prepared for this Site. This QAPP contains general and specific details regarding field sampling, laboratory, and analytical procedures that apply to the planned field activities. It provides field and laboratory personnel with instructions regarding activities to be performed before, during, and after field sampling activities. These instructions will ensure that data collected for use in project decisions will be of the type and quality needed and expected for their intended purpose.

Guidelines followed in the preparation of this QAPP are described in EPA Requirements for Quality Assurance Plans for Environmental Data Operations (USEPA, 1998a) and EPA Guidance for Quality Assurance Project Plans (USEPA, 1998b). Other documents that are referenced in this plan include Guidance for the Data Quality Objectives Process (USEPA, 1994a) and Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (USEPA, SW-846, Third Edition, 1996).

2.0 PROJECT DESCRIPTION

The site was used by Dico Oil Company to blend used oil for sale to the fuel market. The Site is located at 1845 East Willow Street in Signal Hill, Los Angeles County, California. The site includes also properties identified as 2700 Rose Avenue and 2623 Gardenia Avenue.

The property was first developed in 1952, and Dico Oil used the property to operate an oil and recycling facility from 1960 to 1995. While in operation, Dico blended oils with varying amounts of water and sediment levels to create a marketable fuel. Asphalt emulsions, crude oil, diesel fuels, jet fuel, kerosene and Stoddard solvents, waste oils, and light to heavy fuel oils contaminated with water ans solids were accepted from various sources and placed into six steel ASTs for processing and blending. The recycled oil then was sold primarily to the bunker oil market as ship fuel. Approximately two to three million gallons of oil were processed per year. Releases of waste oils to the environment have resulted in elevated levels of contaminants in Site soils. Chemicals of potential concern (COPCs), include the following:

- Total Petroleum Hydrocarbons in the Diesel Range (TPH-d) -- USEPA Method 8015M/5035
- Lead -- USEPA Method 6010/7000
- Polychlorinated Biphenyls -- USEPA Method 8082.

The collection, analysis, and validation of environmental samples will be conducted in accordance with this QAPP, M&A's Standard Operating Procedure for Sample Handling and Preservation (Appendix A).

3.0 DATA USE

It is intended that data collected through implementation of this QAPP will satisfy Federal, State, and local data quality requirements. The data will be used to characterize the nature and extent of impacted soil that may be present at the Site and to support decisions regarding possible further actions. The data must be of adequate quantity and quality to support the evaluation of Site conditions. Ultimately, the data must be adequate to support a "no further action" decision to allow Site closure activities to proceed.

4.0 PROJECT ORGANIZATION

This section provides a description of the organizational structure and responsibilities of the various individuals and entities associated with this project. This description is intended to define the lines of communication and identify key personnel and their responsibilities regarding various activities for the project. The organizational structure of the project is summarized in the following sections.

4.1 REGULATORY AGENCY

The USEPA Project Manager, will provide regulatory oversight for the project. The USEPA Project Manager's responsibilities will include the review and approval of workplans and work activities for the duration of the project. USEPA also will provide direction regarding agency policy and environmental objectives.

4.2 ECOLOGY AND THE ENVIRONMENT

Ecology and the Environment (ENE), as subcontractors to the USEPA, are responsible for day-to-day activities at the the Site. ENE is responsible for the directional decisions for work conducted at the Site. They may perform document review of related work plans, reports, and drawings for activities associated with this project.

4.3 MEREDITH & ASSOCIATES

The investigation contractor has responsibility for assigned phases of investigation and reporting. Together, the management team (Senior Project Manager, Senior Engineer, and Field Managers) will be responsible for the technical planning and implementation of the field investigation. The Quality Assurance (QA) staff has responsibility for effective planning, verification, and management of QA activities associated with the project.

Mr. Keith Farrell is the M&A Project Manager. Mr. Farrell will serve as the primary contact for M&A. Mr. Farrell has the authority to commit the necessary resources of M&A to ensure timely completion of project tasks. His responsibilities include strategy development, budget control, document review, and will provide day-to-day management and tracking of the project schedule and budget. Other responsibilities include coordination and preparation of the required reports, and assignment of technical responsibilities to appropriate personnel or subcontractors.

Mr. Roger D. McCracken is the Field Manager and Site Safety Officer for M&A. Mr. McCracken is responsible for implementation of the field program. Mr. McCracken will be responsible for the day-to-day coordination of field activities. In addition, Mr. McCracken will assist with the sampling activities. Mr. McCracken also will fill the role of QA Manager for soil samples to ensure that all required QA/QC protocols are met in the field and laboratory. Other responsibilities include coordination of subcontractors and field crews to ensure that field activities conform to the planned field investigation activities and the Health and Safety Plan.

4.4 LABORATORIES

A State-certified laboratory will provide laboratory handling and analysis for soil samples collected during the project. The laboratory will report to the Field Manager.

5.0 DATA QUALITY OBJECTIVES

Data Quality Objectives (DQOs) have been identified for each data collection activity. All work will be conducted and documented so that the data collected are of sufficient quality for their intended use (USEPA, 1998a). DQOs specify the data type, quality, quantity, and uses needed to make decisions, and provide the basis for designing data collection activities. The DQOs have been used to help design the field investigation data collection activities. The DQOs for the project are described in the following sections.

5.1 DATA QUALITY OBJECTIVE PROCESS

The project DQOs developed specifically for the planned sampling and analysis program have been determined based on USEPA's seven-step DQO process (USEPA, 1994a). The Senior Engineer will evaluate the project DQOs to determine if the quantitative and qualitative needs of the sampling and analysis program have been met. The project definition associated with each step of the DQO process may be summarized as follows:

- State the Problem: The purpose of the sampling program is to complete the Site environmental characterization and update the human health hazard/risk evaluation. It includes the collection and analysis of soil vapor and soil matrix samples from designated locations. Although much of the Site will be covered with buildings or asphalt/concrete surfacing, exposed soils may exist in landscaped or recreational areas where future occupants could come into contact with the soil.

- Identify the Decision: The data obtained from the sampling and testing activities will be used to evaluate the nature, extent, and significance of impacted soil at specific Site locations. The data will be evaluated further to determine the need for the further investigation, analysis, and/or remedial action.

- Identify Inputs to the Decision: Inputs to the decision will include results of analytical testing of samples from selected locations on the Site. The specified analytes are discussed in Section 2.0.

- Define the Study Boundaries: The boundaries of the field sampling and analysis program are as described in the Workplan.

- Develop a Decision Rule: Decisions will be based upon laboratory results for the target constituents presented in Tables 1 and 2 for each respective matrix tested. If no valid detectable concentrations of target compounds are reported for the given samples, then a decision may be made that the Site is fully characterized with respect to the compounds tested and no further remedial action may be required. If target constituents are detected in the samples tested, then the data will be compiled for use in deciding what course of action to take with respect to this Site.

- Specify Limits on Decision Error: The results of the analytical testing will be subjected to data validation as specified in Section 8.3. Data are determined to be valid if the specified limits on precision, accuracy, representativeness, comparability, and completeness are achieved. The results of any detected target constituents will be considered in evaluating the need for additional sampling of the soil matrix, and assessing the necessity for reducing any risks posed by the potential contamination.

- Optimize the Design: The field investigation has been designed to provide the type and quantity of data needed to satisfy each of the aforementioned objectives. The field investigation provides the specifications for the data collection activities, including the numbers of samples, respective locations and sampling techniques. The quality of the data will be assessed through the procedures further described in this QAPP.

5.2 PRECISION, ACCURACY, REPRESENTATIVENESS, COMPARABILITY, AND COMPLETENESS

The basis for assessing the elements of data quality is discussed in the following subsections. In the absence of laboratory-specific precision and accuracy limits, the QC limits listed in this section must be met.

5.2.1 Precision

Precision is the degree to which a measurement can be reproduced without assumption of any prior knowledge as to the true result. Precision is assessed by the means of duplicate/replicate sample analyses. The acceptability of replicate analyses is the evaluation of the relative percent difference (RPD) of control sample values. The RPD is calculated in all cases where matrix spike and matrix spike duplicate determination are made. Its definition is given below:

$$RPD = \{(X_1 - X_2)) [(X_1 + X_2)) 2]\} \times 100$$

Where X_1 and X_2 are measurements of the same parameter of duplicate/replicate sample analyses.

5.2.2 Accuracy

Accuracy is the determination of how close a measurement is to the actual value. It can be assessed by means of laboratory control samples (LCS), standard reference materials or spiked samples and their corresponding percent recoveries. The calculation of accuracy in terms of percent recovery is as follows:

$$\text{Percent Recovery} = [(\text{Observed Value} - \text{Sample Value})) \text{ Known Value}] \times 100$$

The determination of the accuracy of a measurement requires knowledge of the known value for the parameter being measured.

5.2.3 Representativeness

Representativeness expresses the degree to which data accuracy and precisely represents a characteristic of a given set of samples or data sets. The use of appropriate methods and sound judgement in the field will ensure that samples are representative. To maximize representativeness of results, sampling procedures should follow established protocols and sample locations should be chosen based on sound judgement and knowledge of the particular site. Some samples may require analysis of multiple phases to obtain representative results.

5.2.4 Completeness

Completeness is the amount of valid data obtained compared to the amount that was expected under ideal conditions. The number of valid results divided by the number of possible results, expressed as a percentage,

determines the completeness of the data set. The objective for completeness is to recover at least 90 percent of the planned data to support field efforts. The formula for calculation of completeness is presented, as follows:

$$\% \text{ Completeness} = 100 \times \frac{\text{number of valid results}}{\text{number of expected results}}$$

5.2.5 Comparability

Comparability is an expression of confidence with which one data set can be compared to another. The objective of comparability is to ensure that data developed during the investigation are comparable to site knowledge and adequately address applicable criteria or standards established by the USEPA and California Department of Health Services (DHS). This QAPP addresses comparability by specifying laboratory methods that are consistent with the current standards of practice as approved by the USEPA and DHS.

6.0 QUALITY CONTROL ELEMENTS

This section presents QC requirements relevant to analysis of environmental samples that will be followed during all project analytical activities. The purpose of the QC program is to produce data of known quality that satisfy the project objectives and that meet or exceed the requirements of the standard methods of analysis. This program provides a mechanism for ongoing control and evaluation of data quality measurements through the use of QC materials.

6.1 QUALITY CONTROL PROCEDURES

The chemical data to be collected for this effort will be used to determine that the nature and extent of contamination, if any, at the Site is properly evaluated. As such, it is critical that the chemical data be of the highest confidence and quality. Consequently, strict QA/QC procedures will be adhered to. These procedures include:

- Adherence to strict protocols for field sampling and decontamination procedures
- Collection and laboratory analysis of appropriate field equipment and trip blanks to monitor for contamination of samples in the field or in the laboratory
- Collection and laboratory analysis of matrix spike, matrix spike duplicate, and field duplicate samples to evaluate precision and accuracy
- Attainment of completeness goals.

6.1.1 Equipment Decontamination

Non-dedicated equipment will be decontaminated before and after each sample is collected. The equipment will be washed in a non-phosphate detergent and potable water, rinsed in potable water, and then double rinsed in distilled water.

6.1.2 Standards

Standards used for calibration or to prepare samples will be certified by National Institute of Standards and Technology (NIST), USEPA, or other equivalent source. The standards will be current. The expiration date will be

established by the manufacturer or based on chemical stability, the possibility of contamination, and environmental and storage conditions. Standards will be labeled with expiration dates, and will reference primary standard sources if applicable. Expired standards will be discarded.

6.1.3 Supplies

All supplies will be inspected prior to their use in the field or laboratory. The descriptions for sample collection and analysis contained in the methods will be used as a guideline for establishing the acceptance criteria for supplies. A current inventory and appropriate storage system for these materials will ensure their integrity prior to use. Efficiency and purity of supplies will be monitored through the use of standards and blank samples.

6.1.4 Holding Time Compliance

Sample preparation and analysis will be completed within the required method holding time (Table 1). Holding time begins at the time of sample collection. If holding times are exceeded, and the analyses are performed, the associated results will be qualified as described in the applicable validation procedure. The following definitions of extraction and analysis compliance are used to assess holding times:

- Preparation or extraction completion - completion of the sample preparation process as described in the applicable method, prior to any necessary extract cleanup.
- Analysis completion - completion of all analytical runs, including dilutions, second-column confirmations, and any required re-analysis.

6.1.5 Preventive Maintenance

The Field Manager and Project Geologist are responsible for documenting the maintenance of all field equipment prescribed in the manufacturer's specifications. Scheduled maintenance will be performed by trained personnel. The analytical laboratories are responsible for all analytical equipment calibration and maintenance as described in their laboratory QA Plan. Subcontractors are responsible for maintenance of all equipment needed to carry out subcontracted duties.

6.2 QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC) SAMPLES

The purpose of this QA/QC program is to produce data of known quality that satisfy the project objectives and that meet or exceed the requirements of the standard methods of analysis. This program provides a mechanism for ongoing control and evaluation of data quality measurements through the use of QC materials. QA/QC samples will be collected as part of the overall QA/QC program.

6.2.1 Laboratory Reagent Blanks

A laboratory reagent blank is de-ionized, distilled water that is extracted by the laboratory and analyzed as a sample. Analysis of the reagent blank indicates potential sources of contamination from laboratory procedures (e.g., contaminated reagents, improperly cleaned laboratory equipment, or persistent contamination due to presence of certain compounds in the ambient laboratory air).

6.2.2 Field Equipment Blanks

A field equipment blank is a sample that is prepared in the field by pouring de-ionized, distilled water into cleaned sampling equipment. The water is then collected and analyzed as a sample. Field equipment blanks are

typically blind (given a fictitious name so that the laboratory will not recognize it as a blank). The field equipment blank gives an indication of contamination from field procedures (e.g., improperly cleaned sampling equipment, cross-contamination). The field equipment blanks should be analyzed using the same analyses requested for the associated primary samples collected.

6.2.3 Matrix Spike Samples

Matrix spikes are performed by the analytical laboratory to evaluate the efficiency of the sample extraction and analysis procedures, and are necessary because matrix interference (that is, interference from the sample matrix, in this case soil) may have a widely varying impact on the accuracy and precision of the extraction analysis. The matrix spike is prepared by the addition of known quantities of target compounds to a sample. The sample is extracted and analyzed. The results of the analysis are compared with the known additions and a matrix spike recovery is calculated giving an evaluation of the accuracy of the extraction and analysis procedures. Matrix spike recoveries are reviewed to check that they are within acceptable range. However, the acceptable ranges vary widely with both sample matrix and analytical method. Typically, matrix spikes are performed in duplicate in order to evaluate the precision of the procedures as well as the accuracy. Precision objectives (represented by agreement between matrix spike and matrix spike duplicate recoveries) and accuracy objectives (represented by matrix spike recovery results) are based on statistically generated limits established annually by the analytical laboratory. It is important to note that these objectives are to be viewed as goals, not as criteria. If matrix bias is suspected, the associated data will be qualified and the direction of the bias indicated in the data validation report.

6.2.4 Field Duplicate Samples

Field duplicate samples may collected and analyzed to evaluate sampling and analytical precision. Field duplicates are collected and analyzed in the same manner as the primary samples. Agreement between duplicate sample results will indicate good sampling and analytical precision. Specific locations will be designated for collection of field duplicates prior to the start of field activities. The duplicate sample is analyzed for all laboratory analyses requested for the primary sample collected. The precision goal for field duplicate analyses will be plus or minus 50 percent relative percent difference for aqueous samples and plus or minus 100 percent relative percent difference for soil matrix, or soil vapor samples.

6.2.5 Performance Evaluation Samples

Double blind performance evaluation (PE) samples may be submitted to the analytical laboratory during any site investigation. These samples may be of water or soil matrix, and are used to assess the accuracy of analytical procedures employed for a given sample set. If used, double blind PE samples will be prepared by Environmental Resources Standards, or similar supplier, in similar sample containers as the project field samples and shipped from the field to the laboratory for analysis.

Double blind PE samples will be prepared using NIST and/or A2LA certified standards. The project-specific PE samples will contain known concentrations of the analytes of interest. Laboratory results will be evaluated against the original Certificates of Analyses for precision and accuracy PE samples may be submitted for analysis as part of the laboratory pre-qualification process, or as part of a given sampling event. Results will be reported to the laboratory and presented with associated field sample results.

6.2.6 Soil Matrix QA/QC Samples

6.2.6.1 Soil Matrix Analytical Method Blank

Method blanks are analyzed to assess the level of background interference or contamination in the analytical system. A method blank is analyzed each time a batch is processed. When compounds are found in the blank, their values are evaluated to determine their effect on the analysis of environmental samples.

6.2.6.2 Soil Matrix Analytical Calibration Standard

Calibration check standards are analyzed to confirm that measurements were performed in an "in-control" mode of operation. The calibration check standard concentration is established near the midpoint of the calibration range. Instrument calibration is checked with every analytical batch. It is also verified once for at least every 15 measurements or at the end of a batch, whichever is more frequent. Calibration checks must be within 15% for all analytes of interest before proceeding with the analysis of samples.

6.2.6.3 Soil Matrix Analytical Lab Control Samples

Laboratory Control Samples (LCS) are prepared/obtained from sources independent of the calibration standards. The LCS concentration is established near the midpoint calibration range. An LCS must be prepared and analyzed once per batch of samples.

6.2.6.4 Soil Matrix Analytical Matrix Spikes

A matrix spike is an environmental sample into which known concentrations of analyte(s) have been added. The matrix spike sample is analyzed with environmental samples of the same matrix type in each batch and the results are used to evaluate sample matrix effects on method accuracy. For each method at least two compounds or 10 percent of the analytes of interest must be spiked.

6.2.6.5 Soil Matrix Analytical Matrix Spike Duplicates

A matrix spike duplicate is one of two QC checks of an environmental sample. It is spiked with the same concentration of an analyte(s) as the matrix spike. The matrix spike duplicate sample is analyzed with environmental samples of the same matrix type in each batch. The results evaluate sample matrix effects on method accuracy. Values obtained from the matrix spike and matrix spike duplicate analyses are compared to evaluate sample matrix effects on method precision.

6.2.6.6 Soil Matrix Analytical Surrogates

Surrogates are organic compounds which are similar to the analytes of interest, but are not normally found in environmental samples. Surrogates must be spiked into blanks, standards, spikes, and samples for organic analyses to monitor sample specific effects on method accuracy. They should not interfere with target analytes.

6.2.6.7 Soil Matrix Trip/Field Blank

Trip blanks accompany the sample containers during transport, collection, and storage. Field blanks are analogous to trip blanks, except field blanks are opened at the site during sampling activities.

6.2.6.8 Soil Matrix Field Equipment (Rinseate) Blank

Aqueous samples that are collected by pouring deionized water over freshly decontaminated soil sampling equipment.

6.2.6.9 Soil Matrix Field Duplicate (Collocated)

Soil samples that are collected from the same location as the primary soil sample. The primary sample and its duplicate are analyzed as separate samples to assess precision.

7.0 SAMPLING PROCEDURES

The defensibility of data is dependent on the use of well defined, accepted sampling procedures. This section describes the sampling and handling procedures that will be followed for each sampling event.

7.1 FIELD PROCEDURES

Collection of environmental samples of high integrity is important to the quality of chemical data to be generated. To this end, strict field procedures have been developed and will be employed during the field investigation. These procedures are described in Appendix A.

7.2 SAMPLE CONTAINERS, PRESERVATION, AND HOLDING TIMES

Table 1 lists the required sample containers, preservatives, and recommended maximum holding times for soil matrix samples. Sample containers provided by the laboratory will be purchased commercially from I-Chem, Eagle Pitcher, or other equivalent source.

7.3 SAMPLE HOLDING AND STORAGE

In the field, each soil matrix sample container will be marked with the sampling location number, and date and time of sample collection. All soil matrix sample containers will be wiped with paper towels and securely packed, in a cooler on ice, in preparation for delivery to the laboratory.

Upon receipt of the samples, the laboratory will immediately notify the Field Manager or the Project Geologist if conditions or problems are identified which require immediate resolution. Such conditions include, container breakage, missing or improper chain-of-custody, exceeded holding times, missing or illegible sample labeling, or temperature excursions.

7.4 SAMPLE CUSTODY

For each sample that is submitted to the laboratory for analysis, an entry will be made on a chain-of-custody form supplied by the laboratory. The information to be recorded includes the sampling date and time, sample identification number, matrix type, requested analyses and methods, preservatives, and the sampler's name. Sampling team members will maintain custody of the samples until they are relinquished to laboratory personnel or a professional courier service. The chain-of-custody form will accompany the samples from the time of collection until received by the laboratory. Each party in possession of the samples (except the professional courier service) will sign the chain-of-custody form signifying receipt. The chain-of-custody form will be placed in a plastic bag and shipped with samples inside the cooler. After the samples, ice, and chain-of-custody forms are packed in the coolers, the cooler will be appropriately sealed before it is relinquished to the courier. A copy of the

original completed form will be provided by the laboratory along with the report of results. Upon receipt, the laboratory will inspect the condition of the sample containers and report the information on chain-of-custody or similar form.

8.0 ANALTYICAL PROCEDURES

The analytical methods used for this project are primarily USEPA approved methods and are listed in Table 1 hereto. Specific analytical method procedures are detailed in the laboratory QA Plan and standard operating procedures of the selected laboratories. These documents may be reviewed by M&A quality assurance staff during laboratory audits to ensure that project specifications are met. Laboratory audits are discussed in Section 9.2.

8.1 INTERNAL STANDARDS

Internal standards are measured amounts of method-specified compounds added after preparation, or extraction, of a sample. Internal standards are added to samples, controls, and blanks in accordance with method requirements to identify column injection losses, purging losses, or viscosity effects.

Acceptance limits for internal standard recoveries are set forth in the applicable method. If the internal standard recovery falls outside of acceptance criteria, the instrument will be checked for malfunction and reanalysis of the sample will be performed after any problems are resolved.

8.2 RETENTION TIME WINDOWS

Retention time windows will be established as described in SW-846 Method 8000A for applicable analyses of organic compounds. Retention time windows are used for qualitative identification of analytes and are calculated based on multiple, replicated analyses of a respective standard.

Retention times will be checked on a daily basis. Acceptance criteria for retention time windows are established in the referenced method. If the retention time falls outside the respective window, actions will be taken to correct the problem. The instrument must be re-calibrated after any retention time window failure and the affected samples must be reanalyzed.

8.3 METHOD DETECTION LIMITS

The method detection limit (MDL) is the minimum concentration of an analyte, or compound, that can be measured and reported with 99 percent confidence that the concentration is greater than zero. MDLs are established for each method, matrix and analyte, and for each instrument used to analyze project samples. MDLs are derived using the procedures described in 40 CFR 136 Appendix B (USEPA, 1990). USEPA requires that MDLs be established on an annual basis. MDLs must be less than applicable reporting limits for each target analyte presented in Tables 2 and 3 hereto. For selected analytes, the laboratory may report detected concentrations that are above the MDL but below the laboratory's typical reporting limit. These data will be "j" flagged and evaluated closely since detections near the MDL can have high variability.

8.4 INSTRUMENT CALIBRATION

Analytical instruments will be calibrated in accordance with the procedures specified in the applicable method. All analytes that are reported shall be present in the initial and continuing calibrations, and these calibrations must meet the acceptance criteria specified in the reference method. Records of standard preparation and instrument

calibration will be maintained. Records shall unambiguously trace the preparation of standards and their use in calibration and quantitation of sample results. Calibration records will be traceable to standard materials as described in Section 6.1.2.

At the onset of analysis, instrument calibration will be checked using all of the analytes of interest. At a minimum, calibration criteria will satisfy method requirements. Analyte concentrations can be determined with either calibration curves or response factors, as defined in the method. Guidance provided in SW-846 should be considered to determine appropriate evaluation procedures.

9.0 DATA REPORTING

This section presents reporting requirements relevant to the data produced during all project analytical activities.

9.1 FIELD DATA

Data measured by field instruments will be records in field notebooks, laptops, and/or on required field forms. Units of measure for field analyses are identified on the field forms. The field data will be reviewed by the Senior Engineer, Field Manager, and Project Geologist to evaluate completeness of the field records and appropriateness of the field methods employed. All field records will be retained in the project files.

9.2 LABORATORY DATA

Analytical data will contain the necessary sample results and quality control data to evaluate the DQOs defined for the project. Documentation requirements for laboratory data are defined in USEPA Region 9 Draft Laboratory Documentation Requirements for Data Validation (USEPA, 1997). The laboratory reports from the fixed laboratory will include the following data and summary forms:

- Narrative, cross-reference, chain-of-custody, and method references
- Analytical results
- Surrogate recoveries (as applicable)
- Calibration summary
- Blank results
- Laboratory control sample recoveries
- Duplicate sample results or duplicate spike recoveries
- Sample spike recoveries
- Instrument tuning summary
- Magnetic tape or equivalent upon request.

Data validation criteria are derived from the USEPA Contract Laboratory Program National Functional Guidelines for Organic and Inorganic Data Review (USEPA, 1994b and 1994c). The National Functional Guidelines provide specific data validation criteria that can be applied to data generated for this investigation.

The laboratory data will be reviewed for compliance with the applicable method and the quality of the data reported. The following summarizes the areas of data validation.

- Data Completeness
- Holding Times
- Calibrations
- Blanks
- Laboratory Control Samples
- Matrix Spike/Matrix Spike Duplicates
- Surrogates/Internal Standards (as applicable)
- Field Quality Control Samples

The application of data validation criteria is a function of project-specific DQOs. The Senior Scientist will determine if the data quality objectives for the analytical data have been met. Results of the data validation review will be documented and summarized in the final Removal Action Report.

9.3 PROCEDURES FOR DATA VALIDATION

Guidance for performing data validation for the types of analyses to be utilized for this investigation is provided in the National Functional Guidelines. Data validation will be documented in a manner consistent with these functional guidelines. The results of the data validation will be included in the final Removal Action Report. This documentation will be maintained in the project files.

9.4 DATA QUALIFIERS

The data validation procedures were designed to review each data set and identify biases inherent to the data and determine its usefulness. Data validation flags are applied to those sample results that fall outside of specified tolerance limits, and, therefore, did not meet the program's quality assurance objectives described in Section 5.0. Data validation flags to be used for this project are defined in the National Functional Guidelines. Data validation flags will indicate if results are considered anomalous, estimated, or rejected. Only rejected data are considered unusable for decision-making purposes; however, other qualified data may require further verification.

10.0 PERFORMANCE AND SYSTEM AUDITS

Audit programs are established and directed by the M&A and laboratory staff to ensure that field and laboratory activities are performed in compliance with project controlling documents. This section describes responsibilities, requirements and methods for scheduling, conducting and documenting audits of field and laboratory activities.

10.1 FIELD AUDITS

Field audits focus on appropriateness of personnel assignments and expertise, availability of field equipment, adherence to project controlling documents for sample collection and identification, sample handling and transport, use of QA samples, chain-of-custody procedures, equipment decontamination and documentation. Field audits are not required, but may be performed in the event significant discrepancies are identified that warrant evaluation of field practices.

10.2 LABORATORY AUDITS

Laboratory audits include reviews of sample handling procedures, internal sample tracking, SOPs, analytical data documentation, QA/QC protocols, and data reporting. Any selected mobile or offsite laboratory will be licensed by the State of California as a certified testing laboratory, and will participate in a DHS approved Performance Evaluation Program for hazardous waste and wastewater analyses. If no previous audit has been conducted by M&A, a scheduled audit will be conducted by the quality assurance staff during the course of this project to ensure the integrity of sample handling and processing by the laboratory.

10.3 DATA AUDITS

Data audits will be performed on analytical results received from the laboratories. These audits will be accomplished through the process of data validation as described in Section 9.3, or may involve a more detailed review of laboratory analytical records. Data audits require the laboratory to submit complete raw data files to M&A for validation and verification. M&A staff will perform a review of the data consistent with the level of effort described in the National Functional Guidelines. This level of validation consists of a detailed review of sample data, including verification of data calculations for calibration and quality control samples to assess if these data are consistent with method requirements. Upon request, the laboratory will make available all supporting documentation in a timely fashion.

10.4 SCHEDULING

Audits will be scheduled such that field and laboratory activities are adequately monitored, or in the event discrepancies are identified. The overall frequency of audits conducted for these activities will be based on the importance and duration of work, as well as significant changes in project scope or personnel.

10.5 REPORTS TO MANAGEMENT AND RESPONSIBILITIES

Upon completion of any audit, the auditor will submit to the Senior Scientist and Field Manager a report or memorandum describing any problems or deficiencies identified during the audit. It is the responsibility of the Project Manger to determine if the deviations will result in any adverse effect on the project conclusions. If it is determined that corrective action is necessary, procedures outlined in Section 10.6 will be followed.

10.6 CORRECTIVE ACTION

Corrective actions will be initiated whenever data quality indicators suggest that DQOs have not been met. Corrective actions will begin with identifying the source of the problem. Potential problem sources include failure to adhere to method procedures, improper data reduction, equipment malfunctions, or systemic contamination. The first level of responsibility for identifying the problems and initiating corrective action lies with the analyst/field personnel. The second level of responsibility lies with any person reviewing the data. Corrective actions may include more intensive staff training, equipment repair followed by a more intensive preventive maintenance program, or removal of the source of systemic contamination. Once resolved, the corrective action

procedure will be fully documented, and if DQOs were not met, the samples in question must be recollected and/or reanalyzed utilizing a properly functioning system.

11.0 REFERENCES

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TABLES

TABLE 1

SUMMARY OF ANALYSES - SOIL MATRIX

Dico Oil Company Site
Signal Hill, California

SOIL MATRIX ANALYSES				
Analyte	**Method**	**Container**	**Preservative**	**Holding Time**
Lead	USEPA 6010/7000	4 oz glass or metal sleeve	Temperature: Cool, 4°C	180 days mercury: 30 days
TPH	USEPA 8015M	4 oz glass or metal sleeve	Temperature: Cool, 4°C	14 days to extraction, 40 days to analysis
Polychlorinated Biphenyls	USEPA 8082	4 oz glass or metal sleeve	Temperature: Cool, 4°C	14 days to extraction, 40 days to analysis

TABLE 2

LIST OF METHOD DETECTION AND REPORTING LIMITS
SOIL MATRIX ANALYSES

Former Dico Oil, Signal Hill, CA

Chemical Constituent	Unit	MDL[1]	PQL[2]
TPH (M8015D)			
TPH	mg/kg	5	10
Metals (6010/7000)			
Lead	mg/kg	2.5	5
PCBs (8082)			
Aroclor-1016 (PCB-1016)	ug/kg	35	35
Aroclor-1221 (PCB-1221)	ug/kg	70	70
Aroclor-1232 (PCB-1232)	ug/kg	35	35
Aroclor-1242 (PCB-1242)	ug/kg	35	35
Aroclor-1248 (PCB-1248)	ug/kg	35	35
Aroclor-1254 (PCB-1254)	ug/kg	35	35
Aroclor-1260 (PCB-1260)	ug/kg	35	35
Aroclor-1262 (PCB-1262)	ug/kg	35	35
Aroclor-1268 (PCB-1268)	ug/kg	35	35

(1) MDL = Method Detection Limit
(2) PQL = Practical Quantitation (Reporting) Limit

APPENDIX A

M&A STANDARD OPERATING PROCEDURES – SAMPLE HANDLING AND PRESERVATION

M/B&A STANDARD OPERATING PROCEDURES

SAMPLE HANDLING AND PRESERVATION

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ATTACHMENTS

TABLE 1 – SUMMARY OF ANALYSES

CHAIN OF CUSTODY RECORD

1.0 INTRODUCTION

This standard operating procedure (SOP) provides guidance for the handling and preservation of environmental samples, including requirements for sample identification, chain of custody (COC), sample preservation, storage, and transportation. The overall objective of this SOP is to define sample management activities and protocols from the time of sample collection to the time the samples are received by the laboratory. Specific methods and procedures for the collection of groundwater and soil samples are discussed in their respective sampling SOPs. Proper sample handling and preservation techniques play a vital role in the generation of valid, defensible analytical data and in the attainment of project data quality objectives (DQOs). The data must be adequate to support project decisions and allow activities to proceed.

2.0 DEFINITIONS

Chain-of-Custody

Procedures and records that document the physical possession of a sample from the time the sample is collected to the time the sample is received by the laboratory. A chain-of-custody record documents the date and time of sample collection, the intended analyses, and the identification of all persons who relinquish or receive the sample.

Custody Seal

A brittle, non-removable tape that is placed across the lid of sample containers or coolers; an intact seal provides assurance that the samples have not been tampered with during sample transport to the laboratory.

Holding Time

The time allowed between sample collection and sample analysis, assuming that the required preservation and storage techniques are employed.

Matrix

The environmental medium that is being sampled (i.e., groundwater, surface water, soil, sediment, waste, etc.).

Quality Assurance and Quality Control Samples

Samples analyzed for the propose of assessing the quality of the sampling effort and of the analytical data. QA and QC samples include, but are not limited to field duplicate samples, rinsate blanks, field blanks, trip blanks, and QA split samples.

Sample

Physical evidence collected for environmental measuring and monitoring. For the purpose of this SOP, the procedures and protocols apply to solid (i.e., soil and bedrock) and aqueous (i.e., groundwater) samples.

3.0 PROCEDURES

3.1 APPLICABILITY

These procedures apply to work performed by Meredith & Associates (M&A) personnel, or work performed by subcontractors under the direction of M&A. The information of this SOP may be incorporated into project workplans and reports.

3.2 SAMPLE MANAGEMENT

3.2.1 Sample Containers

The selection of a sample container of appropriate volume and construction depends on the sample matrix and analyses to be performed. Unless specified otherwise by the project plan, sample containers should conform to the specifications prescribed in *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846* (USEPA, on-line CD ROM). A copy of these specifications is attached. Samples that are designated for volatile or semi-volatile organic compound analysis, the sample containers should be filled completely to ensure that no headspace is present. This applies to soil samples as well as water samples.

Once a sample container has been opened, it should be used as soon as possible. If the container was received unsealed from the laboratory or container vendor, or if the container was not used shortly after opening, it should be discarded or recycled. When storing sample containers prior to sampling, care should be taken to keep the containers away from chemicals or volatile products, such as fuels, degreasing agents, paint, etc., that could compromise the analytical results. Sample containers containing preservatives added by the laboratory should not be used if stored for an extended period or exposed to extreme heat. Sampling personnel should exercise care when handling containers with preservatives, so as to avoid contact or spillage. Loosely capped containers containing preservatives should not be used.

For the purpose of this SOP, a metal or plastic soil sample sleeve (typically employed with solid- or split-barrel samples) shall be regarded as a "sample container." Unless certified clean from the container vendor, sample sleeves may contain oily residues from their manufacture; accordingly, sleeves should be washed thoroughly and rinsed prior to use. Immediately following sample collection, the ends of the sample sleeve should be

covered with a Teflon sheet (or aluminum foil) and plastic end caps to prevent volatile organic compound loss. The used of adhesive tape, such as duct tape, should be avoided. Tape adhesives may contain organic compounds, such as toluene, which conceivably could lead to erroneous detections (i.e., false "hits"). Immediately following sample collection, samples for volatile organic compound analysis should be sub-sampled following USEPA Method 5035.

3.2.2 Sample Labeling

A durable, adhesive sample label should be affixed to all sample containers. In many instances, the laboratory or container vendor supplies sample labels. The following information should be recorded on the label with waterproof ink:

- Client name, project title, and/or project location (sufficiently specific for data management)
- Unique sample identification number (typically including boring or well ID, and depth, where applicable)
- Date and time of sample collection
- Sample matrix
- Initials of sampler
- Preservative(s) used
- Analysis(es) to be performed

If a split sample is collected by a third party (such as a regulator, another consultant, etc.), M&A sampling personnel should ensure that identical labels are attached to each sample container. After labeling the container, each sample should be refrigerated or placed in a cooler containing cubed or block ice to maintain a target temperature of 4 degrees Celsius (°C). Reusable ice packets (e.g., blue ice) should not be used. Ice replenishment may be necessary if samples are held overnight prior to submittal to the laboratory, or if sampling is conducted in high-temperature field conditions. Samples also should be packed in reseal able plastic bags to safeguard against container damage.

Custody Seals: Depending on project-specific or regulatory requirements, custody seals can be used on individual sample containers and/or shipping containers to preserve the chain-of-custody. A custody seal

typically consists of security tape that is labeled with the sampling date and initials of the sampler. At the minimum, custody seals should be placed on the front of the cooler and on one of the rear cooler hinges.

3.2.3 Chain-of-Custody

Chain-of-custody (COC) procedures require a written record of the possession of each sample from the time it is collected to the time it is received by the laboratory or final destination. A sample is considered to be "in custody" if it is:

- In a person's possession.
- In view after being in physical possession.
- In a secured condition after having been in physical custody.
- In a designated secure area, restricted to authorized personnel.

The COC record is completed in the field to document the samples that were collected and the analyses that were requested. The information provided on the COC record should include the following:

- Client name
- Project name
- Project location
- Sampling location
- Signature of sampler(s)
- Sample identification number
- Date and time of collection
- Sample type (i.e., grab or composite)
- Sample matrix
- Signature of individuals involved in custody transfer (including date and time of transfer)
- Number and type of containers collected for each analysis

- Types of analyses requested
- Remarks regarding individual samples, as appropriate.

COC records will be placed in a plastic bag and transported with the samples. When the sample(s) are transferred, both the receiving and relinquishing individuals sign the record. Where a commercial, overnight carrier service is used to ship the samples (i.e., Federal Express), signed air bills will serve as evidence of custody transfer between the field sampler and commercial carrier as well as carrier and laboratory. The sampler retains copies of the COC record and/or air bill.

3.2.4 Sample Preservation and Storage

Sample preservation requirements depend on the analytical method and the sample matrix. Unless otherwise specified, sample preservation procedures are to follow the specifications prescribed in *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846* (USEPA, on-line CD ROM). A copy of these specifications is attached.

3.2.5 Sample Delivery

Procedures for packaging and transporting samples to the laboratory depend on the nature of the samples, including estimated contaminant concentrations, and the intended analyses. Samples are classified as environmental, high concentration, geotechnical, or other samples. "Environmental samples" (USEPA, on-line CD ROM) are defined as soil or water samples that are not saturated or mixed with a pure product (i.e., refined fuels, free-phase solvents, etc.). Samples that are saturated in product are defined as "high concentration samples;" they require special handling and transportation procedures as discussed in Section 3.2.6.3. Similarly, the transport of other non-environmental, hazardous samples may require careful evaluation of and adherence to U.S. Department of Transportation (DOT) regulations.

Sample transportation usually involves hand-delivery of the samples to the laboratory by M&A personnel or by courier. Sampling at remote job sites can require transportation by a commercial overnight carrier service. Sample handling and shipping requirements for both delivery methods are discussed in the following sections.

3.2.5.1 Environmental Samples

Recommended "environmental sample" handling and transportation procedures are outlined as follows:

- Each sample will be placed in a separate plastic or "bubble-wrap" bag. As much air as possible is squeezed from the bag before sealing. Bags may be sealed with evidence tape for additional security, if necessary. "Bubble-wrap" bags are effective in protecting glass sample containers against breakage during transportation.

- An ice chest (sturdy construction) is typically used as the shipping container. In preparation for shipping or hand-delivery of the samples, the cooler drain plug is taped shut from the outside. If the samples are to be shipped via a commercial carrier, packing material, such vermiculite or "bubble-wrap," should be used to prevent damage or breakage of the sample containers. Separators, such as cardboard or foam, may be placed between sample containers at the discretion of the sampling personnel.

- Water samples for chemical analysis should be cooled to 4_C with conventional ice. Ice should be contained in double, reseal able plastic bags such that water will not fill the cooler as the ice melts. Dry ice should not be used, as it tends to freeze aqueous samples.

- As previously described, the COC record will be placed inside a reseal able plastic bag. If the cooler is shipped via a commercial carrier, the bagged COC record should be taped to the inside of the cooler lid, and the cooler lid should be taped shut with strapping tape (filament type). Tape usually is not necessary if the cooler is delivered by hand or courier to the laboratory.

3.2.5.2 Geotechnical Samples.

Geotechnical soil samples (or soil samples intended for physical testing) typically are collected with a Shelby tube or with a split-barrel sampler equipped with sample liners. Although formal holding times do not apply to geotechnical analyses and tests, the samples should be submitted for testing as soon as possible, and in some cases, preserved by chilling. Undisturbed samples should be sealed in reseal able plastic bags to maintain sample moisture. COC records are necessary to generate defensible data; they should reflect information concerning suspected contamination in the samples, including headspace screening data, and the name of any suspected contaminants and the approximate range of concentrations, if known.

3.2.5.3 Other Samples

Samples other than environmental samples must be shipped according to the requirements of 49 CFR 173.24 as well as applicable State and local regulations. Prior to the collection and shipment of these samples, relevant shipping requirements shall be researched and a written description of shipment procedures should be prepared. The shipping procedures should be reviewed and approved by M&A's Director of Health and Safety and by the commercial carrier, if used. Examples of "other" samples include potential asbestos-containing material (ACM), transformer fluids, and explosive gases, and the description reviewed and approved by a M&A certified industrial hygienist prior to samples.

3.2.5.4 Prohibited Samples

M&A prohibits the collection of the following types of samples without advance permission from an officer of the company:

- Radioactive substances
- Biological hazards
- Chemical warfare agents
- Drugs (controlled substances)
- Explosive ordnance
- Explosives (as per DOT)
- Shock-sensitive materials

3.2.6 Holding Times

The allowable holding time for sample extraction and analysis depends on the sample matrix and the analytical method. Unless otherwise specified, sample holding times are to conform with the specifications in *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846* (USEPA, on-line CD ROM). A copy of these specifications is attached. In coordinating sample shipment or delivery to the laboratory, the sampler must take into account the vagaries of sample shipment (i.e., unanticipated delays on the part of commercial carriers or by local courier services), and/or sample receipt ant temporary storage at the laboratory.

Wherever possible, the sampler should err on the side of caution, and submit the samples to the laboratory as soon as practicable.

4.0 REFERENCES

Department of Toxic Substances Control (DTSC). 1995a. *Responsible Sampling of Ground Water for Hazardous Substances.* California Environmental Protection Agency, July 1995. 34 pp.

DTSC. 1995b. *Drilling, Coring, Sampling, and Logging at Hazardous Waste Release Sites.*California Environmental Protection Agency, July 1995.

US Army Corps of Engineers (USACE). 1990. *Chemical Data Quality Management for Hazardous Waste Remedial Activities*, Regulation ER 1110-I-263, 1 October 1990.

US Environmental Protection Agency (USEPA). *Test Methods for Evaluating Solid Waste SW-846* ,Office of Solid Waste and Emergency Response. On-line CD ROM.

ATTACHMENTS

SAMPLE CONTAINER PRESERVATION, AND HOLDING TIME REQUIREMENTS (from USEPA, SW-846)

TABLE 1

SUMMARY OF ANALYSES

SOIL ANALYSES				
Analyte	**Method**	**Container**	**Preservative**	**Holding Time**
Semi-Volatile Organic Compounds	USEPA 8270C	4 oz glass or metal sleeve	Temperature: Cool, 4 °C	14 days to extraction, 40 days to analysis
CAM Metals (see Table 2)	USEPA 6010/7000	4 oz glass or metal sleeve	Temperature: Cool, 4 °C	180 days mercury: 30 days
Organochlorine Pesticides	USEPA 8081A	Metal sleeve, Teflon sheet	Temperature: Cool, 4 °C	14 days to extraction, 40 days to analysis
Polychlorinated Biphenyls	USEPA 8082	4 oz. glass or metal sleeve	Temperature: Cool, 4 °C	14 days to extraction, 40 days to analysis
Hexavalent Chromium (Cr^{+6})	USEPA 7199	4 oz glass or metal sleeve	Temperature: Cool, 4 °C	30 days to digestion, 168 hours to analysis
Volatile Organic Compounds	USEPA 8260B/5035	metal sleeves; subsamples to glass VOAs	sodium bisulfate; methanol; freeze -10 °C	sodium bisulfate: 48 hours methanol: 14 days frozen samples: 7 days
TPH (heavy hydrocarbon)	USEPA 8015M	4 oz. glass or metal sleeve	Temperature: Cool, 4 °C	14 days to extraction, 40 days to analysis
TPH (diesel)	USEPA 8015M	4 oz glass or metal sleeve	Temperature: Cool, 4 °C	14 days to extraction, 40 days to analysis
TPH (extended)	USEPA 8015M	4 oz glass or metal sleeve	Temperature: Cool, 4 °C	14 days to extraction, 40 days to analysis
Dioxins/Furans	USEPA Method 8290	4 oz glass or metal sleeve	Temperature: Cool, 4 °C	14 days to extraction, 40 days to analysis
pH	USEPA Method 9045C	4 oz glass or metal sleeve	Temperature: Cool, 4 °C	Immediate (same day)
Polynuclear aromatic hydrocarbons	USEPA Method 8310	4 oz glass or metal sleeve	Temperature: Cool, 4 °C	14 days to extraction, 40 days to analysis
TPH (gasoline)	USEPA 8015M/5035	metal sleeves; subsamples to glass VOAs	sodium bisulfate; methanol; freeze -10 °C	sodium bisulfate: 48 hours methanol: 14 days frozen samples: 7 days

CHAIN OF CUSTODY RECORD

Sheet_ of ____.

MEREDITH & ASSOCIATES, INC.

SCIENTIFIC and REGULATORY CONSULTANTS

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Phone (310) 670-9221 Fax: (310) 670-9512

CONTACT PERSON(S):

CLIENT: PROJECT NO.:

SITE NAME:

SITE LOCATION:

SAMPLING LOCATION:

SAMPLING INFORMATION:

ANALYSIS REQUESTED	TURNAROUND TIME
	NORMAL
	RUSH
	COMMENTS
	(Precautions/Hazards/ Field Conditions)

SAMPLE ID#	LAB ID#	DATE	TIME	SAMPLE TYPE	# of CONTAINERS	PRESERV ATION	OTHER													NOTES

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
COLLECTED by				AM PM
RELEASED by				AM PM
RELEASED to				AM PM
RELEASED to				AM PM
RECEIVED by LABORATORY				AM PM