# PHASE II ENVIRONMENTAL SITE ASSESSMENT
# 16301 EAST 14TH STREET
# SAN LEANDRO, CALIFORNIA

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# 1. INTRODUCTION

The Hayward Area Recreation Department (hereinafter referred to as HARD) in the County of Alameda, is considering the redevelopment of the property located at 16301 East 14th Street, in the unincorporated community of San Leandro. Ninyo & Moore was retained by the HARD to provide environmental consulting services in support of the redevelopment assessment. Ninyo & Moore has conducted physical site testing (Phase II Environmental Site Assessment [ESA]) which was focused on the evaluation of groundwater on the site.

## 1.1. Background

The site is located at 16301 East 14th Street, in San Leandro, California. The site was formerly utilized as a bulk fuel storage and distribution facility.

A series of environmental evaluations of site soil and groundwater have been conducted on site since 1990. The results of testing revealed elevated concentrations of constituents of concern at several locations on the site. Gasoline, diesel, and kerosene-range petroleum hydrocarbons were detected at elevated concentrations in several areas of the site. Areas revealing the greatest impacts with petroleum compounds include the areas where former underground storage tanks (USTs) T1 through T8 were located (Figure 2).

Guided by the results of these past subsurface evaluations, Ninyo & Moore completed an episode of additional site groundwater and soil sampling and analysis. The objectives and methodology of this testing were described in the June 2007 Workplan for Additional Subsurface Investigation.

# 2. PURPOSE

The purpose of this Phase II ESA was to provide the HARD with an assessment of the impacts to site groundwater in order to gain a better understanding of the feasibility of different redevelopment options. The purpose of this phase of activity is to generate that information required to reasonably predict the scope of remedial work that may need to precede development.

# 3. SITE SETTING

## 3.1. Geographic Setting

The site is a triangular-shaped property located in San Leandro, California. The site is bordered to the south by a baseball field, to the west by Edendale School, and a used car dealership to the northeast. The site is relatively flat, with a gradual downward slope towards the west. The Oakland-Alameda area is situated on a broad, alluvial plain that slopes gently west from the Oakland-Berkeley hills to the San Francisco Bay. The alluvial plain is comprised of alluvial sediments derived from erosion of the hills to the east. The site region is located at the eastern margin of the alluvial plain and is underlain by fine-grained alluvial and tidal-bay sediments. The surface layer of fill observed throughout the site may be underlain by soft bay mud of geologically recent age and sand similar to the fill. Depth to groundwater throughout the site was observed to range from approximately 8 to 8.5 feet below ground surface (bgs).

## 3.2. Environmental Setting

The site was utilized as a bulk fuel storage and distribution facility from the 1960's to the mid 1980's. There were eight USTs located on site, three of which contained gasoline, two contained diesel, two contained kerosene, and one contained stoddard solvent. The USTs were removed in 1998 and the excavated overburden soil was placed back in the UST excavation. A warehouse located in the southwestern corner of the site was reportedly historically used for vehicle storage and maintenance. The warehouse is currently used for vehicle storage. There are also several 55-gallon drums and 5-gallon buckets of unidentified contents stored in the southeast corner of the warehouse. These containers appeared to be in good condition. No floor drains or stains indicative of large spills were observed within the warehouse, however, not all areas of the warehouse were not accessible due to stored vehicles. An unidentified number of 55-gallon drums with unknown contents were observed between the warehouse and the perimeter fencing of the property. These drums are located under well established blackberry bushes and appear to have been in this place for several years. One drum was observed to be slowly leaking what appeared to be heavier range petroleum products from the lid of the drum.

## 4. INVESTIGATIVE METHODOLOGY

Ninyo & Moore's scope of services for Phase II ESA activities included a utility clearance, the installation of three monitoring wells and eight shallow soil borings within the site boundaries, the collection of three grab groundwater samples from outside the site boundaries, two on the Edendale School property, and one from the baseball playing field (Figure 2), and the chemical analysis of soil and groundwater samples collected from the monitoring wells and borings. The locations of monitoring wells and borings were selected based on our evaluation of the results of past subsurface investigations and knowledge of historical site features. Ninyo & Moore conducted the additional Phase II ESA activities on July 2, 3, 9, and 10, and August 10, 2007.

### 4.1. Soil Boring & Sampling

On July 2nd and 3rd, 2007, 11 soil borings (B-1 through B-8, and MW-6 through MW-8) were advanced on site (Figure 2). The borings were located throughout the site, near features of interest such as USTs and aboveground storage tanks, and in areas where no previous data had been collected to fill gaps. Seven borings (B-1 through B-4, and MW-6 through MW-8) were advanced using an 8-inch hollow-stem augur. In these seven borings soil samples were collected at 2 and 5 feet bgs and at the soil groundwater interface using a 2-inch diameter slide-hammer sampler. Additional soil samples were collected in Borings B-5 through B-8. These borings were advanced to the soil groundwater interface using a hand augur. Samples from these borings were collected for analysis if physical signs of contamination, such as odor or staining, were observed.

Soil samples were analyzed for total petroleum hydrocarbons as diesel (TPH-d), total petroleum hydrocarbons as gasoline (TPH-g), and kerosene. Soil samples were collected in stainless steel sleeves, sealed with Teflon™ tape and plastic end caps, affixed with labels, placed in individual zip-lock type bags and packed in a cooler with ice, accompanied with completed chain of custody (COC), for transportation to Advanced Technology Laboratories (ATL), a state certified analytical laboratory.

### 4.2. Monitoring Well Construction and Development

On July 2nd and 3rd, 2007, three borings were advanced on site for the installation of monitoring wells. Monitoring wells MW-6 and MW-8 were installed in the central portion of the site and MW-7 was installed near the northeast corner of the building designated as Dan's Auto Repair. The location of MW-6 through MW-8 were selected based on analytical results from soil and groundwater samples collected in the previous subsurface investigations and the presence of historical site features including USTs in these areas. The borings for the monitoring wells were advanced using an 8-inch diameter hollow-stem augur. MW-7 and MW-8 were advanced to 15.5 feet bgs and MW-6 was advanced to approximately 14.5 feet bgs. The soil encountered in the borings was generally sandy clay or silty clay with saturated layers of clayey sand and clean sand encountered below approximately 7 feet bgs.

Groundwater monitoring wells were completed between approximately 14 and 15 feet bgs, depending on groundwater levels and lithologic conditions encountered during the time of installation. The wells were screened from their completed depth to 5 feet bgs in MW-7 and MW-8, and from the completed depth to approximately 4 feet bgs in MW-6. The screened casing was comprised of 2-inch diameter, 0.01-inch slotted schedule 40 PVC. A screw type PVC end cap was fastened at the bottom of the screen. The remainder of the well casing is composed of blank schedule 40 PVC. Well construction was completed by pouring # 2/12 Monterey Sand into the well annulus to approximately 1-foot above the screened casing, adding 1 foot of hydrated bentonite chips above the sand, and finishing the well within 1 foot of the surface with grout (neat cement), which will be used for the sanitary seal. Locking, traffic rated monitoring well boxes were installed flush with the ground surface.

On July 9th and 10th, 2007, the three new monitoring wells (MW-6 through MW-8) as well as five monitoring wells (MW-1 through MW-5) previously installed on site were developed by surging, pumping, and bailing the wells using a surge block, peristaltic pump, and disposable bailer. The wells were surged with a surge block within the screened portion of the well to remove sediment in the sand pack, after which the wells were bailed to remove sand accumulation in the bottom of the well. Subsequent to the surging and bailing, the wells were

purged of groundwater to further remove sediments in the well using a peristaltic pump. Wells were developed until purge water was visibly free of sediment and pH, temperature and conductivity had stabilized.

### 4.3. Groundwater Sampling Procedure

Groundwater samples were collected subsequent to well development and monitoring of groundwater parameters (pH, temperature, and conductivity) for stability. Groundwater samples were collected using the peristaltic pump, running at low speed to prevent disturbance of the groundwater which could release volatile organic compounds (VOCs).

Groundwater samples for VOC analysis were collected first in three 40 milliliter (ml) glass vials containing hydrochloric acid (HCL) as a preservative. Samples to be analyzed for TPH-g were collected next in three 40 ml glass vials containing HCL as a preservative. Care was taken to prevent any air bubbles from remaining in the glass vials after sample collection. Samples to be analyzed for semi-volatile organic compounds, TPH-d, and kerosene were collected next in 1 liter amber bottles with no preservative. Sample containers were affixed with labels, wrapped in bubble wrap or foam, placed in zip-lock type bags and packed in a cooler with ice, accompanied with completed COC, for transportation to ATL.

### 4.4. Water Level Monitoring

An electronic sounder, accurate to the nearest +/- 0.01 feet, was used to measure the depth to water in each monitoring well. Total well depth was measured from the top of casing by lowering the weighted probe to the bottom of the boring. Water level sounding equipment was decontaminated before and after use in each boring.

### 4.5. Well Casing Elevation Survey

On July 30, 2007, a survey of the relative elevation of the top of well casings was conducted. The casing elevations were compared to the elevation of a fixed reference point assigned the relative elevation of 100 feet. The relative elevations of the tops of well casings

were combined with the depth of groundwater from the tops of the casings in order to determine the relative elevation of groundwater in each monitoring well. This information was used to evaluate the flow direction and gradient of groundwater under the site.

### 4.6. Off-site Groundwater Sampling

On August 10, 2007, three borings (B-9 through B-11) were advanced to approximately 10 feet bgs using hand auguring equipment for the collection of grab groundwater samples. Groundwater was encountered between approximately 7.4 and 7.85 feet bgs. Groundwater was sampled by lowering a 1-inch diameter .01 inch slotted screened PVC casing to the bottom of the boring and pumping out water and sediments using a peristaltic pump. Groundwater was purged from the screened casing until it appeared to be free of sediments. Samples were collected for analysis of VOCs, TPH-d, TPH-g, and kerosene using the same method as described in Section 4.3 above.

## 5. RESULTS OF INVESTIGATION

### 5.1. Groundwater Flow Direction and Gradient

Groundwater under the site encountered between 8 and 8.75 feet bgs. Regional groundwater flow is expected to follow the natural topography of the region and flow towards the west. According to the relative groundwater elevation from each monitoring well, the flow of groundwater is expected to trend in the northwest direction. In the winter time however, the flow of groundwater may trend towards the southwest as groundwater from the hills will influence the groundwater gradient in this direction.

### 5.2. Site Sedimentology

Much of the site is covered in a layer of 1 to 2 feet of brown clayey, gravely sand fill material. Below the surface layer of fill are layers of brown and grey silty sandy clay. From approximately 7 to 14 feet bgs, several layers of clayey sand and clean sand were encoun-

tered which were observed to be saturated, water bearing zones. Consistent clay was encountered at a depth of 12 to 14 feet bgs in the monitoring well borings.

## 5.3. Results of Sample Analysis

Analytical test results are summarized in the sections below. Complete copies of the analytical lab reports are presented in Appendix A.

### 5.3.1. Soil

Soil samples were collected from the Borings B-1 through B-8, and MW-6 through MW-8. The soil sample collected from Borings MW-6 and MW-8 revealed elevated concentrations of petroleum compounds at all the depths which were sampled. The soil samples collected from MW-7 revealed an elevated concentration of diesel in the sample collected from 2 feet bgs and low concentrations of petroleum compounds in the deeper samples. Analytical test results revealed that the soil from the groundwater interface is impacted with elevated concentrations of petroleum compounds in Borings B-1 and B-4. The shallower samples from these borings had much lower concentrations of the constituents of concern. The soil samples collected from Boring B-2 revealed elevated concentrations of petroleum compounds in the surface soil. Concentrations of constituents of concern decreased with depth in Boring B-2 with almost no detectable concentrations at the soil groundwater interface. The soil sample collected from Boring B-7 also revealed elevated concentrations of petroleum compounds in the surface soil. Although samples were not collected deeper than 2 feet bgs in Boring B-7, it was observed that odors and staining were not detected from 2 feet bgs to the depth of groundwater. Although odors were detected in Boring B-8 down to the depth of groundwater, the analytical results revealed only low concentrations of petroleum products, ranging from non-detectable to 23 milligrams per kilogram (mg/kg) in the samples collected from 2 feet and 8 feet bgs. The shallow sample collected from Boring B-6 was not analyzed due to a lack of signs of physical contamination below the surface layer of soil which exhibited slight odors. The sample from Boring B-5 at 2 feet bgs revealed

very low concentrations of petroleum compounds ranging from non-detectable to 2.1 mg/kg. The results of soil analytical results are presented in Table 1 of this report.

### 5.3.2. GroundWater

Groundwater analytical results revealed site groundwater to be impacted with concentrations of petroleum compounds including gasoline, diesel, kerosene and some VOCs throughout the site. Petroleum compound concentrations throughout the site ranged from non-detectable to 2.1 milligrams per liter (mg/l) (Table 3). The areas indicating the greatest impacts with petroleum products were monitoring well MW-6 where diesel range hydrocarbons were detected at 1.5 mg/l, and monitoring well MW-8 where gasoline range hydrocarbons were detected at 2.1 mg/l. Monitoring well MW-8 also revealed the greatest impacts with VOCs which were detected at low concentrations in other samples (Table 4). Poly aromatic hydrocarbons were not detected or were just above detection limits with the exception of the detection of 40 micrograms per liter (µg/l) of naphthalene in MW-8 (Table 2).

## 6. FINDINGS AND CONCLUSIONS

### 6.1. Soil

The site was found to be impacted with petroleum compounds in site soil and groundwater. Soil sampling indicated the presence of soil impacted with petroleum compounds in the areas of the former USTs and the presence of shallow impacted hotspots. The greatest impacts to site soil have occurred in the areas where the former USTs were located. Soil samples collected from within the prior excavations for the USTs indicated the soil to be impacted with elevated concentrations of petroleum compounds from the surface down to the depth of groundwater. In some of the borings on-site soil was also found to be impacted with petroleum compounds at the groundwater interface but free of impacts in the shallower soil, suggesting that impacts in these areas are a result of migration of constituents of concern with groundwater from source areas. Soil analytical results also indicated the presence of a

shallow hotspot impacted with elevated concentrations of diesel and kerosene in the area of Boring B-2 and B-7, the lateral extent of impacted soil in the area is unknown.

### 6.2. Groundwater

The results of groundwater analysis from MW-3 and soil analysis and observations from borings on the southern portion of the site suggest that the impacts to sight groundwater do not extend to the southern portion of the site. This is due to the former USTs being located on the northern half of the site and the direction of groundwater flow being in the northwest direction; therefore, constituents of concern have not migrated to the southern portion of the site. Groundwater in the northern portion of the site has been impacted with petroleum compounds; however, the concentrations are lower than those detected in previous sampling events. This decrease in concentrations may be due to bio-remediation or natural degradation of constituents occurring in the subsurface. The greatest impacts to site groundwater were detected in MW-6 and MW-8, which are located within the former UST excavation footprints. The former UST excavations were backfilled with the soil, which was removed from the pit during removal of the USTs. This soil may have continued to be a source of constituents of concern. Analytical groundwater results indicated that concentrations of constituents of concern decrease with distance from the suspected source areas (former UST locations). Samples collected from the Edendale School adjacent to the northwestern side of the site revealed no detectable concentrations of these petroleum compounds in the groundwater. These results suggest that a major release of constituents of concern has not occurred from within the warehouse or from the 55-gallon drums stored between the warehouse and the western property fence. The sample collected from the baseball field revealed elevated concentrations of petroleum compounds which were higher then those detected in the nearest monitoring well on site. The presence of petroleum in the groundwater at this location indicates that constituents of concern have migrated southwest beyond the boundary of the site. The migration in this direction may be due to the seasonal changes in groundwater flow direction. The extent of impacted groundwater in this off site area has not been defined.

**Table 1 - Soil Sample Analytical Results for Diesel, Gasoline, and Kerosene**

| | Analyte | | |
|---|---|---|---|
| | DRO | GRO | Kerosene |
| **Sample ID** | **Analytical Results (mg/kg)** | | |
| B-1-S-2.0 | 67 | 4 | 15 |
| B-1-S-5.0 | 3.2 | 1.1 | 3.3 |
| B-1-S-6.5 | 11000 | 67 | 5900 |
| B-2-S-2.0 | 15000 | 37 | 4600 |
| B-2-S-5.0 | 7000 | <1.0 | 2000 |
| B-2-S-6.5 | 1.2 | <1.0 | <1.0 |
| B-3-S-2.0 | 18 | <1.0 | <2.0 |
| B-4-S-2.0 | 8.4 | <1.0 | 1.9 |
| B-4-S-5.0 | 2 | <1.0 | 1.2 |
| B-4-S-8.0 | 5100 | 410 | 5600 |
| B-5-S-2.0 | 1.5 | <1.0 | <1.0 |
| B-7-S-2.0 | 1900 | 13 | 380 |
| B-8-S-2.0 | 2.1 | <1.0 | 1.2 |
| B-8-S-8.0 | 23 | 14 | 14 |
| MW-6-S-2.0 | 1200 | 1.7 | 760 |
| MW-6-S-5.0 | 1500 | 34 | 850 |
| MW-6-S-6.5 | 2000 | 54 | 1300 |
| MW-7-S-2.0 | 770 | <1.0 | 74 |
| MW-7-S-5.0 | 34 | <1.0 | <5.0 |
| MW-7-S-7.5 | 16 | <1.0 | <2.0 |
| MW-8-S-2.0 | 110 | 5700 | 140 |
| MW-8-S-5.0 | 14000 | 5200 | 16000 |
| MW-8-S-6.5 | 1700 | 3800 | 1600 |

**Notes:**
< indicates values below the detection limit
Samples analyzed using EPA Method 8015B

## Table 2 - Groundwater Sample Analytical Results for Polycyclic Aromatic Hydrocarbons (PAHs)

| | Sample ID | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | MW-1-GW | MW-2-GW | MW-3-GW | MW-4-GW | MW-5-GW | MW-6-GW | MW-7-GW | MW-8-GW |
| **Analytes** | **Analytical Results (µg/l)** | | | | | | | |
| Acenaphthene | **0.52** | <0.2 | <0.2 | <0.2 | <0.2 | **0.37** | <0.2 | <0.2 |
| Acenaphthylene | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Anthracene | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Benzo(a)anthracene | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Benzo(a)pyrene | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Benzo(b)fluoranthene | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Benzo(g,h,i)perylene | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Benzo(k)fluoranthene | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Chrysene | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Dibenz(a,h)anthracene | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Fluoranthene | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Fluorene | **0.63** | <0.2 | <0.2 | <0.2 | <0.2 | **1.1** | <0.2 | **0.29** |
| Indeno(1,2,3-cd)pyrene | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Naphthalene | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | **40** |
| Phenanthrene | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | **1.1** | <0.2 | **0.32** |
| Pyrene | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |

**Notes:**
< = below laboratory detection limits
**bold** indicates value above the detection limit
Samples analyzed using EPA Method 8270C-Sim
µg/l = micro grams per liter

**Table 3 - Groundwater Sample Analytical Results for Diesel, Gasoline, and Kerosene**

| | Analyte | | |
|---|---|---|---|
| | DRO | GRO | Kerosene |
| **Sample ID** | **Analytical Results (mg/l)** | | |
| MW-1-GW | 1.1 | 1.7 | 0.8 |
| MW-2-GW | 0.21 | 0.093 | 0.094 |
| MW-3-GW | 0.062 | <.05 | <.05 |
| MW-4-GW | 0.71 | 0.67 | 0.4 |
| MW-5-GW | 0.38 | 0.17 | 0.17 |
| MW-6-GW | 1.5 | 0.78 | 0.91 |
| MW-7-GW | 0.51 | <.05 | 0.091 |
| MW-8-GW | 0.79 | 2.1 | 0.5 |
| B-9-GW | <.05 | <.05 | <.05 |
| B-10-GW | <.05 | <.05 | <.05 |
| B-11-GW | 0.74 | <.05 | 0.27 |

**Notes:**
mg/l = milligrams per liter
< indicates values below the detection limit
Samples analyzed using EPA Method 8015B

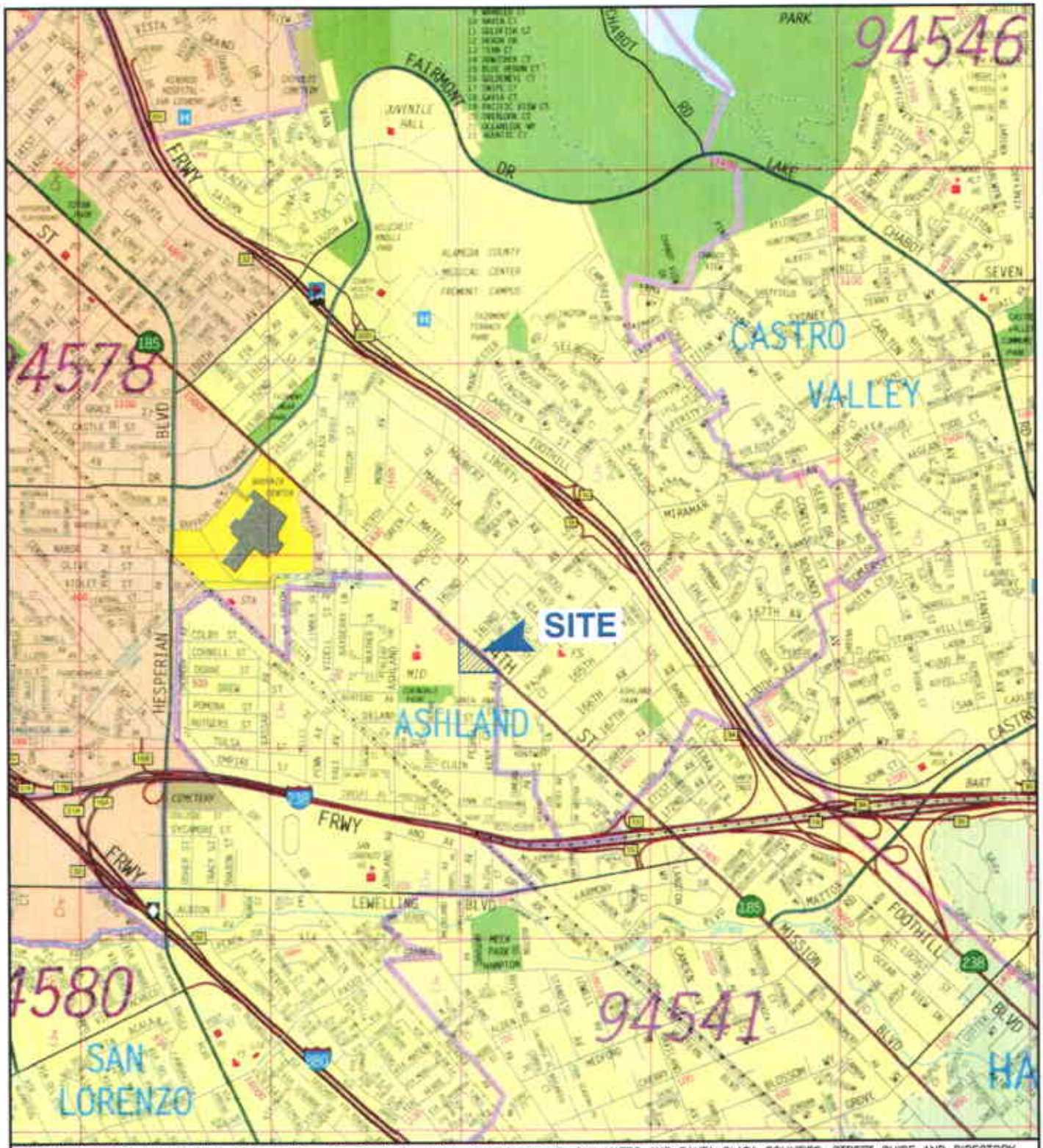
## Table 4 - Groundwater Sample Analytical Results for Volatile Organic Compounds

| | Sample ID | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MW-1-GW | MW-2-GW | MW-3-GW | MW-4-GW | MW-5-GW | MW-6-GW | MW-7-GW | MW-8-GW | B-9-GW | B-10-GW | B-11-GW |
| **Analytes** | **Analytical Results (µg/l)** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,1,1-Trichloroethane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,1,2,2-Tetrachloroethane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,1,2-Trichloroethane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,1-Dichloroethane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,1-Dichloroethene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,1-Dichloropropene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,2,3-Trichlorobenzene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,2,3-Trichloropropane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,2,4-Trichlorobenzene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,2,4-Trimethylbenzene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **82** | <0.5 | <0.5 | <0.5 |
| 1,2-Dibromo-3-chloropropane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,2-Dibromoethane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,2-Dichlorobenzene | <0.5 | <0.5 | <0.5 | **0.51** | <0.5 | **0.58** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,2-Dichloroethane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,2-Dichloropropane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,3,5-Trimethylbenzene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **30** | <0.5 | <0.5 | <0.5 |
| 1,3-Dichlorobenzene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **3.1** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,3-Dichloropropane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,4-Dichlorobenzene | **0.51** | <0.5 | <0.5 | **0.51** | <0.5 | **9.1** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 2,2-Dichloropropane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 2-Chlorotoluene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **1.6** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 4-Chlorotoluene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 4-Isopropyltoluene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **3.5** | <0.5 | <0.5 | <0.5 |
| Benzene | **3** | <0.5 | <0.5 | **3.7** | <0.5 | **11** | <0.5 | **110** | <0.5 | <0.5 | <0.5 |
| Bromobenzene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Bromodichloromethane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Bromoform | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Bromomethane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Carbon tetrachloride | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Chlorobenzene | **0.84** | <0.5 | <0.5 | **1.7** | <0.5 | **2.1** | **0.94** | **3.8** | <0.5 | <0.5 | <0.5 |
| Chloroethane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Chloroform | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Chloromethane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.67** | <0.5 | <0.5 |
| cis-1,2-Dichloroethene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| cis-1,3-Dichloropropene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Dibromochloromethane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Dibromomethane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Dichlorodifluoromethane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

**Table 4 - Groundwater Sample Analytical Results for Volatile Organic Compounds**

| | Sample ID | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MW-1-GW | MW-2-GW | MW-3-GW | MW-4-GW | MW-5-GW | MW-6-GW | MW-7-GW | MW-8-GW | B-9-GW | B-10-GW | B-11-GW |
| **Analytes** | **Analytical Results (µg/l)** | | | | | | | | | | |
| Ethylbenzene | **1.3** | <0.5 | <0.5 | <0.5 | <0.5 | **0.71** | <0.5 | **76** | <0.5 | <0.5 | <0.5 |
| Hexachlorobutadiene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Isopropylbenzene | **51** | **0.68** | <0.5 | **20** | **1.8** | **20** | <0.5 | **12** | <0.5 | <0.5 | <0.5 |
| m,p-Xylene | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | **190** | <1.0 | <1.0 | <1.0 |
| Methylene chloride | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MTBE | <0.5 | <0.5 | <0.5 | **13** | **6.9** | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Naphthalene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **38** | <0.5 | <0.5 | <0.5 |
| n-Butylbenzene | **27** | <0.5 | <0.5 | **7.9** | <0.5 | **5.4** | <0.5 | **7.2** | <0.5 | <0.5 | <0.5 |
| n-Propylbenzene | **130** | **0.6** | <0.5 | **42** | **2.3** | **32** | <0.5 | **30** | <0.5 | <0.5 | <0.5 |
| o-Xylene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **2.4** | <0.5 | **25** | <0.5 | <0.5 | <0.5 |
| sec-Butylbenzene | **25** | **0.52** | <0.5 | **12** | **0.94** | **7** | <0.5 | **2.5** | <0.5 | <0.5 | <0.5 |
| Styrene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| tert-Butylbenzene | **1.9** | <0.5 | <0.5 | **1.2** | **0.51** | **0.57** | <0.5 | **0.59** | <0.5 | <0.5 | <0.5 |
| Tetrachloroethene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Toluene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | **0.64** | <0.5 | **6.8** | <0.5 | <0.5 | <0.5 |
| trans-1,2-Dichloroethene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Trichloroethene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Trichlorofluoromethane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Vinyl chloride | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

**Notes:**
µg/l = micrograms per liter
**bold** indicates value above the detection limit
< indicates values below detection limits
Samples analyzed using EPA Method 8260B




REFERENCE: 2005 THOMAS GUIDE FOR ALAMEDA, CONTRA COSTA, MARIN, SAN FRANCISCO, SAN MATEO AND SANTA CLARA COUNTIES, STREET GUIDE AND DIRECTORY.

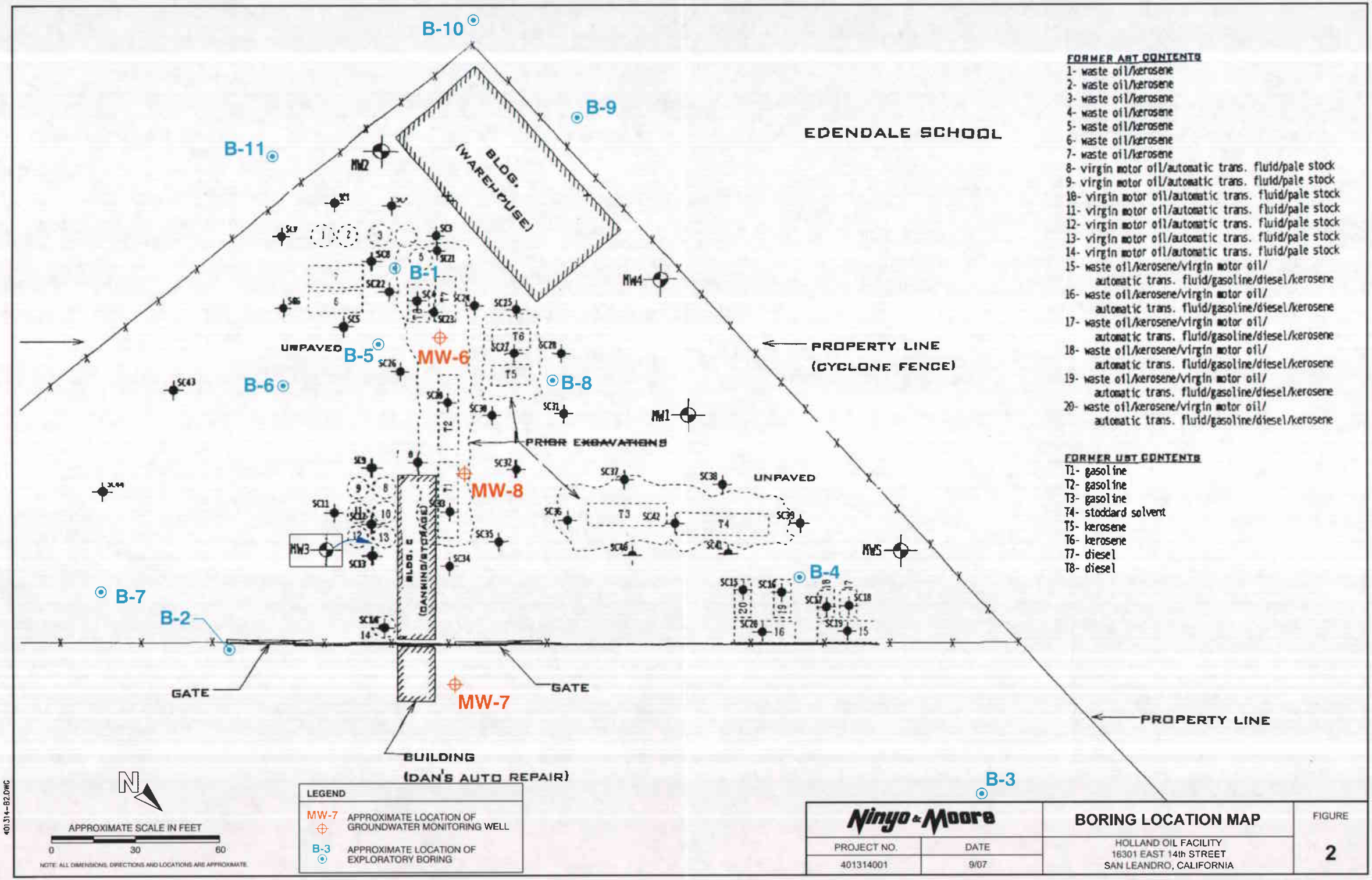
APPROXIMATE SCALE IN FEET

0 1900 3800

NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

401314-A1.DWG

| Ninyo & Moore | SITE LOCATION MAP | FIGURE |
|---|---|---|
| PROJECT NO. 401314001 / DATE 9/07 | HOLLAND OIL FACILITY<br>16301 EAST 14th STREET<br>SAN LEANDRO, CALIFORNIA | 1 |




FORMER AST CONTENTS

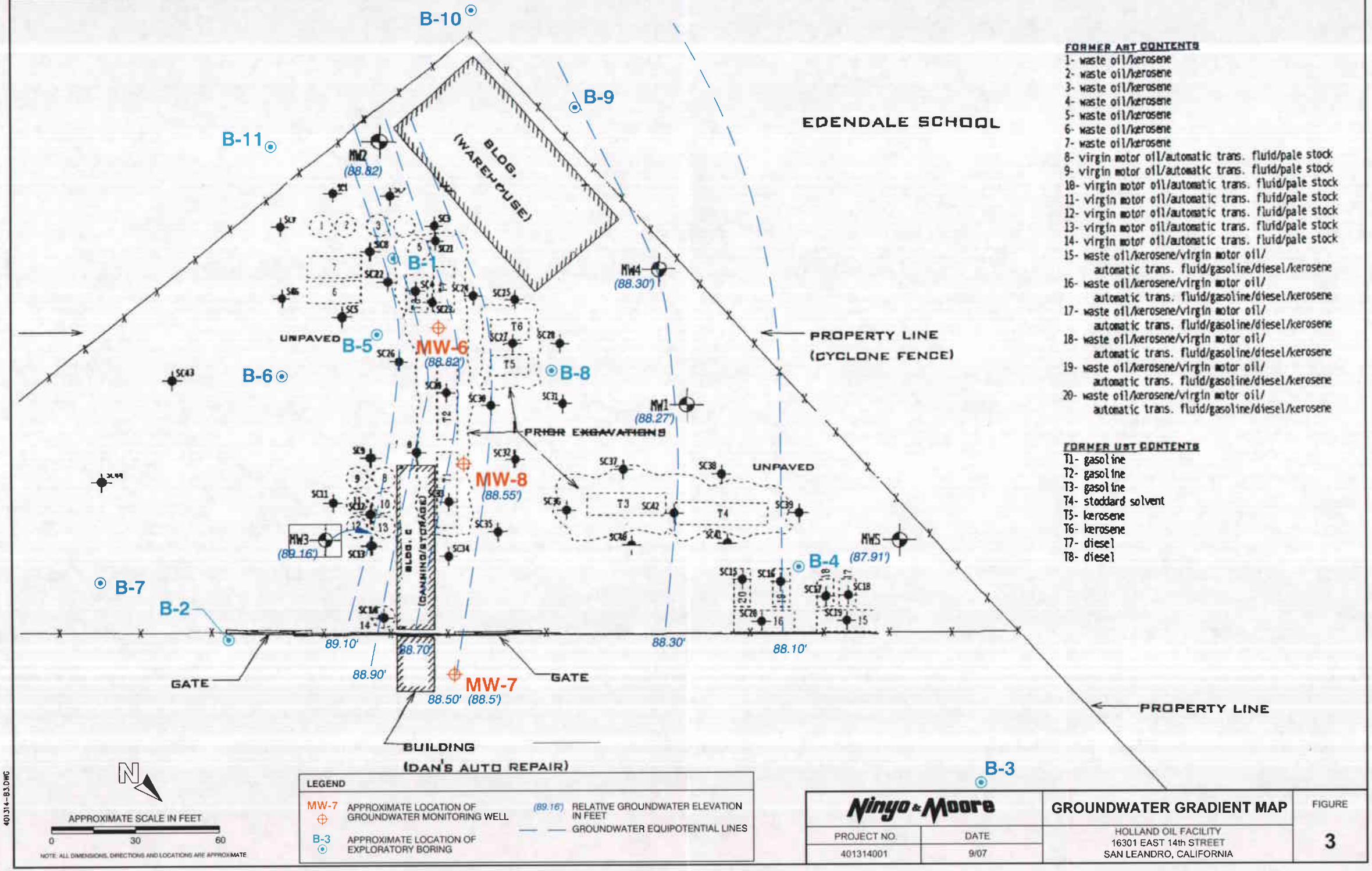
1- waste oil/kerosene
2- waste oil/kerosene
3- waste oil/kerosene
4- waste oil/kerosene
5- waste oil/kerosene
6- waste oil/kerosene
7- waste oil/kerosene
8- virgin motor oil/automatic trans. fluid/pale stock
9- virgin motor oil/automatic trans. fluid/pale stock
10- virgin motor oil/automatic trans. fluid/pale stock
11- virgin motor oil/automatic trans. fluid/pale stock
12- virgin motor oil/automatic trans. fluid/pale stock
13- virgin motor oil/automatic trans. fluid/pale stock
14- virgin motor oil/automatic trans. fluid/pale stock
15- waste oil/kerosene/virgin motor oil/ automatic trans. fluid/gasoline/diesel/kerosene
16- waste oil/kerosene/virgin motor oil/ automatic trans. fluid/gasoline/diesel/kerosene
17- waste oil/kerosene/virgin motor oil/ automatic trans. fluid/gasoline/diesel/kerosene
18- waste oil/kerosene/virgin motor oil/ automatic trans. fluid/gasoline/diesel/kerosene
19- waste oil/kerosene/virgin motor oil/ automatic trans. fluid/gasoline/diesel/kerosene
20- waste oil/kerosene/virgin motor oil/ automatic trans. fluid/gasoline/diesel/kerosene

FORMER UST CONTENTS

T1- gasoline
T2- gasoline
T3- gasoline
T4- stoddard solvent
T5- kerosene
T6- kerosene
T7- diesel
T8- diesel

| Ninyo & Moore | BORING LOCATION MAP | FIGURE |
|---|---|---|
| PROJECT NO. 401314001 / DATE 9/07 | HOLLAND OIL FACILITY<br>16301 EAST 14th STREET<br>SAN LEANDRO, CALIFORNIA | 2 |

401314-B2.DWG




**FORMER ART CONTENTS**

1- waste oil/kerosene
2- waste oil/kerosene
3- waste oil/kerosene
4- waste oil/kerosene
5- waste oil/kerosene
6- waste oil/kerosene
7- waste oil/kerosene
8- virgin motor oil/automatic trans. fluid/pale stock
9- virgin motor oil/automatic trans. fluid/pale stock
10- virgin motor oil/automatic trans. fluid/pale stock
11- virgin motor oil/automatic trans. fluid/pale stock
12- virgin motor oil/automatic trans. fluid/pale stock
13- virgin motor oil/automatic trans. fluid/pale stock
14- virgin motor oil/automatic trans. fluid/pale stock
15- waste oil/kerosene/virgin motor oil/ automatic trans. fluid/gasoline/diesel/kerosene
16- waste oil/kerosene/virgin motor oil/ automatic trans. fluid/gasoline/diesel/kerosene
17- waste oil/kerosene/virgin motor oil/ automatic trans. fluid/gasoline/diesel/kerosene
18- waste oil/kerosene/virgin motor oil/ automatic trans. fluid/gasoline/diesel/kerosene
19- waste oil/kerosene/virgin motor oil/ automatic trans. fluid/gasoline/diesel/kerosene
20- waste oil/kerosene/virgin motor oil/ automatic trans. fluid/gasoline/diesel/kerosene

**FORMER UST CONTENTS**

T1- gasoline
T2- gasoline
T3- gasoline
T4- stoddard solvent
T5- kerosene
T6- kerosene
T7- diesel
T8- diesel

APPROXIMATE SCALE IN FEET
0 30 60
NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE

**LEGEND**

MW-7 — APPROXIMATE LOCATION OF GROUNDWATER MONITORING WELL
B-3 — APPROXIMATE LOCATION OF EXPLORATORY BORING
(89.16') — RELATIVE GROUNDWATER ELEVATION IN FEET
GROUNDWATER EQUIPOTENTIAL LINES

Ninyo & Moore

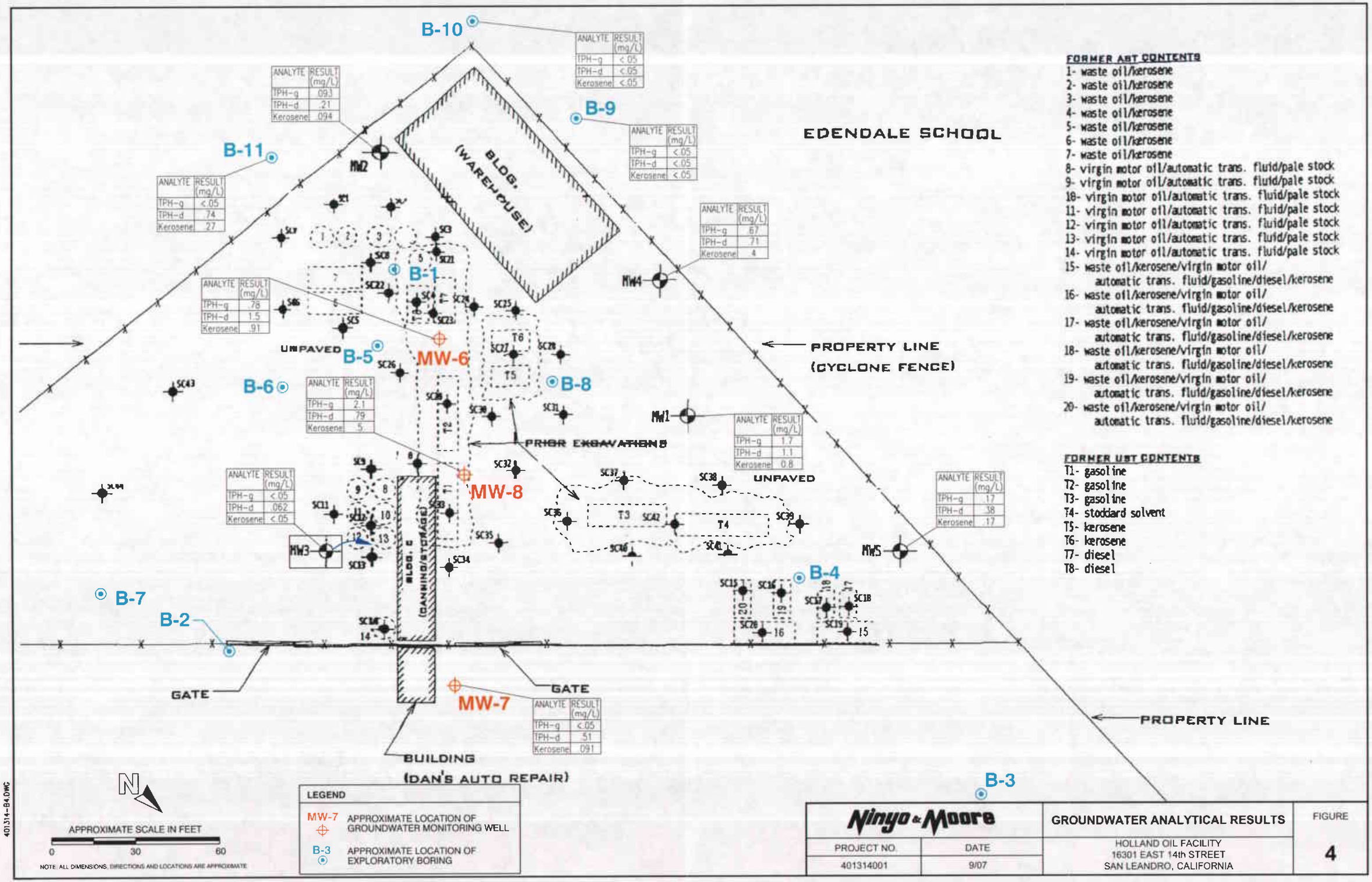
| PROJECT NO. | DATE |
|---|---|
| 401314001 | 9/07 |

**GROUNDWATER GRADIENT MAP**

HOLLAND OIL FACILITY
16301 EAST 14th STREET
SAN LEANDRO, CALIFORNIA

FIGURE 3

401314-B3.DWG




**FORMER ABT CONTENTS**

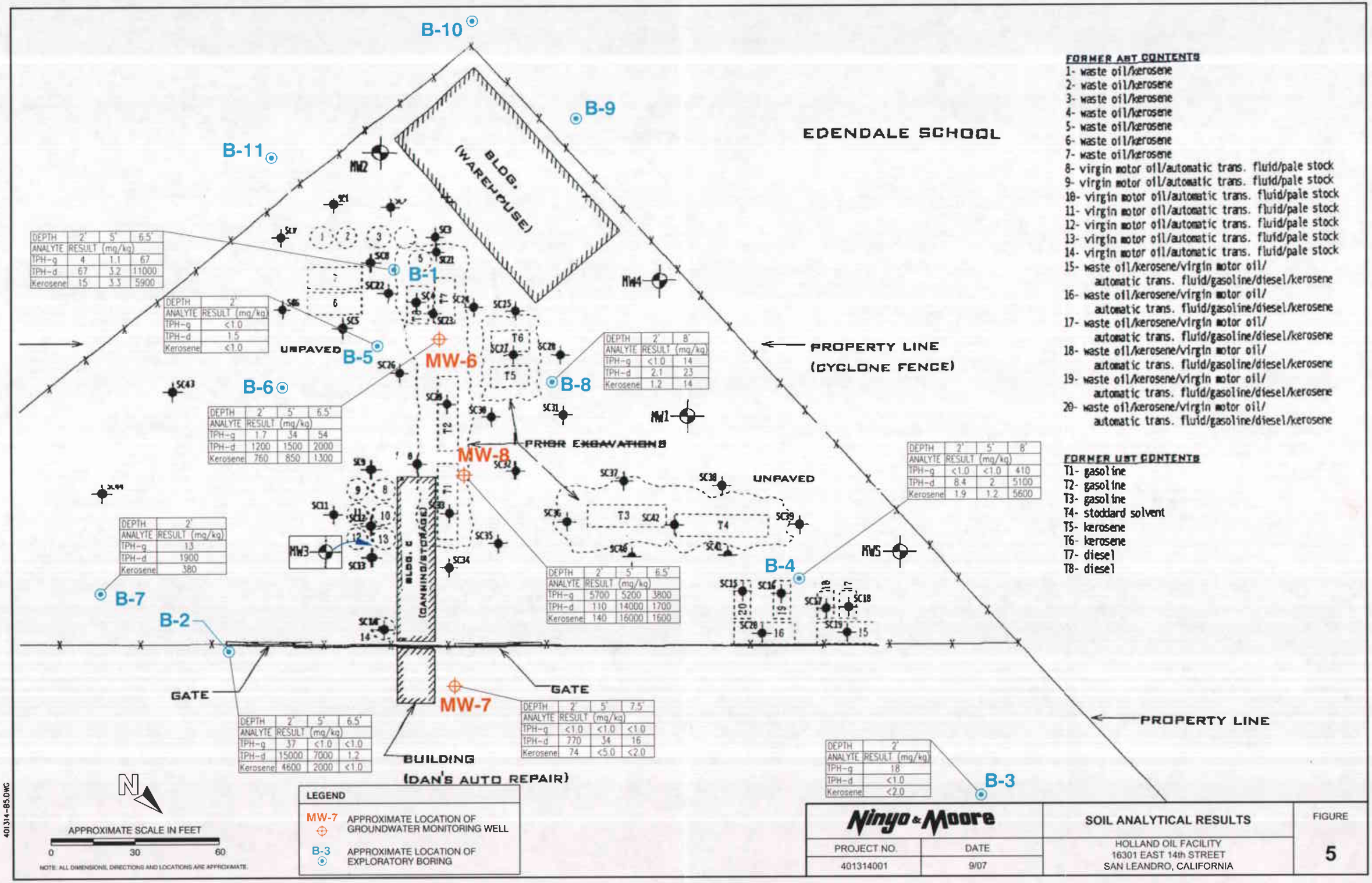
1- waste oil/kerosene
2- waste oil/kerosene
3- waste oil/kerosene
4- waste oil/kerosene
5- waste oil/kerosene
6- waste oil/kerosene
7- waste oil/kerosene
8- virgin motor oil/automatic trans. fluid/pale stock
9- virgin motor oil/automatic trans. fluid/pale stock
10- virgin motor oil/automatic trans. fluid/pale stock
11- virgin motor oil/automatic trans. fluid/pale stock
12- virgin motor oil/automatic trans. fluid/pale stock
13- virgin motor oil/automatic trans. fluid/pale stock
14- virgin motor oil/automatic trans. fluid/pale stock
15- waste oil/kerosene/virgin motor oil/ automatic trans. fluid/gasoline/diesel/kerosene
16- waste oil/kerosene/virgin motor oil/ automatic trans. fluid/gasoline/diesel/kerosene
17- waste oil/kerosene/virgin motor oil/ automatic trans. fluid/gasoline/diesel/kerosene
18- waste oil/kerosene/virgin motor oil/ automatic trans. fluid/gasoline/diesel/kerosene
19- waste oil/kerosene/virgin motor oil/ automatic trans. fluid/gasoline/diesel/kerosene
20- waste oil/kerosene/virgin motor oil/ automatic trans. fluid/gasoline/diesel/kerosene

**FORMER UST CONTENTS**

T1- gasoline
T2- gasoline
T3- gasoline
T4- stoddard solvent
T5- kerosene
T6- kerosene
T7- diesel
T8- diesel

401314-B4.DWG

| Ninyo & Moore | GROUNDWATER ANALYTICAL RESULTS | FIGURE |
|---|---|---|
| PROJECT NO. 401314001 / DATE 9/07 | HOLLAND OIL FACILITY<br>16301 EAST 14th STREET<br>SAN LEANDRO, CALIFORNIA | 4 |




| DEPTH | 2' | 5' | 6.5' |
|---|---|---|---|
| ANALYTE | RESULT (mg/kg) | | |
| TPH-g | 4 | 1.1 | 67 |
| TPH-d | 67 | 3.2 | 11000 |
| Kerosene | 15 | 3.3 | 5900 |

| DEPTH | 2' |
|---|---|
| ANALYTE | RESULT (mg/kg) |
| TPH-g | <1.0 |
| TPH-d | 1.5 |
| Kerosene | <1.0 |

| DEPTH | 2' | 8' |
|---|---|---|
| ANALYTE | RESULT | (mg/kg) |
| TPH-g | <1.0 | 14 |
| TPH-d | 2.1 | 23 |
| Kerosene | 1.2 | 14 |

| DEPTH | 2' | 5' | 6.5' |
|---|---|---|---|
| ANALYTE | RESULT | (mg/kg) | |
| TPH-g | 1.7 | 34 | 54 |
| TPH-d | 1200 | 1500 | 2000 |
| Kerosene | 760 | 850 | 1300 |

| DEPTH | 2' | 5' | 8' |
|---|---|---|---|
| ANALYTE | RESULT | (mg/kg) | |
| TPH-g | <1.0 | <1.0 | 410 |
| TPH-d | 8.4 | 2 | 5100 |
| Kerosene | 1.9 | 1.2 | 5600 |

| DEPTH | 2' |
|---|---|
| ANALYTE | RESULT (mg/kg) |
| TPH-g | 13 |
| TPH-d | 1900 |
| Kerosene | 380 |

| DEPTH | 2' | 5' | 6.5' |
|---|---|---|---|
| ANALYTE | RESULT | (mg/kg) | |
| TPH-g | 5700 | 5200 | 3800 |
| TPH-d | 110 | 14000 | 1700 |
| Kerosene | 140 | 16000 | 1600 |

| DEPTH | 2' | 5' | 6.5' |
|---|---|---|---|
| ANALYTE | RESULT | (mg/kg) | |
| TPH-g | 37 | <1.0 | <1.0 |
| TPH-d | 15000 | 7000 | 1.2 |
| Kerosene | 4600 | 2000 | <1.0 |

| DEPTH | 2' | 5' | 7.5' |
|---|---|---|---|
| ANALYTE | RESULT | (mg/kg) | |
| TPH-g | <1.0 | <1.0 | <1.0 |
| TPH-d | 770 | 34 | 16 |
| Kerosene | 74 | <5.0 | <2.0 |

| DEPTH | 2' |
|---|---|
| ANALYTE | RESULT (mg/kg) |
| TPH-g | 18 |
| TPH-d | <1.0 |
| Kerosene | <2.0 |

**FORMER AST CONTENTS**

1- waste oil/kerosene
2- waste oil/kerosene
3- waste oil/kerosene
4- waste oil/kerosene
5- waste oil/kerosene
6- waste oil/kerosene
7- waste oil/kerosene
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18- waste oil/kerosene/virgin motor oil/ automatic trans. fluid/gasoline/diesel/kerosene
19- waste oil/kerosene/virgin motor oil/ automatic trans. fluid/gasoline/diesel/kerosene
20- waste oil/kerosene/virgin motor oil/ automatic trans. fluid/gasoline/diesel/kerosene

**FORMER UST CONTENTS**

T1- gasoline
T2- gasoline
T3- gasoline
T4- stoddard solvent
T5- kerosene
T6- kerosene
T7- diesel
T8- diesel

**LEGEND**

MW-7 APPROXIMATE LOCATION OF GROUNDWATER MONITORING WELL

B-3 APPROXIMATE LOCATION OF EXPLORATORY BORING

Ninyo & Moore

| PROJECT NO. | DATE |
|---|---|
| 401314001 | 9/07 |

**SOIL ANALYTICAL RESULTS**

HOLLAND OIL FACILITY
16301 EAST 14th STREET
SAN LEANDRO, CALIFORNIA

FIGURE 5

# APPENDIX A

# LABORATORY ANALYTICAL RESULT

July 13, 2007

Cem Atabek
Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612
TEL: (510) 633-5640
FAX: (510) 633-5646

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
Arizona: AZ0689
CSDLAC No.: 10196
Workorder No.: 093006

RE: Holland Oil, 401314001

Attention: Cem Atabek

Enclosed are the results for sample(s) received on July 03, 2007 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director





*Advanced Technology Laboratories* *3275 Walnut Avenue* *Signal Hill, CA 90755* *Tel: 562 989-4045* *Fax: 562 989-4040*

**CLIENT:** Ninyo & Moore
**Project:** Holland Oil, 401314001
**Lab Order:** 093006

## CASE NARRATIVE

Analytical Comments for EPA 8015 (Kerosene)

Samples 093006-001A, 093006-007A, 093006-008A, 093006-010A, 093006-011A, 093006-012A, 093006-013A, 093006-014A, 093006-015A: Sample contains hydrocarbons within the kerosene range that do not match the kerosene pattern. Quantitation was based on kerosene standard.



*Advanced Technology Laboratories*
*3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040*

## Advanced Technology Laboratories

# ANALYTICAL RESULTS

**Print Date:** *13-Jul-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 093006
**Project:** Holland Oil, 401314001
**Lab ID:** 093006-001

**Client Sample ID:** MW-7-5-2.0
**Collection Date:** 7/2/2007 8:30:00 AM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate: 7/9/2007 | | Analyst: **CBR** |
| DRO | 770 | 20 | | mg/Kg | 10 | 7/10/2007 09:03 PM |
| Surr: p-Terphenyl | 0 | 27-110 | SDO | %REC | 10 | 7/10/2007 09:03 PM |
| **KEROSENE BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate: 7/9/2007 | | Analyst: **CBR** |
| Kerosene | 74 | 20 | | mg/Kg | 10 | 7/10/2007 09:03 PM |
| Surr: p-Terphenyl | 0 | 27-110 | SDO | %REC | 10 | 7/10/2007 09:03 PM |
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| | | | | **EPA 8015B(M)** | | |
| RunID: GC1_070705A | QC Batch: D07VS080 | | | PrepDate: | | Analyst: **AAH** |
| GRO | ND | 1.0 | | mg/Kg | 1 | 7/5/2007 03:25 PM |
| Surr: Bromofluorobenzene (FID) | 105 | 42-149 | | %REC | 1 | 7/5/2007 03:25 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

## Advanced Technology Laboratories

# ANALYTICAL RESULTS

**Print Date:** *13-Jul-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 093006
**Project:** Holland Oil, 401314001
**Lab ID:** 093006-002

**Client Sample ID:** MW-7-5-5.0
**Collection Date:** 7/2/2007 8:50:00 AM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate: | 7/9/2007 | Analyst: **CBR** |
| DRO | 34 | 5.0 | | mg/Kg | 5 | 7/11/2007 10:59 AM |
| Surr: p-Terphenyl | 54.7 | 27-110 | | %REC | 5 | 7/11/2007 10:59 AM |
| **KEROSENE BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate: | 7/9/2007 | Analyst: **CBR** |
| Kerosene | ND | 5.0 | | mg/Kg | 5 | 7/11/2007 10:59 AM |
| Surr: p-Terphenyl | 63.8 | 27-110 | | %REC | 5 | 7/11/2007 10:59 AM |
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| | | | | **EPA 8015B(M)** | | |
| RunID: GC2_070703A | QC Batch: E07VS217 | | | PrepDate: | | Analyst: **AAH** |
| GRO | ND | 1.0 | | mg/Kg | 1 | 7/3/2007 10:29 PM |
| Surr: Bromofluorobenzene (FID) | 102 | 42-149 | | %REC | 1 | 7/3/2007 10:29 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

**CLIENT:** Ninyo & Moore
**Lab Order:** 093006
**Project:** Holland Oil, 401314001
**Lab ID:** 093006-003

**Client Sample ID:** MW-7-5-7.5
**Collection Date:** 7/2/2007 9:10:00 AM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate: 7/9/2007 | | Analyst: **CBR** |
| DRO | 16 | 2.0 | | mg/Kg | 1 | 7/10/2007 04:42 PM |
| Surr: p-Terphenyl | 71.0 | 27-110 | | %REC | 1 | 7/10/2007 04:42 PM |
| **KEROSENE BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate: 7/9/2007 | | Analyst: **CBR** |
| Kerosene | ND | 2.0 | | mg/Kg | 1 | 7/10/2007 04:42 PM |
| Surr: p-Terphenyl | 79.1 | 27-110 | | %REC | 1 | 7/10/2007 04:42 PM |
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| | | | | **EPA 8015B(M)** | | |
| RunID: GC1_070705A | QC Batch: D07VS080 | | | PrepDate: | | Analyst: **AAH** |
| GRO | ND | 1.0 | | mg/Kg | 1 | 7/5/2007 04:23 PM |
| Surr: Bromofluorobenzene (FID) | 109 | 42-149 | | %REC | 1 | 7/5/2007 04:23 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

**CLIENT:** Ninyo & Moore
**Lab Order:** 093006
**Project:** Holland Oil, 401314001
**Lab ID:** 093006-004

**Client Sample ID:** B-3-5-2.0
**Collection Date:** 7/2/2007 11:00:00 AM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate: | 7/9/2007 | Analyst: **CBR** |
| DRO | 18 | 2.0 | | mg/Kg | 1 | 7/10/2007 06:28 PM |
| Surr: p-Terphenyl | 68.8 | 27-110 | | %REC | 1 | 7/10/2007 06:28 PM |
| **KEROSENE BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate: | 7/9/2007 | Analyst: **CBR** |
| Kerosene | ND | 2.0 | | mg/Kg | 1 | 7/10/2007 06:28 PM |
| Surr: p-Terphenyl | 74.1 | 27-110 | | %REC | 1 | 7/10/2007 06:28 PM |
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| | | | | **EPA 8015B(M)** | | |
| RunID: GC2_070703A | QC Batch: E07VS217 | | | PrepDate: | | Analyst: **AAH** |
| GRO | ND | 1.0 | | mg/Kg | 1 | 7/3/2007 11:18 PM |
| Surr: Bromofluorobenzene (FID) | 96.0 | 42-149 | | %REC | 1 | 7/3/2007 11:18 PM |

**Qualifiers:**

| | |
|---|---|
| B | Analyte detected in the associated Method Blank |
| H | Holding times for preparation or analysis exceeded |
| S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out |
| E | Value above quantitation range |
| ND | Not Detected at the Reporting Limit |
| | Results are wet unless otherwise specified |

## Advanced Technology Laboratories

# ANALYTICAL RESULTS

**Print Date:** *13-Jul-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 093006
**Project:** Holland Oil, 401314001
**Lab ID:** 093006-007

**Client Sample ID:** B-2-5-2.0
**Collection Date:** 7/2/2007 1:25:00 PM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate: | 7/9/2007 | Analyst: **CBR** |
| DRO | 15000 | 200 | | mg/Kg | 100 | 7/11/2007 11:51 AM |
| Surr: p-Terphenyl | 0 | 27-110 | SDO | %REC | 100 | 7/11/2007 11:51 AM |
| **KEROSENE BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate: | 7/9/2007 | Analyst: **CBR** |
| Kerosene | 4600 | 200 | | mg/Kg | 100 | 7/11/2007 11:51 AM |
| Surr: p-Terphenyl | 0 | 27-110 | SDO | %REC | 100 | 7/11/2007 11:51 AM |
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| | | | | **EPA 8015B(M)** | | |
| RunID: GC2_070703A | QC Batch: E07VS217 | | | PrepDate: | | Analyst: **AAH** |
| GRO | 37 | 1.0 | | mg/Kg | 1 | 7/3/2007 11:42 PM |
| Surr: Bromofluorobenzene (FID) | 70.9 | 42-149 | | %REC | 1 | 7/3/2007 11:42 PM |

**Qualifiers:**
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- E Value above quantitation range
- ND Not Detected at the Reporting Limit

Results are wet unless otherwise specified

## Advanced Technology Laboratories

# ANALYTICAL RESULTS

**Print Date:** *13-Jul-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 093006
**Project:** Holland Oil, 401314001
**Lab ID:** 093006-008

**Client Sample ID:** B-2-5-5.0
**Collection Date:** 7/2/2007 1:40:00 PM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate: | 7/9/2007 | Analyst: **CBR** |
| DRO | 7000 | 100 | | mg/Kg | 50 | 7/11/2007 12:17 PM |
| Surr: p-Terphenyl | 0 | 27-110 | SDO | %REC | 50 | 7/11/2007 12:17 PM |
| **KEROSENE BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate: | 7/9/2007 | Analyst: **CBR** |
| Kerosene | 2000 | 100 | | mg/Kg | 50 | 7/11/2007 12:17 PM |
| Surr: p-Terphenyl | 0 | 27-110 | SDO | %REC | 50 | 7/11/2007 12:17 PM |
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| | | | | **EPA 8015B(M)** | | |
| RunID: GC1_070705A | QC Batch: D07VS080 | | | PrepDate: | | Analyst: **AAH** |
| GRO | ND | 1.0 | | mg/Kg | 1 | 7/5/2007 04:52 PM |
| Surr: Bromofluorobenzene (FID) | 113 | 42-149 | | %REC | 1 | 7/5/2007 04:52 PM |

**Qualifiers:**

| | |
|---|---|
| B | Analyte detected in the associated Method Blank |
| H | Holding times for preparation or analysis exceeded |
| S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out |
| E | Value above quantitation range |
| ND | Not Detected at the Reporting Limit |
| | Results are wet unless otherwise specified |

## Advanced Technology Laboratories

# ANALYTICAL RESULTS

**Print Date:** *13-Jul-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 093006
**Project:** Holland Oil, 401314001
**Lab ID:** 093006-009

**Client Sample ID:** B-2-5-6.5
**Collection Date:** 7/2/2007 1:55:00 PM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate: | 7/9/2007 | Analyst: **CBR** |
| DRO | 1.2 | 1.0 | | mg/Kg | 1 | 7/10/2007 03:45 PM |
| Surr: p-Terphenyl | 83.9 | 27-110 | | %REC | 1 | 7/10/2007 03:45 PM |
| **KEROSENE BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate: | 7/9/2007 | Analyst: **CBR** |
| Kerosene | ND | 1.0 | | mg/Kg | 1 | 7/10/2007 03:45 PM |
| Surr: p-Terphenyl | 92.8 | 27-110 | | %REC | 1 | 7/10/2007 03:45 PM |
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| | | | | **EPA 8015B(M)** | | |
| RunID: GC2_070703A | QC Batch: E07VS217 | | | PrepDate: | | Analyst: **AAH** |
| GRO | ND | 1.0 | | mg/Kg | 1 | 7/4/2007 12:31 AM |
| Surr: Bromofluorobenzene (FID) | 102 | 42-149 | | %REC | 1 | 7/4/2007 12:31 AM |

**Qualifiers:**

| | |
|---|---|
| B | Analyte detected in the associated Method Blank |
| H | Holding times for preparation or analysis exceeded |
| S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out |
| E | Value above quantitation range |
| ND | Not Detected at the Reporting Limit |
| | Results are wet unless otherwise specified |

## Advanced Technology Laboratories

# ANALYTICAL RESULTS

**Print Date:** *13-Jul-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 093006
**Project:** Holland Oil, 401314001
**Lab ID:** 093006-010

**Client Sample ID:** B-1-5-2.0
**Collection Date:** 7/2/2007 2:40:00 PM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate: | 7/9/2007 | Analyst: **CBR** |
| DRO | 67 | 1.0 | | mg/Kg | 1 | 7/10/2007 04:16 PM |
| Surr: p-Terphenyl | 73.7 | 27-110 | | %REC | 1 | 7/10/2007 04:16 PM |
| **KEROSENE BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate: | 7/9/2007 | Analyst: **CBR** |
| Kerosene | 15 | 1.0 | | mg/Kg | 1 | 7/10/2007 04:16 PM |
| Surr: p-Terphenyl | 86.5 | 27-110 | | %REC | 1 | 7/10/2007 04:16 PM |
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| | | | | **EPA 8015B(M)** | | |
| RunID: GC2_070703A | QC Batch: E07VS217 | | | PrepDate: | | Analyst: **AAH** |
| GRO | 4.0 | 1.0 | | mg/Kg | 1 | 7/4/2007 12:55 AM |
| Surr: Bromofluorobenzene (FID) | 85.8 | 42-149 | | %REC | 1 | 7/4/2007 12:55 AM |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- E Value above quantitation range
- ND Not Detected at the Reporting Limit

Results are wet unless otherwise specified

## Advanced Technology Laboratories

# ANALYTICAL RESULTS

**Print Date:** *13-Jul-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 093006
**Project:** Holland Oil, 401314001
**Lab ID:** 093006-011

**Client Sample ID:** B-1-5-5.0
**Collection Date:** 7/2/2007 2:50:00 PM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate: | 7/9/2007 | Analyst: **CBR** |
| DRO | 3.2 | 1.0 | | mg/Kg | 1 | 7/10/2007 03:19 PM |
| Surr: p-Terphenyl | 82.4 | 27-110 | | %REC | 1 | 7/10/2007 03:19 PM |
| **KEROSENE BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate: | 7/9/2007 | Analyst: **CBR** |
| Kerosene | 3.3 | 1.0 | | mg/Kg | 1 | 7/10/2007 03:19 PM |
| Surr: p-Terphenyl | 89.7 | 27-110 | | %REC | 1 | 7/10/2007 03:19 PM |
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| | | | | **EPA 8015B(M)** | | |
| RunID: GC1_070705A | QC Batch: D07VS080 | | | PrepDate: | | Analyst: **AAH** |
| GRO | 1.1 | 1.0 | | mg/Kg | 1 | 7/5/2007 05:20 PM |
| Surr: Bromofluorobenzene (FID) | 121 | 42-149 | | %REC | 1 | 7/5/2007 05:20 PM |

**Qualifiers:**

| | |
|---|---|
| B | Analyte detected in the associated Method Blank |
| H | Holding times for preparation or analysis exceeded |
| S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out |
| E | Value above quantitation range |
| ND | Not Detected at the Reporting Limit |
| | Results are wet unless otherwise specified |

## Advanced Technology Laboratories

# ANALYTICAL RESULTS

**Print Date:** *13-Jul-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 093006
**Project:** Holland Oil, 401314001
**Lab ID:** 093006-012

**Client Sample ID:** B-1-5-6.5
**Collection Date:** 7/2/2007 2:55:00 PM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate: | 7/9/2007 | Analyst: **CBR** |
| DRO | 11000 | 200 | | mg/Kg | 100 | 7/11/2007 02:27 PM |
| Surr: p-Terphenyl | 0 | 27-110 | SDO | %REC | 100 | 7/11/2007 02:27 PM |
| **KEROSENE BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate: | 7/9/2007 | Analyst: **CBR** |
| Kerosene | 5900 | 200 | | mg/Kg | 100 | 7/11/2007 02:27 PM |
| Surr: p-Terphenyl | 0 | 27-110 | SDO | %REC | 100 | 7/11/2007 02:27 PM |
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| | | | | **EPA 8015B(M)** | | |
| RunID: GC1_070706A | QC Batch: D07VS082 | | | PrepDate: | | Analyst: **AAH** |
| GRO | 67 | 5.0 | | mg/Kg | 5 | 7/6/2007 12:05 PM |
| Surr: Bromofluorobenzene (FID) | 19.2 | 42-149 | S | %REC | 5 | 7/6/2007 12:05 PM |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- E Value above quantitation range
- ND Not Detected at the Reporting Limit

Results are wet unless otherwise specified

## Advanced Technology Laboratories

# ANALYTICAL RESULTS

**Print Date:** *13-Jul-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 093006
**Project:** Holland Oil, 401314001
**Lab ID:** 093006-013

**Client Sample ID:** MW-6-5-2.0
**Collection Date:** 7/2/2007 3:55:00 PM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate: | 7/9/2007 | Analyst: **CBR** |
| DRO | 1200 | 40 | | mg/Kg | 20 | 7/11/2007 01:34 PM |
| Surr: p-Terphenyl | 0 | 27-110 | SDO | %REC | 20 | 7/11/2007 01:34 PM |
| **KEROSENE BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate: | 7/9/2007 | Analyst: **CBR** |
| Kerosene | 760 | 40 | | mg/Kg | 20 | 7/11/2007 01:34 PM |
| Surr: p-Terphenyl | 0 | 27-110 | SDO | %REC | 20 | 7/11/2007 01:34 PM |
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| | | | | **EPA 8015B(M)** | | |
| RunID: GC1_070705A | QC Batch: D07VS080 | | | PrepDate: | | Analyst: **AAH** |
| GRO | 1.7 | 1.0 | | mg/Kg | 1 | 7/5/2007 05:49 PM |
| Surr: Bromofluorobenzene (FID) | 112 | 42-149 | | %REC | 1 | 7/5/2007 05:49 PM |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- E Value above quantitation range
- ND Not Detected at the Reporting Limit

Results are wet unless otherwise specified

*Advanced Technology Laboratories*
*3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040*

**CLIENT:** Ninyo & Moore
**Lab Order:** 093006
**Project:** Holland Oil, 401314001
**Lab ID:** 093006-014

**Client Sample ID:** MW-6-5-5.0
**Collection Date:** 7/2/2007 4:05:00 PM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate: | 7/9/2007 | Analyst: **CBR** |
| DRO | 1500 | 40 | | mg/Kg | 20 | 7/11/2007 02:00 PM |
| Surr: p-Terphenyl | 0 | 27-110 | SDO | %REC | 20 | 7/11/2007 02:00 PM |
| **KEROSENE BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate: | 7/9/2007 | Analyst: **CBR** |
| Kerosene | 850 | 40 | | mg/Kg | 20 | 7/11/2007 02:00 PM |
| Surr: p-Terphenyl | 0 | 27-110 | SDO | %REC | 20 | 7/11/2007 02:00 PM |
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| | | | | **EPA 8015B(M)** | | |
| RunID: GC1_070706A | QC Batch: D07VS082 | | | PrepDate: | | Analyst: **AAH** |
| GRO | 34 | 5.0 | | mg/Kg | 5 | 7/6/2007 12:33 PM |
| Surr: Bromofluorobenzene (FID) | 57.6 | 42-149 | | %REC | 5 | 7/6/2007 12:33 PM |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- E Value above quantitation range
- ND Not Detected at the Reporting Limit

Results are wet unless otherwise specified

## Advanced Technology Laboratories

# ANALYTICAL RESULTS

**Print Date:** *13-Jul-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 093006
**Project:** Holland Oil, 401314001
**Lab ID:** 093006-015

**Client Sample ID:** MW-6-5-6.5
**Collection Date:** 7/2/2007 4:10:00 PM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate: | 7/9/2007 | Analyst: **CBR** |
| DRO | 2000 | 50 | | mg/Kg | 50 | 7/11/2007 02:53 PM |
| Surr: p-Terphenyl | 0 | 27-110 | SDO | %REC | 50 | 7/11/2007 02:53 PM |
| **KEROSENE BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate: | 7/9/2007 | Analyst: **CBR** |
| Kerosene | 1300 | 50 | | mg/Kg | 50 | 7/11/2007 02:53 PM |
| Surr: p-Terphenyl | 0 | 27-110 | SDO | %REC | 50 | 7/11/2007 02:53 PM |
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| | | | | **EPA 8015B(M)** | | |
| RunID: GC2_070703A | QC Batch: E07VS217 | | | PrepDate: | | Analyst: **AAH** |
| GRO | 54 | 1.0 | | mg/Kg | 1 | 7/4/2007 03:45 AM |
| Surr: Bromofluorobenzene (FID) | 52.3 | 42-149 | | %REC | 1 | 7/4/2007 03:45 AM |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- E Value above quantitation range
- ND Not Detected at the Reporting Limit

Results are wet unless otherwise specified

**CLIENT:** Ninyo & Moore
**Work Order:** 093006
**Project:** Holland Oil, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015_S_DSL LL**

| Sample ID: **MB-37789** | SampType: **MBLK** | TestCode: **8015_S_DSL** | Units: **mg/Kg** | Prep Date: **7/9/2007** | RunNo: **82214** |
|---|---|---|---|---|---|
| Client ID: **PBS** | Batch ID: **37789** | TestNo: **EPA 8015B(M** | **EPA 3550B** | Analysis Date: **7/10/2007** | SeqNo: **1250282** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO | ND | 1.0 | | | | | | | | | |
| Surr: p-Terphenyl | 2.391 | | 2.670 | | 89.6 | 27 | 110 | | | | |

| Sample ID: **LCS-37789** | SampType: **LCS** | TestCode: **8015_S_DSL** | Units: **mg/Kg** | Prep Date: **7/9/2007** | RunNo: **82214** |
|---|---|---|---|---|---|
| Client ID: **LCSS** | Batch ID: **37789** | TestNo: **EPA 8015B(M** | **EPA 3550B** | Analysis Date: **7/10/2007** | SeqNo: **1250283** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO | 17.131 | 1.0 | 33.00 | 0 | 51.9 | 28 | 126 | | | | |
| Surr: p-Terphenyl | 1.644 | | 2.670 | | 61.6 | 27 | 110 | | | | |

| Sample ID: **093006-009AMS** | SampType: **MS** | TestCode: **8015_S_DSL** | Units: **mg/Kg** | Prep Date: **7/9/2007** | RunNo: **82214** |
|---|---|---|---|---|---|
| Client ID: **B-2-5-6.5** | Batch ID: **37789** | TestNo: **EPA 8015B(M** | **EPA 3550B** | Analysis Date: **7/10/2007** | SeqNo: **1250284** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO | 17.605 | 1.0 | 33.00 | 1.178 | 50.4 | 12 | 113 | | | | |
| Surr: p-Terphenyl | 1.869 | | 2.670 | | 70.0 | 27 | 110 | | | | |

| Sample ID: **093006-009AMSD** | SampType: **MSD** | TestCode: **8015_S_DSL** | Units: **mg/Kg** | Prep Date: **7/9/2007** | RunNo: **82214** |
|---|---|---|---|---|---|
| Client ID: **B-2-5-6.5** | Batch ID: **37789** | TestNo: **EPA 8015B(M** | **EPA 3550B** | Analysis Date: **7/10/2007** | SeqNo: **1250285** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO | 19.827 | 1.0 | 33.00 | 1.178 | 56.5 | 12 | 113 | 17.80 | 10.7 | 30 | |
| Surr: p-Terphenyl | 1.954 | | 2.670 | | 73.2 | 27 | 110 | | 0 | 0 | |

**Qualifiers:**

| | | | | | |
|---|---|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | | Calculations are based on raw values | | |

**CLIENT:** Ninyo & Moore
**Work Order:** 093006
**Project:** Holland Oil, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015_S_GAS**

| Sample ID: D070507MB1 | SampType: MBLK | TestCode: 8015_S_GAS | Units: mg/Kg | Prep Date: | RunNo: 81977 |
|---|---|---|---|---|---|
| Client ID: PBS | Batch ID: D07VS080 | TestNo: EPA 8015B(M | | Analysis Date: 7/5/2007 | SeqNo: 1246445 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GRO | ND | 1.0 | | | | | | | | | |
| Surr: Bromofluorobenzene (FID) | 101.012 | | 100.0 | | 101 | 42 | 149 | | | | |

| Sample ID: 093020-001AMS | SampType: MS | TestCode: 8015_S_GAS | Units: mg/Kg | Prep Date: | RunNo: 81977 |
|---|---|---|---|---|---|
| Client ID: ZZZZZZ | Batch ID: D07VS080 | TestNo: EPA 8015B(M | | Analysis Date: 7/5/2007 | SeqNo: 1246447 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GRO | 2.034 | 1.0 | 5.000 | 0 | 40.7 | 22 | 139 | | | | |
| Surr: Bromofluorobenzene (FID) | 90.428 | | 100.0 | | 90.4 | 42 | 149 | | | | |

| Sample ID: 093020-001AMSD | SampType: MSD | TestCode: 8015_S_GAS | Units: mg/Kg | Prep Date: | RunNo: 81977 |
|---|---|---|---|---|---|
| Client ID: ZZZZZZ | Batch ID: D07VS080 | TestNo: EPA 8015B(M | | Analysis Date: 7/5/2007 | SeqNo: 1246448 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GRO | 2.228 | 1.0 | 5.000 | 0 | 44.6 | 22 | 139 | 2.034 | 9.10 | 30 | |
| Surr: Bromofluorobenzene (FID) | 97.155 | | 100.0 | | 97.2 | 42 | 149 | | 0 | 30 | |

| Sample ID: D070507LCS1 | SampType: LCS | TestCode: 8015_S_GAS | Units: mg/Kg | Prep Date: | RunNo: 81977 |
|---|---|---|---|---|---|
| Client ID: LCSS | Batch ID: D07VS080 | TestNo: EPA 8015B(M | | Analysis Date: 7/5/2007 | SeqNo: 1246449 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GRO | 4.362 | 1.0 | 5.000 | 0 | 87.2 | 74 | 112 | | | | |
| Surr: Bromofluorobenzene (FID) | 121.367 | | 100.0 | | 121 | 42 | 149 | | | | |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Ninyo & Moore
**Work Order:** 093006
**Project:** Holland Oil, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015_S_GAS**

| Sample ID: D070607MB1 | SampType: MBLK | TestCode: 8015_S_GAS | Units: mg/Kg | Prep Date: | RunNo: 82059 |
|---|---|---|---|---|---|
| Client ID: PBS | Batch ID: D07VS082 | TestNo: EPA 8015B(M | | Analysis Date: 7/6/2007 | SeqNo: 1247832 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GRO | ND | 1.0 | | | | | | | | | |
| Surr: Bromofluorobenzene (FID) | 70.131 | | 100.0 | | 70.1 | 42 | 149 | | | | |

| Sample ID: 093046-001AMS | SampType: MS | TestCode: 8015_S_GAS | Units: mg/Kg | Prep Date: | RunNo: 82059 |
|---|---|---|---|---|---|
| Client ID: ZZZZZZ | Batch ID: D07VS082 | TestNo: EPA 8015B(M | | Analysis Date: 7/6/2007 | SeqNo: 1247834 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GRO | 3.408 | 1.0 | 5.000 | 0 | 68.2 | 22 | 139 | | | | |
| Surr: Bromofluorobenzene (FID) | 54.699 | | 100.0 | | 54.7 | 42 | 149 | | | | |

| Sample ID: 093046-001AMSD | SampType: MSD | TestCode: 8015_S_GAS | Units: mg/Kg | Prep Date: | RunNo: 82059 |
|---|---|---|---|---|---|
| Client ID: ZZZZZZ | Batch ID: D07VS082 | TestNo: EPA 8015B(M | | Analysis Date: 7/6/2007 | SeqNo: 1247835 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GRO | 3.436 | 1.0 | 5.000 | 0 | 68.7 | 22 | 139 | 3.408 | 0.818 | 30 | |
| Surr: Bromofluorobenzene (FID) | 53.989 | | 100.0 | | 54.0 | 42 | 149 | | 0 | 30 | |

| Sample ID: D070607LCS1 | SampType: LCS | TestCode: 8015_S_GAS | Units: mg/Kg | Prep Date: | RunNo: 82059 |
|---|---|---|---|---|---|
| Client ID: LCSS | Batch ID: D07VS082 | TestNo: EPA 8015B(M | | Analysis Date: 7/6/2007 | SeqNo: 1247839 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GRO | 4.462 | 1.0 | 5.000 | 0 | 89.2 | 74 | 112 | | | | |
| Surr: Bromofluorobenzene (FID) | 100.185 | | 100.0 | | 100 | 42 | 149 | | | | |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
  Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Ninyo & Moore
**Work Order:** 093006
**Project:** Holland Oil, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015_S_GAS**

| Sample ID: E070307MB3 | SampType: MBLK | TestCode: 8015_S_GAS | Units: mg/Kg | Prep Date: | RunNo: 81907 |
|---|---|---|---|---|---|
| Client ID: PBS | Batch ID: E07VS217 | TestNo: EPA 8015B(M | | Analysis Date: 7/3/2007 | SeqNo: 1245379 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GRO | ND | 1.0 | | | | | | | | | |
| Surr: Bromofluorobenzene (FID) | 100.253 | | 100.0 | | 100 | 42 | 149 | | | | |

| Sample ID: 093006-001AMS | SampType: MS | TestCode: 8015_S_GAS | Units: mg/Kg | Prep Date: | RunNo: 81907 |
|---|---|---|---|---|---|
| Client ID: MW-7-5-2.0 | Batch ID: E07VS217 | TestNo: EPA 8015B(M | | Analysis Date: 7/3/2007 | SeqNo: 1245381 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GRO | 2.338 | 1.0 | 5.000 | 0.7410 | 31.9 | 22 | 139 | | | | |
| Surr: Bromofluorobenzene (FID) | 98.153 | | 100.0 | | 98.2 | 42 | 149 | | | | |

| Sample ID: 093006-001AMSD | SampType: MSD | TestCode: 8015_S_GAS | Units: mg/Kg | Prep Date: | RunNo: 81907 |
|---|---|---|---|---|---|
| Client ID: MW-7-5-2.0 | Batch ID: E07VS217 | TestNo: EPA 8015B(M | | Analysis Date: 7/3/2007 | SeqNo: 1245382 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GRO | 2.236 | 1.0 | 5.000 | 0.7410 | 29.9 | 22 | 139 | 2.338 | 4.46 | 30 | |
| Surr: Bromofluorobenzene (FID) | 101.039 | | 100.0 | | 101 | 42 | 149 | | 0 | 30 | |

| Sample ID: E070307LCS4 | SampType: LCS | TestCode: 8015_S_GAS | Units: mg/Kg | Prep Date: | RunNo: 81907 |
|---|---|---|---|---|---|
| Client ID: LCSS | Batch ID: E07VS217 | TestNo: EPA 8015B(M | | Analysis Date: 7/4/2007 | SeqNo: 1245388 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GRO | 4.433 | 1.0 | 5.000 | 0 | 88.7 | 74 | 112 | | | | |
| Surr: Bromofluorobenzene (FID) | 94.410 | | 100.0 | | 94.4 | 42 | 149 | | | | |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Ninyo & Moore
**Work Order:** 093006
**Project:** Holland Oil, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015_S_KER LL**

| Sample ID: **MB-37789** | SampType: **MBLK** | TestCode: **8015_S_KER** | Units: **mg/Kg** | Prep Date: **7/9/2007** | RunNo: **82214** |
|---|---|---|---|---|---|
| Client ID: **PBS** | Batch ID: **37789** | TestNo: **EPA 8015B(M EPA 3550B** | | Analysis Date: **7/10/2007** | SeqNo: **1250304** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Kerosene | ND | 1.0 | | | | | | | | | |
| Surr: p-Terphenyl | 2.625 | | 2.670 | | 98.3 | 27 | 110 | | | | |

**Qualifiers:**

| | | | | | |
|---|---|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | | Calculations are based on raw values | | |

*Advanced Technology Laboratories* *3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040*

# CHAIN OF CUSTODY RECORD

Pg 1 of 2

**Advanced Technology Laboratories**
3275 Walnut Avenue
Signal Hill, CA 90755
(562) 989-4045 • Fax (562) 989-4040

**FOR LABORATORY USE ONLY:**

P.O.#: _____
Logged By: JFT Date: 7/3/07

Method of Transport: Client ☐ ATL ☐ CA OverN ☑ FEDEX ☐ Other: _____

Sample Condition Upon Receipt
1. CHILLED 6.0 Y☑ N☐ 4. SEALED Y☐ N☐
2. HEADSPACE (VOA) Y☐ N☐ 5. # OF SPLS MATCH COC Y☐ N☐
3. CONTAINER INTACT Y☐ N☐ 6. PRESERVED Y☐ N☐

Client: Ninyo & Moore
Attn: Cem Atalek
Address: 1956 Webster St
City Oakland State CA Zip Code 94612
TEL: (510) 633-5640
FAX: (510) 633-5640

Project Name: Holland Oil
Project #: 401314001
Sampler: (Printed Name) Cem Atalek (Signature)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Relinquished by: (Signature and Printed Name) Cem Atalek | Date: 7/2/07 | Time: 5:00 | Received by: (Signature and Printed Name) Jeff Stanfield | Date: 7/2/07 | Time: 5:05 |
| Relinquished by: (Signature and Printed Name) Jeff Stanfield | Date: 7/2/07 | Time: 5:50p | Received by: (Signature and Printed Name) California Werenski | Date: 7/2/07 | Time: 5:50p |
| Relinquished by: (Signature and Printed Name) | Date: | Time: | Received by: (Signature and Printed Name) C. Atalek | Date: 7/3/07 | Time: 8:40 |

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Cem Atalek 7/2/07 (Print Name / Date)
Signature

Send Report To:
Attn: Cem Atalek
Co: Ninyo & Moore
Address See above
City _____ State _____ Zip _____

Bill To:
Attn: Same
Co: _____
Address _____
City _____ State _____ Zip _____

Special Instructions/Comments:

**Sample/Records - Archival & Disposal**
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

**Storage Fees (applies when storage is requested):**
- Sample : $2.00 / sample / mo (after 45 days)
- Records : $1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested: 8081A (Pesticides) | 8082 (PCB) | 8260B (Volatiles) | 8270C (BNA) | 6010B (Total Metals) | 8015B (GRO) / 8020 (BTEX) | 8015B (DRO) + GRO + Kerosene | 8021 (BTEX) | TITLE 22 / CAM 17 (6010 / 7000)

SPECIFY APPROPRIATE MATRIX: SOIL | WATER | GROUND WATER | WASTEWATER

PRESERVATION

Q A / Q C: RTNE ☐ CT ☐ SWRCB ☐ Logcode ____ OTHER ____

| ITEM | LAB USE ONLY: Batch #: / Lab No. | Sample Description: Sample I.D. / Location | Date | Time | TAT | Container(s) # | Container(s) Type | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | 093006-001 | MW-7-5-2.0 | 7/3/07 | 8:30 | E | | | |
| | -002 | MW-7-5-5.0 | | 8:50 | | | | |
| | -003 | MW-7-5-7.5 | | 9:10 | | | | |
| | -004 | B-3-5-2.0 | | 11:00 | | | | |
| | -005 | B-3-5-5.0 | | 11:20 | | | | |
| | -006 | B-3-5-6.5 | | 11:30 | | | | |
| | -007 | B-2-5-2.0 | | 1:25 | | | | |
| | -008 | B-2-5-5.0 | | 1:40 | | | | |
| | -009 | B-2-5-6.5 | | 1:55 | | | | |
| | -010 | B-1-5-2.0 | | 2:40 | | | | |

• TAT starts 8 a.m. following day if samples received after 3 p.m.

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

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

Preservatives: H=HCl N=$HNO_3$ S=$H_2SO_4$ C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: **White** with report, **Yellow** to folder, **Pink** to submitter.

# CHAIN OF CUSTODY RECORD



Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
(562) 989-4045 • Fax (562) 989-4040

**FOR LABORATORY USE ONLY:**

P.O.#: _____

Logged By: SKT Date: 7/3/07

Method of Transport: Client ☐ ATL ☐ CA OverN ☐ FEDEX ☐ Other: _____

Sample Condition Upon Receipt

| | | | |
|---|---|---|---|
| 1. CHILLED | Y☐ N☐ | 4. SEALED | Y☐ N☐ |
| 2. HEADSPACE (VOA) | Y☐ N☐ | 5. # OF SPLS MATCH COC | Y☐ N☐ |
| 3. CONTAINER INTACT | Y☐ N☐ | 6. PRESERVED | Y☐ N☐ |

Client: _____ Address: _____ TEL: ( )

Attn: _____ City _____ State _____ Zip Code _____ FAX: ( )

Project Name: _____ Project #: _____ Sampler: (Printed Name) _____ (Signature)

Relinquished by: (Signature and Printed Name) Cem Arabek Date: 7/2/07 Time: 5:00 Received by: (Signature and Printed Name) Jeff Stemmler Date: 7/2/07 Time: 5:05p

Relinquished by: (Signature and Printed Name) Jeff Stemmler Date: 7/2/07 Time: 5:50p Received by: (Signature and Printed Name) California Overnight Date: 7/2/07 Time: 5:50p

Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____ Received by: (Signature and Printed Name) _____ Date: _____ Time: _____

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter:
Print Name _____ Date _____
Signature _____

Send Report To:
Attn: _____
Co: _____
Address _____
City _____ State _____ Zip _____

Bill To:
Attn: _____
Co: _____
Address _____
City _____ State _____ Zip _____

Special Instructions/Comments:

**Sample/Records - Archival & Disposal**
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

**Storage Fees (applies when storage is requested):**
- Sample : $2.00 / sample / mo (after 45 days)
- Records : $1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested: 8081A (Pesticides) | 8082 (PCB) | 8260B (Volatiles) | 8270C (BNA) | 5010B (Total Metal) | 8015B (GRO) / 8020 (BTEX) | 8015B (DRO) +GKR Kerosene | 8021 (BTEX) | TITLE 22 / CAM 17 (6010 / 7000)

SPECIFY APPROPRIATE MATRIX: SOIL | WATER | GROUND WATER | WASTEWATER

PRESERVATION

Q A / Q C: RTNE ☐ CT ☐ SWRCB ☐ Logcode ____ OTHER ____

| ITEM | LAB USE ONLY: Batch #: / Lab No. | Sample Description: Sample I.D. / Location | Date | Time | TAT | Container(s) # | Container(s) Type | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | 0713004 -011 | B-1-S-5.0 | 7/3/07 | 2:50 | E | | | |
| | -012 | B-1-S-6.5 | 7/3/07 | 2:55 | | | | |
| | -013 | MW-6-S-2.0 | | 3:55 | | | | |
| | -014 | MW-6-S-5.0 | | 4:05 | | | | |
| | -015 | MW-6-S-6.5 | | 4:10 | | | | |

- TAT starts 8 a.m. following day if samples received after 3 p.m.

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

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

Preservatives: H=HCl N=$HNO_3$ S=$H_2SO_4$ C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.

## Rachelle Arada

**From:** Cem Atabek [catabek@ninyoandmoore.com]

**Sent:** Thursday, July 05, 2007 9:50 AM

**To:** Rachelle Arada

**Subject:** samples from Ninyo & Moore

Hey Rachelle, sorry I couldn't send you an e-mail until today. This message is to confirm my request to hold samples B-3-S-5.0 and B-3-S-6.5 for Holland, project # 401314001. Also, I was wondering when I could get the electronic data for the results from Dutro. Thanks

-Cem

**Cem R. Atabek**

**Staff Environmental Engineer**

**Ninyo & Moore**

**Geotechnical & Environmental Sciences Consultants**
**1956 Webster Street, Suite 400**
**Oakland, CA 94612**
**(510) 633-5640 x5202**
**(510) 772-7418 (Cell)**

**catabek@ninyoandmoore.com**

July 13, 2007

Cem Atabek
Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612
TEL: (510) 633-5640
FAX: (510) 633-5646

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
Arizona: AZ0689
CSDLAC No.: 10196
Workorder No.: 093046

RE: Holland, 401314001

Attention: Cem Atabek

Enclosed are the results for sample(s) received on July 05, 2007 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

**CLIENT:** Ninyo & Moore
**Project:** Holland, 401314001
**Lab Order:** 093046

# CASE NARRATIVE

Analytical Comments for EPA 8015 (Kerosene)

Samples 093046-001A, 093046-002A, 093046-003A, 093046-004A, 093046-005A, 093046-006A, 093046-007A, 093046-009A, 093046-011A, 093046-012A: Sample contains hydrocarbons within the kerosene range that do not match the kerosene pattern. Quantitation was based on kerosene standard.



*Advanced Technology Laboratories*
*3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040*

## Advanced Technology Laboratories

# ANALYTICAL RESULTS

**Print Date:** *13-Jul-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 093046
**Project:** Holland, 401314001
**Lab ID:** 093046-001

**Client Sample ID:** B-4-5-2.0
**Collection Date:** 7/3/2007 8:40:00 AM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate | 7/9/2007 | Analyst: **CBR** |
| DRO | 8.4 | 1.0 | | mg/Kg | 1 | 7/11/2007 12:28 AM |
| Surr: p-Terphenyl | 66.4 | 27-110 | | %REC | 1 | 7/11/2007 12:28 AM |
| **KEROSENE BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate | 7/9/2007 | Analyst: **CBR** |
| Kerosene | 1.9 | 1.0 | | mg/Kg | 1 | 7/11/2007 12:28 AM |
| Surr: p-Terphenyl | 71.5 | 27-110 | | %REC | 1 | 7/11/2007 12:28 AM |
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| | | | | **EPA 8015B(M)** | | |
| RunID: GC1_070706A | QC Batch: D07VS082 | | | PrepDate | | Analyst: **AAH** |
| GRO | ND | 1.0 | | mg/Kg | 1 | 7/6/2007 10:40 AM |
| Surr: Bromofluorobenzene (FID) | 61.7 | 42-149 | | %REC | 1 | 7/6/2007 10:40 AM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

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## Advanced Technology Laboratories

# ANALYTICAL RESULTS

**Print Date:** *13-Jul-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 093046
**Project:** Holland, 401314001
**Lab ID:** 093046-002

**Client Sample ID:** B-4-5-5.0
**Collection Date:** 7/3/2007 8:50:00 AM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate | 7/9/2007 | Analyst: **CBR** |
| DRO | 2.0 | 1.0 | | mg/Kg | 1 | 7/10/2007 11:36 PM |
| Surr: p-Terphenyl | 71.7 | 27-110 | | %REC | 1 | 7/10/2007 11:36 PM |
| **KEROSENE BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate | 7/9/2007 | Analyst: **CBR** |
| Kerosene | 1.2 | 1.0 | | mg/Kg | 1 | 7/10/2007 11:36 PM |
| Surr: p-Terphenyl | 77.6 | 27-110 | | %REC | 1 | 7/10/2007 11:36 PM |
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| | | | | **EPA 8015B(M)** | | |
| RunID: GC1_070706A | QC Batch: D07VS082 | | | PrepDate | | Analyst: **AAH** |
| GRO | ND | 1.0 | | mg/Kg | 1 | 7/6/2007 01:02 PM |
| Surr: Bromofluorobenzene (FID) | 64.1 | 42-149 | | %REC | 1 | 7/6/2007 01:02 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

## Advanced Technology Laboratories

# ANALYTICAL RESULTS

**Print Date:** *13-Jul-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 093046
**Project:** Holland, 401314001
**Lab ID:** 093046-003

**Client Sample ID:** B-4-5-8.0
**Collection Date:** 7/3/2007 9:30:00 AM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate | 7/9/2007 | Analyst: **CBR** |
| DRO | 5100 | 100 | | mg/Kg | 50 | 7/11/2007 01:08 PM |
| Surr: p-Terphenyl | 0 | 27-110 | SDO | %REC | 50 | 7/11/2007 01:08 PM |
| **KEROSENE BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate | 7/9/2007 | Analyst: **CBR** |
| Kerosene | 5600 | 100 | | mg/Kg | 50 | 7/11/2007 01:08 PM |
| Surr: p-Terphenyl | 0 | 27-110 | SDO | %REC | 50 | 7/11/2007 01:08 PM |
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| | | | | **EPA 8015B(M)** | | |
| RunID: GC1_070709A | QC Batch: D07VS083 | | | PrepDate | | Analyst: **AAH** |
| GRO | 410 | 50 | | mg/Kg | 50 | 7/9/2007 01:01 PM |
| Surr: Bromofluorobenzene (FID) | 107 | 42-149 | | %REC | 50 | 7/9/2007 01:01 PM |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- E Value above quantitation range
- ND Not Detected at the Reporting Limit

Results are wet unless otherwise specified

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## Advanced Technology Laboratories

# ANALYTICAL RESULTS

**Print Date:** *13-Jul-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 093046
**Project:** Holland, 401314001
**Lab ID:** 093046-004

**Client Sample ID:** MW-8-5-2.0
**Collection Date:** 7/3/2007 10:45:00 AM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate | 7/9/2007 | Analyst: **CBR** |
| DRO | 110 | 1.0 | | mg/Kg | 1 | 7/10/2007 11:10 PM |
| Surr: p-Terphenyl | 69.1 | 27-110 | | %REC | 1 | 7/10/2007 11:10 PM |
| **KEROSENE BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate | 7/9/2007 | Analyst: **CBR** |
| Kerosene | 140 | 1.0 | | mg/Kg | 1 | 7/10/2007 11:10 PM |
| Surr: p-Terphenyl | 76.3 | 27-110 | | %REC | 1 | 7/10/2007 11:10 PM |
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| | | | | **EPA 8015B(M)** | | |
| RunID: GC1_070709A | QC Batch: D07VS083 | | | PrepDate | | Analyst: **AAH** |
| GRO | 5700 | 500 | | mg/Kg | 500 | 7/9/2007 01:29 PM |
| Surr: Bromofluorobenzene (FID) | 121 | 42-149 | | %REC | 500 | 7/9/2007 01:29 PM |

**Qualifiers:**

| | |
|---|---|
| B | Analyte detected in the associated Method Blank |
| H | Holding times for preparation or analysis exceeded |
| S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out |
| E | Value above quantitation range |
| ND | Not Detected at the Reporting Limit |
| | Results are wet unless otherwise specified |

## Advanced Technology Laboratories

# ANALYTICAL RESULTS

**Print Date:** *13-Jul-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 093046
**Project:** Holland, 401314001
**Lab ID:** 093046-005

**Client Sample ID:** MW-8-5-5.0
**Collection Date:** 7/3/2007 10:55:00 AM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate | 7/9/2007 | Analyst: **CBR** |
| DRO | 14000 | 100 | | mg/Kg | 100 | 7/11/2007 03:46 PM |
| Surr: p-Terphenyl | 0 | 27-110 | SDO | %REC | 100 | 7/11/2007 03:46 PM |
| **KEROSENE BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate | 7/9/2007 | Analyst: **CBR** |
| Kerosene | 16000 | 100 | | mg/Kg | 100 | 7/11/2007 03:46 PM |
| Surr: p-Terphenyl | 0 | 27-110 | SDO | %REC | 100 | 7/11/2007 03:46 PM |
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| | | | | **EPA 8015B(M)** | | |
| RunID: GC1_070709A | QC Batch: D07VS083 | | | PrepDate | | Analyst: **AAH** |
| GRO | 5200 | 500 | | mg/Kg | 500 | 7/9/2007 01:57 PM |
| Surr: Bromofluorobenzene (FID) | 105 | 42-149 | | %REC | 500 | 7/9/2007 01:57 PM |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- E Value above quantitation range
- ND Not Detected at the Reporting Limit

Results are wet unless otherwise specified

## Advanced Technology Laboratories

# ANALYTICAL RESULTS

**Print Date:** *13-Jul-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 093046
**Project:** Holland, 401314001
**Lab ID:** 093046-006

**Client Sample ID:** MW-8-5-6.5
**Collection Date:** 7/3/2007 11:05:00 AM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC/FID** | | | | | | |
| **EPA 3550B** | | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate | 7/9/2007 | Analyst: **CBR** |
| DRO | 1700 | 100 | | mg/Kg | 100 | 7/11/2007 03:19 PM |
| Surr: p-Terphenyl | 0 | 27-110 | SDO | %REC | 100 | 7/11/2007 03:19 PM |
| **KEROSENE BY GC/FID** | | | | | | |
| **EPA 3550B** | | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate | 7/9/2007 | Analyst: **CBR** |
| Kerosene | 1600 | 100 | | mg/Kg | 100 | 7/11/2007 03:19 PM |
| Surr: p-Terphenyl | 0 | 27-110 | SDO | %REC | 100 | 7/11/2007 03:19 PM |
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| | | | | **EPA 8015B(M)** | | |
| RunID: GC1_070709A | QC Batch: D07VS083 | | | PrepDate | | Analyst: **AAH** |
| GRO | 3800 | 500 | | mg/Kg | 500 | 7/9/2007 02:25 PM |
| Surr: Bromofluorobenzene (FID) | 102 | 42-149 | | %REC | 500 | 7/9/2007 02:25 PM |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- E Value above quantitation range
- ND Not Detected at the Reporting Limit

Results are wet unless otherwise specified

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## Advanced Technology Laboratories

# ANALYTICAL RESULTS

**Print Date:** *13-Jul-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 093046
**Project:** Holland, 401314001
**Lab ID:** 093046-007

**Client Sample ID:** B-5-5-2.0
**Collection Date:** 7/3/2007 2:25:00 PM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate | 7/9/2007 | Analyst: **CBR** |
| DRO | 1.5 | 1.0 | | mg/Kg | 1 | 7/11/2007 11:25 AM |
| Surr: p-Terphenyl | 67.2 | 27-110 | | %REC | 1 | 7/11/2007 11:25 AM |
| **KEROSENE BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070710A | QC Batch: 37789 | | | PrepDate | 7/9/2007 | Analyst: **CBR** |
| Kerosene | ND | 1.0 | | mg/Kg | 1 | 7/11/2007 11:25 AM |
| Surr: p-Terphenyl | 74.8 | 27-110 | | %REC | 1 | 7/11/2007 11:25 AM |
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| | | | | **EPA 8015B(M)** | | |
| RunID: GC1_070706A | QC Batch: D07VS082 | | | PrepDate | | Analyst: **AAH** |
| GRO | ND | 1.0 | | mg/Kg | 1 | 7/6/2007 06:18 PM |
| Surr: Bromofluorobenzene (FID) | 36.5 | 42-149 | S | %REC | 1 | 7/6/2007 06:18 PM |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- E Value above quantitation range
- ND Not Detected at the Reporting Limit

Results are wet unless otherwise specified

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## Advanced Technology Laboratories

# ANALYTICAL RESULTS

**Print Date:** *13-Jul-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 093046
**Project:** Holland, 401314001
**Lab ID:** 093046-009

**Client Sample ID:** B-7-5-2.0
**Collection Date:** 7/3/2007 2:40:00 PM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070711A | QC Batch: 37755 | | | PrepDate | 7/9/2007 | Analyst: **CBR** |
| DRO | 1900 | 40 | | mg/Kg | 20 | 7/11/2007 12:42 PM |
| Surr: p-Terphenyl | 0 | 27-110 | SDO | %REC | 20 | 7/11/2007 12:42 PM |
| **KEROSENE BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070711A | QC Batch: 37755 | | | PrepDate | 7/9/2007 | Analyst: **CBR** |
| Kerosene | 380 | 40 | | mg/Kg | 20 | 7/11/2007 12:42 PM |
| Surr: p-Terphenyl | 0 | 27-110 | SDO | %REC | 20 | 7/11/2007 12:42 PM |
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| | | | | **EPA 8015B(M)** | | |
| RunID: GC1_070706A | QC Batch: D07VS082 | | | PrepDate | | Analyst: **AAH** |
| GRO | 13 | 1.0 | | mg/Kg | 1 | 7/6/2007 03:56 PM |
| Surr: Bromofluorobenzene (FID) | 91.6 | 42-149 | | %REC | 1 | 7/6/2007 03:56 PM |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- E Value above quantitation range
- ND Not Detected at the Reporting Limit

Results are wet unless otherwise specified

## Advanced Technology Laboratories

# ANALYTICAL RESULTS

**Print Date:** *13-Jul-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 093046
**Project:** Holland, 401314001
**Lab ID:** 093046-011

**Client Sample ID:** B-8-5-2.0
**Collection Date:** 7/3/2007 4:00:00 PM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070711A | QC Batch: 37755 | | | PrepDate | 7/9/2007 | Analyst: **CBR** |
| DRO | 2.1 | 1.0 | | mg/Kg | 1 | 7/11/2007 01:44 AM |
| Surr: p-Terphenyl | 61.6 | 27-110 | | %REC | 1 | 7/11/2007 01:44 AM |
| **KEROSENE BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070711A | QC Batch: 37755 | | | PrepDate | 7/9/2007 | Analyst: **CBR** |
| Kerosene | 1.2 | 1.0 | | mg/Kg | 1 | 7/11/2007 01:44 AM |
| Surr: p-Terphenyl | 68.1 | 27-110 | | %REC | 1 | 7/11/2007 01:44 AM |
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| | | | | **EPA 8015B(M)** | | |
| RunID: GC1_070706A | QC Batch: D07VS082 | | | PrepDate | | Analyst: **AAH** |
| GRO | ND | 1.0 | | mg/Kg | 1 | 7/6/2007 02:29 PM |
| Surr: Bromofluorobenzene (FID) | 73.9 | 42-149 | | %REC | 1 | 7/6/2007 02:29 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

## Advanced Technology Laboratories

# ANALYTICAL RESULTS

**Print Date:** *13-Jul-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 093046
**Project:** Holland, 401314001
**Lab ID:** 093046-012

**Client Sample ID:** B-8-5-8.0
**Collection Date:** 7/3/2007 4:15:00 PM
**Matrix:** SOIL

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070711A | QC Batch: 37755 | | | PrepDate | 7/9/2007 | Analyst: **CBR** |
| DRO | 23 | 1.0 | | mg/Kg | 1 | 7/11/2007 01:18 AM |
| Surr: p-Terphenyl | 72.7 | 27-110 | | %REC | 1 | 7/11/2007 01:18 AM |
| **KEROSENE BY GC/FID** | | | | | | |
| | **EPA 3550B** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070711A | QC Batch: 37755 | | | PrepDate | 7/9/2007 | Analyst: **CBR** |
| Kerosene | 14 | 1.0 | | mg/Kg | 1 | 7/11/2007 01:18 AM |
| Surr: p-Terphenyl | 79.7 | 27-110 | | %REC | 1 | 7/11/2007 01:18 AM |
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| | | | | **EPA 8015B(M)** | | |
| RunID: GC1_070706A | QC Batch: D07VS082 | | | PrepDate | | Analyst: **AAH** |
| GRO | 14 | 1.0 | | mg/Kg | 1 | 7/6/2007 06:46 PM |
| Surr: Bromofluorobenzene (FID) | 15.3 | 42-149 | S | %REC | 1 | 7/6/2007 06:46 PM |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- E Value above quantitation range
- ND Not Detected at the Reporting Limit

Results are wet unless otherwise specified

**CLIENT:** Ninyo & Moore
**Work Order:** 093046
**Project:** Holland, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015_S_DSL LL**

| Sample ID | SampType | TestCode | Units | Prep Date | RunNo |
|---|---|---|---|---|---|
| MB-37755 | MBLK | 8015_S_DSL | mg/Kg | 7/9/2007 | 82121 |
| Client ID: PBS | Batch ID: 37755 | TestNo: EPA 8015B(M EPA 3550B | | Analysis Date: 7/9/2007 | SeqNo: 1248825 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO | ND | 1.0 | | | | | | | | | |
| Surr: p-Terphenyl | 1.966 | | 2.670 | | 73.6 | 27 | 110 | | | | |

| Sample ID | SampType | TestCode | Units | Prep Date | RunNo |
|---|---|---|---|---|---|
| LCS-37755 | LCS | 8015_S_DSL | mg/Kg | 7/9/2007 | 82121 |
| Client ID: LCSS | Batch ID: 37755 | TestNo: EPA 8015B(M EPA 3550B | | Analysis Date: 7/9/2007 | SeqNo: 1248826 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO | 28.263 | 1.0 | 33.00 | 0 | 85.6 | 28 | 126 | | | | |
| Surr: p-Terphenyl | 1.827 | | 2.670 | | 68.4 | 27 | 110 | | | | |

| Sample ID | SampType | TestCode | Units | Prep Date | RunNo |
|---|---|---|---|---|---|
| 093013-051AMS | MS | 8015_S_DSL | mg/Kg | 7/9/2007 | 82121 |
| Client ID: ZZZZZZ | Batch ID: 37755 | TestNo: EPA 8015B(M EPA 3550B | | Analysis Date: 7/9/2007 | SeqNo: 1248827 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO | 23.018 | 1.0 | 33.00 | 0 | 69.8 | 12 | 113 | | | | |
| Surr: p-Terphenyl | 1.801 | | 2.670 | | 67.5 | 27 | 110 | | | | |

| Sample ID | SampType | TestCode | Units | Prep Date | RunNo |
|---|---|---|---|---|---|
| 093013-051AMSD | MSD | 8015_S_DSL | mg/Kg | 7/9/2007 | 82121 |
| Client ID: ZZZZZZ | Batch ID: 37755 | TestNo: EPA 8015B(M EPA 3550B | | Analysis Date: 7/9/2007 | SeqNo: 1248828 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO | 24.870 | 1.0 | 33.00 | 0 | 75.4 | 12 | 113 | 23.02 | 7.73 | 30 | |
| Surr: p-Terphenyl | 1.747 | | 2.670 | | 65.4 | 27 | 110 | | 0 | 0 | |

| Sample ID | SampType | TestCode | Units | Prep Date | RunNo |
|---|---|---|---|---|---|
| MB-37755 | MBLK | 8015_S_DSL | mg/Kg | 7/9/2007 | 82143 |
| Client ID: PBS | Batch ID: 37755 | TestNo: EPA 8015B(M EPA 3550B | | Analysis Date: 7/11/2007 | SeqNo: 1250631 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Ninyo & Moore
**Work Order:** 093046
**Project:** Holland, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015_S_DSL LL**

| Sample ID | MB-37755 | SampType: | MBLK | TestCode: | 8015_S_DSL | Units: | mg/Kg | Prep Date: | 7/9/2007 | RunNo: | 82143 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | PBS | Batch ID: | 37755 | TestNo: | EPA 8015B(M | EPA 3550B | | Analysis Date: | 7/11/2007 | SeqNo: | 1250631 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO | ND | 1.0 | | | | | | | | | |
| Surr: p-Terphenyl | 2.819 | | 2.670 | | 106 | 27 | 110 | | | | |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
  Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

*Advanced Technology Laboratories* *3275 Walnut Avenue, Signal Hill, CA 90755* *Tel: 562. 989.4045* *Fax: 562.989.4040*

**CLIENT:** Ninyo & Moore
**Work Order:** 093046
**Project:** Holland, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015_S_DSL LL**

| Sample ID MB-37789 | SampType: MBLK | TestCode: 8015_S_DSL | Units: mg/Kg | Prep Date: 7/9/2007 | RunNo: 82214 |
|---|---|---|---|---|---|
| Client ID: PBS | Batch ID: 37789 | TestNo: EPA 8015B(M | EPA 3550B | Analysis Date: 7/10/2007 | SeqNo: 1250282 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO | ND | 1.0 | | | | | | | | | |
| Surr: p-Terphenyl | 2.391 | | 2.670 | | 89.6 | 27 | 110 | | | | |

| Sample ID LCS-37789 | SampType: LCS | TestCode: 8015_S_DSL | Units: mg/Kg | Prep Date: 7/9/2007 | RunNo: 82214 |
|---|---|---|---|---|---|
| Client ID: LCSS | Batch ID: 37789 | TestNo: EPA 8015B(M | EPA 3550B | Analysis Date: 7/10/2007 | SeqNo: 1250283 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO | 17.131 | 1.0 | 33.00 | 0 | 51.9 | 28 | 126 | | | | |
| Surr: p-Terphenyl | 1.644 | | 2.670 | | 61.6 | 27 | 110 | | | | |

| Sample ID 093006-009AMS | SampType: MS | TestCode: 8015_S_DSL | Units: mg/Kg | Prep Date: 7/9/2007 | RunNo: 82214 |
|---|---|---|---|---|---|
| Client ID: ZZZZZZ | Batch ID: 37789 | TestNo: EPA 8015B(M | EPA 3550B | Analysis Date: 7/10/2007 | SeqNo: 1250284 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO | 17.805 | 1.0 | 33.00 | 1.178 | 50.4 | 12 | 113 | | | | |
| Surr: p-Terphenyl | 1.869 | | 2.670 | | 70.0 | 27 | 110 | | | | |

| Sample ID 093006-009AMSD | SampType: MSD | TestCode: 8015_S_DSL | Units: mg/Kg | Prep Date: 7/9/2007 | RunNo: 82214 |
|---|---|---|---|---|---|
| Client ID: ZZZZZZ | Batch ID: 37789 | TestNo: EPA 8015B(M | EPA 3550B | Analysis Date: 7/10/2007 | SeqNo: 1250285 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO | 19.827 | 1.0 | 33.00 | 1.178 | 56.5 | 12 | 113 | 17.80 | 10.7 | 30 | |
| Surr: p-Terphenyl | 1.954 | | 2.670 | | 73.2 | 27 | 110 | | 0 | 0 | |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
  Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Ninyo & Moore
**Work Order:** 093046
**Project:** Holland, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015_S_GAS**

| Sample ID D070607MB1 | SampType: MBLK | TestCode: 8015_S_GAS | Units: mg/Kg | Prep Date: | | RunNo: 82059 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: PBS | Batch ID: D07VS082 | TestNo: EPA 8015B(M | | Analysis Date: 7/6/2007 | | SeqNo: 1247832 | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | ND | 1.0 | | | | | | | | | |
| Surr: Bromofluorobenzene (FID) | 70.131 | | 100.0 | | 70.1 | 42 | 149 | | | | |

| Sample ID 093046-001AMS | SampType: MS | TestCode: 8015_S_GAS | Units: mg/Kg | Prep Date: | | RunNo: 82059 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: B-4-5-2.0 | Batch ID: D07VS082 | TestNo: EPA 8015B(M | | Analysis Date: 7/6/2007 | | SeqNo: 1247834 | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 3.408 | 1.0 | 5.000 | 0 | 68.2 | 22 | 139 | | | | |
| Surr: Bromofluorobenzene (FID) | 54.699 | | 100.0 | | 54.7 | 42 | 149 | | | | |

| Sample ID 093046-001AMSD | SampType: MSD | TestCode: 8015_S_GAS | Units: mg/Kg | Prep Date: | | RunNo: 82059 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: B-4-5-2.0 | Batch ID: D07VS082 | TestNo: EPA 8015B(M | | Analysis Date: 7/6/2007 | | SeqNo: 1247835 | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 3.436 | 1.0 | 5.000 | 0 | 68.7 | 22 | 139 | 3.408 | 0.818 | 30 | |
| Surr: Bromofluorobenzene (FID) | 53.989 | | 100.0 | | 54.0 | 42 | 149 | | 0 | 30 | |

| Sample ID D070607LCS1 | SampType: LCS | TestCode: 8015_S_GAS | Units: mg/Kg | Prep Date: | | RunNo: 82059 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: LCSS | Batch ID: D07VS082 | TestNo: EPA 8015B(M | | Analysis Date: 7/6/2007 | | SeqNo: 1247839 | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 4.462 | 1.0 | 5.000 | 0 | 89.2 | 74 | 112 | | | | |
| Surr: Bromofluorobenzene (FID) | 100.185 | | 100.0 | | 100 | 42 | 149 | | | | |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Ninyo & Moore
**Work Order:** 093046
**Project:** Holland, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015_S_GAS**

| Sample ID D070907MB3 | SampType: MBLK | TestCode: 8015_S_GAS | Units: mg/Kg | Prep Date: | RunNo: 82115 |
|---|---|---|---|---|---|
| Client ID: PBS | Batch ID: D07VS083 | TestNo: EPA 8015B(M | | Analysis Date: 7/9/2007 | SeqNo: 1248719 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GRO | ND | 1.0 | | | | | | | | | |
| Surr: Bromofluorobenzene (FID) | 73.549 | | 100.0 | | 73.5 | 42 | 149 | | | | |

| Sample ID D070907MB3MS | SampType: MS | TestCode: 8015_S_GAS | Units: mg/Kg | Prep Date: | RunNo: 82115 |
|---|---|---|---|---|---|
| Client ID: ZZZZZZ | Batch ID: D07VS083 | TestNo: EPA 8015B(M | | Analysis Date: 7/9/2007 | SeqNo: 1248720 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GRO | 4.027 | 1.0 | 5.000 | 0 | 80.5 | 22 | 139 | | | | |
| Surr: Bromofluorobenzene (FID) | 92.324 | | 100.0 | | 92.3 | 42 | 149 | | | | |

| Sample ID D070907MB3MSD | SampType: MSD | TestCode: 8015_S_GAS | Units: mg/Kg | Prep Date: | RunNo: 82115 |
|---|---|---|---|---|---|
| Client ID: ZZZZZZ | Batch ID: D07VS083 | TestNo: EPA 8015B(M | | Analysis Date: 7/9/2007 | SeqNo: 1248721 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GRO | 4.285 | 1.0 | 5.000 | 0 | 85.7 | 22 | 139 | 4.027 | 6.21 | 30 | |
| Surr: Bromofluorobenzene (FID) | 96.151 | | 100.0 | | 96.2 | 42 | 149 | | 0 | 30 | |

| Sample ID D070907LCS1 | SampType: LCS | TestCode: 8015_S_GAS | Units: mg/Kg | Prep Date: | RunNo: 82115 |
|---|---|---|---|---|---|
| Client ID: LCSS | Batch ID: D07VS083 | TestNo: EPA 8015B(M | | Analysis Date: 7/9/2007 | SeqNo: 1248726 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GRO | 4.398 | 1.0 | 5.000 | 0 | 88.0 | 74 | 112 | | | | |
| Surr: Bromofluorobenzene (FID) | 103.213 | | 100.0 | | 103 | 42 | 149 | | | | |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

*Advanced Technology Laboratories* *3275 Walnut Avenue, Signal Hill, CA 90755* *Tel: 562. 989.4045* *Fax: 562.989.4040*

**CLIENT:** Ninyo & Moore
**Work Order:** 093046
**Project:** Holland, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015_S_KER LL**

| Sample ID **MB-37755** | SampType: **MBLK** | TestCode: **8015_S_KER** Units: **mg/Kg** | Prep Date: **7/9/2007** | RunNo: **82143** |
|---|---|---|---|---|
| Client ID: **PBS** | Batch ID: **37755** | TestNo: **EPA 8015B(M EPA 3550B** | Analysis Date: **7/11/2007** | SeqNo: **1250715** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Kerosene | ND | 1.0 | | | | | | | | | |
| Surr: p-Terphenyl | 3.082 | | 2.670 | | 115 | 27 | 110 | | | | S |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
  Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Ninyo & Moore
**Work Order:** 093046
**Project:** Holland, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015_S_KER LL**

| Sample ID **MB-37789** | SampType: **MBLK** | TestCode: **8015_S_KER** Units: **mg/Kg** | Prep Date: **7/9/2007** | RunNo: **82214** |
|---|---|---|---|---|
| Client ID: **PBS** | Batch ID: **37789** | TestNo: **EPA 8015B(M EPA 3550B** | Analysis Date: **7/10/2007** | SeqNo: **1250304** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Kerosene | ND | 1.0 | | | | | | | | | |
| Surr: p-Terphenyl | 2.625 | | 2.670 | | 98.3 | 27 | 110 | | | | |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
  Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

# CHAIN OF CUSTODY RECORD

Pg 1 of 1

**Advanced Technology Laboratories**
3275 Walnut Avenue
Signal Hill, CA 90755
(562) 989-4045 • Fax (562) 989-4040

**FOR LABORATORY USE ONLY:**

P.O.#: _____
Logged By: SFT Date: 7/6/07

Method of Transport: Client ☐ ATL ☐ CA OverN ☑ FEDEX ☐ Other: _____

Sample Condition Upon Receipt: 1. CHILLED 10.6 Y☐ N☐ | 2. HEADSPACE (VOA) Y☐ N☐ | 3. CONTAINER INTACT Y☐ N☐ | 4. SEALED Y☐ N☐ | 5. # OF SPLS MATCH COC Y☐ N☐ | 6. PRESERVED Y☐ N☐

Client: Ninyo & Moore
Attn: Cem Ataberk
Address: 1956 Webster ST
City Oakland State CA Zip Code 94612
TEL: (510) 633-5640
FAX: (510) 633-5646
Project Name: Holland
Project #: 401314001
Sampler: (Printed Name) Cem Ataberk (Signature)

| | | | | |
|---|---|---|---|---|
| Relinquished by: (Signature and Printed Name) Cem Ataberk | Date: 7/3/07 | Time: 5:00 | Received by: (Signature and Printed Name) Jeff Siegfried | Date: 7/3/07 Time: 5:00 |
| Relinquished by: (Signature and Printed Name) Jeff Siegfried | Date: 7/3/07 | Time: 5:35 | Received by: (Signature and Printed Name) California Overnight | Date: 7/3/07 Time: 5:35 |
| Relinquished by: (Signature and Printed Name) | Date: | Time: | Received by: (Signature and Printed Name) | Date: 7/5/07 Time: 8000 |

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Cem Ataberk 7/3/07 (Print Name, Date)
Signature

Send Report To: Attn: See above
Co: _____
Address _____
City _____ State _____ Zip _____

Bill To: Attn: Same
Co: _____
Address _____
City _____ State _____ Zip _____

Special Instructions/Comments:

**Sample/Records - Archival & Disposal**
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

**Storage Fees (applies when storage is requested):**
- Sample : $2.00 / sample / mo (after 45 days)
- Records : $1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested: 8081A (Pesticides) | 8082 (PCB) | 8260B (Volatiles) | 8270C (BNA) | 6010B (Total Metals) | 8015B (GRO) / 8020 (BTEX) | 8015B (DRO) + GRO + Kerosene | 8021 (BTEX) | TITLE 22 (CAM 17 (6010 / 7000))

SPECIFY APPROPRIATE MATRIX: SOIL | WATER | GROUND WATER | WASTEWATER

PRESERVATION

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode ____ OTHER ____

| ITEM | LAB USE ONLY: Batch #: / Lab No. | Sample Description: Sample I.D. / Location | Date | Time | 8081A | 8082 | 8260B | 8270C | 6010B | 8015B (GRO) / 8020 | 8015B (DRO) + GRO + Kerosene | 8021 | TITLE 22 | SOIL | WATER | GW | WW | TAT | Container(s) # | Container(s) Type | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0930462 -001 | B-4-S-2.0 | 7/3/07 | 8:40 | | | | | | X | | | | X | | | | E | | | |
| | -002 | B-4-S-5.0 | | 8:50 | | | | | | | | | | | | | | | | | |
| | -003 | B-4-S-8.0 | | 9:30 | | | | | | | | | | | | | | | | | |
| | -004 | MW-8-S-2.0 | | 10:45 | | | | | | | | | | | | | | | | | |
| | -005 | MW-8-S-5.0 | | 10:55 | | | | | | | | | | | | | | | | | |
| | -006 | MW-8-S-6.5 | | 11:05 | | | | | | | | | | | | | | | | | |
| | -007 | B-5-S-2.0 | | 2:05 | | | | | | | | | | | | | | | | | |
| | -008 | B-5-S-5.0 | | 2:30 | | | | | | | | | | | | | | | | | |
| | -009 | B-7-S-2.0 | | 2:40 | | | | | | | | | | | | | | | | | hold |
| | -010 | B-6-S-2.0 | | 3:58 | | | | | | | | | | | | | | | | | hold |

• TAT starts 8 a.m. following day if samples received after 3 p.m.

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

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

Preservatives: H=HCl N=$HNO_3$ S=$H_2SO_4$ C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: **White** with report, **Yellow** to folder, **Pink** to submitter.

# CHAIN OF CUSTODY RECORD

Pg ____ of ____

**Advanced Technology Laboratories**
3275 Walnut Avenue
Signal Hill, CA 90755
(562) 989-4045 • Fax (562) 989-4040

**FOR LABORATORY USE ONLY:**

P.O.#: ____

Logged By: SH Date: 7/5/07

Method of Transport: Client ☐ ATL ☐ CA OverN ☑ FEDEX ☐ Other: ____

Sample Condition Upon Receipt
1. CHILLED 10.6 Y☐ N☐ 4. SEALED Y☐ N☐
2. HEADSPACE (VOA) Y☐ N☐ 5. # OF SPLS MATCH COC Y☐ N☐
3. CONTAINER INTACT Y☐ N☐ 6. PRESERVED Y☐ N☐

Client:
Attn:
Address:
City State Zip Code
TEL: ( )
FAX: ( )
Project Name:
Project #:
Sampler: (Printed Name) (Signature)

Relinquished by: (Signature and Printed Name) Cem Atakan Date: 7/3/07 Time: 5:00 Received by: (Signature and Printed Name) Jeff Kiesel Date: 7/3/07 Time: 5:00
Relinquished by: (Signature and Printed Name) Jeff Kiesel Date: 7/3/07 Time: 5:35 Received by: (Signature and Printed Name) Call Patrick Overnight Date: 7/3/07 Time: 5:35
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Marco Hz Date: 7/5/07 Time: 800

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter:
Print Name Date
Signature

Send Report To:
Attn: ____
Co: ____
Address ____
City ____ State ____ Zip ____

Bill To:
Attn: ____
Co: ____
Address ____
City ____ State ____ Zip ____

Special Instructions/Comments:

**Sample/Records - Archival & Disposal**
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

**Storage Fees (applies when storage is requested):**
- Sample : $2.00 / sample / mo (after 45 days)
- Records : $1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested: 8081A (Pesticides) | 8082 (PCB) | 8260B (Volatiles) | 8270C (BNA) | 6010B (Total Metals) | 8015B (GRO) / 8020 (BTEX) | 8015B (DRO) +GRO + Kerosene | 8021 (BTEX) | TITLE 22 / CAM 17 (6010 / 7000)

SPECIFY APPROPRIATE MATRIX: SOIL | WATER | GROUND WATER | WASTEWATER

| ITEM | LAB USE ONLY: Batch #: / Lab No. | Sample Description: Sample I.D. / Location | Date | Time | TAT | Container(s) # | Container(s) Type | PRESERVATION | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | 093046 -011 | B-8-S-2.0 | 7/3/07 | 4:00 | E | | | | |
| | -012 | B-8-S-5.0 | ↓ | 4:15 | ↓ | | | | |

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode ____ OTHER ____

• TAT starts 8 a.m. following day if samples received after 3 p.m.

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

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

Preservatives: H=Hcl N=$HNO_3$ S=$H_2SO_4$ C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.

July 17, 2007

Cem Atabek
Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612
TEL: (510) 633-5640
FAX: (510) 633-5646

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
Arizona: AZ0689
CSDLAC No.: 10196
Workorder No.: 093113

RE: Holland Oil, 401314001

Attention: Cem Atabek

Enclosed are the results for sample(s) received on July 10, 2007 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director





Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

**CLIENT:** Ninyo & Moore
**Project:** Holland Oil, 401314001
**Lab Order:** 093113

## CASE NARRATIVE

Analytical Comments for EPA 8015 (Kerosene)

Samples 093113-001C, 093113-002C, and 093113-003C: Sample contains hydrocarbons within the kerosene range that do not match the kerosene pattern. Quantitation was based on kerosene standard.

## Advanced Technology Laboratories

# ANALYTICAL RESULTS

**Print Date:** *17-Jul-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 093113
**Project:** Holland Oil, 401314001
**Lab ID:** 093113-001

**Client Sample ID:** MW-8-GW
**Collection Date:** 7/9/2007 12:50:00 PM
**Matrix:** GROUND WATER

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3510C** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070713A | QC Batch: 37913 | | | PrepDate: 7/13/2007 | | Analyst: **CBR** |
| DRO | 0.79 | 0.050 | | mg/L | 1 | 7/13/2007 06:06 PM |
| Surr: p-Terphenyl | 70.7 | 24-115 | | %REC | 1 | 7/13/2007 06:06 PM |
| **KEROSENE BY GC/FID** | | | | | | |
| | **EPA 3510C** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070713A | QC Batch: 37913 | | | PrepDate: 7/13/2007 | | Analyst: **CBR** |
| Kerosene | 0.50 | 0.050 | | mg/L | 1 | 7/13/2007 06:06 PM |
| Surr: p-Terphenyl | 77.1 | 24-115 | | %REC | 1 | 7/13/2007 06:06 PM |
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| | | | | **EPA 8015B(M)** | | |
| RunID: GC6_070710A | QC Batch: I07VW163 | | | PrepDate: | | Analyst: **EA** |
| GRO | 2.1 | 0.050 | | mg/L | 1 | 7/10/2007 05:50 PM |
| Surr: Bromofluorobenzene (FID) | 91.7 | 70-129 | | %REC | 1 | 7/10/2007 05:50 PM |
| **SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM** | | | | | | |
| | **EPA 3510C** | | | **EPA 8270C** | | |
| RunID: MS6_070716A | QC Batch: 37928 | | | PrepDate: 7/16/2007 | | Analyst: **MFR** |
| Acenaphthene | ND | 0.20 | | µg/L | 1 | 7/16/2007 04:49 PM |
| Acenaphthylene | ND | 0.20 | | µg/L | 1 | 7/16/2007 04:49 PM |
| Anthracene | ND | 0.20 | | µg/L | 1 | 7/16/2007 04:49 PM |
| Benzo(a)anthracene | ND | 0.20 | | µg/L | 1 | 7/16/2007 04:49 PM |
| Benzo(a)pyrene | ND | 0.20 | | µg/L | 1 | 7/16/2007 04:49 PM |
| Benzo(b)fluoranthene | ND | 0.20 | | µg/L | 1 | 7/16/2007 04:49 PM |
| Benzo(g,h,i)perylene | ND | 0.20 | | µg/L | 1 | 7/16/2007 04:49 PM |
| Benzo(k)fluoranthene | ND | 0.20 | | µg/L | 1 | 7/16/2007 04:49 PM |
| Chrysene | ND | 0.20 | | µg/L | 1 | 7/16/2007 04:49 PM |
| Dibenz(a,h)anthracene | ND | 0.20 | | µg/L | 1 | 7/16/2007 04:49 PM |
| Fluoranthene | ND | 0.20 | | µg/L | 1 | 7/16/2007 04:49 PM |
| Fluorene | 0.29 | 0.20 | | µg/L | 1 | 7/16/2007 04:49 PM |
| Indeno(1,2,3-cd)pyrene | ND | 0.20 | | µg/L | 1 | 7/16/2007 04:49 PM |
| Naphthalene | 40 | 10 | | µg/L | 50 | 7/16/2007 07:02 PM |
| Phenanthrene | 0.32 | 0.20 | | µg/L | 1 | 7/16/2007 04:49 PM |
| Pyrene | ND | 0.20 | | µg/L | 1 | 7/16/2007 04:49 PM |
| Surr: 1,2-Dichlorobenzene-d4 | 73.4 | 35-101 | | %REC | 1 | 7/16/2007 04:49 PM |
| Surr: 2-Fluorobiphenyl | 56.7 | 43-110 | | %REC | 1 | 7/16/2007 04:49 PM |
| Surr: 4-Terphenyl-d14 | 78.9 | 46-133 | | %REC | 1 | 7/16/2007 04:49 PM |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- E Value above quantitation range
- ND Not Detected at the Reporting Limit

Results are wet unless otherwise specified

| | | | |
|---|---|---|---|
| **CLIENT:** | Ninyo & Moore | **Client Sample ID:** | MW-8-GW |
| **Lab Order:** | 093113 | **Collection Date:** | 7/9/2007 12:50:00 PM |
| **Project:** | Holland Oil, 401314001 | **Matrix:** | GROUND WATER |
| **Lab ID:** | 093113-001 | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM** | | | | | | |
| | **EPA 3510C** | | | **EPA 8270C** | | |
| RunID: MS6_070716A | QC Batch: 37928 | | | PrepDate: | 7/16/2007 | Analyst: **MFR** |
| Surr: Nitrobenzene-d5 | 70.2 | 38-117 | | %REC | 1 | 7/16/2007 04:49 PM |
| **VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | |
| | | | | **EPA 8260B** | | |
| RunID: MS2_070711A | QC Batch: Q07VW0105 | | | PrepDate: | | Analyst: **TT** |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| 1,1,1-Trichloroethane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| 1,1,2-Trichloroethane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| 1,1-Dichloroethane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| 1,1-Dichloroethene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| 1,1-Dichloropropene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| 1,2,3-Trichlorobenzene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| 1,2,3-Trichloropropane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| 1,2,4-Trichlorobenzene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| 1,2,4-Trimethylbenzene | 82 | 5.0 | | µg/L | 10 | 7/12/2007 01:33 PM |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| 1,2-Dibromoethane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| 1,2-Dichlorobenzene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| 1,2-Dichloroethane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| 1,2-Dichloropropane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| 1,3,5-Trimethylbenzene | 30 | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| 1,3-Dichlorobenzene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| 1,3-Dichloropropane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| 1,4-Dichlorobenzene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| 2,2-Dichloropropane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| 2-Chlorotoluene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| 4-Chlorotoluene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| 4-Isopropyltoluene | 3.5 | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| Benzene | 110 | 5.0 | | µg/L | 10 | 7/12/2007 01:33 PM |
| Bromobenzene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| Bromodichloromethane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| Bromoform | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| Bromomethane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| Carbon tetrachloride | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| Chlorobenzene | 3.8 | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| Chloroethane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

| | | | |
|---|---|---|---|
| **CLIENT:** | Ninyo & Moore | **Client Sample ID:** | MW-8-GW |
| **Lab Order:** | 093113 | **Collection Date:** | 7/9/2007 12:50:00 PM |
| **Project:** | Holland Oil, 401314001 | **Matrix:** | GROUND WATER |
| **Lab ID:** | 093113-001 | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | **EPA 8260B** | | |
| RunID: MS2_070711A | QC Batch: Q07VW0105 | | | PrepDate: | | Analyst: TT |
| Chloroform | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| Chloromethane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| cis-1,2-Dichloroethene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| cis-1,3-Dichloropropene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| Dibromochloromethane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| Dibromomethane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| Dichlorodifluoromethane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| Ethylbenzene | 76 | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| Hexachlorobutadiene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| Isopropylbenzene | 12 | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| m,p-Xylene | 190 | 10 | | µg/L | 10 | 7/12/2007 01:33 PM |
| Methylene chloride | ND | 1.0 | | µg/L | 1 | 7/11/2007 03:39 PM |
| MTBE | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| n-Butylbenzene | 7.2 | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| n-Propylbenzene | 30 | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| Naphthalene | 38 | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| o-Xylene | 25 | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| sec-Butylbenzene | 2.5 | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| Styrene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| tert-Butylbenzene | 0.59 | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| Tetrachloroethene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| Toluene | 6.8 | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| trans-1,2-Dichloroethene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| Trichloroethene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| Trichlorofluoromethane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| Vinyl chloride | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:39 PM |
| Surr: 1,2-Dichloroethane-d4 | 85.5 | 67-118 | | %REC | 1 | 7/11/2007 03:39 PM |
| Surr: 1,2-Dichloroethane-d4 | 87.8 | 67-118 | | %REC | 10 | 7/12/2007 01:33 PM |
| Surr: 4-Bromofluorobenzene | 87.5 | 81-119 | | %REC | 1 | 7/11/2007 03:39 PM |
| Surr: 4-Bromofluorobenzene | 101 | 81-119 | | %REC | 10 | 7/12/2007 01:33 PM |
| Surr: Dibromofluoromethane | 90.5 | 77-112 | | %REC | 10 | 7/12/2007 01:33 PM |
| Surr: Dibromofluoromethane | 82.8 | 77-112 | | %REC | 1 | 7/11/2007 03:39 PM |
| Surr: Toluene-d8 | 90.9 | 82-116 | | %REC | 1 | 7/11/2007 03:39 PM |
| Surr: Toluene-d8 | 98.6 | 82-116 | | %REC | 10 | 7/12/2007 01:33 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

| | | | |
|---|---|---|---|
| **CLIENT:** | Ninyo & Moore | **Client Sample ID:** | MW-6-GW |
| **Lab Order:** | 093113 | **Collection Date:** | 7/9/2007 3:45:00 PM |
| **Project:** | Holland Oil, 401314001 | **Matrix:** | GROUND WATER |
| **Lab ID:** | 093113-002 | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3510C** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070713A | QC Batch: 37913 | | | PrepDate: | 7/13/2007 | Analyst: **CBR** |
| DRO | 1.5 | 0.050 | | mg/L | 1 | 7/13/2007 06:33 PM |
| Surr: p-Terphenyl | 80.6 | 24-115 | | %REC | 1 | 7/13/2007 06:33 PM |
| **KEROSENE BY GC/FID** | | | | | | |
| | **EPA 3510C** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070713A | QC Batch: 37913 | | | PrepDate: | 7/13/2007 | Analyst: **CBR** |
| Kerosene | 0.91 | 0.050 | | mg/L | 1 | 7/13/2007 06:33 PM |
| Surr: p-Terphenyl | 87.0 | 24-115 | | %REC | 1 | 7/13/2007 06:33 PM |
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| | | | | **EPA 8015B(M)** | | |
| RunID: GC6_070710A | QC Batch: I07VW163 | | | PrepDate: | | Analyst: **EA** |
| GRO | 0.78 | 0.050 | | mg/L | 1 | 7/10/2007 04:58 PM |
| Surr: Bromofluorobenzene (FID) | 95.8 | 70-129 | | %REC | 1 | 7/10/2007 04:58 PM |
| **SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM** | | | | | | |
| | **EPA 3510C** | | | **EPA 8270C** | | |
| RunID: MS6_070716A | QC Batch: 37928 | | | PrepDate: | 7/16/2007 | Analyst: **MFR** |
| Acenaphthene | 0.37 | 0.20 | | µg/L | 1 | 7/16/2007 05:22 PM |
| Acenaphthylene | ND | 0.20 | | µg/L | 1 | 7/16/2007 05:22 PM |
| Anthracene | ND | 0.20 | | µg/L | 1 | 7/16/2007 05:22 PM |
| Benzo(a)anthracene | ND | 0.20 | | µg/L | 1 | 7/16/2007 05:22 PM |
| Benzo(a)pyrene | ND | 0.20 | | µg/L | 1 | 7/16/2007 05:22 PM |
| Benzo(b)fluoranthene | ND | 0.20 | | µg/L | 1 | 7/16/2007 05:22 PM |
| Benzo(g,h,i)perylene | ND | 0.20 | | µg/L | 1 | 7/16/2007 05:22 PM |
| Benzo(k)fluoranthene | ND | 0.20 | | µg/L | 1 | 7/16/2007 05:22 PM |
| Chrysene | ND | 0.20 | | µg/L | 1 | 7/16/2007 05:22 PM |
| Dibenz(a,h)anthracene | ND | 0.20 | | µg/L | 1 | 7/16/2007 05:22 PM |
| Fluoranthene | ND | 0.20 | | µg/L | 1 | 7/16/2007 05:22 PM |
| Fluorene | 1.1 | 0.20 | | µg/L | 1 | 7/16/2007 05:22 PM |
| Indeno(1,2,3-cd)pyrene | ND | 0.20 | | µg/L | 1 | 7/16/2007 05:22 PM |
| Naphthalene | ND | 0.20 | | µg/L | 1 | 7/16/2007 05:22 PM |
| Phenanthrene | 1.1 | 0.20 | | µg/L | 1 | 7/16/2007 05:22 PM |
| Pyrene | ND | 0.20 | | µg/L | 1 | 7/16/2007 05:22 PM |
| Surr: 1,2-Dichlorobenzene-d4 | 33.2 | 35-101 | S | %REC | 1 | 7/16/2007 05:22 PM |
| Surr: 2-Fluorobiphenyl | 31.1 | 43-110 | S | %REC | 1 | 7/16/2007 05:22 PM |
| Surr: 4-Terphenyl-d14 | 42.3 | 46-133 | S | %REC | 1 | 7/16/2007 05:22 PM |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- E Value above quantitation range
- ND Not Detected at the Reporting Limit

Results are wet unless otherwise specified

| | | | |
|---|---|---|---|
| **CLIENT:** | Ninyo & Moore | **Client Sample ID:** | MW-6-GW |
| **Lab Order:** | 093113 | **Collection Date:** | 7/9/2007 3:45:00 PM |
| **Project:** | Holland Oil, 401314001 | **Matrix:** | GROUND WATER |
| **Lab ID:** | 093113-002 | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM** | | | | | | |
| **EPA 3510C** | | | | **EPA 8270C** | | |
| RunID: MS6_070716A | QC Batch: 37928 | | | PrepDate: | 7/16/2007 | Analyst: **MFR** |
| Surr: Nitrobenzene-d5 | 34.9 | 38-117 | S | %REC | 1 | 7/16/2007 05:22 PM |
| **VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | |
| | | | | **EPA 8260B** | | |
| RunID: MS11_070712A | QC Batch: A07VW203 | | | PrepDate: | | Analyst: **TT** |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| 1,1,1-Trichloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| 1,1,2-Trichloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| 1,1-Dichloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| 1,1-Dichloroethene | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| 1,1-Dichloropropene | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| 1,2,3-Trichlorobenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| 1,2,3-Trichloropropane | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| 1,2,4-Trichlorobenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| 1,2,4-Trimethylbenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| 1,2-Dibromoethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| 1,2-Dichlorobenzene | 0.58 | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| 1,2-Dichloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| 1,2-Dichloropropane | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| 1,3,5-Trimethylbenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| 1,3-Dichlorobenzene | 3.1 | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| 1,3-Dichloropropane | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| 1,4-Dichlorobenzene | 9.1 | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| 2,2-Dichloropropane | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| 2-Chlorotoluene | 1.6 | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| 4-Chlorotoluene | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| 4-Isopropyltoluene | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| Benzene | 11 | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| Bromobenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| Bromodichloromethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| Bromoform | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| Bromomethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| Carbon tetrachloride | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| Chlorobenzene | 2.1 | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| Chloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

## Advanced Technology Laboratories

# ANALYTICAL RESULTS

**Print Date:** *17-Jul-07*

| | | | |
|---|---|---|---|
| **CLIENT:** | Ninyo & Moore | **Client Sample ID:** | MW-6-GW |
| **Lab Order:** | 093113 | **Collection Date:** | 7/9/2007 3:45:00 PM |
| **Project:** | Holland Oil, 401314001 | **Matrix:** | GROUND WATER |
| **Lab ID:** | 093113-002 | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | **EPA 8260B** | | |
| RunID: MS11_070712A | QC Batch: A07VW203 | | | | PrepDate: | Analyst: TT |
| Chloroform | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| Chloromethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| cis-1,2-Dichloroethene | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| cis-1,3-Dichloropropene | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| Dibromochloromethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| Dibromomethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| Dichlorodifluoromethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| Ethylbenzene | 0.71 | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| Hexachlorobutadiene | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| Isopropylbenzene | 20 | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| m,p-Xylene | ND | 1.0 | | µg/L | 1 | 7/12/2007 01:08 PM |
| Methylene chloride | ND | 1.0 | | µg/L | 1 | 7/12/2007 01:08 PM |
| MTBE | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| n-Butylbenzene | 5.4 | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| n-Propylbenzene | 32 | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| Naphthalene | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| o-Xylene | 2.4 | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| sec-Butylbenzene | 7.0 | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| Styrene | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| tert-Butylbenzene | 0.57 | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| Tetrachloroethene | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| Toluene | 0.64 | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| trans-1,2-Dichloroethene | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| Trichloroethene | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| Trichlorofluoromethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| Vinyl chloride | ND | 0.50 | | µg/L | 1 | 7/12/2007 01:08 PM |
| Surr: 1,2-Dichloroethane-d4 | 90.2 | 67-116 | | %REC | 1 | 7/12/2007 01:08 PM |
| Surr: 4-Bromofluorobenzene | 103 | 81-119 | | %REC | 1 | 7/12/2007 01:08 PM |
| Surr: Dibromofluoromethane | 89.0 | 77-112 | | %REC | 1 | 7/12/2007 01:08 PM |
| Surr: Toluene-d8 | 98.5 | 82-116 | | %REC | 1 | 7/12/2007 01:08 PM |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

## Advanced Technology Laboratories

# ANALYTICAL RESULTS

**Print Date:** *17-Jul-07*

| | | | |
|---|---|---|---|
| **CLIENT:** | Ninyo & Moore | **Client Sample ID:** | MW-2-GW |
| **Lab Order:** | 093113 | **Collection Date:** | 7/9/2007 5:15:00 PM |
| **Project:** | Holland Oil, 401314001 | **Matrix:** | GROUND WATER |
| **Lab ID:** | 093113-003 | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3510C** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070713A | QC Batch: 37913 | | | PrepDate: 7/13/2007 | | Analyst: **CBR** |
| DRO | 0.21 | 0.050 | | mg/L | 1 | 7/13/2007 07:00 PM |
| Surr: p-Terphenyl | 82.9 | 24-115 | | %REC | 1 | 7/13/2007 07:00 PM |
| **KEROSENE BY GC/FID** | | | | | | |
| | **EPA 3510C** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070713A | QC Batch: 37913 | | | PrepDate: 7/13/2007 | | Analyst: **CBR** |
| Kerosene | 0.094 | 0.050 | | mg/L | 1 | 7/13/2007 07:00 PM |
| Surr: p-Terphenyl | 88.9 | 24-115 | | %REC | 1 | 7/13/2007 07:00 PM |
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| | | | | **EPA 8015B(M)** | | |
| RunID: GC6_070710A | QC Batch: I07VW163 | | | PrepDate: | | Analyst: **EA** |
| GRO | 0.093 | 0.050 | | mg/L | 1 | 7/10/2007 05:24 PM |
| Surr: Bromofluorobenzene (FID) | 111 | 70-129 | | %REC | 1 | 7/10/2007 05:24 PM |
| **SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM** | | | | | | |
| | **EPA 3510C** | | | **EPA 8270C** | | |
| RunID: MS6_070716A | QC Batch: 37928 | | | PrepDate: 7/16/2007 | | Analyst: **MFR** |
| Acenaphthene | ND | 0.20 | | µg/L | 1 | 7/16/2007 05:55 PM |
| Acenaphthylene | ND | 0.20 | | µg/L | 1 | 7/16/2007 05:55 PM |
| Anthracene | ND | 0.20 | | µg/L | 1 | 7/16/2007 05:55 PM |
| Benzo(a)anthracene | ND | 0.20 | | µg/L | 1 | 7/16/2007 05:55 PM |
| Benzo(a)pyrene | ND | 0.20 | | µg/L | 1 | 7/16/2007 05:55 PM |
| Benzo(b)fluoranthene | ND | 0.20 | | µg/L | 1 | 7/16/2007 05:55 PM |
| Benzo(g,h,i)perylene | ND | 0.20 | | µg/L | 1 | 7/16/2007 05:55 PM |
| Benzo(k)fluoranthene | ND | 0.20 | | µg/L | 1 | 7/16/2007 05:55 PM |
| Chrysene | ND | 0.20 | | µg/L | 1 | 7/16/2007 05:55 PM |
| Dibenz(a,h)anthracene | ND | 0.20 | | µg/L | 1 | 7/16/2007 05:55 PM |
| Fluoranthene | ND | 0.20 | | µg/L | 1 | 7/16/2007 05:55 PM |
| Fluorene | ND | 0.20 | | µg/L | 1 | 7/16/2007 05:55 PM |
| Indeno(1,2,3-cd)pyrene | ND | 0.20 | | µg/L | 1 | 7/16/2007 05:55 PM |
| Naphthalene | ND | 0.20 | | µg/L | 1 | 7/16/2007 05:55 PM |
| Phenanthrene | ND | 0.20 | | µg/L | 1 | 7/16/2007 05:55 PM |
| Pyrene | ND | 0.20 | | µg/L | 1 | 7/16/2007 05:55 PM |
| Surr: 1,2-Dichlorobenzene-d4 | 70.8 | 35-101 | | %REC | 1 | 7/16/2007 05:55 PM |
| Surr: 2-Fluorobiphenyl | 49.2 | 43-110 | | %REC | 1 | 7/16/2007 05:55 PM |
| Surr: 4-Terphenyl-d14 | 81.3 | 46-133 | | %REC | 1 | 7/16/2007 05:55 PM |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- E Value above quantitation range
- ND Not Detected at the Reporting Limit

Results are wet unless otherwise specified

**CLIENT:** Ninyo & Moore
**Lab Order:** 093113
**Project:** Holland Oil, 401314001
**Lab ID:** 093113-003

**Client Sample ID:** MW-2-GW
**Collection Date:** 7/9/2007 5:15:00 PM
**Matrix:** GROUND WATER

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM** | | | | | | |
| | **EPA 3510C** | | | **EPA 8270C** | | |
| RunID: MS6_070716A | QC Batch: 37928 | | | PrepDate: | 7/16/2007 | Analyst: **MFR** |
| Surr: Nitrobenzene-d5 | 59.2 | 38-117 | | %REC | 1 | 7/16/2007 05:55 PM |
| **VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | |
| | | | | **EPA 8260B** | | |
| RunID: MS2_070711A | QC Batch: Q07VW0105 | | | PrepDate: | | Analyst: **TT** |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| 1,1,1-Trichloroethane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| 1,1,2-Trichloroethane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| 1,1-Dichloroethane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| 1,1-Dichloroethene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| 1,1-Dichloropropene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| 1,2,3-Trichlorobenzene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| 1,2,3-Trichloropropane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| 1,2,4-Trichlorobenzene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| 1,2,4-Trimethylbenzene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| 1,2-Dibromoethane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| 1,2-Dichlorobenzene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| 1,2-Dichloroethane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| 1,2-Dichloropropane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| 1,3,5-Trimethylbenzene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| 1,3-Dichlorobenzene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| 1,3-Dichloropropane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| 1,4-Dichlorobenzene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| 2,2-Dichloropropane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| 2-Chlorotoluene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| 4-Chlorotoluene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| 4-Isopropyltoluene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| Benzene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| Bromobenzene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| Bromodichloromethane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| Bromoform | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| Bromomethane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| Carbon tetrachloride | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| Chlorobenzene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| Chloroethane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |

**Qualifiers:**
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out
E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified

## Advanced Technology Laboratories

# ANALYTICAL RESULTS

**Print Date:** *17-Jul-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 093113
**Project:** Holland Oil, 401314001
**Lab ID:** 093113-003

**Client Sample ID:** MW-2-GW
**Collection Date:** 7/9/2007 5:15:00 PM
**Matrix:** GROUND WATER

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | **EPA 8260B** | | |
| RunID: MS2_070711A | QC Batch: Q07VW0105 | | | PrepDate: | | Analyst: TT |
| Chloroform | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| Chloromethane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| cis-1,2-Dichloroethene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| cis-1,3-Dichloropropene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| Dibromochloromethane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| Dibromomethane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| Dichlorodifluoromethane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| Ethylbenzene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| Hexachlorobutadiene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| Isopropylbenzene | 0.68 | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| m,p-Xylene | ND | 1.0 | | µg/L | 1 | 7/11/2007 03:13 PM |
| Methylene chloride | ND | 1.0 | | µg/L | 1 | 7/11/2007 03:13 PM |
| MTBE | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| n-Butylbenzene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| n-Propylbenzene | 0.60 | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| Naphthalene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| o-Xylene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| sec-Butylbenzene | 0.52 | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| Styrene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| tert-Butylbenzene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| Tetrachloroethene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| Toluene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| trans-1,2-Dichloroethene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| Trichloroethene | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| Trichlorofluoromethane | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| Vinyl chloride | ND | 0.50 | | µg/L | 1 | 7/11/2007 03:13 PM |
| Surr: 1,2-Dichloroethane-d4 | 86.4 | 67-118 | | %REC | 1 | 7/11/2007 03:13 PM |
| Surr: 4-Bromofluorobenzene | 88.9 | 81-119 | | %REC | 1 | 7/11/2007 03:13 PM |
| Surr: Dibromofluoromethane | 89.1 | 77-112 | | %REC | 1 | 7/11/2007 03:13 PM |
| Surr: Toluene-d8 | 90.8 | 82-116 | | %REC | 1 | 7/11/2007 03:13 PM |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- E Value above quantitation range
- ND Not Detected at the Reporting Limit

Results are wet unless otherwise specified

**CLIENT:** Ninyo & Moore
**Work Order:** 093113
**Project:** Holland Oil, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015_W_DSL LL**

| Sample ID: **MB-37913** | SampType: **MBLK** | TestCode: **8015_W_DSL** | Units: **mg/L** | Prep Date: **7/13/2007** | RunNo: **82356** |
|---|---|---|---|---|---|
| Client ID: **PBW** | Batch ID: **37913** | TestNo: **EPA 8015B(M** | **EPA 3510C** | Analysis Date: **7/13/2007** | SeqNo: **1252834** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO | ND | 0.050 | | | | | | | | | |
| Surr: p-Terphenyl | 0.066 | | 0.08000 | | 82.3 | 24 | 115 | | | | |

| Sample ID: **LCS-37913** | SampType: **LCS** | TestCode: **8015_W_DSL** | Units: **mg/L** | Prep Date: **7/13/2007** | RunNo: **82356** |
|---|---|---|---|---|---|
| Client ID: **LCSW** | Batch ID: **37913** | TestNo: **EPA 8015B(M** | **EPA 3510C** | Analysis Date: **7/13/2007** | SeqNo: **1252835** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO | 0.831 | 0.050 | 1.000 | 0 | 83.1 | 44 | 123 | | | | |
| Surr: p-Terphenyl | 0.064 | | 0.08000 | | 80.2 | 24 | 115 | | | | |

| Sample ID: **MB-37913MS** | SampType: **MS** | TestCode: **8015_W_DSL** | Units: **mg/L** | Prep Date: **7/13/2007** | RunNo: **82356** |
|---|---|---|---|---|---|
| Client ID: **ZZZZZZ** | Batch ID: **37913** | TestNo: **EPA 8015B(M** | **EPA 3510C** | Analysis Date: **7/13/2007** | SeqNo: **1252836** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO | 0.794 | 0.050 | 1.000 | 0 | 79.4 | 44 | 123 | | | | |
| Surr: p-Terphenyl | 0.069 | | 0.08000 | | 86.1 | 24 | 115 | | | | |

| Sample ID: **MB-37913MSD** | SampType: **MSD** | TestCode: **8015_W_DSL** | Units: **mg/L** | Prep Date: **7/13/2007** | RunNo: **82356** |
|---|---|---|---|---|---|
| Client ID: **ZZZZZZ** | Batch ID: **37913** | TestNo: **EPA 8015B(M** | **EPA 3510C** | Analysis Date: **7/13/2007** | SeqNo: **1252837** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO | 0.860 | 0.050 | 1.000 | 0 | 86.0 | 44 | 123 | 0.7940 | 7.96 | 30 | |
| Surr: p-Terphenyl | 0.071 | | 0.08000 | | 88.5 | 24 | 115 | | 0 | 0 | |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

  Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Ninyo & Moore
**Work Order:** 093113
**Project:** Holland Oil, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015_W_GP LL**

| Sample ID: I0710007LCS2 | SampType: LCS | TestCode: 8015_W_GP | Units: mg/L | Prep Date: | RunNo: 82137 |
|---|---|---|---|---|---|
| Client ID: LCSW | Batch ID: I07VW163 | TestNo: EPA 8015B(M | | Analysis Date: 7/10/2007 | SeqNo: 1249176 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GRO | 1.117 | 0.050 | 1.000 | 0 | 112 | 71 | 120 | | | | |
| Surr: Bromofluorobenzene (FID) | 105.574 | | 100.0 | | 106 | 70 | 129 | | | | |

| Sample ID: I0710007MB2MS | SampType: MS | TestCode: 8015_W_GP | Units: mg/L | Prep Date: | RunNo: 82137 |
|---|---|---|---|---|---|
| Client ID: ZZZZZZ | Batch ID: I07VW163 | TestNo: EPA 8015B(M | | Analysis Date: 7/10/2007 | SeqNo: 1249177 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GRO | 1.006 | 0.050 | 1.000 | 0 | 101 | 71 | 120 | | | | |
| Surr: Bromofluorobenzene (FID) | 96.222 | | 100.0 | | 96.2 | 70 | 129 | | | | |

| Sample ID: I0710007MB2MSD | SampType: MSD | TestCode: 8015_W_GP | Units: mg/L | Prep Date: | RunNo: 82137 |
|---|---|---|---|---|---|
| Client ID: ZZZZZZ | Batch ID: I07VW163 | TestNo: EPA 8015B(M | | Analysis Date: 7/10/2007 | SeqNo: 1249178 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GRO | 0.973 | 0.050 | 1.000 | 0 | 97.3 | 71 | 120 | 1.006 | 3.34 | 30 | |
| Surr: Bromofluorobenzene (FID) | 96.020 | | 100.0 | | 96.0 | 70 | 129 | | 0 | 0 | |

| Sample ID: I0710007MB2 | SampType: MBLK | TestCode: 8015_W_GP | Units: mg/L | Prep Date: | RunNo: 82137 |
|---|---|---|---|---|---|
| Client ID: PBW | Batch ID: I07VW163 | TestNo: EPA 8015B(M | | Analysis Date: 7/10/2007 | SeqNo: 1249179 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GRO | ND | 0.050 | | | | | | | | | |
| Surr: Bromofluorobenzene (FID) | 94.757 | | 100.0 | | 94.8 | 70 | 129 | | | | |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
  Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Ninyo & Moore
**Work Order:** 093113
**Project:** Holland Oil, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015_W_KER LL**

| Sample ID: MB-37913 | SampType: MBLK | TestCode: 8015_W_KER | Units: mg/L | Prep Date: 7/13/2007 | RunNo: 82356 |
|---|---|---|---|---|---|
| Client ID: PBW | Batch ID: 37913 | TestNo: EPA 8015B(M EPA 3510C | | Analysis Date: 7/13/2007 | SeqNo: 1252854 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Kerosene | ND | 0.050 | | | | | | | | | |
| Surr: p-Terphenyl | 0.071 | | 0.08000 | | 88.5 | 24 | 115 | | | | |

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
  Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Ninyo & Moore
**Work Order:** 093113
**Project:** Holland Oil, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260_WP_LL**

Sample ID: **A071207LC1** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **82312**
Client ID: **LCSW** Batch ID: **A07VW203** TestNo: **EPA 8260B** Analysis Date: **7/12/2007** SeqNo: **1252494**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 20.570 | 0.50 | 20.00 | 0 | 103 | 74 | 132 | | | | |
| Benzene | 19.490 | 0.50 | 20.00 | 0 | 97.5 | 86 | 116 | | | | |
| Chlorobenzene | 19.080 | 0.50 | 20.00 | 0 | 95.4 | 82 | 115 | | | | |
| MTBE | 19.750 | 0.50 | 20.00 | 0 | 98.8 | 71 | 129 | | | | |
| Toluene | 19.620 | 0.50 | 20.00 | 0 | 98.1 | 88 | 115 | | | | |
| Trichloroethene | 19.530 | 0.50 | 20.00 | 0 | 97.6 | 86 | 118 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 22.030 | | 25.00 | | 88.1 | 67 | 118 | | | | |
| Surr: 4-Bromofluorobenzene | 24.650 | | 25.00 | | 98.6 | 81 | 119 | | | | |
| Surr: Dibromofluoromethane | 22.940 | | 25.00 | | 91.8 | 77 | 112 | | | | |
| Surr: Toluene-d8 | 24.170 | | 25.00 | | 96.7 | 82 | 116 | | | | |

Sample ID: **A071207MB3MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **82312**
Client ID: **ZZZZZZ** Batch ID: **A07VW203** TestNo: **EPA 8260B** Analysis Date: **7/12/2007** SeqNo: **1252495**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 20.610 | 0.50 | 20.00 | 0 | 103 | 74 | 132 | | | | |
| Benzene | 20.070 | 0.50 | 20.00 | 0 | 100 | 86 | 116 | | | | |
| Chlorobenzene | 19.680 | 0.50 | 20.00 | 0 | 98.4 | 82 | 115 | | | | |
| MTBE | 20.590 | 0.50 | 20.00 | 0 | 103 | 71 | 129 | | | | |
| Toluene | 20.440 | 0.50 | 20.00 | 0 | 102 | 88 | 115 | | | | |
| Trichloroethene | 19.280 | 0.50 | 20.00 | 0 | 96.4 | 86 | 118 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 22.480 | | 25.00 | | 89.9 | 67 | 118 | | | | |
| Surr: 4-Bromofluorobenzene | 25.790 | | 25.00 | | 103 | 81 | 119 | | | | |
| Surr: Dibromofluoromethane | 22.670 | | 25.00 | | 90.7 | 77 | 112 | | | | |
| Surr: Toluene-d8 | 24.880 | | 25.00 | | 99.5 | 82 | 116 | | | | |

Sample ID: **A071207MB3MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **82312**
Client ID: **ZZZZZZ** Batch ID: **A07VW203** TestNo: **EPA 8260B** Analysis Date: **7/12/2007** SeqNo: **1252496**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Ninyo & Moore
**Work Order:** 093113
**Project:** Holland Oil, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260_WP_LL**

Sample ID: **A071207MB3MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **82312**
Client ID: **ZZZZZZ** Batch ID: **A07VW203** TestNo: **EPA 8260B** Analysis Date: **7/12/2007** SeqNo: **1252496**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 20.330 | 0.50 | 20.00 | 0 | 102 | 74 | 132 | 20.61 | 1.37 | 30 | |
| Benzene | 19.610 | 0.50 | 20.00 | 0 | 98.0 | 86 | 116 | 20.07 | 2.32 | 30 | |
| Chlorobenzene | 19.500 | 0.50 | 20.00 | 0 | 97.5 | 82 | 115 | 19.68 | 0.919 | 30 | |
| MTBE | 20.050 | 0.50 | 20.00 | 0 | 100 | 71 | 129 | 20.59 | 2.66 | 30 | |
| Toluene | 19.810 | 0.50 | 20.00 | 0 | 99.0 | 88 | 115 | 20.44 | 3.13 | 30 | |
| Trichloroethene | 19.380 | 0.50 | 20.00 | 0 | 96.9 | 86 | 118 | 19.28 | 0.517 | 30 | |
| Surr: 1,2-Dichloroethane-d4 | 20.970 | | 25.00 | | 83.9 | 67 | 118 | | 0 | 30 | |
| Surr: 4-Bromofluorobenzene | 24.240 | | 25.00 | | 97.0 | 81 | 119 | | 0 | 30 | |
| Surr: Dibromofluoromethane | 21.540 | | 25.00 | | 86.2 | 77 | 112 | | 0 | 30 | |
| Surr: Toluene-d8 | 23.320 | | 25.00 | | 93.3 | 82 | 116 | | 0 | 30 | |

Sample ID: **A071207MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **82312**
Client ID: **PBW** Batch ID: **A07VW203** TestNo: **EPA 8260B** Analysis Date: **7/12/2007** SeqNo: **1252497**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.50 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.50 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.50 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.50 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.50 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | | | | | | | | | |
| 1,2-Dibromoethane | ND | 0.50 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.50 | | | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | | | | | | | | | |

Qualifiers:

| | | | | | |
|---|---|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | | Calculations are based on raw values | | |

**CLIENT:** Ninyo & Moore
**Work Order:** 093113
**Project:** Holland Oil, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260_WP_LL**

Sample ID: **A071207MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **82312**
Client ID: **PBW** Batch ID: **A07VW203** TestNo: **EPA 8260B** Analysis Date: **7/12/2007** SeqNo: **1252497**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | ND | 0.50 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.50 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.50 | | | | | | | | | |
| 2,2-Dichloropropane | ND | 0.50 | | | | | | | | | |
| 2-Chlorotoluene | ND | 0.50 | | | | | | | | | |
| 4-Chlorotoluene | ND | 0.50 | | | | | | | | | |
| 4-Isopropyltoluene | ND | 0.50 | | | | | | | | | |
| Benzene | ND | 0.50 | | | | | | | | | |
| Bromobenzene | ND | 0.50 | | | | | | | | | |
| Bromodichloromethane | ND | 0.50 | | | | | | | | | |
| Bromoform | ND | 0.50 | | | | | | | | | |
| Bromomethane | ND | 0.50 | | | | | | | | | |
| Carbon tetrachloride | ND | 0.50 | | | | | | | | | |
| Chlorobenzene | ND | 0.50 | | | | | | | | | |
| Chloroethane | ND | 0.50 | | | | | | | | | |
| Chloroform | ND | 0.50 | | | | | | | | | |
| Chloromethane | ND | 0.50 | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | | | | | | | | | |
| Dibromochloromethane | ND | 0.50 | | | | | | | | | |
| Dibromomethane | ND | 0.50 | | | | | | | | | |
| Dichlorodifluoromethane | ND | 0.50 | | | | | | | | | |
| Ethylbenzene | ND | 0.50 | | | | | | | | | |
| Hexachlorobutadiene | ND | 0.50 | | | | | | | | | |
| Isopropylbenzene | ND | 0.50 | | | | | | | | | |
| m,p-Xylene | ND | 1.0 | | | | | | | | | |
| Methylene chloride | ND | 1.0 | | | | | | | | | |
| MTBE | ND | 0.50 | | | | | | | | | |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
  Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Ninyo & Moore
**Work Order:** 093113
**Project:** Holland Oil, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260_WP_LL**

Sample ID: **A071207MB3** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **82312**
Client ID: **PBW** Batch ID: **A07VW203** TestNo: **EPA 8260B** Analysis Date: **7/12/2007** SeqNo: **1252497**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| n-Butylbenzene | ND | 0.50 | | | | | | | | | |
| n-Propylbenzene | ND | 0.50 | | | | | | | | | |
| Naphthalene | ND | 0.50 | | | | | | | | | |
| o-Xylene | ND | 0.50 | | | | | | | | | |
| sec-Butylbenzene | ND | 0.50 | | | | | | | | | |
| Styrene | ND | 0.50 | | | | | | | | | |
| tert-Butylbenzene | ND | 0.50 | | | | | | | | | |
| Tetrachloroethene | ND | 0.50 | | | | | | | | | |
| Toluene | ND | 0.50 | | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | | | | | | | | | |
| Trichloroethene | ND | 0.50 | | | | | | | | | |
| Trichlorofluoromethane | ND | 0.50 | | | | | | | | | |
| Vinyl chloride | ND | 0.50 | | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 20.940 | | 25.00 | | 83.8 | 67 | 118 | | | | |
| Surr: 4-Bromofluorobenzene | 23.570 | | 25.00 | | 94.3 | 81 | 119 | | | | |
| Surr: Dibromofluoromethane | 21.240 | | 25.00 | | 85.0 | 77 | 112 | | | | |
| Surr: Toluene-d8 | 23.230 | | 25.00 | | 92.9 | 82 | 116 | | | | |

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
  Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Ninyo & Moore
**Work Order:** 093113
**Project:** Holland Oil, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260_WP_LL**

Sample ID: **Q071107LC1** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **82195**
Client ID: **LCSW** Batch ID: **Q07VW0105** TestNo: **EPA 8260B** Analysis Date: **7/11/2007** SeqNo: **1249960**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 21.440 | 0.50 | 20.00 | 0 | 107 | 74 | 132 | | | | |
| Benzene | 20.500 | 0.50 | 20.00 | 0 | 103 | 86 | 116 | | | | |
| Chlorobenzene | 18.990 | 0.50 | 20.00 | 0 | 95.0 | 82 | 115 | | | | |
| MTBE | 18.610 | 0.50 | 20.00 | 0 | 93.0 | 71 | 129 | | | | |
| Toluene | 20.290 | 0.50 | 20.00 | 0 | 101 | 88 | 115 | | | | |
| Trichloroethene | 20.570 | 0.50 | 20.00 | 0 | 103 | 86 | 118 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 20.490 | | 25.00 | | 82.0 | 67 | 118 | | | | |
| Surr: 4-Bromofluorobenzene | 21.260 | | 25.00 | | 85.0 | 81 | 119 | | | | |
| Surr: Dibromofluoromethane | 21.700 | | 25.00 | | 86.8 | 77 | 112 | | | | |
| Surr: Toluene-d8 | 22.590 | | 25.00 | | 90.4 | 82 | 116 | | | | |

Sample ID: **Q071107MB2MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **82195**
Client ID: **ZZZZZZ** Batch ID: **Q07VW0105** TestNo: **EPA 8260B** Analysis Date: **7/11/2007** SeqNo: **1249961**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 21.160 | 0.50 | 20.00 | 0 | 106 | 74 | 132 | | | | |
| Benzene | 20.550 | 0.50 | 20.00 | 0 | 103 | 86 | 116 | | | | |
| Chlorobenzene | 20.410 | 0.50 | 20.00 | 0 | 102 | 82 | 115 | | | | |
| MTBE | 19.030 | 0.50 | 20.00 | 0 | 95.2 | 71 | 129 | | | | |
| Toluene | 20.310 | 0.50 | 20.00 | 0 | 102 | 88 | 115 | | | | |
| Trichloroethene | 20.400 | 0.50 | 20.00 | 0 | 102 | 86 | 118 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 21.200 | | 25.00 | | 84.8 | 67 | 118 | | | | |
| Surr: 4-Bromofluorobenzene | 22.720 | | 25.00 | | 90.9 | 81 | 119 | | | | |
| Surr: Dibromofluoromethane | 22.040 | | 25.00 | | 88.2 | 77 | 112 | | | | |
| Surr: Toluene-d8 | 22.600 | | 25.00 | | 90.4 | 82 | 116 | | | | |

Sample ID: **Q071107MB2MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **82195**
Client ID: **ZZZZZZ** Batch ID: **Q07VW0105** TestNo: **EPA 8260B** Analysis Date: **7/11/2007** SeqNo: **1249962**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Ninyo & Moore
**Work Order:** 093113
**Project:** Holland Oil, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260_WP_LL**

| Sample ID: Q071107MB2MSD | SampType: MSD | TestCode: 8260_WP_LL | Units: µg/L | Prep Date: | RunNo: 82195 |
|---|---|---|---|---|---|
| Client ID: ZZZZZZ | Batch ID: Q07VW0105 | TestNo: EPA 8260B | | Analysis Date: 7/11/2007 | SeqNo: 1249962 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 22.640 | 0.50 | 20.00 | 0 | 113 | 74 | 132 | 21.16 | 6.76 | 30 | |
| Benzene | 21.010 | 0.50 | 20.00 | 0 | 105 | 86 | 116 | 20.55 | 2.21 | 30 | |
| Chlorobenzene | 19.720 | 0.50 | 20.00 | 0 | 98.6 | 82 | 115 | 20.41 | 3.44 | 30 | |
| MTBE | 19.790 | 0.50 | 20.00 | 0 | 99.0 | 71 | 129 | 19.03 | 3.92 | 30 | |
| Toluene | 20.790 | 0.50 | 20.00 | 0 | 104 | 88 | 115 | 20.31 | 2.34 | 30 | |
| Trichloroethene | 20.880 | 0.50 | 20.00 | 0 | 104 | 86 | 118 | 20.40 | 2.33 | 30 | |
| Surr: 1,2-Dichloroethane-d4 | 21.740 | | 25.00 | | 87.0 | 67 | 118 | | 0 | 30 | |
| Surr: 4-Bromofluorobenzene | 21.750 | | 25.00 | | 87.0 | 81 | 119 | | 0 | 30 | |
| Surr: Dibromofluoromethane | 22.070 | | 25.00 | | 88.3 | 77 | 112 | | 0 | 30 | |
| Surr: Toluene-d8 | 22.760 | | 25.00 | | 91.0 | 82 | 116 | | 0 | 30 | |

| Sample ID: Q071107MB2 | SampType: MBLK | TestCode: 8260_WP_LL | Units: µg/L | Prep Date: | RunNo: 82195 |
|---|---|---|---|---|---|
| Client ID: PBW | Batch ID: Q07VW0105 | TestNo: EPA 8260B | | Analysis Date: 7/11/2007 | SeqNo: 1249963 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.50 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.50 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.50 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.50 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.50 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | | | | | | | | | |
| 1,2-Dibromoethane | ND | 0.50 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.50 | | | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | | | | | | | | | |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Ninyo & Moore
**Work Order:** 093113
**Project:** Holland Oil, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260_WP_LL**

Sample ID: **Q071107MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **82195**
Client ID: **PBW** Batch ID: **Q07VW0105** TestNo: **EPA 8260B** Analysis Date: **7/11/2007** SeqNo: **1249963**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | ND | 0.50 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.50 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.50 | | | | | | | | | |
| 2,2-Dichloropropane | ND | 0.50 | | | | | | | | | |
| 2-Chlorotoluene | ND | 0.50 | | | | | | | | | |
| 4-Chlorotoluene | ND | 0.50 | | | | | | | | | |
| 4-Isopropyltoluene | ND | 0.50 | | | | | | | | | |
| Benzene | ND | 0.50 | | | | | | | | | |
| Bromobenzene | ND | 0.50 | | | | | | | | | |
| Bromodichloromethane | ND | 0.50 | | | | | | | | | |
| Bromoform | ND | 0.50 | | | | | | | | | |
| Bromomethane | ND | 0.50 | | | | | | | | | |
| Carbon tetrachloride | ND | 0.50 | | | | | | | | | |
| Chlorobenzene | ND | 0.50 | | | | | | | | | |
| Chloroethane | ND | 0.50 | | | | | | | | | |
| Chloroform | ND | 0.50 | | | | | | | | | |
| Chloromethane | ND | 0.50 | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | | | | | | | | | |
| Dibromochloromethane | ND | 0.50 | | | | | | | | | |
| Dibromomethane | ND | 0.50 | | | | | | | | | |
| Dichlorodifluoromethane | ND | 0.50 | | | | | | | | | |
| Ethylbenzene | ND | 0.50 | | | | | | | | | |
| Hexachlorobutadiene | ND | 0.50 | | | | | | | | | |
| Isopropylbenzene | ND | 0.50 | | | | | | | | | |
| m,p-Xylene | ND | 1.0 | | | | | | | | | |
| Methylene chloride | ND | 1.0 | | | | | | | | | |
| MTBE | ND | 0.50 | | | | | | | | | |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
  Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Ninyo & Moore
**Work Order:** 093113
**Project:** Holland Oil, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260_WP_LL**

| Sample ID: Q071107MB2 | SampType: MBLK | TestCode: 8260_WP_LL | Units: µg/L | Prep Date: | RunNo: 82195 |
|---|---|---|---|---|---|
| Client ID: PBW | Batch ID: Q07VW0105 | TestNo: EPA 8260B | | Analysis Date: 7/11/2007 | SeqNo: 1249963 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| n-Butylbenzene | ND | 0.50 | | | | | | | | | |
| n-Propylbenzene | ND | 0.50 | | | | | | | | | |
| Naphthalene | ND | 0.50 | | | | | | | | | |
| o-Xylene | ND | 0.50 | | | | | | | | | |
| sec-Butylbenzene | ND | 0.50 | | | | | | | | | |
| Styrene | ND | 0.50 | | | | | | | | | |
| tert-Butylbenzene | ND | 0.50 | | | | | | | | | |
| Tetrachloroethene | ND | 0.50 | | | | | | | | | |
| Toluene | ND | 0.50 | | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | | | | | | | | | |
| Trichloroethene | ND | 0.50 | | | | | | | | | |
| Trichlorofluoromethane | ND | 0.50 | | | | | | | | | |
| Vinyl chloride | ND | 0.50 | | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 21.830 | | 25.00 | | 87.3 | 67 | 118 | | | | |
| Surr: 4-Bromofluorobenzene | 21.330 | | 25.00 | | 85.3 | 81 | 119 | | | | |
| Surr: Dibromofluoromethane | 22.400 | | 25.00 | | 89.6 | 77 | 112 | | | | |
| Surr: Toluene-d8 | 22.640 | | 25.00 | | 90.6 | 82 | 116 | | | | |

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
  Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Ninyo & Moore
**Work Order:** 093113
**Project:** Holland Oil, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8270_W_SIM**

Sample ID: **MB-37928** SampType: **MBLK** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **7/16/2007** RunNo: **82391**
Client ID: **PBW** Batch ID: **37928** TestNo: **EPA 8270C** **EPA 3510C** Analysis Date: **7/16/2007** SeqNo: **1253302**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 0.20 | | | | | | | | | |
| Acenaphthylene | ND | 0.20 | | | | | | | | | |
| Anthracene | ND | 0.20 | | | | | | | | | |
| Benzo(a)anthracene | 0.058 | 0.20 | | | | | | | | | |
| Benzo(a)pyrene | 0.061 | 0.20 | | | | | | | | | |
| Benzo(b)fluoranthene | 0.077 | 0.20 | | | | | | | | | |
| Benzo(g,h,i)perylene | 0.085 | 0.20 | | | | | | | | | |
| Benzo(k)fluoranthene | 0.076 | 0.20 | | | | | | | | | |
| Chrysene | 0.083 | 0.20 | | | | | | | | | |
| Dibenz(a,h)anthracene | 0.082 | 0.20 | | | | | | | | | |
| Fluoranthene | 0.031 | 0.20 | | | | | | | | | |
| Fluorene | ND | 0.20 | | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | 0.084 | 0.20 | | | | | | | | | |
| Naphthalene | ND | 0.20 | | | | | | | | | |
| Phenanthrene | ND | 0.20 | | | | | | | | | |
| Pyrene | 0.029 | 0.20 | | | | | | | | | |
| Surr: 1,2-Dichlorobenzene-d4 | 0.353 | | 0.5000 | | 70.5 | 35 | 101 | | | | |
| Surr: 2-Fluorobiphenyl | 0.363 | | 0.5000 | | 72.7 | 43 | 110 | | | | |
| Surr: 4-Terphenyl-d14 | 0.527 | | 0.5000 | | 105 | 46 | 133 | | | | |
| Surr: Nitrobenzene-d5 | 0.341 | | 0.5000 | | 68.3 | 38 | 117 | | | | |

Sample ID: **LCS-37928** SampType: **LCS** TestCode: **8270_W_SIM** Units: **µg/L** Prep Date: **7/16/2007** RunNo: **82391**
Client ID: **LCSW** Batch ID: **37928** TestNo: **EPA 8270C** **EPA 3510C** Analysis Date: **7/16/2007** SeqNo: **1253303**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.408 | 0.20 | 0.5000 | 0 | 81.6 | 50 | 150 | | | | |
| Phenanthrene | 0.419 | 0.20 | 0.5000 | 0 | 83.9 | 50 | 150 | | | | |
| Pyrene | 0.441 | 0.20 | 0.5000 | 0.02852 | 82.5 | 50 | 150 | | | | |
| Surr: 1,2-Dichlorobenzene-d4 | 0.396 | | 0.5000 | | 79.3 | 35 | 101 | | | | |
| Surr: 2-Fluorobiphenyl | 0.391 | | 0.5000 | | 78.2 | 43 | 110 | | | | |

**Qualifiers:**

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Ninyo & Moore
**Work Order:** 093113
**Project:** Holland Oil, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8270_W_SIM**

| Sample ID: LCS-37928 | SampType: LCS | TestCode: 8270_W_SIM | Units: µg/L | Prep Date: 7/16/2007 | RunNo: 82391 |
|---|---|---|---|---|---|
| Client ID: LCSW | Batch ID: 37928 | TestNo: EPA 8270C | EPA 3510C | Analysis Date: 7/16/2007 | SeqNo: 1253303 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Surr: 4-Terphenyl-d14 | 0.473 | | 0.5000 | | 94.5 | 46 | 133 | | | | |
| Surr: Nitrobenzene-d5 | 0.375 | | 0.5000 | | 75.0 | 38 | 117 | | | | |

| Sample ID: MB-37928MS | SampType: MS | TestCode: 8270_W_SIM | Units: µg/L | Prep Date: 7/16/2007 | RunNo: 82391 |
|---|---|---|---|---|---|
| Client ID: ZZZZZZ | Batch ID: 37928 | TestNo: EPA 8270C | EPA 3510C | Analysis Date: 7/16/2007 | SeqNo: 1253304 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.418 | 0.20 | 0.5000 | 0 | 83.6 | 50 | 150 | | | | |
| Phenanthrene | 0.454 | 0.20 | 0.5000 | 0 | 90.8 | 50 | 150 | | | | |
| Pyrene | 0.480 | 0.20 | 0.5000 | 0.02852 | 90.3 | 50 | 150 | | | | |
| Surr: 1,2-Dichlorobenzene-d4 | 0.341 | | 0.5000 | | 68.2 | 35 | 101 | | | | |
| Surr: 2-Fluorobiphenyl | 0.341 | | 0.5000 | | 68.2 | 43 | 110 | | | | |
| Surr: 4-Terphenyl-d14 | 0.412 | | 0.5000 | | 82.3 | 46 | 133 | | | | |
| Surr: Nitrobenzene-d5 | 0.320 | | 0.5000 | | 64.0 | 38 | 117 | | | | |

| Sample ID: MB-37928MSD | SampType: MSD | TestCode: 8270_W_SIM | Units: µg/L | Prep Date: 7/16/2007 | RunNo: 82391 |
|---|---|---|---|---|---|
| Client ID: ZZZZZZ | Batch ID: 37928 | TestNo: EPA 8270C | EPA 3510C | Analysis Date: 7/16/2007 | SeqNo: 1253305 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.422 | 0.20 | 0.5000 | 0 | 84.3 | 50 | 150 | 0.4182 | 0.812 | 30 | |
| Phenanthrene | 0.462 | 0.20 | 0.5000 | 0 | 92.4 | 50 | 150 | 0.4542 | 1.70 | 30 | |
| Pyrene | 0.503 | 0.20 | 0.5000 | 0.02852 | 94.9 | 50 | 150 | 0.4799 | 4.67 | 30 | |
| Surr: 1,2-Dichlorobenzene-d4 | 0.370 | | 0.5000 | | 74.0 | 35 | 101 | | 0 | 0 | |
| Surr: 2-Fluorobiphenyl | 0.388 | | 0.5000 | | 77.5 | 43 | 110 | | 0 | 0 | |
| Surr: 4-Terphenyl-d14 | 0.489 | | 0.5000 | | 97.9 | 46 | 133 | | 0 | 0 | |
| Surr: Nitrobenzene-d5 | 0.357 | | 0.5000 | | 71.5 | 38 | 117 | | 0 | 0 | |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
  Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

# CHAIN OF CUSTODY RECORD

Pg 1 of 1


Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
(562) 989-4045 • Fax (562) 989-4040


**FOR LABORATORY USE ONLY:**

P.O.#: _____

Logged By: _____ Date: 7/10/07

Method of Transport: Client ☐ ATL ☐ CA OverN ☑ FEDEX ☐ Other: _____

Sample Condition Upon Receipt:
1. CHILLED 5.2 Y☑ N☐ 4. SEALED Y☐ N☐
2. HEADSPACE (VOA) Y☐ N☐ 5. # OF SPLS MATCH COC Y☐ N☐
3. CONTAINER INTACT Y☐ N☐ 6. PRESERVED Y☐ N☐

Client: Ninyo & Moore
Attn: Cem Atabek
Address: 1956 Webster St.
City Oakland State CA Zip Code 94612
TEL: (510) 633-5640
FAX: (510) 633-5692

Project Name: Holland Oil Project #: 401314001 Sampler: (Printed Name) Cem Atabek (Signature)

| | | | | | |
|---|---|---|---|---|---|
| Relinquished by: (Signature and Printed Name) Cem Atabek | Date: 7/9/07 | Time: 5:27 | Received by: (Signature and Printed Name) | Date: 7-9-07 | Time: 527 |
| Relinquished by: (Signature and Printed Name) | Date: | Time: | Received by: (Signature and Printed Name) | Date: 7/10/07 | Time: 0950 |
| Relinquished by: (Signature and Printed Name) | Date: | Time: | Received by: (Signature and Printed Name) | Date: | Time: |

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Cem Atabek 7/9/07
Print Name Date
Signature

Send Report To:
Attn: Cem Atabek
Co: Ninyo & Moore
Address: See above
City _____ State _____ Zip _____

Bill To:
Attn: Same
Co: _____
Address _____
City _____ State _____ Zip _____

Special Instructions/Comments:
* test for VOCs, BTEX, MTBE, ethylene dibromide, ethylene dichloride, HVOCs
- 1 extra 1L amber and 1 extra 40ml VOA w/ HCl included.

**Sample/Records - Archival & Disposal**
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

**Storage Fees (applies when storage is requested):**
- Sample : $2.00 / sample / mo (after 45 days)
- Records : $1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX: SOIL | WATER | GROUND WATER | WASTEWATER

PRESERVATION

Q A / Q C: RTNE ☐ CT ☐ SWRCB ☐ Logcode ____ OTHER ____

| ITEM | LAB USE ONLY: Batch #: / Lab No. | Sample Description: Sample I.D. / Location | Date | Time | 8015A (Pesticides) | 8082 (PCB) | 8260B (Volatiles) | 8270C SIM (PAHs) | 6010B (Total Metals) | 8015B (DRO) + Kerosene | 8015B (DRO) | 8021 (BTEX) | TITLE 22 (GAM) 17 (8010 / 7000) | Container(s) TAT | # | Type | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 093113-1 | MW-8-GW | 7/9/07 | 12:50 | | | 3 | X | 3 | X | | | | X | E | | |
| | -2 | MW-6-GW | | 3:45 | | | | | | | | | | | | | |
| | -3 | MW-2-GW | | 5:15 | | | | | | | | | | | | | |

- TAT starts 8 a.m. following day if samples received after 3 p.m.

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

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

Preservatives: H=HCl N=$HNO_3$ S=$H_2SO_4$ C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.

July 17, 2007

Cem Atabek
Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612
TEL: (510) 633-5640
FAX: (510) 633-5646

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
Arizona: AZ0689
CSDLAC No.: 10196
Workorder No.: 093131

RE: Holland Oil, 401314001

Attention: Cem Atabek

Enclosed are the results for sample(s) received on July 11, 2007 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director





*Advanced Technology Laboratories* *3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040*

**CLIENT:** Ninyo & Moore
**Project:** Holland Oil, 401314001
**Lab Order:** 093131

## CASE NARRATIVE

Analytical Comments for EPA 8015 (Kerosene)

Samples 093131-001C, 093131-002C, 093131-003C, 093131-004C, 093131-005C: Sample contains hydrocarbons within the kerosene range that do not match the kerosene pattern. Quantitation was based on kerosene standard.

| | | | |
|---|---|---|---|
| **CLIENT:** | Ninyo & Moore | **Client Sample ID:** | MW-4-GW |
| **Lab Order:** | 093131 | **Collection Date:** | 7/10/2007 10:15:00 AM |
| **Project:** | Holland Oil, 401314001 | **Matrix:** | GROUND WATER |
| **Lab ID:** | 093131-001 | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3510C** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070713A | QC Batch: 37913 | | | PrepDate | 7/13/2007 | Analyst: **CBR** |
| DRO | 0.71 | 0.050 | | mg/L | 1 | 7/13/2007 03:49 PM |
| Surr: p-Terphenyl | 78.6 | 24-115 | | %REC | 1 | 7/13/2007 03:49 PM |
| **KEROSENE BY GC/FID** | | | | | | |
| | **EPA 3510C** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070713A | QC Batch: 37913 | | | PrepDate | 7/13/2007 | Analyst: **CBR** |
| Kerosene | 0.40 | 0.050 | | mg/L | 1 | 7/13/2007 03:49 PM |
| Surr: p-Terphenyl | 87.3 | 24-115 | | %REC | 1 | 7/13/2007 03:49 PM |
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| | | | | **EPA 8015B(M)** | | |
| RunID: GC6_070711A | QC Batch: I07VW164 | | | PrepDate | | Analyst: **EA** |
| GRO | 0.67 | 0.050 | | mg/L | 1 | 7/11/2007 02:36 PM |
| Surr: Bromofluorobenzene (FID) | 97.9 | 70-129 | | %REC | 1 | 7/11/2007 02:36 PM |
| **SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM** | | | | | | |
| | **EPA 3510C** | | | **EPA 8270C** | | |
| RunID: MS6_070716A | QC Batch: 37928 | | | PrepDate | 7/16/2007 | Analyst: **MFR** |
| Acenaphthene | ND | 0.20 | | µg/L | 1 | 7/17/2007 10:13 AM |
| Acenaphthylene | ND | 0.20 | | µg/L | 1 | 7/17/2007 10:13 AM |
| Anthracene | ND | 0.20 | | µg/L | 1 | 7/17/2007 10:13 AM |
| Benzo(a)anthracene | ND | 0.20 | | µg/L | 1 | 7/17/2007 10:13 AM |
| Benzo(a)pyrene | ND | 0.20 | | µg/L | 1 | 7/17/2007 10:13 AM |
| Benzo(b)fluoranthene | ND | 0.20 | | µg/L | 1 | 7/17/2007 10:13 AM |
| Benzo(g,h,i)perylene | ND | 0.20 | | µg/L | 1 | 7/17/2007 10:13 AM |
| Benzo(k)fluoranthene | ND | 0.20 | | µg/L | 1 | 7/17/2007 10:13 AM |
| Chrysene | ND | 0.20 | | µg/L | 1 | 7/17/2007 10:13 AM |
| Dibenz(a,h)anthracene | ND | 0.20 | | µg/L | 1 | 7/17/2007 10:13 AM |
| Fluoranthene | ND | 0.20 | | µg/L | 1 | 7/17/2007 10:13 AM |
| Fluorene | ND | 0.20 | | µg/L | 1 | 7/17/2007 10:13 AM |
| Indeno(1,2,3-cd)pyrene | ND | 0.20 | | µg/L | 1 | 7/17/2007 10:13 AM |
| Naphthalene | ND | 0.20 | | µg/L | 1 | 7/17/2007 10:13 AM |
| Phenanthrene | ND | 0.20 | | µg/L | 1 | 7/17/2007 10:13 AM |
| Pyrene | ND | 0.20 | | µg/L | 1 | 7/17/2007 10:13 AM |
| Surr: 1,2-Dichlorobenzene-d4 | 70.3 | 35-101 | | %REC | 1 | 7/17/2007 10:13 AM |
| Surr: 2-Fluorobiphenyl | 54.4 | 43-110 | | %REC | 1 | 7/17/2007 10:13 AM |
| Surr: 4-Terphenyl-d14 | 75.4 | 46-133 | | %REC | 1 | 7/17/2007 10:13 AM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

| | | | |
|---|---|---|---|
| **CLIENT:** | Ninyo & Moore | **Client Sample ID:** | MW-4-GW |
| **Lab Order:** | 093131 | **Collection Date:** | 7/10/2007 10:15:00 AM |
| **Project:** | Holland Oil, 401314001 | **Matrix:** | GROUND WATER |
| **Lab ID:** | 093131-001 | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM** | | | | | | |
| | **EPA 3510C** | | | **EPA 8270C** | | |
| RunID: MS6_070716A | QC Batch: 37928 | | | PrepDate | 7/16/2007 | Analyst: **MFR** |
| Surr: Nitrobenzene-d5 | 56.9 | 38-117 | | %REC | 1 | 7/17/2007 10:13 AM |
| **VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | |
| | | | | **EPA 8260B** | | |
| RunID: MS11_070712A | QC Batch: A07VW203 | | | PrepDate | | Analyst: **TT** |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| 1,1,1-Trichloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| 1,1,2-Trichloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| 1,1-Dichloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| 1,1-Dichloroethene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| 1,1-Dichloropropene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| 1,2,3-Trichlorobenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| 1,2,3-Trichloropropane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| 1,2,4-Trichlorobenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| 1,2,4-Trimethylbenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| 1,2-Dibromoethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| 1,2-Dichlorobenzene | 0.51 | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| 1,2-Dichloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| 1,2-Dichloropropane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| 1,3,5-Trimethylbenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| 1,3-Dichlorobenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| 1,3-Dichloropropane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| 1,4-Dichlorobenzene | 0.51 | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| 2,2-Dichloropropane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| 2-Chlorotoluene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| 4-Chlorotoluene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| 4-Isopropyltoluene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| Benzene | 3.7 | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| Bromobenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| Bromodichloromethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| Bromoform | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| Bromomethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| Carbon tetrachloride | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| Chlorobenzene | 1.7 | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| Chloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

| | | | |
|---|---|---|---|
| **CLIENT:** | Ninyo & Moore | **Client Sample ID:** | MW-4-GW |
| **Lab Order:** | 093131 | **Collection Date:** | 7/10/2007 10:15:00 AM |
| **Project:** | Holland Oil, 401314001 | **Matrix:** | GROUND WATER |
| **Lab ID:** | 093131-001 | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | **EPA 8260B** | | |
| RunID: MS11_070712A | QC Batch: A07VW203 | | | PrepDate | | Analyst: **TT** |
| Chloroform | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| Chloromethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| cis-1,2-Dichloroethene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| cis-1,3-Dichloropropene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| Dibromochloromethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| Dibromomethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| Dichlorodifluoromethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| Ethylbenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| Hexachlorobutadiene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| Isopropylbenzene | 20 | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| m,p-Xylene | ND | 1.0 | | µg/L | 1 | 7/12/2007 05:42 PM |
| Methylene chloride | ND | 1.0 | | µg/L | 1 | 7/12/2007 05:42 PM |
| MTBE | 13 | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| n-Butylbenzene | 7.9 | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| n-Propylbenzene | 42 | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| Naphthalene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| o-Xylene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| sec-Butylbenzene | 12 | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| Styrene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| tert-Butylbenzene | 1.2 | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| Tetrachloroethene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| Toluene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| trans-1,2-Dichloroethene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| Trichloroethene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| Trichlorofluoromethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| Vinyl chloride | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:42 PM |
| Surr: 1,2-Dichloroethane-d4 | 86.7 | 67-118 | | %REC | 1 | 7/12/2007 05:42 PM |
| Surr: 4-Bromofluorobenzene | 106 | 81-119 | | %REC | 1 | 7/12/2007 05:42 PM |
| Surr: Dibromofluoromethane | 86.5 | 77-112 | | %REC | 1 | 7/12/2007 05:42 PM |
| Surr: Toluene-d8 | 99.8 | 82-116 | | %REC | 1 | 7/12/2007 05:42 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

| | | | |
|---|---|---|---|
| **CLIENT:** | Ninyo & Moore | **Client Sample ID:** | MW-1-GW |
| **Lab Order:** | 093131 | **Collection Date:** | 7/10/2007 12:00:00 PM |
| **Project:** | Holland Oil, 401314001 | **Matrix:** | GROUND WATER |
| **Lab ID:** | 093131-002 | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3510C** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070713A | QC Batch: 37913 | | | PrepDate | 7/13/2007 | Analyst: **CBR** |
| DRO | 1.1 | 0.050 | | mg/L | 1 | 7/13/2007 04:17 PM |
| Surr: p-Terphenyl | 77.8 | 24-115 | | %REC | 1 | 7/13/2007 04:17 PM |
| **KEROSENE BY GC/FID** | | | | | | |
| | **EPA 3510C** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070713A | QC Batch: 37913 | | | PrepDate | 7/13/2007 | Analyst: **CBR** |
| Kerosene | 0.80 | 0.050 | | mg/L | 1 | 7/13/2007 04:17 PM |
| Surr: p-Terphenyl | 84.6 | 24-115 | | %REC | 1 | 7/13/2007 04:17 PM |
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| | | | | **EPA 8015B(M)** | | |
| RunID: GC6_070711A | QC Batch: I07VW164 | | | PrepDate | | Analyst: **EA** |
| GRO | 1.7 | 0.050 | | mg/L | 1 | 7/11/2007 04:22 PM |
| Surr: Bromofluorobenzene (FID) | 115 | 70-129 | | %REC | 1 | 7/11/2007 04:22 PM |
| **SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM** | | | | | | |
| | **EPA 3510C** | | | **EPA 8270C** | | |
| RunID: MS6_070716A | QC Batch: 37928 | | | PrepDate | 7/16/2007 | Analyst: **MFR** |
| Acenaphthene | 0.52 | 0.20 | | µg/L | 1 | 7/17/2007 10:46 AM |
| Acenaphthylene | ND | 0.20 | | µg/L | 1 | 7/17/2007 10:46 AM |
| Anthracene | ND | 0.20 | | µg/L | 1 | 7/17/2007 10:46 AM |
| Benzo(a)anthracene | ND | 0.20 | | µg/L | 1 | 7/17/2007 10:46 AM |
| Benzo(a)pyrene | ND | 0.20 | | µg/L | 1 | 7/17/2007 10:46 AM |
| Benzo(b)fluoranthene | ND | 0.20 | | µg/L | 1 | 7/17/2007 10:46 AM |
| Benzo(g,h,i)perylene | ND | 0.20 | | µg/L | 1 | 7/17/2007 10:46 AM |
| Benzo(k)fluoranthene | ND | 0.20 | | µg/L | 1 | 7/17/2007 10:46 AM |
| Chrysene | ND | 0.20 | | µg/L | 1 | 7/17/2007 10:46 AM |
| Dibenz(a,h)anthracene | ND | 0.20 | | µg/L | 1 | 7/17/2007 10:46 AM |
| Fluoranthene | ND | 0.20 | | µg/L | 1 | 7/17/2007 10:46 AM |
| Fluorene | 0.63 | 0.20 | | µg/L | 1 | 7/17/2007 10:46 AM |
| Indeno(1,2,3-cd)pyrene | ND | 0.20 | | µg/L | 1 | 7/17/2007 10:46 AM |
| Naphthalene | ND | 0.20 | | µg/L | 1 | 7/17/2007 10:46 AM |
| Phenanthrene | ND | 0.20 | | µg/L | 1 | 7/17/2007 10:46 AM |
| Pyrene | ND | 0.20 | | µg/L | 1 | 7/17/2007 10:46 AM |
| Surr: 1,2-Dichlorobenzene-d4 | 56.4 | 35-101 | | %REC | 1 | 7/17/2007 10:46 AM |
| Surr: 2-Fluorobiphenyl | 71.5 | 43-110 | | %REC | 1 | 7/17/2007 10:46 AM |
| Surr: 4-Terphenyl-d14 | 66.8 | 46-133 | | %REC | 1 | 7/17/2007 10:46 AM |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- E Value above quantitation range
- ND Not Detected at the Reporting Limit

Results are wet unless otherwise specified

| | | | |
|---|---|---|---|
| **CLIENT:** | Ninyo & Moore | **Client Sample ID:** | MW-1-GW |
| **Lab Order:** | 093131 | **Collection Date:** | 7/10/2007 12:00:00 PM |
| **Project:** | Holland Oil, 401314001 | **Matrix:** | GROUND WATER |
| **Lab ID:** | 093131-002 | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM** | | | | | | |
| | **EPA 3510C** | | | **EPA 8270C** | | |
| RunID: MS6_070716A | QC Batch: 37928 | | | PrepDate | 7/16/2007 | Analyst: **MFR** |
| Surr: Nitrobenzene-d5 | 73.7 | 38-117 | | %REC | 1 | 7/17/2007 10:46 AM |
| **VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | |
| | | | | **EPA 8260B** | | |
| RunID: MS11_070712A | QC Batch: A07VW203 | | | PrepDate | | Analyst: **TT** |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| 1,1,1-Trichloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| 1,1,2-Trichloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| 1,1-Dichloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| 1,1-Dichloroethene | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| 1,1-Dichloropropene | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| 1,2,3-Trichlorobenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| 1,2,3-Trichloropropane | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| 1,2,4-Trichlorobenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| 1,2,4-Trimethylbenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| 1,2-Dibromoethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| 1,2-Dichlorobenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| 1,2-Dichloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| 1,2-Dichloropropane | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| 1,3,5-Trimethylbenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| 1,3-Dichlorobenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| 1,3-Dichloropropane | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| 1,4-Dichlorobenzene | 0.51 | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| 2,2-Dichloropropane | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| 2-Chlorotoluene | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| 4-Chlorotoluene | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| 4-Isopropyltoluene | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| Benzene | 3.0 | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| Bromobenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| Bromodichloromethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| Bromoform | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| Bromomethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| Carbon tetrachloride | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| Chlorobenzene | 0.84 | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| Chloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

## Advanced Technology Laboratories

# ANALYTICAL RESULTS

**Print Date:** *17-Jul-07*

| | | | |
|---|---|---|---|
| **CLIENT:** | Ninyo & Moore | **Client Sample ID:** | MW-1-GW |
| **Lab Order:** | 093131 | **Collection Date:** | 7/10/2007 12:00:00 PM |
| **Project:** | Holland Oil, 401314001 | **Matrix:** | GROUND WATER |
| **Lab ID:** | 093131-002 | | |

**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID: MS11_070712A QC Batch: A07VW203 PrepDate Analyst: TT

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| Chloroform | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| Chloromethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| cis-1,2-Dichloroethene | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| cis-1,3-Dichloropropene | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| Dibromochloromethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| Dibromomethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| Dichlorodifluoromethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| Ethylbenzene | 1.3 | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| Hexachlorobutadiene | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| Isopropylbenzene | 51 | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| m,p-Xylene | ND | 1.0 | | µg/L | 1 | 7/12/2007 06:06 PM |
| Methylene chloride | ND | 1.0 | | µg/L | 1 | 7/12/2007 06:06 PM |
| MTBE | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| n-Butylbenzene | 27 | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| n-Propylbenzene | 130 | 5.0 | | µg/L | 10 | 7/13/2007 10:18 AM |
| Naphthalene | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| o-Xylene | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| sec-Butylbenzene | 25 | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| Styrene | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| tert-Butylbenzene | 1.9 | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| Tetrachloroethene | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| Toluene | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| trans-1,2-Dichloroethene | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| Trichloroethene | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| Trichlorofluoromethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| Vinyl chloride | ND | 0.50 | | µg/L | 1 | 7/12/2007 06:06 PM |
| Surr: 1,2-Dichloroethane-d4 | 84.8 | 67-118 | | %REC | 1 | 7/12/2007 06:06 PM |
| Surr: 1,2-Dichloroethane-d4 | 90.9 | 67-118 | | %REC | 10 | 7/13/2007 10:18 AM |
| Surr: 4-Bromofluorobenzene | 104 | 81-119 | | %REC | 10 | 7/13/2007 10:18 AM |
| Surr: 4-Bromofluorobenzene | 108 | 81-119 | | %REC | 1 | 7/12/2007 06:06 PM |
| Surr: Dibromofluoromethane | 88.6 | 77-112 | | %REC | 1 | 7/12/2007 06:06 PM |
| Surr: Dibromofluoromethane | 92.2 | 77-112 | | %REC | 10 | 7/13/2007 10:18 AM |
| Surr: Toluene-d8 | 99.8 | 82-116 | | %REC | 1 | 7/12/2007 06:06 PM |
| Surr: Toluene-d8 | 100 | 82-116 | | %REC | 10 | 7/13/2007 10:18 AM |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- E Value above quantitation range
- ND Not Detected at the Reporting Limit

Results are wet unless otherwise specified

| | | | |
|---|---|---|---|
| **CLIENT:** | Ninyo & Moore | **Client Sample ID:** | MW-5-GW |
| **Lab Order:** | 093131 | **Collection Date:** | 7/10/2007 1:55:00 PM |
| **Project:** | Holland Oil, 401314001 | **Matrix:** | GROUND WATER |
| **Lab ID:** | 093131-003 | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3510C** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070713A | QC Batch: 37913 | | | PrepDate | 7/13/2007 | Analyst: **CBR** |
| DRO | 0.38 | 0.050 | | mg/L | 1 | 7/13/2007 04:45 PM |
| Surr: p-Terphenyl | 68.1 | 24-115 | | %REC | 1 | 7/13/2007 04:45 PM |
| **KEROSENE BY GC/FID** | | | | | | |
| | **EPA 3510C** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070713A | QC Batch: 37913 | | | PrepDate | 7/13/2007 | Analyst: **CBR** |
| Kerosene | 0.17 | 0.050 | | mg/L | 1 | 7/13/2007 04:45 PM |
| Surr: p-Terphenyl | 74.5 | 24-115 | | %REC | 1 | 7/13/2007 04:45 PM |
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| | | | | **EPA 8015B(M)** | | |
| RunID: GC6_070711A | QC Batch: I07VW164 | | | PrepDate | | Analyst: **EA** |
| GRO | 0.17 | 0.050 | | mg/L | 1 | 7/11/2007 02:09 PM |
| Surr: Bromofluorobenzene (FID) | 124 | 70-129 | | %REC | 1 | 7/11/2007 02:09 PM |
| **SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM** | | | | | | |
| | **EPA 3510C** | | | **EPA 8270C** | | |
| RunID: MS6_070716A | QC Batch: 37928 | | | PrepDate | 7/16/2007 | Analyst: **MFR** |
| Acenaphthene | ND | 0.20 | | µg/L | 1 | 7/16/2007 07:35 PM |
| Acenaphthylene | ND | 0.20 | | µg/L | 1 | 7/16/2007 07:35 PM |
| Anthracene | ND | 0.20 | | µg/L | 1 | 7/16/2007 07:35 PM |
| Benzo(a)anthracene | ND | 0.20 | | µg/L | 1 | 7/16/2007 07:35 PM |
| Benzo(a)pyrene | ND | 0.20 | | µg/L | 1 | 7/16/2007 07:35 PM |
| Benzo(b)fluoranthene | ND | 0.20 | | µg/L | 1 | 7/16/2007 07:35 PM |
| Benzo(g,h,i)perylene | ND | 0.20 | | µg/L | 1 | 7/16/2007 07:35 PM |
| Benzo(k)fluoranthene | ND | 0.20 | | µg/L | 1 | 7/16/2007 07:35 PM |
| Chrysene | ND | 0.20 | | µg/L | 1 | 7/16/2007 07:35 PM |
| Dibenz(a,h)anthracene | ND | 0.20 | | µg/L | 1 | 7/16/2007 07:35 PM |
| Fluoranthene | ND | 0.20 | | µg/L | 1 | 7/16/2007 07:35 PM |
| Fluorene | ND | 0.20 | | µg/L | 1 | 7/16/2007 07:35 PM |
| Indeno(1,2,3-cd)pyrene | ND | 0.20 | | µg/L | 1 | 7/16/2007 07:35 PM |
| Naphthalene | ND | 0.20 | | µg/L | 1 | 7/16/2007 07:35 PM |
| Phenanthrene | ND | 0.20 | | µg/L | 1 | 7/16/2007 07:35 PM |
| Pyrene | ND | 0.20 | | µg/L | 1 | 7/16/2007 07:35 PM |
| Surr: 1,2-Dichlorobenzene-d4 | 74.2 | 35-101 | | %REC | 1 | 7/16/2007 07:35 PM |
| Surr: 2-Fluorobiphenyl | 53.5 | 43-110 | | %REC | 1 | 7/16/2007 07:35 PM |
| Surr: 4-Terphenyl-d14 | 90.9 | 46-133 | | %REC | 1 | 7/16/2007 07:35 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

| | | | |
|---|---|---|---|
| **CLIENT:** | Ninyo & Moore | **Client Sample ID:** | MW-5-GW |
| **Lab Order:** | 093131 | **Collection Date:** | 7/10/2007 1:55:00 PM |
| **Project:** | Holland Oil, 401314001 | **Matrix:** | GROUND WATER |
| **Lab ID:** | 093131-003 | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM** | | | | | | |
| | **EPA 3510C** | | | **EPA 8270C** | | |
| RunID: MS6_070716A | QC Batch: 37928 | | | PrepDate | 7/16/2007 | Analyst: **MFR** |
| Surr: Nitrobenzene-d5 | 60.6 | 38-117 | | %REC | 1 | 7/16/2007 07:35 PM |
| **VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | |
| | | | | **EPA 8260B** | | |
| RunID: MS11_070712A | QC Batch: A07VW203 | | | PrepDate | | Analyst: **TT** |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| 1,1,1-Trichloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| 1,1,2-Trichloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| 1,1-Dichloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| 1,1-Dichloroethene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| 1,1-Dichloropropene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| 1,2,3-Trichlorobenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| 1,2,3-Trichloropropane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| 1,2,4-Trichlorobenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| 1,2,4-Trimethylbenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| 1,2-Dibromoethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| 1,2-Dichlorobenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| 1,2-Dichloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| 1,2-Dichloropropane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| 1,3,5-Trimethylbenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| 1,3-Dichlorobenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| 1,3-Dichloropropane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| 1,4-Dichlorobenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| 2,2-Dichloropropane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| 2-Chlorotoluene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| 4-Chlorotoluene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| 4-Isopropyltoluene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| Benzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| Bromobenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| Bromodichloromethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| Bromoform | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| Bromomethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| Carbon tetrachloride | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| Chlorobenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| Chloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

## Advanced Technology Laboratories

# ANALYTICAL RESULTS

**Print Date:** *17-Jul-07*

| | | | |
|---|---|---|---|
| **CLIENT:** | Ninyo & Moore | **Client Sample ID:** | MW-5-GW |
| **Lab Order:** | 093131 | **Collection Date:** | 7/10/2007 1:55:00 PM |
| **Project:** | Holland Oil, 401314001 | **Matrix:** | GROUND WATER |
| **Lab ID:** | 093131-003 | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | **EPA 8260B** | | |
| RunID: MS11_070712A | QC Batch: A07VW203 | | | PrepDate | | Analyst: TT |
| Chloroform | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| Chloromethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| cis-1,2-Dichloroethene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| cis-1,3-Dichloropropene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| Dibromochloromethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| Dibromomethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| Dichlorodifluoromethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| Ethylbenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| Hexachlorobutadiene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| Isopropylbenzene | 1.8 | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| m,p-Xylene | ND | 1.0 | | µg/L | 1 | 7/12/2007 05:14 PM |
| Methylene chloride | ND | 1.0 | | µg/L | 1 | 7/12/2007 05:14 PM |
| MTBE | 6.9 | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| n-Butylbenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| n-Propylbenzene | 2.3 | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| Naphthalene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| o-Xylene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| sec-Butylbenzene | 0.94 | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| Styrene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| tert-Butylbenzene | 0.51 | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| Tetrachloroethene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| Toluene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| trans-1,2-Dichloroethene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| Trichloroethene | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| Trichlorofluoromethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| Vinyl chloride | ND | 0.50 | | µg/L | 1 | 7/12/2007 05:14 PM |
| Surr: 1,2-Dichloroethane-d4 | 89.2 | 67-118 | | %REC | 1 | 7/12/2007 05:14 PM |
| Surr: 4-Bromofluorobenzene | 101 | 81-119 | | %REC | 1 | 7/12/2007 05:14 PM |
| Surr: Dibromofluoromethane | 90.3 | 77-112 | | %REC | 1 | 7/12/2007 05:14 PM |
| Surr: Toluene-d8 | 98.2 | 82-116 | | %REC | 1 | 7/12/2007 05:14 PM |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- E Value above quantitation range
- ND Not Detected at the Reporting Limit

Results are wet unless otherwise specified

**CLIENT:** Ninyo & Moore
**Lab Order:** 093131
**Project:** Holland Oil, 401314001
**Lab ID:** 093131-004

**Client Sample ID:** MW-7-GW
**Collection Date:** 7/10/2007 4:15:00 PM
**Matrix:** GROUND WATER

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3510C** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070713A | QC Batch: 37913 | | | PrepDate | 7/13/2007 | Analyst: **CBR** |
| DRO | 0.51 | 0.050 | | mg/L | 1 | 7/13/2007 05:12 PM |
| Surr: p-Terphenyl | 79.8 | 24-115 | | %REC | 1 | 7/13/2007 05:12 PM |
| **KEROSENE BY GC/FID** | | | | | | |
| | **EPA 3510C** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070713A | QC Batch: 37913 | | | PrepDate | 7/13/2007 | Analyst: **CBR** |
| Kerosene | 0.091 | 0.050 | | mg/L | 1 | 7/13/2007 05:12 PM |
| Surr: p-Terphenyl | 88.6 | 24-115 | | %REC | 1 | 7/13/2007 05:12 PM |
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| | | | | **EPA 8015B(M)** | | |
| RunID: GC6_070711A | QC Batch: I07VW164 | | | PrepDate | | Analyst: **EA** |
| GRO | ND | 0.050 | | mg/L | 1 | 7/11/2007 01:43 PM |
| Surr: Bromofluorobenzene (FID) | 96.9 | 70-129 | | %REC | 1 | 7/11/2007 01:43 PM |
| **SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM** | | | | | | |
| | **EPA 3510C** | | | **EPA 8270C** | | |
| RunID: MS6_070716A | QC Batch: 37928 | | | PrepDate | 7/16/2007 | Analyst: **MFR** |
| Acenaphthene | ND | 0.20 | | µg/L | 1 | 7/16/2007 08:08 PM |
| Acenaphthylene | ND | 0.20 | | µg/L | 1 | 7/16/2007 08:08 PM |
| Anthracene | ND | 0.20 | | µg/L | 1 | 7/16/2007 08:08 PM |
| Benzo(a)anthracene | ND | 0.20 | | µg/L | 1 | 7/16/2007 08:08 PM |
| Benzo(a)pyrene | ND | 0.20 | | µg/L | 1 | 7/16/2007 08:08 PM |
| Benzo(b)fluoranthene | ND | 0.20 | | µg/L | 1 | 7/16/2007 08:08 PM |
| Benzo(g,h,i)perylene | ND | 0.20 | | µg/L | 1 | 7/16/2007 08:08 PM |
| Benzo(k)fluoranthene | ND | 0.20 | | µg/L | 1 | 7/16/2007 08:08 PM |
| Chrysene | ND | 0.20 | | µg/L | 1 | 7/16/2007 08:08 PM |
| Dibenz(a,h)anthracene | ND | 0.20 | | µg/L | 1 | 7/16/2007 08:08 PM |
| Fluoranthene | ND | 0.20 | | µg/L | 1 | 7/16/2007 08:08 PM |
| Fluorene | ND | 0.20 | | µg/L | 1 | 7/16/2007 08:08 PM |
| Indeno(1,2,3-cd)pyrene | ND | 0.20 | | µg/L | 1 | 7/16/2007 08:08 PM |
| Naphthalene | ND | 0.20 | | µg/L | 1 | 7/16/2007 08:08 PM |
| Phenanthrene | ND | 0.20 | | µg/L | 1 | 7/16/2007 08:08 PM |
| Pyrene | ND | 0.20 | | µg/L | 1 | 7/16/2007 08:08 PM |
| Surr: 1,2-Dichlorobenzene-d4 | 59.4 | 35-101 | | %REC | 1 | 7/16/2007 08:08 PM |
| Surr: 2-Fluorobiphenyl | 57.2 | 43-110 | | %REC | 1 | 7/16/2007 08:08 PM |
| Surr: 4-Terphenyl-d14 | 78.5 | 46-133 | | %REC | 1 | 7/16/2007 08:08 PM |

**Qualifiers:**
- B — Analyte detected in the associated Method Blank
- H — Holding times for preparation or analysis exceeded
- S — Spike/Surrogate outside of limits due to matrix interference
- DO — Surrogate Diluted Out
- E — Value above quantitation range
- ND — Not Detected at the Reporting Limit

Results are wet unless otherwise specified

| | | | |
|---|---|---|---|
| **CLIENT:** | Ninyo & Moore | **Client Sample ID:** | MW-7-GW |
| **Lab Order:** | 093131 | **Collection Date:** | 7/10/2007 4:15:00 PM |
| **Project:** | Holland Oil, 401314001 | **Matrix:** | GROUND WATER |
| **Lab ID:** | 093131-004 | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM** | | | | | | |
| **EPA 3510C** | | | | **EPA 8270C** | | |
| RunID: MS6_070716A | QC Batch: 37928 | | | PrepDate | 7/16/2007 | Analyst: **MFR** |
| Surr: Nitrobenzene-d5 | 61.9 | 38-117 | | %REC | 1 | 7/16/2007 08:08 PM |
| **VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | |
| | | | | **EPA 8260B** | | |
| RunID: MS11_070712A | QC Batch: A07VW203 | | | PrepDate | | Analyst: **TT** |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| 1,1,1-Trichloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| 1,1,2-Trichloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| 1,1-Dichloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| 1,1-Dichloroethene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| 1,1-Dichloropropene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| 1,2,3-Trichlorobenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| 1,2,3-Trichloropropane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| 1,2,4-Trichlorobenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| 1,2,4-Trimethylbenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| 1,2-Dibromoethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| 1,2-Dichlorobenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| 1,2-Dichloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| 1,2-Dichloropropane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| 1,3,5-Trimethylbenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| 1,3-Dichlorobenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| 1,3-Dichloropropane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| 1,4-Dichlorobenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| 2,2-Dichloropropane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| 2-Chlorotoluene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| 4-Chlorotoluene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| 4-Isopropyltoluene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| Benzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| Bromobenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| Bromodichloromethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| Bromoform | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| Bromomethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| Carbon tetrachloride | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| Chlorobenzene | 0.94 | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| Chloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

## Advanced Technology Laboratories

# ANALYTICAL RESULTS

**Print Date:** *17-Jul-07*

| | | | |
|---|---|---|---|
| **CLIENT:** | Ninyo & Moore | **Client Sample ID:** | MW-7-GW |
| **Lab Order:** | 093131 | **Collection Date:** | 7/10/2007 4:15:00 PM |
| **Project:** | Holland Oil, 401314001 | **Matrix:** | GROUND WATER |
| **Lab ID:** | 093131-004 | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | **EPA 8260B** | | |
| RunID: MS11_070712A | QC Batch: A07VW203 | | | PrepDate | | Analyst: TT |
| Chloroform | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| Chloromethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| cis-1,2-Dichloroethene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| cis-1,3-Dichloropropene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| Dibromochloromethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| Dibromomethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| Dichlorodifluoromethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| Ethylbenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| Hexachlorobutadiene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| Isopropylbenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| m,p-Xylene | ND | 1.0 | | µg/L | 1 | 7/12/2007 04:50 PM |
| Methylene chloride | ND | 1.0 | | µg/L | 1 | 7/12/2007 04:50 PM |
| MTBE | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| n-Butylbenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| n-Propylbenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| Naphthalene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| o-Xylene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| sec-Butylbenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| Styrene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| tert-Butylbenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| Tetrachloroethene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| Toluene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| trans-1,2-Dichloroethene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| Trichloroethene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| Trichlorofluoromethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| Vinyl chloride | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:50 PM |
| Surr: 1,2-Dichloroethane-d4 | 88.0 | 67-118 | | %REC | 1 | 7/12/2007 04:50 PM |
| Surr: 4-Bromofluorobenzene | 96.1 | 81-119 | | %REC | 1 | 7/12/2007 04:50 PM |
| Surr: Dibromofluoromethane | 89.2 | 77-112 | | %REC | 1 | 7/12/2007 04:50 PM |
| Surr: Toluene-d8 | 97.4 | 82-116 | | %REC | 1 | 7/12/2007 04:50 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

## Advanced Technology Laboratories

# ANALYTICAL RESULTS

**Print Date:** *17-Jul-07*

| | | | |
|---|---|---|---|
| **CLIENT:** | Ninyo & Moore | **Client Sample ID:** | MW-3-GW |
| **Lab Order:** | 093131 | **Collection Date:** | 7/10/2007 5:00:00 PM |
| **Project:** | Holland Oil, 401314001 | **Matrix:** | GROUND WATER |
| **Lab ID:** | 093131-005 | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3510C** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070713A | QC Batch: 37913 | | | PrepDate | 7/13/2007 | Analyst: **CBR** |
| DRO | 0.062 | 0.050 | | mg/L | 1 | 7/13/2007 05:39 PM |
| Surr: p-Terphenyl | 83.5 | 24-115 | | %REC | 1 | 7/13/2007 05:39 PM |
| **KEROSENE BY GC/FID** | | | | | | |
| | **EPA 3510C** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070713A | QC Batch: 37913 | | | PrepDate | 7/13/2007 | Analyst: **CBR** |
| Kerosene | ND | 0.050 | | mg/L | 1 | 7/13/2007 05:39 PM |
| Surr: p-Terphenyl | 89.4 | 24-115 | | %REC | 1 | 7/13/2007 05:39 PM |
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| | | | | **EPA 8015B(M)** | | |
| RunID: GC6_070711A | QC Batch: I07VW164 | | | PrepDate | | Analyst: **EA** |
| GRO | ND | 0.050 | | mg/L | 1 | 7/11/2007 04:49 PM |
| Surr: Bromofluorobenzene (FID) | 88.1 | 70-129 | | %REC | 1 | 7/11/2007 04:49 PM |
| **SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM** | | | | | | |
| | **EPA 3510C** | | | **EPA 8270C** | | |
| RunID: MS6_070716A | QC Batch: 37928 | | | PrepDate | 7/16/2007 | Analyst: **MFR** |
| Acenaphthene | ND | 0.20 | | µg/L | 1 | 7/16/2007 08:41 PM |
| Acenaphthylene | ND | 0.20 | | µg/L | 1 | 7/16/2007 08:41 PM |
| Anthracene | ND | 0.20 | | µg/L | 1 | 7/16/2007 08:41 PM |
| Benzo(a)anthracene | ND | 0.20 | | µg/L | 1 | 7/16/2007 08:41 PM |
| Benzo(a)pyrene | ND | 0.20 | | µg/L | 1 | 7/16/2007 08:41 PM |
| Benzo(b)fluoranthene | ND | 0.20 | | µg/L | 1 | 7/16/2007 08:41 PM |
| Benzo(g,h,i)perylene | ND | 0.20 | | µg/L | 1 | 7/16/2007 08:41 PM |
| Benzo(k)fluoranthene | ND | 0.20 | | µg/L | 1 | 7/16/2007 08:41 PM |
| Chrysene | ND | 0.20 | | µg/L | 1 | 7/16/2007 08:41 PM |
| Dibenz(a,h)anthracene | ND | 0.20 | | µg/L | 1 | 7/16/2007 08:41 PM |
| Fluoranthene | ND | 0.20 | | µg/L | 1 | 7/16/2007 08:41 PM |
| Fluorene | ND | 0.20 | | µg/L | 1 | 7/16/2007 08:41 PM |
| Indeno(1,2,3-cd)pyrene | ND | 0.20 | | µg/L | 1 | 7/16/2007 08:41 PM |
| Naphthalene | ND | 0.20 | | µg/L | 1 | 7/16/2007 08:41 PM |
| Phenanthrene | ND | 0.20 | | µg/L | 1 | 7/16/2007 08:41 PM |
| Pyrene | ND | 0.20 | | µg/L | 1 | 7/16/2007 08:41 PM |
| Surr: 1,2-Dichlorobenzene-d4 | 46.3 | 35-101 | | %REC | 1 | 7/16/2007 08:41 PM |
| Surr: 2-Fluorobiphenyl | 51.2 | 43-110 | | %REC | 1 | 7/16/2007 08:41 PM |
| Surr: 4-Terphenyl-d14 | 88.1 | 46-133 | | %REC | 1 | 7/16/2007 08:41 PM |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- E Value above quantitation range
- ND Not Detected at the Reporting Limit

Results are wet unless otherwise specified

**CLIENT:** Ninyo & Moore
**Lab Order:** 093131
**Project:** Holland Oil, 401314001
**Lab ID:** 093131-005

**Client Sample ID:** MW-3-GW
**Collection Date:** 7/10/2007 5:00:00 PM
**Matrix:** GROUND WATER

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM** | | | | | | |
| **EPA 3510C** | | | | **EPA 8270C** | | |
| RunID: MS6_070716A | QC Batch: 37928 | | | PrepDate | 7/16/2007 | Analyst: **MFR** |
| Surr: Nitrobenzene-d5 | 45.3 | 38-117 | | %REC | 1 | 7/16/2007 08:41 PM |
| **VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | |
| | | | | **EPA 8260B** | | |
| RunID: MS11_070712A | QC Batch: A07VW203 | | | PrepDate | | Analyst: **TT** |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| 1,1,1-Trichloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| 1,1,2-Trichloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| 1,1-Dichloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| 1,1-Dichloroethene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| 1,1-Dichloropropene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| 1,2,3-Trichlorobenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| 1,2,3-Trichloropropane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| 1,2,4-Trichlorobenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| 1,2,4-Trimethylbenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| 1,2-Dibromoethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| 1,2-Dichlorobenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| 1,2-Dichloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| 1,2-Dichloropropane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| 1,3,5-Trimethylbenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| 1,3-Dichlorobenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| 1,3-Dichloropropane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| 1,4-Dichlorobenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| 2,2-Dichloropropane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| 2-Chlorotoluene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| 4-Chlorotoluene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| 4-Isopropyltoluene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| Benzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| Bromobenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| Bromodichloromethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| Bromoform | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| Bromomethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| Carbon tetrachloride | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| Chlorobenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| Chloroethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |

**Qualifiers:**
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out
E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified

| | | | |
|---|---|---|---|
| **CLIENT:** | Ninyo & Moore | **Client Sample ID:** | MW-3-GW |
| **Lab Order:** | 093131 | **Collection Date:** | 7/10/2007 5:00:00 PM |
| **Project:** | Holland Oil, 401314001 | **Matrix:** | GROUND WATER |
| **Lab ID:** | 093131-005 | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | **EPA 8260B** | | |
| RunID: MS11_070712A | QC Batch: A07VW203 | | | PrepDate | | Analyst: TT |
| Chloroform | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| Chloromethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| cis-1,2-Dichloroethene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| cis-1,3-Dichloropropene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| Dibromochloromethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| Dibromomethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| Dichlorodifluoromethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| Ethylbenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| Hexachlorobutadiene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| Isopropylbenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| m,p-Xylene | ND | 1.0 | | µg/L | 1 | 7/12/2007 04:25 PM |
| Methylene chloride | ND | 1.0 | | µg/L | 1 | 7/12/2007 04:25 PM |
| MTBE | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| n-Butylbenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| n-Propylbenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| Naphthalene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| o-Xylene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| sec-Butylbenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| Styrene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| tert-Butylbenzene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| Tetrachloroethene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| Toluene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| trans-1,2-Dichloroethene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| Trichloroethene | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| Trichlorofluoromethane | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| Vinyl chloride | ND | 0.50 | | µg/L | 1 | 7/12/2007 04:25 PM |
| Surr: 1,2-Dichloroethane-d4 | 88.8 | 67-118 | | %REC | 1 | 7/12/2007 04:25 PM |
| Surr: 4-Bromofluorobenzene | 97.8 | 81-119 | | %REC | 1 | 7/12/2007 04:25 PM |
| Surr: Dibromofluoromethane | 92.8 | 77-112 | | %REC | 1 | 7/12/2007 04:25 PM |
| Surr: Toluene-d8 | 99.0 | 82-116 | | %REC | 1 | 7/12/2007 04:25 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

**CLIENT:** Ninyo & Moore
**Work Order:** 093131
**Project:** Holland Oil, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015_W_DSL LL**

| Sample ID | MB-37913 | SampType: | MBLK | TestCode: | 8015_W_DSL | Units: | mg/L | Prep Date: | 7/13/2007 | RunNo: | 82356 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | PBW | Batch ID: | 37913 | TestNo: | EPA 8015B(M | EPA 3510C | | Analysis Date: | 7/13/2007 | SeqNo: | 1252834 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO | ND | 0.050 | | | | | | | | | |
| Surr: p-Terphenyl | 0.066 | | 0.08000 | | 82.3 | 24 | 115 | | | | |

| Sample ID | LCS-37913 | SampType: | LCS | TestCode: | 8015_W_DSL | Units: | mg/L | Prep Date: | 7/13/2007 | RunNo: | 82356 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | LCSW | Batch ID: | 37913 | TestNo: | EPA 8015B(M | EPA 3510C | | Analysis Date: | 7/13/2007 | SeqNo: | 1252835 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO | 0.831 | 0.050 | 1.000 | 0 | 83.1 | 44 | 123 | | | | |
| Surr: p-Terphenyl | 0.064 | | 0.08000 | | 80.2 | 24 | 115 | | | | |

| Sample ID | MB-37913MS | SampType: | MS | TestCode: | 8015_W_DSL | Units: | mg/L | Prep Date: | 7/13/2007 | RunNo: | 82356 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | ZZZZZZ | Batch ID: | 37913 | TestNo: | EPA 8015B(M | EPA 3510C | | Analysis Date: | 7/13/2007 | SeqNo: | 1252836 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO | 0.794 | 0.050 | 1.000 | 0 | 79.4 | 44 | 123 | | | | |
| Surr: p-Terphenyl | 0.069 | | 0.08000 | | 86.1 | 24 | 115 | | | | |

| Sample ID | MB-37913MSD | SampType: | MSD | TestCode: | 8015_W_DSL | Units: | mg/L | Prep Date: | 7/13/2007 | RunNo: | 82356 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: | ZZZZZZ | Batch ID: | 37913 | TestNo: | EPA 8015B(M | EPA 3510C | | Analysis Date: | 7/13/2007 | SeqNo: | 1252837 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO | 0.860 | 0.050 | 1.000 | 0 | 86.0 | 44 | 123 | 0.7940 | 7.96 | 30 | |
| Surr: p-Terphenyl | 0.071 | | 0.08000 | | 88.5 | 24 | 115 | | 0 | 0 | |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
  Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Ninyo & Moore
**Work Order:** 093131
**Project:** Holland Oil, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015_W_GP LL**

| Sample ID: I0711007LCS2 | SampType: LCS | TestCode: 8015_W_GP | Units: mg/L | Prep Date: | RunNo: 82206 |
|---|---|---|---|---|---|
| Client ID: LCSW | Batch ID: I07VW164 | TestNo: EPA 8015B(M | | Analysis Date: 7/11/2007 | SeqNo: 1250120 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GRO | 1.064 | 0.050 | 1.000 | 0 | 106 | 71 | 120 | | | | |
| Surr: Bromofluorobenzene (FID) | 105.495 | | 100.0 | | 105 | 70 | 129 | | | | |

| Sample ID: I0711007MB2MS | SampType: MS | TestCode: 8015_W_GP | Units: mg/L | Prep Date: | RunNo: 82206 |
|---|---|---|---|---|---|
| Client ID: ZZZZZZ | Batch ID: I07VW164 | TestNo: EPA 8015B(M | | Analysis Date: 7/11/2007 | SeqNo: 1250121 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GRO | 1.083 | 0.050 | 1.000 | 0 | 108 | 71 | 120 | | | | |
| Surr: Bromofluorobenzene (FID) | 95.850 | | 100.0 | | 95.8 | 70 | 129 | | | | |

| Sample ID: I0711007MB2MSD | SampType: MSD | TestCode: 8015_W_GP | Units: mg/L | Prep Date: | RunNo: 82206 |
|---|---|---|---|---|---|
| Client ID: ZZZZZZ | Batch ID: I07VW164 | TestNo: EPA 8015B(M | | Analysis Date: 7/11/2007 | SeqNo: 1250122 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GRO | 1.156 | 0.050 | 1.000 | 0 | 116 | 71 | 120 | 1.083 | 6.52 | 30 | |
| Surr: Bromofluorobenzene (FID) | 118.608 | | 100.0 | | 119 | 70 | 129 | | 0 | 0 | |

| Sample ID: I0711007MB2 | SampType: MBLK | TestCode: 8015_W_GP | Units: mg/L | Prep Date: | RunNo: 82206 |
|---|---|---|---|---|---|
| Client ID: PBW | Batch ID: I07VW164 | TestNo: EPA 8015B(M | | Analysis Date: 7/11/2007 | SeqNo: 1250123 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GRO | ND | 0.050 | | | | | | | | | |
| Surr: Bromofluorobenzene (FID) | 103.318 | | 100.0 | | 103 | 70 | 129 | | | | |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
  Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Ninyo & Moore
**Work Order:** 093131
**Project:** Holland Oil, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015_W_KER LL**

| Sample ID: MB-37913 | SampType: MBLK | TestCode: 8015_W_KER | Units: mg/L | Prep Date: 7/13/2007 | RunNo: 82356 |
|---|---|---|---|---|---|
| Client ID: PBW | Batch ID: 37913 | TestNo: EPA 8015B(M EPA 3510C | | Analysis Date: 7/13/2007 | SeqNo: 1252854 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Kerosene | ND | 0.050 | | | | | | | | | |
| Surr: p-Terphenyl | 0.071 | | 0.08000 | | 88.5 | 24 | 115 | | | | |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
  Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Ninyo & Moore
**Work Order:** 093131
**Project:** Holland Oil, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260_WP_LL**

Sample ID **A071207LC1** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **82312**
Client ID: **LCSW** Batch ID: **A07VW203** TestNo: **EPA 8260B** Analysis Date: **7/12/2007** SeqNo: **1252494**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 20.570 | 0.50 | 20.00 | 0 | 103 | 74 | 132 | | | | |
| Benzene | 19.490 | 0.50 | 20.00 | 0 | 97.5 | 86 | 116 | | | | |
| Chlorobenzene | 19.080 | 0.50 | 20.00 | 0 | 95.4 | 82 | 115 | | | | |
| MTBE | 19.750 | 0.50 | 20.00 | 0 | 98.8 | 71 | 129 | | | | |
| Toluene | 19.620 | 0.50 | 20.00 | 0 | 98.1 | 88 | 115 | | | | |
| Trichloroethene | 19.530 | 0.50 | 20.00 | 0 | 97.6 | 86 | 118 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 22.030 | | 25.00 | | 88.1 | 67 | 118 | | | | |
| Surr: 4-Bromofluorobenzene | 24.650 | | 25.00 | | 98.6 | 81 | 119 | | | | |
| Surr: Dibromofluoromethane | 22.940 | | 25.00 | | 91.8 | 77 | 112 | | | | |
| Surr: Toluene-d8 | 24.170 | | 25.00 | | 96.7 | 82 | 116 | | | | |

Sample ID **A071207MB3MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **82312**
Client ID: **ZZZZZZ** Batch ID: **A07VW203** TestNo: **EPA 8260B** Analysis Date: **7/12/2007** SeqNo: **1252495**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 20.610 | 0.50 | 20.00 | 0 | 103 | 74 | 132 | | | | |
| Benzene | 20.070 | 0.50 | 20.00 | 0 | 100 | 86 | 116 | | | | |
| Chlorobenzene | 19.680 | 0.50 | 20.00 | 0 | 98.4 | 82 | 115 | | | | |
| MTBE | 20.590 | 0.50 | 20.00 | 0 | 103 | 71 | 129 | | | | |
| Toluene | 20.440 | 0.50 | 20.00 | 0 | 102 | 88 | 115 | | | | |
| Trichloroethene | 19.280 | 0.50 | 20.00 | 0 | 96.4 | 86 | 118 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 22.480 | | 25.00 | | 89.9 | 67 | 118 | | | | |
| Surr: 4-Bromofluorobenzene | 25.790 | | 25.00 | | 103 | 81 | 119 | | | | |
| Surr: Dibromofluoromethane | 22.670 | | 25.00 | | 90.7 | 77 | 112 | | | | |
| Surr: Toluene-d8 | 24.880 | | 25.00 | | 99.5 | 82 | 116 | | | | |

Sample ID **A071207MB3MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **82312**
Client ID: **ZZZZZZ** Batch ID: **A07VW203** TestNo: **EPA 8260B** Analysis Date: **7/12/2007** SeqNo: **1252496**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
  Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Ninyo & Moore
**Work Order:** 093131
**Project:** Holland Oil, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260_WP_LL**

| Sample ID A071207MB3MSD | SampType: MSD | TestCode: 8260_WP_LL | Units: µg/L | Prep Date: | RunNo: 82312 |
|---|---|---|---|---|---|
| Client ID: ZZZZZZ | Batch ID: A07VW203 | TestNo: EPA 8260B | | Analysis Date: 7/12/2007 | SeqNo: 1252496 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 20.330 | 0.50 | 20.00 | 0 | 102 | 74 | 132 | 20.61 | 1.37 | 30 | |
| Benzene | 19.610 | 0.50 | 20.00 | 0 | 98.0 | 86 | 116 | 20.07 | 2.32 | 30 | |
| Chlorobenzene | 19.500 | 0.50 | 20.00 | 0 | 97.5 | 82 | 115 | 19.68 | 0.919 | 30 | |
| MTBE | 20.050 | 0.50 | 20.00 | 0 | 100 | 71 | 129 | 20.59 | 2.66 | 30 | |
| Toluene | 19.810 | 0.50 | 20.00 | 0 | 99.0 | 88 | 115 | 20.44 | 3.13 | 30 | |
| Trichloroethene | 19.380 | 0.50 | 20.00 | 0 | 96.9 | 86 | 118 | 19.28 | 0.517 | 30 | |
| Surr: 1,2-Dichloroethane-d4 | 20.970 | | 25.00 | | 83.9 | 67 | 118 | | 0 | 30 | |
| Surr: 4-Bromofluorobenzene | 24.240 | | 25.00 | | 97.0 | 81 | 119 | | 0 | 30 | |
| Surr: Dibromofluoromethane | 21.540 | | 25.00 | | 86.2 | 77 | 112 | | 0 | 30 | |
| Surr: Toluene-d8 | 23.320 | | 25.00 | | 93.3 | 82 | 116 | | 0 | 30 | |

| Sample ID A071207MB3 | SampType: MBLK | TestCode: 8260_WP_LL | Units: µg/L | Prep Date: | RunNo: 82312 |
|---|---|---|---|---|---|
| Client ID: PBW | Batch ID: A07VW203 | TestNo: EPA 8260B | | Analysis Date: 7/12/2007 | SeqNo: 1252497 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.50 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.50 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.50 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.50 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.50 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | | | | | | | | | |
| 1,2-Dibromoethane | ND | 0.50 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.50 | | | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | | | | | | | | | |

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
  Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Ninyo & Moore
**Work Order:** 093131
**Project:** Holland Oil, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260_WP_LL**

| Sample ID **A071207MB3** | SampType: **MBLK** | TestCode: **8260_WP_LL** | Units: **µg/L** | Prep Date: | RunNo: **82312** |
|---|---|---|---|---|---|
| Client ID: **PBW** | Batch ID: **A07VW203** | TestNo: **EPA 8260B** | | Analysis Date: **7/12/2007** | SeqNo: **1252497** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | ND | 0.50 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.50 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.50 | | | | | | | | | |
| 2,2-Dichloropropane | ND | 0.50 | | | | | | | | | |
| 2-Chlorotoluene | ND | 0.50 | | | | | | | | | |
| 4-Chlorotoluene | ND | 0.50 | | | | | | | | | |
| 4-Isopropyltoluene | ND | 0.50 | | | | | | | | | |
| Benzene | ND | 0.50 | | | | | | | | | |
| Bromobenzene | ND | 0.50 | | | | | | | | | |
| Bromodichloromethane | ND | 0.50 | | | | | | | | | |
| Bromoform | ND | 0.50 | | | | | | | | | |
| Bromomethane | ND | 0.50 | | | | | | | | | |
| Carbon tetrachloride | ND | 0.50 | | | | | | | | | |
| Chlorobenzene | ND | 0.50 | | | | | | | | | |
| Chloroethane | ND | 0.50 | | | | | | | | | |
| Chloroform | ND | 0.50 | | | | | | | | | |
| Chloromethane | ND | 0.50 | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | | | | | | | | | |
| Dibromochloromethane | ND | 0.50 | | | | | | | | | |
| Dibromomethane | ND | 0.50 | | | | | | | | | |
| Dichlorodifluoromethane | ND | 0.50 | | | | | | | | | |
| Ethylbenzene | ND | 0.50 | | | | | | | | | |
| Hexachlorobutadiene | ND | 0.50 | | | | | | | | | |
| Isopropylbenzene | ND | 0.50 | | | | | | | | | |
| m,p-Xylene | ND | 1.0 | | | | | | | | | |
| Methylene chloride | ND | 1.0 | | | | | | | | | |
| MTBE | ND | 0.50 | | | | | | | | | |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
  Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Ninyo & Moore
**Work Order:** 093131
**Project:** Holland Oil, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260_WP_LL**

| Sample ID **A071207MB3** | SampType: **MBLK** | TestCode: **8260_WP_LL** | Units: **µg/L** | Prep Date: | RunNo: **82312** |
|---|---|---|---|---|---|
| Client ID: **PBW** | Batch ID: **A07VW203** | TestNo: **EPA 8260B** | | Analysis Date: **7/12/2007** | SeqNo: **1252497** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| n-Butylbenzene | ND | 0.50 | | | | | | | | | |
| n-Propylbenzene | ND | 0.50 | | | | | | | | | |
| Naphthalene | ND | 0.50 | | | | | | | | | |
| o-Xylene | ND | 0.50 | | | | | | | | | |
| sec-Butylbenzene | ND | 0.50 | | | | | | | | | |
| Styrene | ND | 0.50 | | | | | | | | | |
| tert-Butylbenzene | ND | 0.50 | | | | | | | | | |
| Tetrachloroethene | ND | 0.50 | | | | | | | | | |
| Toluene | ND | 0.50 | | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | | | | | | | | | |
| Trichloroethene | ND | 0.50 | | | | | | | | | |
| Trichlorofluoromethane | ND | 0.50 | | | | | | | | | |
| Vinyl chloride | ND | 0.50 | | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 20.940 | | 25.00 | | 83.8 | 67 | 118 | | | | |
| Surr: 4-Bromofluorobenzene | 23.570 | | 25.00 | | 94.3 | 81 | 119 | | | | |
| Surr: Dibromofluoromethane | 21.240 | | 25.00 | | 85.0 | 77 | 112 | | | | |
| Surr: Toluene-d8 | 23.230 | | 25.00 | | 92.9 | 82 | 116 | | | | |

**Qualifiers:**

| | | | | | |
|---|---|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | | Calculations are based on raw values | | |

**CLIENT:** Ninyo & Moore
**Work Order:** 093131
**Project:** Holland Oil, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260_WP_LL**

Sample ID **A071207LC2** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **82313**
Client ID: **LCSW** Batch ID: **A07VW204** TestNo: **EPA 8260B** Analysis Date: **7/13/2007** SeqNo: **1252240**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 20.960 | 0.50 | 20.00 | 0 | 105 | 74 | 132 | | | | |
| Benzene | 19.350 | 0.50 | 20.00 | 0 | 96.8 | 86 | 116 | | | | |
| Chlorobenzene | 19.350 | 0.50 | 20.00 | 0 | 96.8 | 82 | 115 | | | | |
| MTBE | 19.570 | 0.50 | 20.00 | 0 | 97.9 | 71 | 129 | | | | |
| Toluene | 19.660 | 0.50 | 20.00 | 0 | 98.3 | 88 | 115 | | | | |
| Trichloroethene | 19.250 | 0.50 | 20.00 | 0 | 96.2 | 86 | 118 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 22.340 | | 25.00 | | 89.4 | 67 | 118 | | | | |
| Surr: 4-Bromofluorobenzene | 25.570 | | 25.00 | | 102 | 81 | 119 | | | | |
| Surr: Dibromofluoromethane | 23.250 | | 25.00 | | 93.0 | 77 | 112 | | | | |
| Surr: Toluene-d8 | 24.880 | | 25.00 | | 99.5 | 82 | 116 | | | | |

Sample ID **093143-004AMS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **82313**
Client ID: **ZZZZZZ** Batch ID: **A07VW204** TestNo: **EPA 8260B** Analysis Date: **7/13/2007** SeqNo: **1252241**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 26.190 | 0.50 | 20.00 | 2.010 | 121 | 74 | 132 | | | | |
| Benzene | 21.350 | 0.50 | 20.00 | 0 | 107 | 86 | 116 | | | | |
| Chlorobenzene | 21.340 | 0.50 | 20.00 | 0 | 107 | 82 | 115 | | | | |
| MTBE | 20.570 | 0.50 | 20.00 | 0 | 103 | 71 | 129 | | | | |
| Toluene | 21.670 | 0.50 | 20.00 | 0 | 108 | 88 | 115 | | | | |
| Trichloroethene | 28.250 | 0.50 | 20.00 | 6.530 | 109 | 86 | 118 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 22.300 | | 25.00 | | 89.2 | 67 | 118 | | | | |
| Surr: 4-Bromofluorobenzene | 26.130 | | 25.00 | | 105 | 81 | 119 | | | | |
| Surr: Dibromofluoromethane | 22.950 | | 25.00 | | 91.8 | 77 | 112 | | | | |
| Surr: Toluene-d8 | 24.730 | | 25.00 | | 98.9 | 82 | 116 | | | | |

Sample ID **093143-004AMSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **82313**
Client ID: **ZZZZZZ** Batch ID: **A07VW204** TestNo: **EPA 8260B** Analysis Date: **7/13/2007** SeqNo: **1252242**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
  Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Ninyo & Moore
**Work Order:** 093131
**Project:** Holland Oil, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260_WP_LL**

| Sample ID 093143-004AMSD | SampType: MSD | TestCode: 8260_WP_LL | Units: µg/L | Prep Date: | RunNo: 82313 |
|---|---|---|---|---|---|
| Client ID: ZZZZZZ | Batch ID: A07VW204 | TestNo: EPA 8260B | | Analysis Date: 7/13/2007 | SeqNo: 1252242 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 25.830 | 0.50 | 20.00 | 2.010 | 119 | 74 | 132 | 26.19 | 1.38 | 30 | |
| Benzene | 21.600 | 0.50 | 20.00 | 0 | 108 | 86 | 116 | 21.35 | 1.16 | 30 | |
| Chlorobenzene | 20.370 | 0.50 | 20.00 | 0 | 102 | 82 | 115 | 21.34 | 4.65 | 30 | |
| MTBE | 19.400 | 0.50 | 20.00 | 0 | 97.0 | 71 | 129 | 20.57 | 5.85 | 30 | |
| Toluene | 21.680 | 0.50 | 20.00 | 0 | 108 | 88 | 115 | 21.67 | 0.0461 | 30 | |
| Trichloroethene | 28.440 | 0.50 | 20.00 | 6.530 | 110 | 86 | 118 | 28.25 | 0.670 | 30 | |
| Surr: 1,2-Dichloroethane-d4 | 22.000 | | 25.00 | | 88.0 | 67 | 118 | | 0 | 30 | |
| Surr: 4-Bromofluorobenzene | 25.510 | | 25.00 | | 102 | 81 | 119 | | 0 | 30 | |
| Surr: Dibromofluoromethane | 23.070 | | 25.00 | | 92.3 | 77 | 112 | | 0 | 30 | |
| Surr: Toluene-d8 | 25.650 | | 25.00 | | 103 | 82 | 116 | | 0 | 30 | |

| Sample ID A071207MB6 | SampType: MBLK | TestCode: 8260_WP_LL | Units: µg/L | Prep Date: | RunNo: 82313 |
|---|---|---|---|---|---|
| Client ID: PBW | Batch ID: A07VW204 | TestNo: EPA 8260B | | Analysis Date: 7/13/2007 | SeqNo: 1252243 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.50 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.50 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.50 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.50 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.50 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | | | | | | | | | |
| 1,2-Dibromoethane | ND | 0.50 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.50 | | | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | | | | | | | | | |

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
  Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Ninyo & Moore
**Work Order:** 093131
**Project:** Holland Oil, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260_WP_LL**

| Sample ID **A071207MB6** | SampType: **MBLK** | TestCode: **8260_WP_LL** Units: **µg/L** | Prep Date: | RunNo: **82313** |
|---|---|---|---|---|
| Client ID: **PBW** | Batch ID: **A07VW204** | TestNo: **EPA 8260B** | Analysis Date: **7/13/2007** | SeqNo: **1252243** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | ND | 0.50 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.50 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.50 | | | | | | | | | |
| 2,2-Dichloropropane | ND | 0.50 | | | | | | | | | |
| 2-Chlorotoluene | ND | 0.50 | | | | | | | | | |
| 4-Chlorotoluene | ND | 0.50 | | | | | | | | | |
| 4-Isopropyltoluene | ND | 0.50 | | | | | | | | | |
| Benzene | ND | 0.50 | | | | | | | | | |
| Bromobenzene | ND | 0.50 | | | | | | | | | |
| Bromodichloromethane | ND | 0.50 | | | | | | | | | |
| Bromoform | ND | 0.50 | | | | | | | | | |
| Bromomethane | ND | 0.50 | | | | | | | | | |
| Carbon tetrachloride | ND | 0.50 | | | | | | | | | |
| Chlorobenzene | ND | 0.50 | | | | | | | | | |
| Chloroethane | ND | 0.50 | | | | | | | | | |
| Chloroform | ND | 0.50 | | | | | | | | | |
| Chloromethane | ND | 0.50 | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | | | | | | | | | |
| Dibromochloromethane | ND | 0.50 | | | | | | | | | |
| Dibromomethane | ND | 0.50 | | | | | | | | | |
| Dichlorodifluoromethane | ND | 0.50 | | | | | | | | | |
| Ethylbenzene | ND | 0.50 | | | | | | | | | |
| Hexachlorobutadiene | ND | 0.50 | | | | | | | | | |
| Isopropylbenzene | ND | 0.50 | | | | | | | | | |
| m,p-Xylene | ND | 1.0 | | | | | | | | | |
| Methylene chloride | ND | 1.0 | | | | | | | | | |
| MTBE | ND | 0.50 | | | | | | | | | |

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
  Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Ninyo & Moore
**Work Order:** 093131
**Project:** Holland Oil, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260_WP_LL**

| Sample ID: A071207MB6 | SampType: MBLK | TestCode: 8260_WP_LL | Units: µg/L | Prep Date: | RunNo: 82313 |
|---|---|---|---|---|---|
| Client ID: PBW | Batch ID: A07VW204 | TestNo: EPA 8260B | | Analysis Date: 7/13/2007 | SeqNo: 1252243 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| n-Butylbenzene | ND | 0.50 | | | | | | | | | |
| n-Propylbenzene | ND | 0.50 | | | | | | | | | |
| Naphthalene | ND | 0.50 | | | | | | | | | |
| o-Xylene | ND | 0.50 | | | | | | | | | |
| sec-Butylbenzene | ND | 0.50 | | | | | | | | | |
| Styrene | ND | 0.50 | | | | | | | | | |
| tert-Butylbenzene | ND | 0.50 | | | | | | | | | |
| Tetrachloroethene | ND | 0.50 | | | | | | | | | |
| Toluene | ND | 0.50 | | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | | | | | | | | | |
| Trichloroethene | ND | 0.50 | | | | | | | | | |
| Trichlorofluoromethane | ND | 0.50 | | | | | | | | | |
| Vinyl chloride | ND | 0.50 | | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 21.660 | | 25.00 | | 86.6 | 67 | 118 | | | | |
| Surr: 4-Bromofluorobenzene | 24.360 | | 25.00 | | 97.4 | 81 | 119 | | | | |
| Surr: Dibromofluoromethane | 22.970 | | 25.00 | | 91.9 | 77 | 112 | | | | |
| Surr: Toluene-d8 | 24.940 | | 25.00 | | 99.8 | 82 | 116 | | | | |

**Qualifiers:**

| | | | | | |
|---|---|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | | Calculations are based on raw values | | |

**CLIENT:** Ninyo & Moore
**Work Order:** 093131
**Project:** Holland Oil, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8270_W_SIM**

| Sample ID MB-37928 | SampType: MBLK | TestCode: 8270_W_SIM | Units: µg/L | Prep Date: 7/16/2007 | RunNo: 82391 |
|---|---|---|---|---|---|
| Client ID: PBW | Batch ID: 37928 | TestNo: EPA 8270C | EPA 3510C | Analysis Date: 7/16/2007 | SeqNo: 1253302 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 0.20 | | | | | | | | | |
| Acenaphthylene | ND | 0.20 | | | | | | | | | |
| Anthracene | ND | 0.20 | | | | | | | | | |
| Benzo(a)anthracene | 0.058 | 0.20 | | | | | | | | | |
| Benzo(a)pyrene | 0.061 | 0.20 | | | | | | | | | |
| Benzo(b)fluoranthene | 0.077 | 0.20 | | | | | | | | | |
| Benzo(g,h,i)perylene | 0.085 | 0.20 | | | | | | | | | |
| Benzo(k)fluoranthene | 0.076 | 0.20 | | | | | | | | | |
| Chrysene | 0.083 | 0.20 | | | | | | | | | |
| Dibenz(a,h)anthracene | 0.082 | 0.20 | | | | | | | | | |
| Fluoranthene | 0.031 | 0.20 | | | | | | | | | |
| Fluorene | ND | 0.20 | | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | 0.084 | 0.20 | | | | | | | | | |
| Naphthalene | ND | 0.20 | | | | | | | | | |
| Phenanthrene | ND | 0.20 | | | | | | | | | |
| Pyrene | 0.029 | 0.20 | | | | | | | | | |
| Surr: 1,2-Dichlorobenzene-d4 | 0.353 | | 0.5000 | | 70.5 | 35 | 101 | | | | |
| Surr: 2-Fluorobiphenyl | 0.363 | | 0.5000 | | 72.7 | 43 | 110 | | | | |
| Surr: 4-Terphenyl-d14 | 0.527 | | 0.5000 | | 105 | 46 | 133 | | | | |
| Surr: Nitrobenzene-d5 | 0.341 | | 0.5000 | | 68.3 | 38 | 117 | | | | |

| Sample ID LCS-37928 | SampType: LCS | TestCode: 8270_W_SIM | Units: µg/L | Prep Date: 7/16/2007 | RunNo: 82391 |
|---|---|---|---|---|---|
| Client ID: LCSW | Batch ID: 37928 | TestNo: EPA 8270C | EPA 3510C | Analysis Date: 7/16/2007 | SeqNo: 1253303 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.408 | 0.20 | 0.5000 | 0 | 81.6 | 50 | 150 | | | | |
| Phenanthrene | 0.419 | 0.20 | 0.5000 | 0 | 83.9 | 50 | 150 | | | | |
| Pyrene | 0.441 | 0.20 | 0.5000 | 0.02852 | 82.5 | 50 | 150 | | | | |
| Surr: 1,2-Dichlorobenzene-d4 | 0.396 | | 0.5000 | | 79.3 | 35 | 101 | | | | |
| Surr: 2-Fluorobiphenyl | 0.391 | | 0.5000 | | 78.2 | 43 | 110 | | | | |

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Ninyo & Moore
**Work Order:** 093131
**Project:** Holland Oil, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8270_W_SIM**

| Sample ID LCS-37928 | SampType: LCS | TestCode: 8270_W_SIM | Units: µg/L | Prep Date: 7/16/2007 | RunNo: 82391 |
|---|---|---|---|---|---|
| Client ID: LCSW | Batch ID: 37928 | TestNo: EPA 8270C | EPA 3510C | Analysis Date: 7/16/2007 | SeqNo: 1253303 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Surr: 4-Terphenyl-d14 | 0.473 | | 0.5000 | | 94.5 | 46 | 133 | | | | |
| Surr: Nitrobenzene-d5 | 0.375 | | 0.5000 | | 75.0 | 38 | 117 | | | | |

| Sample ID MB-37928MS | SampType: MS | TestCode: 8270_W_SIM | Units: µg/L | Prep Date: 7/16/2007 | RunNo: 82391 |
|---|---|---|---|---|---|
| Client ID: ZZZZZZ | Batch ID: 37928 | TestNo: EPA 8270C | EPA 3510C | Analysis Date: 7/16/2007 | SeqNo: 1253304 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.418 | 0.20 | 0.5000 | 0 | 83.6 | 50 | 150 | | | | |
| Phenanthrene | 0.454 | 0.20 | 0.5000 | 0 | 90.8 | 50 | 150 | | | | |
| Pyrene | 0.480 | 0.20 | 0.5000 | 0.02852 | 90.3 | 50 | 150 | | | | |
| Surr: 1,2-Dichlorobenzene-d4 | 0.341 | | 0.5000 | | 68.2 | 35 | 101 | | | | |
| Surr: 2-Fluorobiphenyl | 0.341 | | 0.5000 | | 68.2 | 43 | 110 | | | | |
| Surr: 4-Terphenyl-d14 | 0.412 | | 0.5000 | | 82.3 | 46 | 133 | | | | |
| Surr: Nitrobenzene-d5 | 0.320 | | 0.5000 | | 64.0 | 38 | 117 | | | | |

| Sample ID MB-37928MSD | SampType: MSD | TestCode: 8270_W_SIM | Units: µg/L | Prep Date: 7/16/2007 | RunNo: 82391 |
|---|---|---|---|---|---|
| Client ID: ZZZZZZ | Batch ID: 37928 | TestNo: EPA 8270C | EPA 3510C | Analysis Date: 7/16/2007 | SeqNo: 1253305 |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.422 | 0.20 | 0.5000 | 0 | 84.3 | 50 | 150 | 0.4182 | 0.812 | 30 | |
| Phenanthrene | 0.462 | 0.20 | 0.5000 | 0 | 92.4 | 50 | 150 | 0.4542 | 1.70 | 30 | |
| Pyrene | 0.503 | 0.20 | 0.5000 | 0.02852 | 94.9 | 50 | 150 | 0.4799 | 4.67 | 30 | |
| Surr: 1,2-Dichlorobenzene-d4 | 0.370 | | 0.5000 | | 74.0 | 35 | 101 | | 0 | 0 | |
| Surr: 2-Fluorobiphenyl | 0.388 | | 0.5000 | | 77.5 | 43 | 110 | | 0 | 0 | |
| Surr: 4-Terphenyl-d14 | 0.489 | | 0.5000 | | 97.9 | 46 | 133 | | 0 | 0 | |
| Surr: Nitrobenzene-d5 | 0.357 | | 0.5000 | | 71.5 | 38 | 117 | | 0 | 0 | |

Qualifiers:

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
  Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

# CHAIN OF CUSTODY RECORD

Pg 1 of 1


**Advanced Technology Laboratories**
3275 Walnut Avenue
Signal Hill, CA 90755
(562) 989-4045 • Fax (562) 989-4040


**FOR LABORATORY USE ONLY:**

P.O.#: _____
Logged By: _____ Date: 7/11/07

Method of Transport: Client ☐ ATL ☐ CA OverN. ☑ FEDEX ☐ Other: _____

Sample Condition Upon Receipt: 1. CHILLED 3.9 Y☐ N☐ 4. SEALED Y☐ N☐ 2. HEADSPACE (VOA) Y☐ N☐ 5. # OF SPLS MATCH COC Y☐ N☐ 3. CONTAINER INTACT Y☐ N☐ 6. PRESERVED Y☐ N☐

Client: Ninyo & Moore
Attn: Cem Atabek
Address: 1956 Webster St.
City Oakland State CA Zip Code 94612
TEL: (510) 633-5640
FAX: (510) 633-5646

Project Name: Holland Oil Project #: 401314001 Sampler: (Printed Name) Cem Atabek (Signature)

| | | | | | | |
|---|---|---|---|---|---|---|
| Relinquished by: (Signature and Printed Name) Cem Atabek | Date: 7/10/07 | Time: 5:06 | Received by: (Signature and Printed Name) | Date: 7/10/07 | Time: 05:10 |
| Relinquished by: (Signature and Printed Name) | Date: 7/10/07 | Time: 5:40 | Received by: (Signature and Printed Name) | Date: 7/11/07 | Time: 5:40 |
| Relinquished by: (Signature and Printed Name) | Date: | Time: | Received by: (Signature and Printed Name) | Date: 7/11/07 | Time: 0826 |

I hereby authorize ATL to perform the work indicated below:
Project Mgr./Submitter: Cem Atabek 7/10/07 (Print Name / Date)
Signature

Send Report To: Attn: Cem Atabek; Co: Ninyo & Moore; Address: See above; City _____ State _____ Zip _____

Bill To: Attn: Same; Co: _____; Address _____; City _____ State _____ Zip _____

Special Instructions/Comments:
* Test for VOCs, BTEX, MTBE, ethylene dibromide, ethylene dichloride, HVOCs
- 1 extra Amber and 1 extra VOA included in case of breakage

**Sample/Records - Archival & Disposal**
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

**Storage Fees (applies when storage is requested):**
- Sample : $2.00 / sample / mo (after 45 days)
- Records : $1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX: SOIL, WATER, GROUND WATER, WASTEWATER

PRESERVATION

Q A / Q C: RTNE ☐ CT ☐ SWRCB ☐ Logcode ____ OTHER ____

| ITEM | LAB USE ONLY: Batch #: / Lab No. | Sample Description: Sample I.D. / Location | Date | Time | 8021A (Pesticides) | 8082 (PCB) | 8260B (Volatiles) * | 8270C SIM (PAHs) | 8015B (Total Metals) | 8015B (GRO) | 8015B (DRO) * Kerosene | 8021 (BTEX) | TITLE 22 / CAM 17 (6010 / 7000) | SOIL | WATER | GROUND WATER | WASTEWATER | TAT | Container(s) # | Container(s) Type | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 073131 - 001 | MW-4-GW | 7/10/07 | 1015 | | | 3 | 1 | | 3 | 1 | | | | X | | | E | | | |
| | -002 | MW-1-GW | | 1200 | | | | | | | | | | | | | | | | | |
| | -003 | MW-5-GW | | 1355 | | | | | | | | | | | | | | | | | |
| | -004 | MW-7-GW | | 1615 | | | | | | | | | | | | | | | | | |
| | -005 | MW-3-GW | | 1700 | | | | | | | | | | | | | | | | | |

• TAT starts 8 a.m. following day if samples received after 3 p.m.

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

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

Preservatives: H=HCl N=$HNO_3$ S=$H_2SO_4$ C=4°C Z=Zn(AC)$_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.

August 15, 2007

Cem Atabek
Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612
TEL: (510) 633-5640
FAX: (510) 633-5646

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
Arizona: AZ0689
CSDLAC No.: 10196
Workorder No.: 093638

RE: Holland, 401314001

Attention: Cem Atabek

Enclosed are the results for sample(s) received on August 11, 2007 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director





*Advanced Technology Laboratories*
*3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040*

## Advanced Technology Laboratories

**CLIENT:** Ninyo & Moore
**Lab Order:** 093638
**Project:** Holland, 401314001
**Lab ID:** 093638-001

**Client Sample ID:** B-9-GW
**Collection Date:** 8/10/2007 9:50:00 AM
**Matrix:** GROUND WATER

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3510C** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070814A | QC Batch: 38730 | | | PrepDate: | 8/13/2007 | Analyst: **CBR** |
| DRO | ND | 0.050 | | mg/L | 1 | 8/14/2007 03:48 PM |
| Surr: p-Terphenyl | 82.6 | 24-115 | | %REC | 1 | 8/14/2007 03:48 PM |
| **KEROSENE BY GC/FID** | | | | | | |
| | **EPA 3510C** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070814A | QC Batch: 38730 | | | PrepDate: | 8/13/2007 | Analyst: **CBR** |
| Kerosene | ND | 0.050 | | mg/L | 1 | 8/14/2007 03:48 PM |
| Surr: p-Terphenyl | 88.6 | 24-115 | | %REC | 1 | 8/14/2007 03:48 PM |
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| | | | | **EPA 8015B(M)** | | |
| RunID: GC6_070813A | QC Batch: I07VW185 | | | PrepDate: | | Analyst: **EA** |
| GRO | ND | 0.050 | | mg/L | 1 | 8/13/2007 04:25 PM |
| Surr: Bromofluorobenzene (FID) | 93.9 | 70-129 | | %REC | 1 | 8/13/2007 04:25 PM |
| **VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | |
| | | | | **EPA 8260B** | | |
| RunID: MS2_070814A | QC Batch: Q07VW0118 | | | PrepDate: | | Analyst: **ML** |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| 1,1,1-Trichloroethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| 1,1,2-Trichloroethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| 1,1-Dichloroethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| 1,1-Dichloroethene | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| 1,1-Dichloropropene | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| 1,2,3-Trichlorobenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| 1,2,3-Trichloropropane | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| 1,2,4-Trichlorobenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| 1,2,4-Trimethylbenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| 1,2-Dibromoethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| 1,2-Dichlorobenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| 1,2-Dichloroethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| 1,2-Dichloropropane | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| 1,3,5-Trimethylbenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| 1,3-Dichlorobenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| 1,3-Dichloropropane | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |

**Qualifiers:**
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference
DO Surrogate Diluted Out
E Value above quantitation range
ND Not Detected at the Reporting Limit
Results are wet unless otherwise specified

## Advanced Technology Laboratories

# ANALYTICAL RESULTS

**Print Date:** *15-Aug-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 093638
**Project:** Holland, 401314001
**Lab ID:** 093638-001

**Client Sample ID:** B-9-GW
**Collection Date:** 8/10/2007 9:50:00 AM
**Matrix:** GROUND WATER

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | |
| | | **EPA 8260B** | | | | |
| RunID: MS2_070814A | QC Batch: Q07VW0118 | | | PrepDate: | | Analyst: **ML** |
| 1,4-Dichlorobenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| 2,2-Dichloropropane | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| 2-Chlorotoluene | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| 4-Chlorotoluene | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| 4-Isopropyltoluene | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| Benzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| Bromobenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| Bromodichloromethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| Bromoform | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| Bromomethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| Carbon tetrachloride | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| Chlorobenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| Chloroethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| Chloroform | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| Chloromethane | 0.67 | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| cis-1,2-Dichloroethene | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| cis-1,3-Dichloropropene | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| Di-isopropyl ether | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| Dibromochloromethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| Dibromomethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| Dichlorodifluoromethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| Ethyl tert-butyl ether | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| Ethylbenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| Hexachlorobutadiene | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| Isopropylbenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| m,p-Xylene | ND | 1.0 | | µg/L | 1 | 8/14/2007 01:24 PM |
| Methylene chloride | ND | 1.0 | | µg/L | 1 | 8/14/2007 01:24 PM |
| MTBE | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| n-Butylbenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| n-Propylbenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| Naphthalene | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| o-Xylene | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| sec-Butylbenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| Styrene | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| Tert-amyl methyl ether | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| Tert-Butanol | ND | 10 | | µg/L | 1 | 8/14/2007 01:24 PM |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

| | | | |
|---|---|---|---|
| **CLIENT:** | Ninyo & Moore | **Client Sample ID:** | B-9-GW |
| **Lab Order:** | 093638 | **Collection Date:** | 8/10/2007 9:50:00 AM |
| **Project:** | Holland, 401314001 | **Matrix:** | GROUND WATER |
| **Lab ID:** | 093638-001 | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | |
| | | | **EPA 8260B** | | | |
| RunID: MS2_070814A | QC Batch: Q07VW0118 | | | PrepDate: | | Analyst: **ML** |
| tert-Butylbenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| Tetrachloroethene | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| Toluene | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| trans-1,2-Dichloroethene | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| Trichloroethene | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| Trichlorofluoromethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| Vinyl chloride | ND | 0.50 | | µg/L | 1 | 8/14/2007 01:24 PM |
| Surr: 1,2-Dichloroethane-d4 | 99.6 | 67-118 | | %REC | 1 | 8/14/2007 01:24 PM |
| Surr: 4-Bromofluorobenzene | 84.7 | 81-119 | | %REC | 1 | 8/14/2007 01:24 PM |
| Surr: Dibromofluoromethane | 95.6 | 77-112 | | %REC | 1 | 8/14/2007 01:24 PM |
| Surr: Toluene-d8 | 89.3 | 82-116 | | %REC | 1 | 8/14/2007 01:24 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

# ANALYTICAL RESULTS

## Advanced Technology Laboratories

**Print Date:** *15-Aug-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 093638
**Project:** Holland, 401314001
**Lab ID:** 093638-002

**Client Sample ID:** B-10-GW
**Collection Date:** 8/10/2007 12:00:00 PM
**Matrix:** GROUND WATER

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3510C** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070814A | QC Batch: 38730 | | | PrepDate: 8/13/2007 | | Analyst: **CBR** |
| DRO | ND | 0.050 | | mg/L | 1 | 8/14/2007 04:16 PM |
| Surr: p-Terphenyl | 90.7 | 24-115 | | %REC | 1 | 8/14/2007 04:16 PM |
| **KEROSENE BY GC/FID** | | | | | | |
| | **EPA 3510C** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070814A | QC Batch: 38730 | | | PrepDate: 8/13/2007 | | Analyst: **CBR** |
| Kerosene | ND | 0.050 | | mg/L | 1 | 8/14/2007 04:16 PM |
| Surr: p-Terphenyl | 98.0 | 24-115 | | %REC | 1 | 8/14/2007 04:16 PM |
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| | | | | **EPA 8015B(M)** | | |
| RunID: GC6_070813A | QC Batch: I07VW185 | | | PrepDate: | | Analyst: **EA** |
| GRO | ND | 0.050 | | mg/L | 1 | 8/13/2007 04:51 PM |
| Surr: Bromofluorobenzene (FID) | 106 | 70-129 | | %REC | 1 | 8/13/2007 04:51 PM |
| **VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | |
| | | | | **EPA 8260B** | | |
| RunID: MS2_070814A | QC Batch: Q07VW0118 | | | PrepDate: | | Analyst: **ML** |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| 1,1,1-Trichloroethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| 1,1,2-Trichloroethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| 1,1-Dichloroethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| 1,1-Dichloroethene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| 1,1-Dichloropropene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| 1,2,3-Trichlorobenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| 1,2,3-Trichloropropane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| 1,2,4-Trichlorobenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| 1,2,4-Trimethylbenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| 1,2-Dibromoethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| 1,2-Dichlorobenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| 1,2-Dichloroethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| 1,2-Dichloropropane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| 1,3,5-Trimethylbenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| 1,3-Dichlorobenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| 1,3-Dichloropropane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

| | | | |
|---|---|---|---|
| **CLIENT:** | Ninyo & Moore | **Client Sample ID:** | B-10-GW |
| **Lab Order:** | 093638 | **Collection Date:** | 8/10/2007 12:00:00 PM |
| **Project:** | Holland, 401314001 | **Matrix:** | GROUND WATER |
| **Lab ID:** | 093638-002 | | |

**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID: MS2_070814A QC Batch: Q07VW0118 PrepDate: Analyst: **ML**

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| 2,2-Dichloropropane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| 2-Chlorotoluene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| 4-Chlorotoluene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| 4-Isopropyltoluene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| Benzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| Bromobenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| Bromodichloromethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| Bromoform | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| Bromomethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| Carbon tetrachloride | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| Chlorobenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| Chloroethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| Chloroform | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| Chloromethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| cis-1,2-Dichloroethene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| cis-1,3-Dichloropropene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| Di-isopropyl ether | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| Dibromochloromethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| Dibromomethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| Dichlorodifluoromethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| Ethyl tert-butyl ether | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| Ethylbenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| Hexachlorobutadiene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| Isopropylbenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| m,p-Xylene | ND | 1.0 | | µg/L | 1 | 8/14/2007 02:28 PM |
| Methylene chloride | ND | 1.0 | | µg/L | 1 | 8/14/2007 02:28 PM |
| MTBE | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| n-Butylbenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| n-Propylbenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| Naphthalene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| o-Xylene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| sec-Butylbenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| Styrene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| Tert-amyl methyl ether | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| Tert-Butanol | ND | 10 | | µg/L | 1 | 8/14/2007 02:28 PM |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

## Advanced Technology Laboratories

**Print Date:** *15-Aug-07*

| | | | |
|---|---|---|---|
| **CLIENT:** | Ninyo & Moore | **Client Sample ID:** | B-10-GW |
| **Lab Order:** | 093638 | **Collection Date:** | 8/10/2007 12:00:00 PM |
| **Project:** | Holland, 401314001 | **Matrix:** | GROUND WATER |
| **Lab ID:** | 093638-002 | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | **EPA 8260B** | | |
| RunID: MS2_070814A | QC Batch: | Q07VW0118 | | PrepDate: | | Analyst: **ML** |
| tert-Butylbenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| Tetrachloroethene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| Toluene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| trans-1,2-Dichloroethene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| Trichloroethene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| Trichlorofluoromethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| Vinyl chloride | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:28 PM |
| Surr: 1,2-Dichloroethane-d4 | 99.5 | 67-118 | | %REC | 1 | 8/14/2007 02:28 PM |
| Surr: 4-Bromofluorobenzene | 87.4 | 81-119 | | %REC | 1 | 8/14/2007 02:28 PM |
| Surr: Dibromofluoromethane | 94.9 | 77-112 | | %REC | 1 | 8/14/2007 02:28 PM |
| Surr: Toluene-d8 | 88.0 | 82-116 | | %REC | 1 | 8/14/2007 02:28 PM |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- E Value above quantitation range
- ND Not Detected at the Reporting Limit

Results are wet unless otherwise specified

## Advanced Technology Laboratories

**Print Date:** *15-Aug-07*

| | | | |
|---|---|---|---|
| **CLIENT:** | Ninyo & Moore | **Client Sample ID:** | B-11-GW |
| **Lab Order:** | 093638 | **Collection Date:** | 8/10/2007 1:30:00 PM |
| **Project:** | Holland, 401314001 | **Matrix:** | GROUND WATER |
| **Lab ID:** | 093638-003 | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DIESEL RANGE ORGANICS BY GC/FID** | | | | | | |
| | **EPA 3510C** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070814A | QC Batch: 38730 | | | PrepDate: | 8/13/2007 | Analyst: **CBR** |
| DRO | 0.74 | 0.050 | | mg/L | 1 | 8/14/2007 04:45 PM |
| Surr: p-Terphenyl | 79.6 | 24-115 | | %REC | 1 | 8/14/2007 04:45 PM |
| **KEROSENE BY GC/FID** | | | | | | |
| | **EPA 3510C** | | | **EPA 8015B(M)** | | |
| RunID: GC3_070814A | QC Batch: 38730 | | | PrepDate: | 8/13/2007 | Analyst: **CBR** |
| Kerosene | 0.27 | 0.050 | | mg/L | 1 | 8/14/2007 04:45 PM |
| Surr: p-Terphenyl | 87.2 | 24-115 | | %REC | 1 | 8/14/2007 04:45 PM |
| **GASOLINE RANGE ORGANICS BY GC/FID** | | | | | | |
| | | | | **EPA 8015B(M)** | | |
| RunID: GC6_070813A | QC Batch: I07VW185 | | | PrepDate: | | Analyst: **EA** |
| GRO | ND | 0.050 | | mg/L | 1 | 8/13/2007 05:18 PM |
| Surr: Bromofluorobenzene (FID) | 102 | 70-129 | | %REC | 1 | 8/13/2007 05:18 PM |
| **VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | | | |
| | | | | **EPA 8260B** | | |
| RunID: MS2_070814A | QC Batch: Q07VW0118 | | | PrepDate: | | Analyst: **ML** |
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| 1,1,1-Trichloroethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| 1,1,2-Trichloroethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| 1,1-Dichloroethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| 1,1-Dichloroethene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| 1,1-Dichloropropene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| 1,2,3-Trichlorobenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| 1,2,3-Trichloropropane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| 1,2,4-Trichlorobenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| 1,2,4-Trimethylbenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| 1,2-Dibromoethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| 1,2-Dichlorobenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| 1,2-Dichloroethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| 1,2-Dichloropropane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| 1,3,5-Trimethylbenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| 1,3-Dichlorobenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| 1,3-Dichloropropane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike/Surrogate outside of limits due to matrix interference
- Results are wet unless otherwise specified
- DO Surrogate Diluted Out

## Advanced Technology Laboratories

**Print Date:** *15-Aug-07*

**CLIENT:** Ninyo & Moore
**Lab Order:** 093638
**Project:** Holland, 401314001
**Lab ID:** 093638-003

**Client Sample ID:** B-11-GW
**Collection Date:** 8/10/2007 1:30:00 PM
**Matrix:** GROUND WATER

**VOLATILE ORGANIC COMPOUNDS BY GC/MS**

**EPA 8260B**

RunID: MS2_070814A | QC Batch: Q07VW0118 | PrepDate: | Analyst: **ML**

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| 2,2-Dichloropropane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| 2-Chlorotoluene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| 4-Chlorotoluene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| 4-Isopropyltoluene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| Benzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| Bromobenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| Bromodichloromethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| Bromoform | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| Bromomethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| Carbon tetrachloride | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| Chlorobenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| Chloroethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| Chloroform | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| Chloromethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| cis-1,2-Dichloroethene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| cis-1,3-Dichloropropene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| Di-isopropyl ether | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| Dibromochloromethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| Dibromomethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| Dichlorodifluoromethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| Ethyl tert-butyl ether | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| Ethylbenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| Hexachlorobutadiene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| Isopropylbenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| m,p-Xylene | ND | 1.0 | | µg/L | 1 | 8/14/2007 02:55 PM |
| Methylene chloride | ND | 1.0 | | µg/L | 1 | 8/14/2007 02:55 PM |
| MTBE | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| n-Butylbenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| n-Propylbenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| Naphthalene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| o-Xylene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| sec-Butylbenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| Styrene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| Tert-amyl methyl ether | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| Tert-Butanol | ND | 10 | | µg/L | 1 | 8/14/2007 02:55 PM |

**Qualifiers:**
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference
- DO Surrogate Diluted Out
- E Value above quantitation range
- ND Not Detected at the Reporting Limit

Results are wet unless otherwise specified

| | | | |
|---|---|---|---|
| **CLIENT:** | Ninyo & Moore | **Client Sample ID:** | B-11-GW |
| **Lab Order:** | 093638 | **Collection Date:** | 8/10/2007 1:30:00 PM |
| **Project:** | Holland, 401314001 | **Matrix:** | GROUND WATER |
| **Lab ID:** | 093638-003 | | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC/MS** | | | | **EPA 8260B** | | |
| RunID: MS2_070814A | QC Batch: Q07VW0118 | | | PrepDate: | | Analyst: **ML** |
| tert-Butylbenzene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| Tetrachloroethene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| Toluene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| trans-1,2-Dichloroethene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| Trichloroethene | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| Trichlorofluoromethane | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| Vinyl chloride | ND | 0.50 | | µg/L | 1 | 8/14/2007 02:55 PM |
| Surr: 1,2-Dichloroethane-d4 | 98.7 | 67-118 | | %REC | 1 | 8/14/2007 02:55 PM |
| Surr: 4-Bromofluorobenzene | 84.5 | 81-119 | | %REC | 1 | 8/14/2007 02:55 PM |
| Surr: Dibromofluoromethane | 95.8 | 77-112 | | %REC | 1 | 8/14/2007 02:55 PM |
| Surr: Toluene-d8 | 88.3 | 82-116 | | %REC | 1 | 8/14/2007 02:55 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| S | Spike/Surrogate outside of limits due to matrix interference | | Results are wet unless otherwise specified |
| DO | Surrogate Diluted Out | | |

**CLIENT:** Ninyo & Moore
**Work Order:** 093638
**Project:** Holland, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015_W_DSL LL**

| Sample ID: **MB-38730** | SampType: **MBLK** | TestCode: **8015_W_DSL** | Units: **mg/L** | Prep Date: **8/13/2007** | RunNo: **83526** |
|---|---|---|---|---|---|
| Client ID: **PBW** | Batch ID: **38730** | TestNo: **EPA 8015B(M** | **EPA 3510C** | Analysis Date: **8/14/2007** | SeqNo: **1270579** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO | ND | 0.050 | | | | | | | | | |
| Surr: p-Terphenyl | 0.078 | | 0.08000 | | 97.6 | 24 | 115 | | | | |

| Sample ID: **LCS-38730** | SampType: **LCS** | TestCode: **8015_W_DSL** | Units: **mg/L** | Prep Date: **8/13/2007** | RunNo: **83526** |
|---|---|---|---|---|---|
| Client ID: **LCSW** | Batch ID: **38730** | TestNo: **EPA 8015B(M** | **EPA 3510C** | Analysis Date: **8/14/2007** | SeqNo: **1270580** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO | 0.926 | 0.050 | 1.000 | 0 | 92.6 | 44 | 123 | | | | |
| Surr: p-Terphenyl | 0.074 | | 0.08000 | | 92.4 | 24 | 115 | | | | |

| Sample ID: **MB-38730MS** | SampType: **MS** | TestCode: **8015_W_DSL** | Units: **mg/L** | Prep Date: **8/13/2007** | RunNo: **83526** |
|---|---|---|---|---|---|
| Client ID: **ZZZZZZ** | Batch ID: **38730** | TestNo: **EPA 8015B(M** | **EPA 3510C** | Analysis Date: **8/14/2007** | SeqNo: **1270637** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO | 0.900 | 0.050 | 1.000 | 0 | 90.0 | 44 | 123 | | | | |
| Surr: p-Terphenyl | 0.078 | | 0.08000 | | 97.5 | 24 | 115 | | | | |

| Sample ID: **MB-38730MSD** | SampType: **MSD** | TestCode: **8015_W_DSL** | Units: **mg/L** | Prep Date: **8/13/2007** | RunNo: **83526** |
|---|---|---|---|---|---|
| Client ID: **ZZZZZZ** | Batch ID: **38730** | TestNo: **EPA 8015B(M** | **EPA 3510C** | Analysis Date: **8/14/2007** | SeqNo: **1270686** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRO | 0.873 | 0.050 | 1.000 | 0 | 87.3 | 44 | 123 | 0.8999 | 2.99 | 30 | |
| Surr: p-Terphenyl | 0.072 | | 0.08000 | | 89.4 | 24 | 115 | | 0 | 0 | |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Ninyo & Moore
**Work Order:** 093638
**Project:** Holland, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015_W_GP LL**

| Sample ID: I081307LCS2 | SampType: LCS | TestCode: 8015_W_GP | Units: mg/L | Prep Date: | | | RunNo: 83483 | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: LCSW | Batch ID: I07VW185 | TestNo: EPA 8015B(M | | Analysis Date: 8/13/2007 | | | SeqNo: 1270048 | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 1.014 | 0.050 | 1.000 | 0 | 101 | 71 | 120 | | | | |
| Surr: Bromofluorobenzene (FID) | 98.753 | | 100.0 | | 98.8 | 70 | 129 | | | | |

| Sample ID: I081307MB2MS | SampType: MS | TestCode: 8015_W_GP | Units: mg/L | Prep Date: | | | RunNo: 83483 | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: ZZZZZZ | Batch ID: I07VW185 | TestNo: EPA 8015B(M | | Analysis Date: 8/13/2007 | | | SeqNo: 1270049 | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 1.179 | 0.050 | 1.000 | 0 | 118 | 71 | 120 | | | | |
| Surr: Bromofluorobenzene (FID) | 105.848 | | 100.0 | | 106 | 70 | 129 | | | | |

| Sample ID: I081307MB2MSD | SampType: MSD | TestCode: 8015_W_GP | Units: mg/L | Prep Date: | | | RunNo: 83483 | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: ZZZZZZ | Batch ID: I07VW185 | TestNo: EPA 8015B(M | | Analysis Date: 8/13/2007 | | | SeqNo: 1270050 | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | 1.038 | 0.050 | 1.000 | 0 | 104 | 71 | 120 | 1.179 | 12.7 | 30 | |
| Surr: Bromofluorobenzene (FID) | 110.556 | | 100.0 | | 111 | 70 | 129 | | 0 | 0 | |

| Sample ID: I081307MB2 | SampType: MBLK | TestCode: 8015_W_GP | Units: mg/L | Prep Date: | | | RunNo: 83483 | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Client ID: PBW | Batch ID: I07VW185 | TestNo: EPA 8015B(M | | Analysis Date: 8/13/2007 | | | SeqNo: 1270051 | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| GRO | ND | 0.050 | | | | | | | | | |
| Surr: Bromofluorobenzene (FID) | 100.919 | | 100.0 | | 101 | 70 | 129 | | | | |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
  Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Ninyo & Moore
**Work Order:** 093638
**Project:** Holland, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015_W_KER LL**

| Sample ID: **MB-38730** | SampType: **MBLK** | TestCode: **8015_W_KER** Units: **mg/L** | Prep Date: **8/13/2007** | RunNo: **83526** |
|---|---|---|---|---|
| Client ID: **PBW** | Batch ID: **38730** | TestNo: **EPA 8015B(M EPA 3510C** | Analysis Date: **8/14/2007** | SeqNo: **1271136** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Kerosene | ND | 0.050 | | | | | | | | | |
| Surr: p-Terphenyl | 0.083 | | 0.08000 | | 104 | 24 | 115 | | | | |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
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- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
  Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

**CLIENT:** Ninyo & Moore
**Work Order:** 093638
**Project:** Holland, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260_WP_LL**

Sample ID: **Q081407LC1** SampType: **LCS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **83520**
Client ID: **LCSW** Batch ID: **Q07VW0118** TestNo: **EPA 8260B** Analysis Date: **8/14/2007** SeqNo: **1270523**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 20.530 | 0.50 | 20.00 | 0 | 103 | 74 | 132 | | | | |
| Benzene | 19.740 | 0.50 | 20.00 | 0 | 98.7 | 86 | 116 | | | | |
| Chlorobenzene | 19.170 | 0.50 | 20.00 | 0 | 95.9 | 82 | 115 | | | | |
| MTBE | 20.060 | 0.50 | 20.00 | 0 | 100 | 71 | 129 | | | | |
| Toluene | 19.650 | 0.50 | 20.00 | 0 | 98.2 | 88 | 115 | | | | |
| Trichloroethene | 20.500 | 0.50 | 20.00 | 0 | 103 | 86 | 118 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 23.460 | | 25.00 | | 93.8 | 67 | 118 | | | | |
| Surr: 4-Bromofluorobenzene | 21.730 | | 25.00 | | 86.9 | 81 | 119 | | | | |
| Surr: Dibromofluoromethane | 23.510 | | 25.00 | | 94.0 | 77 | 112 | | | | |
| Surr: Toluene-d8 | 22.210 | | 25.00 | | 88.8 | 82 | 116 | | | | |

Sample ID: **Q081407MB2MS** SampType: **MS** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **83520**
Client ID: **ZZZZZZ** Batch ID: **Q07VW0118** TestNo: **EPA 8260B** Analysis Date: **8/14/2007** SeqNo: **1270524**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 21.000 | 0.50 | 20.00 | 0 | 105 | 74 | 132 | | | | |
| Benzene | 19.780 | 0.50 | 20.00 | 0 | 98.9 | 86 | 116 | | | | |
| Chlorobenzene | 19.590 | 0.50 | 20.00 | 0 | 98.0 | 82 | 115 | | | | |
| MTBE | 20.640 | 0.50 | 20.00 | 0 | 103 | 71 | 129 | | | | |
| Toluene | 19.610 | 0.50 | 20.00 | 0 | 98.0 | 88 | 115 | | | | |
| Trichloroethene | 20.970 | 0.50 | 20.00 | 0 | 105 | 86 | 118 | | | | |
| Surr: 1,2-Dichloroethane-d4 | 23.640 | | 25.00 | | 94.6 | 67 | 118 | | | | |
| Surr: 4-Bromofluorobenzene | 21.940 | | 25.00 | | 87.8 | 81 | 119 | | | | |
| Surr: Dibromofluoromethane | 22.940 | | 25.00 | | 91.8 | 77 | 112 | | | | |
| Surr: Toluene-d8 | 21.840 | | 25.00 | | 87.4 | 82 | 116 | | | | |

Sample ID: **Q081407MB2MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **83520**
Client ID: **ZZZZZZ** Batch ID: **Q07VW0118** TestNo: **EPA 8260B** Analysis Date: **8/14/2007** SeqNo: **1270525**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|

**Qualifiers:**

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- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits

Calculations are based on raw values

- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Ninyo & Moore
**Work Order:** 093638
**Project:** Holland, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260_WP_LL**

Sample ID: **Q081407MB2MSD** SampType: **MSD** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **83520**
Client ID: **ZZZZZZ** Batch ID: **Q07VW0118** TestNo: **EPA 8260B** Analysis Date: **8/14/2007** SeqNo: **1270525**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 20.470 | 0.50 | 20.00 | 0 | 102 | 74 | 132 | 21.00 | 2.56 | 30 | |
| Benzene | 20.120 | 0.50 | 20.00 | 0 | 101 | 86 | 116 | 19.78 | 1.70 | 30 | |
| Chlorobenzene | 19.180 | 0.50 | 20.00 | 0 | 95.9 | 82 | 115 | 19.59 | 2.12 | 30 | |
| MTBE | 21.170 | 0.50 | 20.00 | 0 | 106 | 71 | 129 | 20.64 | 2.54 | 30 | |
| Toluene | 19.950 | 0.50 | 20.00 | 0 | 99.8 | 88 | 115 | 19.61 | 1.72 | 30 | |
| Trichloroethene | 20.880 | 0.50 | 20.00 | 0 | 104 | 86 | 118 | 20.97 | 0.430 | 30 | |
| Surr: 1,2-Dichloroethane-d4 | 23.670 | | 25.00 | | 94.7 | 67 | 118 | | 0 | 30 | |
| Surr: 4-Bromofluorobenzene | 21.620 | | 25.00 | | 86.5 | 81 | 119 | | 0 | 30 | |
| Surr: Dibromofluoromethane | 23.250 | | 25.00 | | 93.0 | 77 | 112 | | 0 | 30 | |
| Surr: Toluene-d8 | 22.470 | | 25.00 | | 89.9 | 82 | 116 | | 0 | 30 | |

Sample ID: **Q081407MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **83520**
Client ID: **PBW** Batch ID: **Q07VW0118** TestNo: **EPA 8260B** Analysis Date: **8/14/2007** SeqNo: **1270526**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 0.50 | | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.50 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.50 | | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.50 | | | | | | | | | |
| 1,1-Dichloroethene | ND | 0.50 | | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.50 | | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.50 | | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.50 | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.50 | | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.50 | | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 0.50 | | | | | | | | | |
| 1,2-Dibromoethane | ND | 0.50 | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.50 | | | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | | | | | | | | | |

**Qualifiers:**

| | | | | | |
|---|---|---|---|---|---|
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | R | RPD outside accepted recovery limits | S | Spike/Surrogate outside of limits due to matrix interference |
| DO | Surrogate Diluted Out | | Calculations are based on raw values | | |

**CLIENT:** Ninyo & Moore
**Work Order:** 093638
**Project:** Holland, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260_WP_LL**

Sample ID: **Q081407MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **83520**
Client ID: **PBW** Batch ID: **Q07VW0118** TestNo: **EPA 8260B** Analysis Date: **8/14/2007** SeqNo: **1270526**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | ND | 0.50 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.50 | | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.50 | | | | | | | | | |
| 1,3-Dichloropropane | ND | 0.50 | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.50 | | | | | | | | | |
| 2,2-Dichloropropane | ND | 0.50 | | | | | | | | | |
| 2-Chlorotoluene | ND | 0.50 | | | | | | | | | |
| 4-Chlorotoluene | ND | 0.50 | | | | | | | | | |
| 4-Isopropyltoluene | ND | 0.50 | | | | | | | | | |
| Benzene | ND | 0.50 | | | | | | | | | |
| Bromobenzene | ND | 0.50 | | | | | | | | | |
| Bromodichloromethane | ND | 0.50 | | | | | | | | | |
| Bromoform | ND | 0.50 | | | | | | | | | |
| Bromomethane | ND | 0.50 | | | | | | | | | |
| Carbon tetrachloride | ND | 0.50 | | | | | | | | | |
| Chlorobenzene | ND | 0.50 | | | | | | | | | |
| Chloroethane | ND | 0.50 | | | | | | | | | |
| Chloroform | ND | 0.50 | | | | | | | | | |
| Chloromethane | ND | 0.50 | | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.50 | | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | | | | | | | | | |
| Di-isopropyl ether | ND | 0.50 | | | | | | | | | |
| Dibromochloromethane | ND | 0.50 | | | | | | | | | |
| Dibromomethane | ND | 0.50 | | | | | | | | | |
| Dichlorodifluoromethane | ND | 0.50 | | | | | | | | | |
| Ethyl tert-butyl ether | ND | 0.50 | | | | | | | | | |
| Ethylbenzene | ND | 0.50 | | | | | | | | | |
| Hexachlorobutadiene | ND | 0.50 | | | | | | | | | |
| Isopropylbenzene | ND | 0.50 | | | | | | | | | |
| m,p-Xylene | ND | 1.0 | | | | | | | | | |

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- Calculations are based on raw values
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

**CLIENT:** Ninyo & Moore
**Work Order:** 093638
**Project:** Holland, 401314001

# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8260_WP_LL**

Sample ID: **Q081407MB2** SampType: **MBLK** TestCode: **8260_WP_LL** Units: **µg/L** Prep Date: RunNo: **83520**
Client ID: **PBW** Batch ID: **Q07VW0118** TestNo: **EPA 8260B** Analysis Date: **8/14/2007** SeqNo: **1270526**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Methylene chloride | ND | 1.0 | | | | | | | | | |
| MTBE | ND | 0.50 | | | | | | | | | |
| n-Butylbenzene | ND | 0.50 | | | | | | | | | |
| n-Propylbenzene | ND | 0.50 | | | | | | | | | |
| Naphthalene | ND | 0.50 | | | | | | | | | |
| o-Xylene | ND | 0.50 | | | | | | | | | |
| sec-Butylbenzene | ND | 0.50 | | | | | | | | | |
| Styrene | ND | 0.50 | | | | | | | | | |
| Tert-amyl methyl ether | ND | 0.50 | | | | | | | | | |
| Tert-Butanol | ND | 10 | | | | | | | | | |
| tert-Butylbenzene | ND | 0.50 | | | | | | | | | |
| Tetrachloroethene | ND | 0.50 | | | | | | | | | |
| Toluene | ND | 0.50 | | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.50 | | | | | | | | | |
| Trichloroethene | ND | 0.50 | | | | | | | | | |
| Trichlorofluoromethane | ND | 0.50 | | | | | | | | | |
| Vinyl chloride | ND | 0.50 | | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 24.410 | | 25.00 | | 97.6 | 67 | 118 | | | | |
| Surr: 4-Bromofluorobenzene | 20.960 | | 25.00 | | 83.8 | 81 | 119 | | | | |
| Surr: Dibromofluoromethane | 23.990 | | 25.00 | | 96.0 | 77 | 112 | | | | |
| Surr: Toluene-d8 | 22.090 | | 25.00 | | 88.4 | 82 | 116 | | | | |

**Qualifiers:**

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

# CHAIN OF CUSTODY RECORD

Pg 1 of 1


Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
(562) 989-4045 • Fax (562) 989-4040


**FOR LABORATORY USE ONLY:**

P.O.#: _____

Logged By: MA Date: 8/11/07

Method of Transport: Client ☐ ATL ☐ CA OverN ☑ FEDEX ☐ Other: _____

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

Client: Ninyo & Moore
Attn: Cem Atabek
Address: 1956 Webster ST
City Oakland State CA Zip Code 94612
TEL: (510) 633-5640
FAX: (510) 633-5646

Project Name: Holland Project #: 401314001 Sampler: (Printed Name) Cem Atabek (Signature)

| | | | | | |
|---|---|---|---|---|---|
| Relinquished by: (Signature and Printed Name) Cem Atabek | Date: 8/10/07 | Time: | Received by: (Signature and Printed Name) Jess Sleavea | Date: 8/10/07 | Time: 4:42p |
| Relinquished by: (Signature and Printed Name) Jess Sleavea | Date: 8/10/07 | Time: 5:55p | Received by: (Signature and Printed Name) California Overnight | Date: 8/10/07 | Time: 5:55p |
| Relinquished by: (Signature and Printed Name) | Date: | Time: | Received by: (Signature and Printed Name) Maria | Date: 8/11/07 | Time: 9:24 |

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Cem Atabek 8/10/07 (Print Name, Date)
Signature

Send Report To: Attn: Cem Atabek Co: Ninyo & Moore Address: see above City _____ State _____ Zip _____

Bill To: Attn: Same Co: _____ Address _____ City _____ State _____ Zip _____

Special Instructions/Comments:
* VOCs plus Oxygenates (Full list of 8260 Analytes)

**Sample/Records - Archival & Disposal**
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

**Storage Fees (applies when storage is requested):**
- Sample : $2.00 / sample / mo (after 45 days)
- Records : $1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested: 8081A (Pesticides) | 8082 (PCB) | 8260B (Volatiles)* | 8270C (BNA) | 6010B (Total Metal) | 8015B (GRO) | 8015B (DRO) | 8021 (BTEX) | TITLE 22 / CAM 17 (6010 / 7000)

SPECIFY APPROPRIATE MATRIX: SOIL | WATER | GROUND WATER | WASTEWATER

PRESERVATION

Q A / Q C: RTNE ☐ CT ☐ SWRCB ☐ Logcode ____ OTHER ____

| ITEM | LAB USE ONLY: Batch #: / Lab No. | Sample Description: Sample I.D. / Location | Date | Time | 8081A | 8082 | 8260B | 8270C | 6010B | 8015B (GRO) | 8015B (DRO) | 8021 | TITLE 22 | SOIL | WATER | GROUND WATER | WASTEWATER | TAT | Container(s) # | Container(s) Type | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 379638-001 | B-9-GW | 8/10/07 | 9:50 | | | 3 | | 3 | 1 | | | | | | X | | E | | | |
| | 002 | B-10-GW | | 12:00 | | | | | | | | | | | | | | | | | |
| | 003 | B-11-GW | | 1:30 | | | | | | | | | | | | | | | | | |

- TAT starts 8 a.m. following day if samples received after 3 p.m.

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

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

Preservatives: H=Hcl N=$HNO_3$ S=$H_2SO_4$ C=4°C Z=Zn(AC)$_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: White with report, Yellow to folder, Pink to submitter.