October 16, 2008

Mr. Francis Rush
Rush Property Group, LLC
2200 Adeline Street, Suite 350
Oakland, California 94607

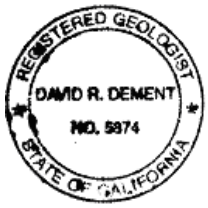
RE: Subsurface Investigation Report
1549 32nd Street, California
Fuel Leak Case No. RO2508
ERS Project No. 1005-01.00

Dear Mr. Rush:

Enclosed please find one copy of the Subsurface Investigation Report for the property located at 1549 32nd Street, Oakland, California. The primary focus of this subsurface investigation was to determine subsurface site conditions and address concerns of the Alameda County Health Care Services Agency (ACHCSA).

If you have any questions about this report, please contact me at (925) 938-1600, extension 109 or email me at ddement@erscorp.us.

Sincerely,




David DeMent, PG, REA II
Senior Geologist

cc: Mr. Paresh Khatri, ACHCSA

Enclosure

# SUBSURFACE INVESTIGATION

# REPORT

**1549 32nd Street**
**Oakland, California**

***Prepared for:***
Mr. Francis Rush
Rush Property Group, LLC
2200 Adeline Street, Suite 350
Oakland, California 94607

***Prepared by:***
Environmental Risk Specialties Corporation
Walnut Creek, California

**October 16, 2008**

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## 1.0 INTRODUCTION

This *Subsurface Investigation Report* has been prepared by Environmental Risk Specialties Corporation (ERS) at the request of Rush Property Group, LLC (Client). This report describes subsurface investigation work performed at the site located at 1549 32nd Street, Oakland, California (Site). The purpose of this subsurface investigation was to further determine subsurface site conditions in select areas of the Site and address concerns of the Alameda County Health Care Services Agency (ACHCSA).

The work performed consisted of advancing nine exploratory soil borings to depths ranging from 12.0 to 24.0 feet bgs, logging encountered soils, collecting representative soil and grab groundwater samples from the borings, and analyzing the samples for constituents of concern. The basic goal of the work was to determine the approximate degree and extent of residual petroleum hydrocarbon and volatile organic compound impacts in soil and groundwater following previously performed soil remediation at the Site.

## 2.0 BACKGROUND

The Site is located on the southeast corner of 32nd Street and Hannah Street at 1549 32nd Street, Oakland, California (Figure 1). The Site formerly operated as a steel foundry that heat-treated metal products. According to a January 4, 2001 *Phase I Environmental Site Assessment* Report prepared by Lumina Technologies, the property was developed with the current building in 1946 and operated as a metal heat treating facility. City of Oakland Fire Department records indicate the facility operated under the name of Precision Cast, a steel foundry and heat-treating operation, from 1983 to 2002. A small putty/paint factory also operated at 2885 Hannah Street, but the years of operation are unknown.

ACC Environmental Consultants, Inc (ACC) previously submitted a *Request for Regulatory Closure Summary*, dated August 7, 2006, that summarized previous subsurface investigation and remediation work at the Site, and prepared an *Addendum to Request for Regulatory Closure Summary*, dated December 14, 2006 that further elaborated on the issue of volatile organic compounds and perceived data gaps. The ACHCSA subsequently requested for additional investigation in a letter dated March 27, 2007. ACC prepared a *Revised Work Plan - Subsurface Investigation*, dated April 4, 2008, which ERS implemented and is summarized in this Report.

## 2.1 Previous Site Investigation

In 1988, Property Contamination Control, Inc (PCC) conducted a soil investigation consisting of four exploratory soil borings. PCC reported relatively minor concentrations of ethanol, methanol, 1,1-dichloroethene (1,1-DCE), and metals in soil. Soil sample locations and depth are unknown.

In March 2002, ERAS Environmental, Inc. (ERAS) advanced four soil borings with a hand auger and reported "elevated" concentrations of total recoverable petroleum hydrocarbons (TRPH) and relatively minor concentrations of benzene, toluene, ethylbenzene and total xylenes (BTEX) in soil as approximately 3.0 feet below ground surface (bgs) in three of the four borings. In November 2002, ERAS analyzed a sample of oil from an excavation pit located near the southeast corner of the building and reported oil resembling mineral oil, foundry quenching oil, or similar material.

In April 2002, Environmental Restoration Services (Enrest) advanced seven soil borings and reported observing free-phase floating oil in boring SB-6. In addition, Enrest determined that a pipe identified by ERAS was actually a waste percolation well. The percolation well was 7 feet deep, perforated from 5.5 feet to 7.0 feet bgs, and surrounded by drain rock from approximately 5 to 10 feet bgs. On April 26, 2002, Enrest demolished the concrete lining of Pit B and excavated soil to 12 feet bgs. Enrest also excavated casting sand backfill from Pit A and Pit C, and identified another suspect percolation well near the southeast corner of the building.

In May 2002, Enrest excavated soil in the vicinity of soil boring SB-6 and in the vicinity of the suspect percolation well in the southeast corner of the Site. Enrest also advanced three soil borings to collect grab groundwater samples north, west, and south of soil boring SB-6, designated SP-1, SP-2, and SP-3. Grab groundwater sample analytical results reported elevated concentrations of motor-oil range petroleum hydrocarbons, relatively minor concentrations of BTEX, 1,2-dichlorobenzene, and naphthalene.

In May 2003, ERAS advanced eleven soil borings to depths of approximately 16 to 20 feet bgs, collected soil and grab groundwater samples, and converted three of the soil borings to temporary piezometers. The piezometers were surveyed and the calculated groundwater flow direction and gradient were west to northwest at 0.03 foot per foot. Soil sample analytical results reported minor to elevated concentrations of total petroleum hydrocarbons (TPH), varying minor volatile organic compound (VOC) concentrations. Grab groundwater sample analytical results reported relatively low TPH concentrations in soil borings E-6, E-9, and E-10 and minor concentrations of

dissolved metals. VOC analytical results were reported below laboratory reporting limits.

Concurrenlty, ERAS sampled the contents of six subsurface concrete vaults. Vault contents were described as poorly graded sand. All available analytical results of previous investigations are summarized in ACC's August 7, 2006 *Request for Regulatory Closure Summary* and April 4, 2008 *Revised Work Plan - Subsurface Investigation*.

## 2.2 Remedial Soil Removal

In April 2002, Enrest demolished the concrete lining of Pit B and excavated soil to 12 feet bgs. An oil sheen was noted on groundwater that entered the excavation pit. Enrest also excavated sand backfill from Pit A and Pit C. The volume of removed soil is unknown. In or before May 2002, Enrest excavated soil in the vicinity of soil boring SB-6 and around the second 4-inch diameter pipe identified as a waste percolation well.

Between September 2003 to January 2004, ERAS oversaw remedial soil excavation designed to remove soil containing TPH as hydraulic oil above 500 milligrams per kilogram (mg/kg). The limits of soil excavation are shows on ERAS figure 2. Soil was removed in three locations: 1) inside the northeast corner of the building (designated "north"); 2) inside the southeast portion of the building to the building perimeter (designated "middle"); and 3) outside the building on the south side (designated "south"). Approximately 845 cubic yards of soil was removed from the "north" excavation, approximately 1,950 cubic yards of soil was removed from the "middle" excavation, and approximately 407 cubic yards of soil was removed from the "south" excavation, for a total of approximately 3,202 cubic yards. Excavated soil was properly profiled and disposed at Forward landfill, Manteca, California under profile No. 3786. Following remedial soil excavation, confirmatory sidewall and excavation bottom soil samples were collected and analyzed for constituents of concern.

All analytical results of remedial soil excavation activities are summarized in ACC's *Revised Work Plan - Subsurface Investigation* dated April 4, 2008.

## 2.3 Verification Site Investigation

In April 2005, Enrest conducted verification site investigation and advanced fifteen soil borings primary around the perimeter of the Site. The purpose was to collect representative soil and groundwater samples at the perimeter of the property to evaluate the effectiveness of remedial soil excavation performed from September 2003

to January 2004. Soil samples were generally collected at 4 and 9 feet bgs and grab groundwater samples were collected in each soil boring at approximately 15 and 25 feet bgs. In addition, Enrest collected representative soil samples from imported material used to backfill the remedial soil excavations and analyzed the samples for constituents of concern.

Enrest also collected two representative soil gas samples for chemical analysis. None of the reported VOC concentrations reported in the two soil gas samples indicated that a significant source of residual VOCs exist in the subsurface.

All analytical results of previous investigations are summarized in ACC's *Revised Work Plan - Subsurface Investigation* dated April 4, 2008.

## 3.0 FIELD PROCEDURES

On September 18, 2008, ERS advanced nine exploratory soil borings EB1 through EB9 at selected locations across the Site and at one neighboring residential property located at 2859 Helen Street. These additional soil borings were specifically advanced at selected locations to further characterize the vertical and lateral extent of constituents of concern in soil and groundwater. Soil borings EB5 and EB9 were advanced at an approximate angle of 20 degrees from vertical to assess soil and groundwater of adjacent neighboring properties 2851 Helen Street and 2863 Helen Street. Soil boring locations were marked with white paint and Underground Service Alert was notified at least 48 hours prior to commencing work. In addition, a subsurface utility locator cleared the area of the proposed boring locations and marked underground utilities. A soil borings permit was obtained from the Alameda County Public Works Agency (ACPWA). A copy of the permit is included in Appendix 1.

With the exception of soil borings EB3 and EB4, the continuously cored borings were advanced using a four-foot long, hydraulically driven, truck-mounted Geoprobe® sampling tool equipped with 2-inch inside-diameter clear acetate liners. Soil borings EB3 and EB4 were continuously cored using limited access Geoprobe® equipment. The sampling probe and rods were pre-cleaned prior to use and between sample drives by washing them with a trisodium phosphate and potable water solution, and a potable water rinse. Upon removal from the sampler, each recovered soil core was visually inspected and logged. The sample intervals were primarily logged to determine relative permeability and evaluate migration potential at that soil boring location. Soil samples were collected from each soil boring. Soil at approximate 4-foot intervals was screened with the use of a miniRAE photo-ionization detector (PID) and PID readings were utilized

to assist in choosing soil samples for chemical analysis. The soil cores were collected with acetate liners and specific soil core intervals chosen for analysis were capped with Teflon® sheeting and tight-fitting plastic end caps, labeled, and immediately placed in a pre-chilled insulated container. Sample locations are shown on Figure 2.

Grab groundwater samples were collected in soil borings EB3 through EB9 by advancing the probe into the water bearing formation, installing new polyvinyl chloride (PVC) casing and retrieving first-encountered groundwater with disposable polyethylene tubing and a peristaltic pump. Grab groundwater samples were collected in laboratory-supplied 40-milliliter VOA vials without headspace and amber liter bottles. Following collection, the grab groundwater samples were labeled, transferred to a pre-chilled insulated container, and then transported directly to Curtis and Tompkins Ltd, a state-certified laboratory for analysis.

Drilling was performed under the direction of ERS's Staff Geologist, and the subsurface materials in the borings were identified using visual and manual methods. Soils in each soil boring were logged and classified during drilling operations according to the Unified Soil Classification System (USCS). Lithologic logs of the soil borings are included as Appendix 2. Following drilling and sample collection, each boring location was abandoned with neat cement and a tremie pipe to the surface according to ACPWA requirements.

## 4.0 FINDINGS

### 4.1 Subsurface Conditions

The surface of the Site is unpaved. With the exception of soil borings EB1 and EB2, soils encountered consisted primarily of moderately dense, black to dark brown gravel-sand-silt mixtures to depths ranging from 2 to 7 feet bgs. These soils were underlain by moderately plastic, medium stiff, uniform silty clays to depths ranging from 20 to 24 feet bgs. Saturated silty sands were observed in soil boring EB3 between 18 to 20 feet bgs, EB4 between 20 to 22 feet bgs, and EB9 between 15 to 20 feet bgs. A slight unknown odor was noted in soil borings EB5 and EB9 from approximately 6.5 to 7.4 feet bgs. Gravel stringers were also noted in soil borings EB6 between 19.5 to 20.0 feet bgs and EB7 between 15.0 to 15.5 feet bgs.

Groundwater was encountered between 9 and 21 feet bgs. ERS was not able to determine the degree of groundwater confinement, but noted groundwater rose approximately 3 feet in the soil borings after encountering saturated soils.

Generally, soils to an approximate depth of 24 feet bgs exhibited very low to moderate estimated permeability and soils were predominantly silty clays with varying amounts of disseminated or interbedded gravels and sands to approximately 24 feet bgs.

## 4.2 Analytical Results

Select soil samples were analyzed for TEPH as diesel-range and motor oil-range petroleum hydrocarbons and halogenated VOCs (HVOCs). TEPH soil sample analytical results are summarized in Table 1 and HVOC results are summarized in Table 2.

**TABLE 1 – SOIL SAMPLE TEPH ANALYTICAL RESULTS**

| Sample ID | Depth (ft bgs) | TEPH as Diesel (mg/kg) | TEPH Motor Oil (mg/kg) |
|---|---|---|---|
| EB1-4.0 | 4.0 | 52 | 370 |
| EB1-8.0 | 8.0 | **250** | 230 |
| EB1-12.0 | 12.0 | <0.99 | <5.0 |
| EB2-4.0 | 4.0 | 22 | 130 |
| EB2-8.0 | 8.0 | 33 | 140 |
| EB2-12.0 | 12.0 | <0.99 | <5.0 |
| EB3-9.0 | 9.0 | 12 | 7.3 |
| EB3-15.5 | 15.5 | 2.7 | <5.0 |
| EB4-9.0 | 9.0 | 2.3 | <5.0 |
| EB4-16.5 | 16.5 | 4.3 | <5.0 |
| EB5-7.4 | 7.4 | **5,500** | 2,500 |
| EB5-16.0 | 16.0 | 11 | <5.0 |
| EB6-7.5 | 7.5 | <1.0 | <5.0 |
| EB6-16.0 | 16.0 | <1.0 | <5.0 |
| EB7-7.5 | 7.5 | 2.2 | <5.0 |
| EB7-15.0 | 15.0 | 2.4 | <5.0 |
| EB8-7.5 | 7.5 | 3.3 | 8.8 |
| EB8-16.0 | 16.0 | 1.7 | <5.0 |
| EB9-7.4 | 7.4 | **1,700** | 670 |
| EB9-15.5 | 15.5 | **290** | 130 |
| **Commercial/Industrial ESL** | | **180** | **2,500** |

Note: *milligrams per kilogram (mg/kg) approximately equal to parts per million (ppm)*
*ESL = Environmental Screening Level (RWQCB, Table B and D)*
***Bolded** values exceed Commercial/Industrial ESL*

**TABLE 2 – SOIL SAMPLE HVOC ANALYTICAL RESULTS**

| Sample ID | Depth (ft bgs) | Tetrachloroethene (mg/kg) | Other HVOCs (mg/kg) |
|---|---|---|---|
| EB1-4.0 | 4.0 | <0.0048 | <RL |
| EB1-8.0 | 8.0 | <0.005 | <RL |
| EB2-4.0 | 4.0 | <0.0049 | <RL |
| EB2-8.0 | 8.0 | <0.0047 | <RL |
| EB3-9.0 | 9.0 | <0.0049 | <RL |
| EB4-9.0 | 9.0 | <0.005 | <RL |
| EB5-7.4 | 7.4 | <0.0049 | <RL |
| EB6-7.5 | 7.5 | 0.048 | <RL |
| EB7-7.5 | 7.5 | <0.0046 | <RL |
| EB8-7.5 | 7.5 | <0.0048 | <RL |
| EB9-7.4 | 7.4 | <0.0049 | <RL |
| **Commercial/Residential ESL** | | **0.95** | **NA** |

Note: *milligrams per kilogram (mg/kg) approximately equal to parts per million (ppm)*
*ESL = Environmental Screening Level (RWQCB, Table B and D)*
*<RL = Reported below respective laboratory detection limit (see reports)*

Select soil samples were analyzed for the 5 LUFT metals as lead, cadmium, chromium, nickel, and zinc. LUFT metal soil sample analytical results are summarized in Table 3.

**TABLE 3 – SOIL SAMPLE METAL ANALYTICAL RESULTS**

| Sample ID | Depth (ft bgs) | Cadmium (mg/kg) | Chromium (mg/kg) | Lead (mg/kg) | Nickel (mg/kg) | Zinc (mg/kg) |
|---|---|---|---|---|---|---|
| EB1-4.0 | 4.0 | 2.0 | 37 | 38 | 20 | 34 |
| EB1-8.0 | 8.0 | 1.8 | 28 | 34 | 20 | 36 |
| EB2-4.0 | 4.0 | 0.76 | 42 | 20 | 33 | 43 |
| EB2-8.0 | 8.0 | 0.72 | 29 | 13 | 39 | 43 |
| **Residential/ Commercial ESL** | | **1.7/7.4** | **750/750** | **200/750** | **150/150** | **600/600** |

Note: *milligrams per kilogram (mg/kg) approximately equal to parts per million (ppm)*
*ESL = Environmental Screening Level (RWQCB, Table B)*

Each grab groundwater sample was analyzed for TEPH and HVOCs. Grab groundwater results for TEPH are summarized in Table 4 and HVOC and TPHg analytical results are summarized in Table 5.

## TABLE 4 – GROUNDWATER SAMPLE TEPH ANALYTICAL RESULTS

| Sample ID | Depth (ft bgs) | TEPH as Diesel (µg/L) | TEPH Motor Oil (µg/L) |
|---|---|---|---|
| EB3-W-18.5 | 18.5 | **730** | **610** |
| EB4-W-21.0 | 21.0 | 69 | <300 |
| EB5-W-21.0 | 21.0 | 150 | <300 |
| EB6-W-21.0 | 21.0 | 73 | <300 |
| EB7-W-15.5 | 15.5 | **1,400** | **1,600** |
| EB8-W-8.5 | 8.5 | **3,100** | **650** |
| EB9-W-15.5 | 15.5 | 51 | <300 |
| **Commercial/Industrial ESL** | | **210** | **210** |

Note: *micrograms per liter (µg/L) approximately equal to parts per billion (ppb)*
*ESL = Environmental Screening Level (RWQCB, Table B and D)*
***Bolded** values exceed Commercial/Industrial ESL*

## TABLE 5 – GROUNDWATER SAMPLE TPHg/VOCs ANALYTICAL RESULTS

| **Constituent** | EB3-W-18.5 | EB4-W-21.0 | EB5-W-21.0 | EB6-W-21.0 | EB7-W-15.5 | EB8-W-8.5 | EB9-W-15.5 | **ESL** |
|---|---|---|---|---|---|---|---|---|
| TPHg | N/A | N/A | N/A | **15,000*** | <50 | **460** | N/A | **210** |
| Trichloroethene | <RL | <RL | <RL | <RL | 4.3 | <RL | <RL | **360** |
| Tetrachloroethene | <0.5 | <0.5 | 1.6 | **11,000** | 7.1 | <0.5 | 2.1 | **120** |
| Ethylbenzene | <RL | <RL | <RL | <RL | <RL | 5.0 | <RL | **43** |
| M,p-Xylenes | <RL | <RL | <RL | <RL | <RL | 1.3 | <RL | **100** |
| Isopropylbenzene | <RL | <RL | <RL | <RL | <RL | 2.0 | <RL | **---** |
| Propylbenzene | <RL | <RL | <RL | <RL | <RL | 3.2 | <RL | **---** |
| 1,3,5-Trimethylbenzene | <RL | <RL | <RL | <RL | <RL | 1.8 | <RL | **---** |
| 1,2,4-Trimethylbenzene | <RL | <RL | <RL | <RL | <RL | 5.5 | <RL | **---** |
| Sec-Butylbenzene | <RL | <RL | <RL | <RL | <RL | 5.0 | <RL | **---** |
| n-Butylbenzene | <RL | <RL | <RL | <RL | <RL | 3.7 | <RL | **---** |
| Napthalene | <RL | <RL | <RL | <RL | <RL | **94** | <RL | **24** |

*Note: Analytical Results reported in micrograms per liter (µg/L) approximately equal to parts per billion (ppb)*
*ESL = Commercial/Industrial Environmental Screening Level (RWQCB, Table B and D)*
***Bolded** values exceed Commercial/Industrial ESL*
*<RL = Reported below laboratory detection limit (see reports)*
** = Result flagged by the laboratory as primarily due to single spike and not resembling TPHg (see reports)*

A copy of the analytical results and chain of custody record is included as Appendix 3.

## 5.0 DISCUSSION

ERS advanced nine exploratory soil borings, designated EB1 through EB9, in select locations across the Site and at a neighboring residential property located at 2859 Helen Street. Soil borings EB1 and EB2 were advanced to characterize fill material used to backfill the "north" and "middle" excavations. Soil borings EB3 and EB4 were advanced at the neighboring property located at 2859 Helen Street. Due to the property owner's refusal to provide access, ERS was not able to advance soil boring EB5 in the backyard of 2851 Helen Street as proposed in ACC's *Revised Work Plan - Subsurface Investigation*. In order to address ACHCSA concerns regarding soil and groundwater at the eastern limit of the soil excavation, ERS advanced soil borings EB5 at an approximate 20 degree angle in a west to east direction to collect soil and grab groundwater samples east of the perimeter of the property. In addition, soil boring EB9 was advanced in a similar fashion to soil boring EB5 to characterize soil adjacent to the property boundary of 2863 Helen Street. Soil boring EB8 was advanced to investigate the former "dist" tank. Soil borings EB6 and EB7 was advanced to evaluate soil and groundwater in the footprint of the former "putty & paint" factory.

Logging encountered soils confirmed that uniform, medium stiff, low to moderate permeability silty clays are the predominant soil type to approximately 24 feet bgs. Groundwater was generally observed at 15 to 21 feet bgs, depending on the permeability of the soil at the soil/groundwater interface, and appeared to rise approximately 3 feet bgs in the borings. Based on this observation in September, we believe groundwater is semi-confined during most of the calendar year.

Soil samples collected in backfilled areas reported varying relatively low concentrations of petroleum hydrocarbons and LUFT metals. The reported petroleum hydrocarbon concentrations are indicative of incidental residential/commercial impacts and the reported metal concentrations are consistent and indicative of naturally occurring background conditions. Since cadmium exceeded its residential ESL in two of the four analyzed soil samples, we evaluated available cadmium concentrations in shallow soil to evaluate background levels in this geographic region. In June 2008, ERS collected 6 soil samples from 2.0 feet bgs and 6 soil samples from 5.5 feet bgs at 4050 Horton Street and analyzed them for the CAM 17 metals. This project is located 0.47 miles north of the Site. Cadmium concentrations at 2.0 feet bgs ranged from 0.74 to 1.5 mg/kg, and concentrations at 5.5 feet bgs ranged from 0.79 to 1.0 mg/kg. Based on this comparison to nearby cadmium concentrations in shallow soil, and consistent metal concentrations in general, it is reasonable to assume that the reported cadmium concentrations in soil used to backfill excavations at the Site is generally representative of regional levels.

With one exception, soil samples collected between 15 to 16.5 feet bgs in soil borings EB3 through EB9 reported only minor concentrations of TEPH ranging from 1.7 mg/kg to 11 mg/kg. In extra soil boring EB9 (advanced primarily to obtain a grab groundwater sample), 290 mg/kg TEPH as diesel and 130 mg/kg TEPH as motor oil were reported at 15.5 feet in silty sand below the depth of first encountered groundwater. Therefore, the petroleum hydrocarbons reported in soil sample EB9-15.5 could potentially be the result of previous contact with impacted groundwater. The general lack of detectable petroleum hydrocarbons below approximately 15 feet bgs is consistent with the low permeability soils observed at the Site and previously reported analytical results in sidewall soil samples.

Offsite groundwater characterization data was obtained in vertical soil borings EB3 and EB4 and in angled soil borings EB5 and EB9, and potentially in soil boring EB6. Soil borings EB3 and EB4 reported detectable concentrations of TEPH with significant attenuation from EB3 to EB4, decreasing from a total TEPH of 1,340 µg/L to a total TEPH of 219 µg/L (assuming TEPH as motor oil is present at half its reporting limit of 300 µg/L). If TEPH decreases in a similar manner every 12 feet in groundwater as it migrates east toward the residence at 2859 Helen Street, the total TEPH concentration at the residence at 2859 Helen Street would approximate 5.8 µg/L.

While 20 feet deep angled soil borings would only move the actual collection point of the grab groundwater sample approximately 6.8 feet horizontally, ERS attempted to advance soil borings EB5 and EB9 at approximate 20 degree angles off vertical towards the residences at 2851 Helen and 2863 Helen, respectively. This angle was the maximum allowed by the truck-mounted Geoprobe equipment. The grab groundwater sample collected in soil boring EB5 reported 150 µg/L TEPH as diesel, TEPH as motor oil less than the reporting limit of 300 µg/L, and 1.6 µg/L Tetrachloroethene (PCE). The grab groundwater sample collected in soil boring EB9 reported 51 µg/L TEPH as diesel, TEPH as motor oil less than the reporting limit of 300 µg/L, and 2.1 µg/L PCE. Grab groundwater samples reported varying minor concentrations of TEPH and generally did not correlate with TEPH impacts in overlying soil. Generally, TEPH concentrations in first encountered groundwater were relatively low approximately 7 feet east of soil boring locations EB5 and EB9 despite elevated TEPH concentrations reported in soil samples collected in each soil boring at 7.4 feet bgs.

Soil borings EB6 through EB8 were advanced in select locations to further characterize groundwater in the southern portion of the Site or characterize previously uncharacterized areas adjacent to the "Putty & Paint" Factory and the former "Dist" tank. Soil boring EB6 was specifically located adjacent to soil boring B18, which

previously reported 1,640 µg/L TPHg in groundwater. The grab groundwater sample collected in EB6 at 21 feet bgs reported 73 µg/L TEPH as diesel, TEPH as motor oil less than the reporting limit of 300 µg/L, 15,000 µg/L TPHg, and 11,000 µg/L PCE. Since the laboratory flagged the TPHg as not resembling the gasoline chromatograph pattern and primarily being due to a single peak, it is most likely due to the reported PCE in groundwater. Similarly, the 1,640 µg/L TPHg reported in soil boring B18 was most likely PCE. The source of the PCE is unknown. The grab groundwater sample collected in soil boring EB7 reported 1,400 µg/L TEPH as diesel, 1,600 µg/L TEPH as motor oil, and 7.1 µg/L PCE. The grab groundwater sample collected in soil boring EB8 reported 3,100 µg/L TEPH as diesel, 650 µg/L TEPH as motor oil, and 94 µg/L naphthalene. Based on observed soils in the soil boring and the anomalously shallow depth of first encountered groundwater, we believe saturated soils at 8.5 feet in soil boring EB8 are perched water in the vicinity of the removed former "dist" tank and not representative of regional groundwater observed between 15 and 21 feet bgs.

## 6.0 CONCLUSIONS

Based on sample analytical results and field observations, ERS has concluded the following:

- Soils at the Site to 15 feet bgs are primarily medium stiff to stiff, moderately plastic silty clays with low to moderate estimated permeability;

- Site observations and soil sample analytical results indicate that TEPH impacts exist in soil and groundwater at the property boundaries with 2851, 2859, and 2863 Helen Street, and TEPH-impacted soil primarily exists at depths of approximately 7 to 15 feet bgs;

- Reported TEPH concentrations in soil and the depth of TEPH-impacted soil are generally consistent with previously reported data and grab groundwater results, and indicate that TEPH impacts in groundwater do not pose an unacceptable human health risk;

- Additional characterization has demonstrated that soil imported from Berkeley to backfill the excavations contains incidental petroleum hydrocarbons but generally meets acceptable soil quality standards and the soil was suitable for use as excavation backfill;

- Saturated soils at the Site below 15 feet bgs are primarily silty sands with moderate estimated permeability due to disseminated fines;

- Grab groundwater sample analytical results suggest that TEPH impact in groundwater is relatively minor and largely localized in the vicinity of the remediated areas of the Site;

- Grab groundwater samples collected at angled soil borings EB5 and EB9 appear to adequately address contaminant concerns at the property boundary of 2851 Helen Street and 2863 Helen Street;

- Additional subsurface investigation along the eastern border of the Site is not warranted and significant TEPH impacts in groundwater do not appear to be migrating in the estimated upgradient direction;

- PCE was reported in three of seven grab groundwater samples at concentrations of 1.6 µg/L, 7.1 µg/L, and 11,000 µg/L PCE was reported in the grab groundwater sample collected in soil boring EB6 advanced at the property boundary; and

- The source of PCE reported in EB6 is unknown, but based on the low concentration of PCE in soil boring EB7 and lack of PCE in soil boring EB8, is mostly due to an offsite source or illegal dumping in the vicinity of soil boring EB6; and

- With the exception of PCE in EB6, data obtained during this investigation was generally consistent with previously performed investigation and supports regulatory no further action.

## 7.0 RECOMMENDATIONS

Based on conclusions of this investigation, ERS recommends the following:

- Submit a copy of this report to the ACHCSA for review and discuss the possible need to further characterize soil and groundwater in the vicinity of soil boring EB6 for PCE;

- During any future site redevelopment, sample any soil exhibiting field indications of potential impact such as noticeable odor, soil discoloration, and/or fill materials for potential constituents of concern; and

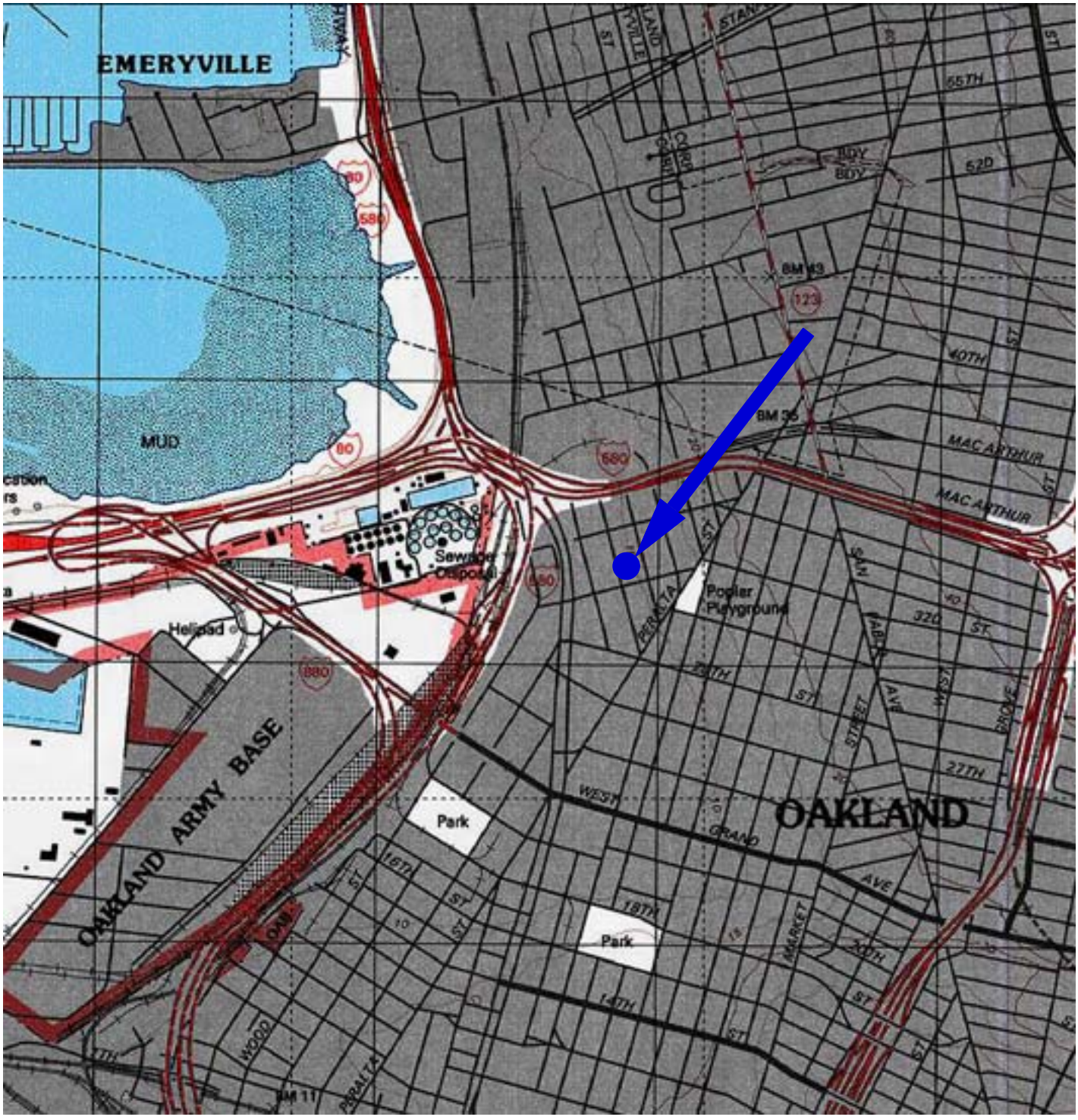
- Pending resolution of the PCE issue in soil boring EB6, request regulatory no further action in regards to the former remedial soil excavation and identified subsurface TEPH impacts associated with historic Site use as a metal heat treatment facility.

## 8.0 LIMITATIONS

The service performed by ERS has been conducted in a manner consistent with the levels of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the area. No other warranty, expressed or implied, is made.

The conclusions presented in this report are professional opinions based on the indicated data described in this report and applicable regulations and guidelines currently in place. They are intended only for the purpose, site, and project indicated. Opinions and recommendations presented herein apply to site conditions existing at the time of our study.

ERS has included analytical results from a state-certified laboratory, which performs analyses according to procedures suggested by the U.S. Environmental Protection Agency and the State of California. ERS is not responsible for laboratory errors in procedure or result reporting.

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**Location Map**

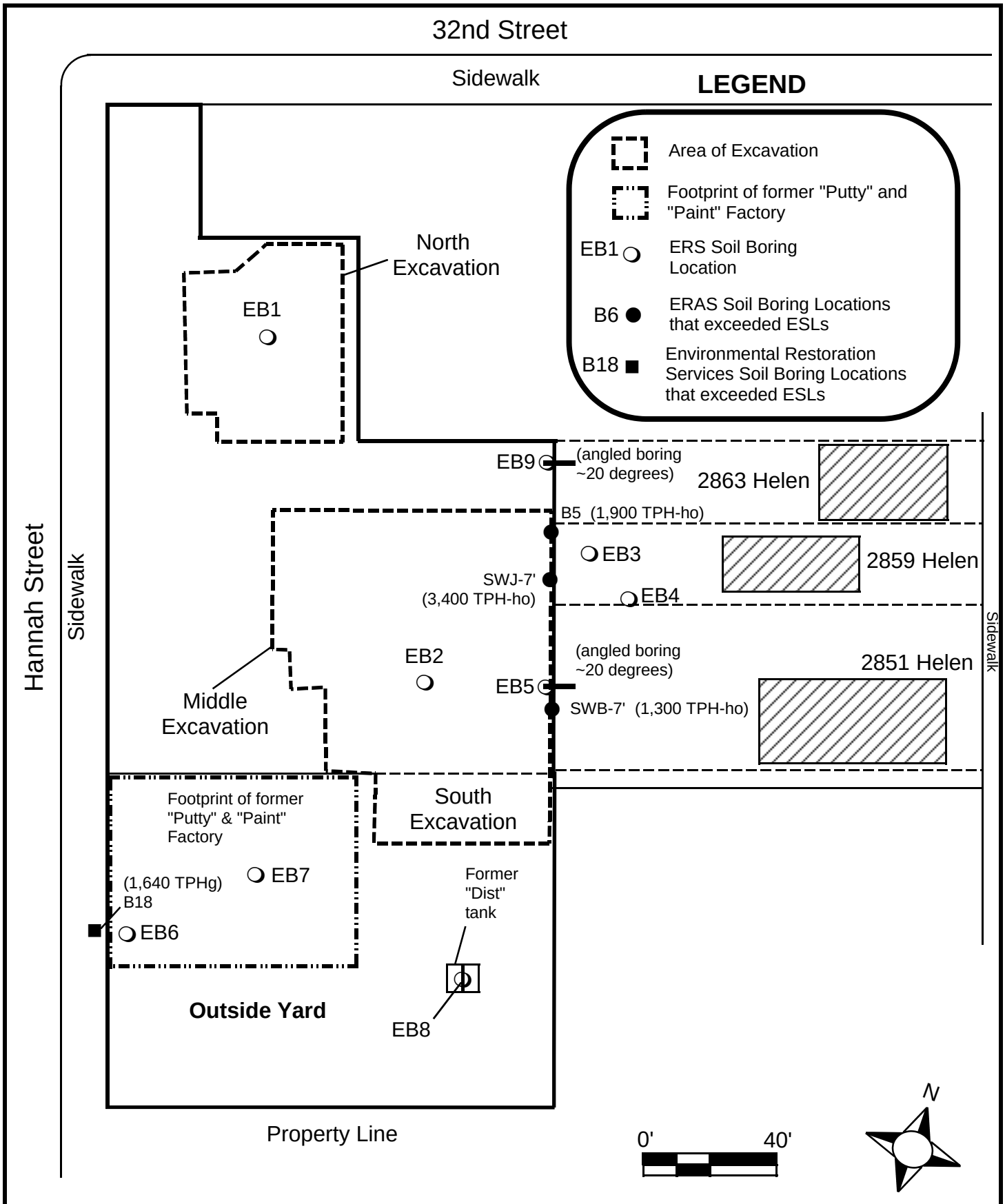
**1549 32nd Street, Oakland, California**

Source: National Geographic TOPO!

**Figure 1**

ers

Environmental Risk Specialties Corporation




**Site Plan**

**1549 32nd Street, Oakland, California**

Source: ACC Revised Work Plan, April 4, 2008

**Figure** 2

ers

Environmental Risk Specialties Corporation

# Alameda County Public Works Agency - Water Resources Well Permit

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

**Application Approved on: 09/09/2008 By jamesy**

**Permit Numbers: W2008-0634**
**Permits Valid from 09/18/2008 to 09/18/2008**

**Application Id:** 1220979537843
**City of Project Site:** Oakland
**Site Location:** 1549 32nd St, Oakland, CA
**Project Start Date:** 09/18/2008
**Completion Date:** 09/18/2008
**Requested Inspection:** 09/18/2008
**Scheduled Inspection:** 09/18/2008 at 1:30 PM (Contact your inspector, Ron Smalley at (510) 670-5407, to confirm.)

**Applicant:** Environmental Risk Specialties ERS) - Ken Blume
1600 Riviera Avenue #310, Walnut Creek, CA 94596
**Phone:** 925-938-1600 x103

**Property Owner:** Rush Property Group LLC
2200 Adeline St #350, Oakalnd, CA 94607
**Phone:** 510-763-7165

**Client:** ** same as Property Owner **

**Total Due:** $230.00
**Receipt Number: WR2008-0315** **Total Amount Paid:** $230.00
**Payer Name : Environmental Risk Specialties** Paid By: CHECK **PAID IN FULL**

---

**Works Requesting Permits:**

Borehole(s) for Investigation-Contamination Study - 8 Boreholes
Driller: Environmental Control Associates - Lic #: 695970 - Method: auger **Work Total: $230.00**

**Specifications**

| Permit Number | Issued Dt | Expire Dt | # Boreholes | Hole Diam | Max Depth |
|---|---|---|---|---|---|
| W2008-0634 | 09/09/2008 | 12/17/2008 | 8 | 2.00 in. | 20.00 ft |

**Specific Work Permit Conditions**

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the

permits and requirements have been approved or obtained.

5. Applicant shall contact Ron Smalley for an inspection time at 510-670-5407 or email to ronaldws@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

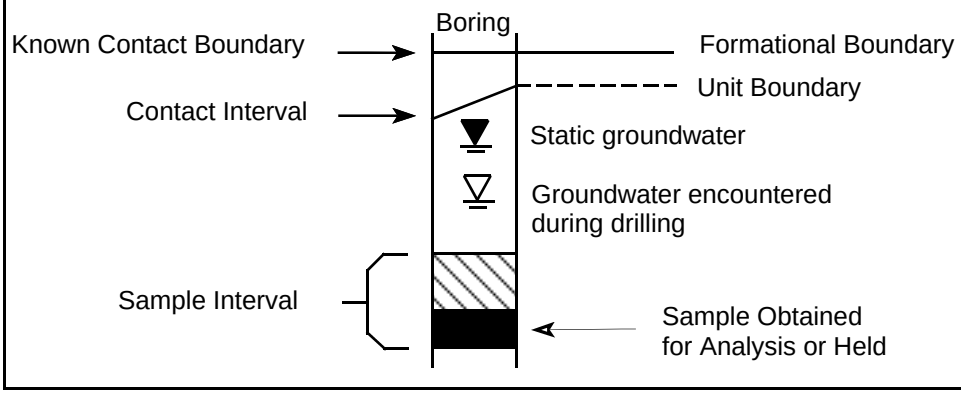
6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

7. Permit is valid only for the purpose specified herein.  No changes in construction procedures, as described on this permit application.  Boreholes shall not be converted to monitoring wells, without a permit application process.

## UNIFIED SOIL CLASSIFICATION SYSTEM

| | MAJOR DIVISIONS | | | | TYPICAL NAMES |
|---|---|---|---|---|---|
| COARSE GRAINED SOILS | GRAVELS more than half coarse fraction is larger than Number 4 sieve | CLEAN GRAVELS WITH LITTLE OR NO FINES | GW | | well graded gravels, gravel-sand mixtures |
| | | | GP | | poorly graded gravels, gravel-sand mixtures |
| | | GRAVELS WITH OVER 12% FINES | GM | | silty gravels, poorly graded gravel-sand silt mixtures |
| | | | GC | | clayey gravels, poorly graded gravel-sand clay mixtures |
| | SANDS more than half coarse fraction is smaller than Number 4 sieve | CLEAN SANDS WITH LITTLE OR NO FINES | SW | | well graded sands, gravelly sands |
| | | | SP | | poorly graded sands, gravelly sands |
| | | SANDS WITH OVER 12% FINES | SM | | silty sands, poorly graded sand-silt mixtures |
| | | | SC | | clayey sands, poorly graded sand-clay mixtures |
| FINE GRAINED SOILS | SILTS AND CLAYS liquid limit less than 50 | | ML | | inorg. silts and very fine sands, rock flour silty or clayey sands, or clayey silts w/ sl. plasticity |
| | | | CL | | inorg. clays of low-med plasticity, gravelly clays, sandy clays, silty clays, lean clays |
| | | | OL | | organic clays and organic silty clays of low plasticity |
| | SILTS AND CLAYS liquid limit greater than 50 | | MH | | inorganic silty, micaceous or diatomacious fine sandy or silty soils, elastic silts |
| | | | CH | | inorganic clays of high plasticity, fat clays |
| | | | OH | | organic clays of medium to high plasticity organic silts |
| | HIGHLY ORGANIC SOILS | | PT | | peat and other highly organic soils |

### Legend for Boring Logs




**ERS Corporation**
1600 Riviera Avenue, Suite 310
Walnut Creek, California 94596
(925) 938-1600 Fax: (925) 938-1610

Site: **1549 32nd Street**
**Oakland, California**

**EQUIPMENT: Geoprobe Hydraulic Sampling Device**
**OPERATED BY: Environmental Control Associates**
**LOGGED BY: Kenneth Blume, Staff Geologist**
**LOCATION: 1549 32nd Street, Oakland, CA**
**WORK DATE: 09/18/2008**
**BORING: EB1**

| **Soil Color** Color Code (Munsell Soil Color Chart) | PID (ppm) | SAMPLE ID | depth below ground surface (ft) | |
|---|---|---|---|---|
| | | | 0 | Gravel-Sand-Silt Mixture (GM), dense, INTERPRETED AS FILL |
| | 0 | EB1-4.0 | 4 | |
| | | | 6 | |
| | 0 | EB1-8.0 | 8 | |
| 10YR-5/6 | | | 10 | Silty Clay (CL), yellowish brown, moderately plastic, medium stiff, low estimated permeability, 10-20% fines, uniform, damp. |
| | 0 | EB1-12.0 | 12 | **TOTAL DEPTH OF BORING: 12.0 feet bgs** |
| | | | 14 | |
| | | | 16 | |
| | | | 18 | |
| | | | 20 | |
| | | | 22 | |
| | | | 24 | |
| | | | 26 | |
| | | | 28 | |

**ERS Corporation**
1600 Riviera Avenue, Suite 310
Walnut Creek, California 94596
(925) 938-1600 FAX: (925) 938-1610

Case Number **RO# 2508**

**Date: 09/19/08**

Title: **LOG OF BORING EB1**

1549 32nd Street
Oakland, California

**EQUIPMENT: Geoprobe Hydraulic Sampling Device**
**OPERATED BY: Environmental Control Associates**
**LOGGED BY: Kenneth Blume, Staff Geologist**
**LOCATION: 1549 32nd Street, Oakland, CA**
**WORK DATE: 09/18/2008**
**BORING: EB2**

| **Soil Color** Color Code (Munsell Soil Color Chart) | PID (ppm) | SAMPLE ID | depth below ground surface (ft) | |
|---|---|---|---|---|
| | | | 0 | Gravel-Sand-Silt Mixture (GM), dense, INTERPRETED AS FILL |
| | 0 | EB2-4.0 | 4 | |
| | | | 6 | |
| | 0 | EB2-8.0 | 8 | |
| 2.5Y-5/2 | | | 10 | Silty Clay (CL), olive grey, moderately plastic, medium stiff, low estimated permeability, 10-20% fines, uniform, damp. |
| | 0 | EB2-12.0 | 12 | **TOTAL DEPTH OF BORING: 12.0 feet bgs** |
| | | | 14 | |
| | | | 16 | |
| | | | 18 | |
| | | | 20 | |
| | | | 22 | |
| | | | 24 | |
| | | | 26 | |
| | | | 28 | |

**ERS Corporation**
1600 Riviera Avenue, Suite 310
Walnut Creek, California 94596
(925) 938-1600 FAX: (925) 938-1610

Case Number **RO# 2508**

**Date: 09/19/08**

Title: **LOG OF BORING EB2**

1549 32nd Street
Oakland, California

**EQUIPMENT: Geoprobe Hydraulic Sampling Device**
**OPERATED BY: Environmental Control Associates**
**LOGGED BY: Kenneth Blume, Staff Geologist**
**LOCATION: 1549 32nd Street, Oakland, CA**
**WORK DATE: 09/18/2008**
**BORING: EB3**

| **Soil Color** Color Code (Munsell Soil Color Chart) | PID (ppm) | SAMPLE ID | depth below ground surface (ft) | |
|---|---|---|---|---|
| 5Y-2.5/1 | | | 0 | Gravel-Sand-Silt Mixture (GM), black, medium dense, moderate estimated permeability, 15-30% fines to medium grain gravel, dry. |
| | | | 2 | |
| | | | 4 | |
| 10YR-5/1 | | | 6 | Silty Clay (CL), yellowish brown, moderately plastic, medium stiff, low estimated permeability, 10-20% fines to medium grain gravel, uniform, damp. |
| | 0 | EB3-9.0 | 8 | |
| | | | 10 | |
| | | | 12 | |
| | | | 14 | |
| | 0 | EB3-15.5 | 16 | |
| | | | ▽ 18 | Silty Sand (SM), yellowish brown, high estimated permeability, 10-40% fines, uniform, very moist to saturated. |
| | 0 | EB3-20.0 | 20 | **TOTAL DEPTH OF BORING: 20.0 feet bgs** |
| | | | 22 | |
| | | | 24 | |
| | | | 26 | |
| | | | 28 | |

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Case Number **RO# 2508**

**Date: 09/19/08**

Title: **LOG OF BORING EB3**

1549 32nd Street
Oakland, California

**EQUIPMENT: Geoprobe Hydraulic Sampling Device**
**OPERATED BY: Environmental Control Associates**
**LOGGED BY: Kenneth Blume, Staff Geologist**
**LOCATION: 1549 32nd Street, Oakland, CA**
**WORK DATE: 09/18/2008**
**BORING: EB4**

| **Soil Color** Color Code (Munsell Soil Color Chart) | PID (ppm) | SAMPLE ID | depth below ground surface (ft) | |
|---|---|---|---|---|
| 5Y-2.5/1 | | | 0 | Gravel-Sand-Silt Mixture (GM), black, medium dense, moderate estimated permeability, 15-30% fines to medium grain gravel, dry. |
| | | | 2 | |
| | | | 4 | |
| 10YR-5/1 | | | 6 | Silty Clay (CL), yellowish brown, moderately plastic, medium stiff, low estimated permeability, 10-20% fines to medium grain gravel, uniform, damp. |
| | 0 | EB4-9.0 | 8 | |
| | | | 10 | |
| | | | 12 | |
| | | | 14 | |
| | | | 16 | |
| | 0 | EB4-16.5 | | |
| | | | 18 | |
| | 0 | EB4-19.0 | | |
| | | | 20 ▽ | |
| | | | 22 | Silty Sand (SM), yellowish brown, high estimated permeability, 10-40% fines, uniform, very moist to saturated. |
| | | | | **TOTAL DEPTH OF BORING: 22.0 feet bgs** |
| | | | 24 | |
| | | | 26 | |
| | | | 28 | |

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Walnut Creek, California 94596
(925) 938-1600 FAX: (925) 938-1610

Case Number **RO# 2508**

**Date: 09/19/08**

Title: **LOG OF BORING EB4**

1549 32nd Street
Oakland, California

**EQUIPMENT: Geoprobe Hydraulic Sampling Device**
**OPERATED BY: Environmental Control Associates**
**LOGGED BY: Kenneth Blume, Staff Geologist**
**LOCATION: 1549 32nd Street, Oakland, CA**
**WORK DATE: 09/18/2008**
**BORING: EB5 (advanced at ~20 degree angle)**

| Soil Color (Munsell Soil Color Chart) | PID (ppm) | SAMPLE ID | depth (ft) *true vertical depth* | |
|---|---|---|---|---|
| | | | 0 | Gravel-Sand-Silt Mixture (GM), dense, INTERPRETED AS FILL |
| | | | 2 | |
| | | | 4 | |
| | | | ***3.7*** | |
| | | | 6 | |
| 2.5Y-5/2 | 0.3 | EB5-7.4 | 8 | Silty Clay (CL), olive grey, moderately plastic, medium stiff, low estimated permeability, 10-20% fines, uniform, damp, petroleum odor noted from 6.5 to 7.4 feet bgs. |
| | | | ***7.4*** | |
| | | | 10 | |
| | 0 | EB5-11.1 | 12 | |
| | | | ***11.1*** | |
| 10YR-5/6 | | | 14 | Silty Clay (CL), as above, yellowish brown, medium estimated permeability, 50 to 75% fines, moist, no odor noted. |
| | | | 16 | |
| | | | ***14.8*** | |
| | 0 | EB5-16.0 | 18 | |
| | | | 20 | |
| 2.5Y-5/2 | | | ***18.5*** ▽ | Silty Clay (CL), as above, olive grey, soft, very moist |
| | 0 | EB5-20.0 | 22 | |
| | | | 24 | |
| | | | ***22.2*** | **TOTAL DEPTH OF BORING: 22.2 feet bgs** |
| | | | 26 | |
| | | | 28 | |

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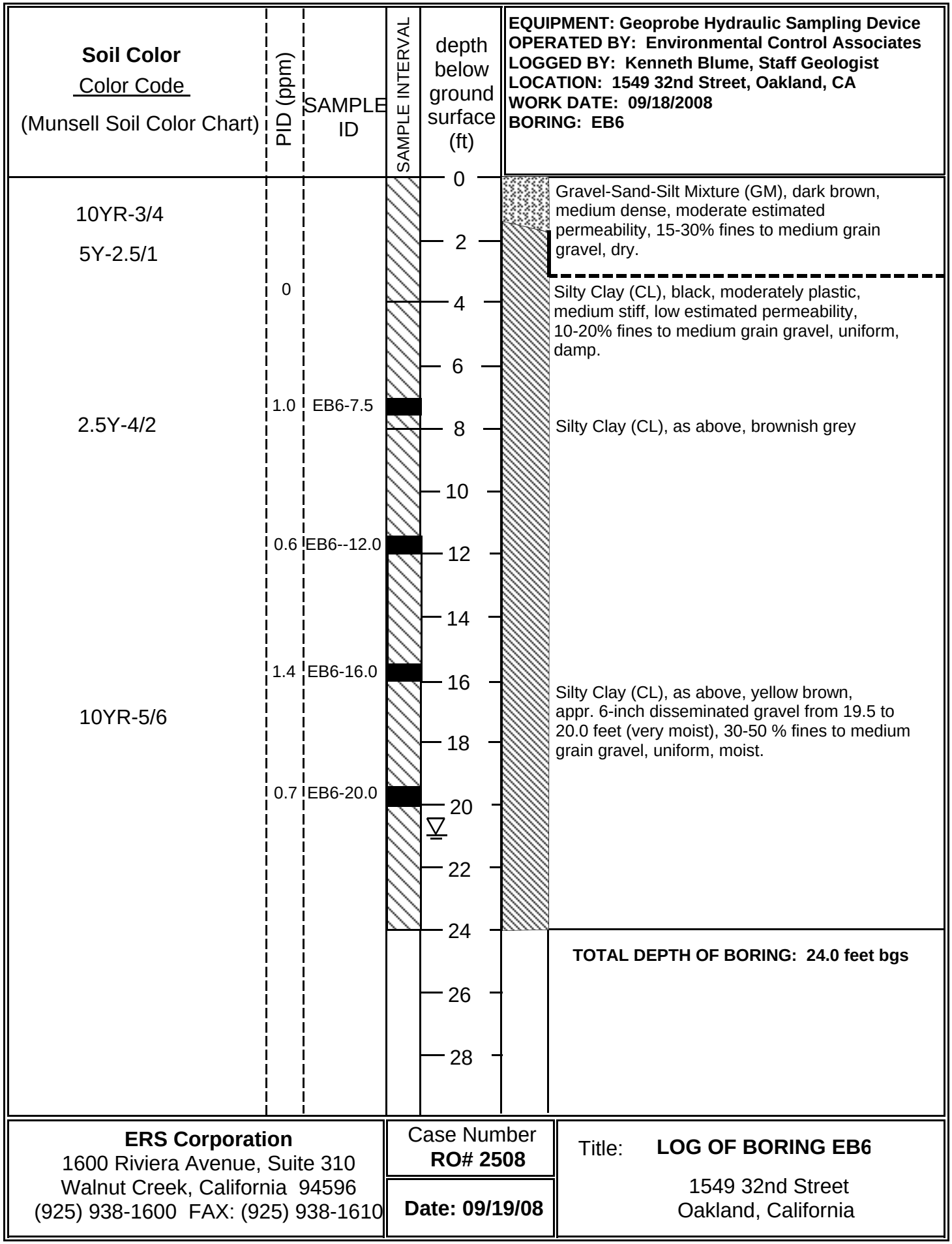
(925) 938-1600 FAX: (925) 938-1610

Case Number **RO# 2508**

**Date: 09/19/08**

Title: **LOG OF BORING EB5**

1549 32nd Street
Oakland, California




**ERS Corporation**
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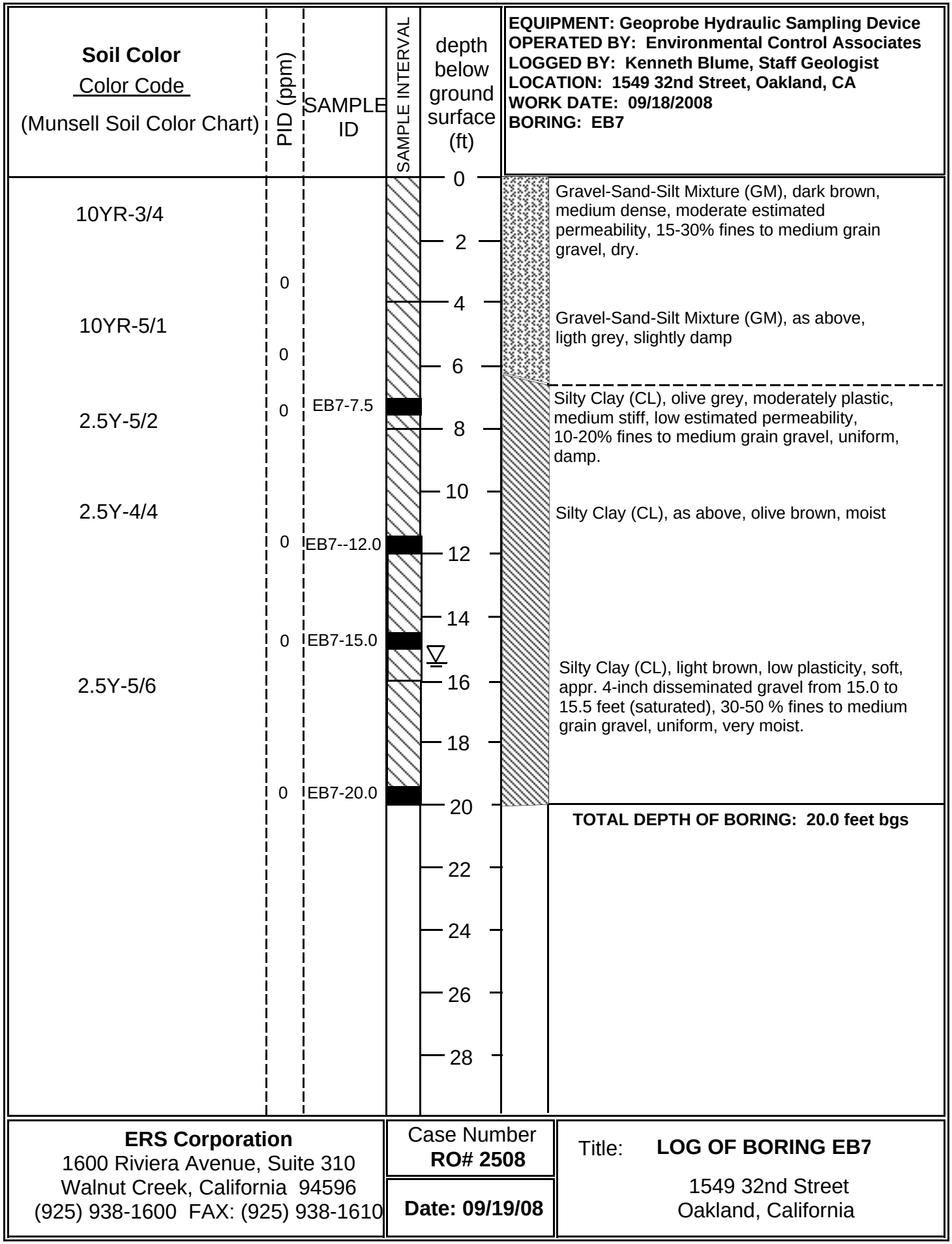
Walnut Creek, California 94596
(925) 938-1600 FAX: (925) 938-1610

Case Number
**RO# 2508**

**Date: 09/19/08**

Title: **LOG OF BORING EB6**

1549 32nd Street
Oakland, California




**ERS Corporation**
1600 Riviera Avenue, Suite 310
Walnut Creek, California 94596
(925) 938-1600 FAX: (925) 938-1610

Case Number
**RO# 2508**

**Date: 09/19/08**

Title: **LOG OF BORING EB7**

1549 32nd Street
Oakland, California

**EQUIPMENT: Geoprobe Hydraulic Sampling Device**
**OPERATED BY: Environmental Control Associates**
**LOGGED BY: Kenneth Blume, Staff Geologist**
**LOCATION: 1549 32nd Street, Oakland, CA**
**WORK DATE: 09/18/2008**
**BORING: EB8**

| Soil Color (Munsell Soil Color Chart) | PID (ppm) | SAMPLE ID | depth below ground surface (ft) | |
|---|---|---|---|---|
| | | | 0 | Gravel-Sand-Silt Mixture (GM), greyish, medium dense, moderate estimated permeability, 15-20% fines to medium grain gravel, dry. |
| 2.5YR-N3 | | | 2 | |
| 10YR-5/6 | 0 | | 4 | Gravelly Clay (CL), yellow-brown, moderately plastic, medium stiff, low estimated permeability, 10-30% fines to medium grain gravel, uniform, dry. |
| 5YR-3/3 | | | 6 | Gravelly Clay (CL), as above, reddish-brown, damp |
| | 0.1 | EB8-7.5 | | |
| 2.5Y-5/2 | 0 | EB8--8.5 ▽ | 8 | Silty Clay (CL), as above, olive-grey, very moist |
| | | | 10 | |
| | 0 | | 12 | |
| 10YR-3/4 | | | | Silty Gravel (CL), as above, dark brown |
| 2.5Y-5/6 | | | 14 | Silty Clays (CL), as above, light brown, 0-10% disseminated gravels, moist |
| | 0 | EB8-16.0 | 16 | **TOTAL DEPTH OF BORING: 16.0 feet bgs** |
| | | | 18 | |
| | | | 20 | |
| | | | 22 | |
| | | | 24 | |
| | | | 26 | |
| | | | 28 | |

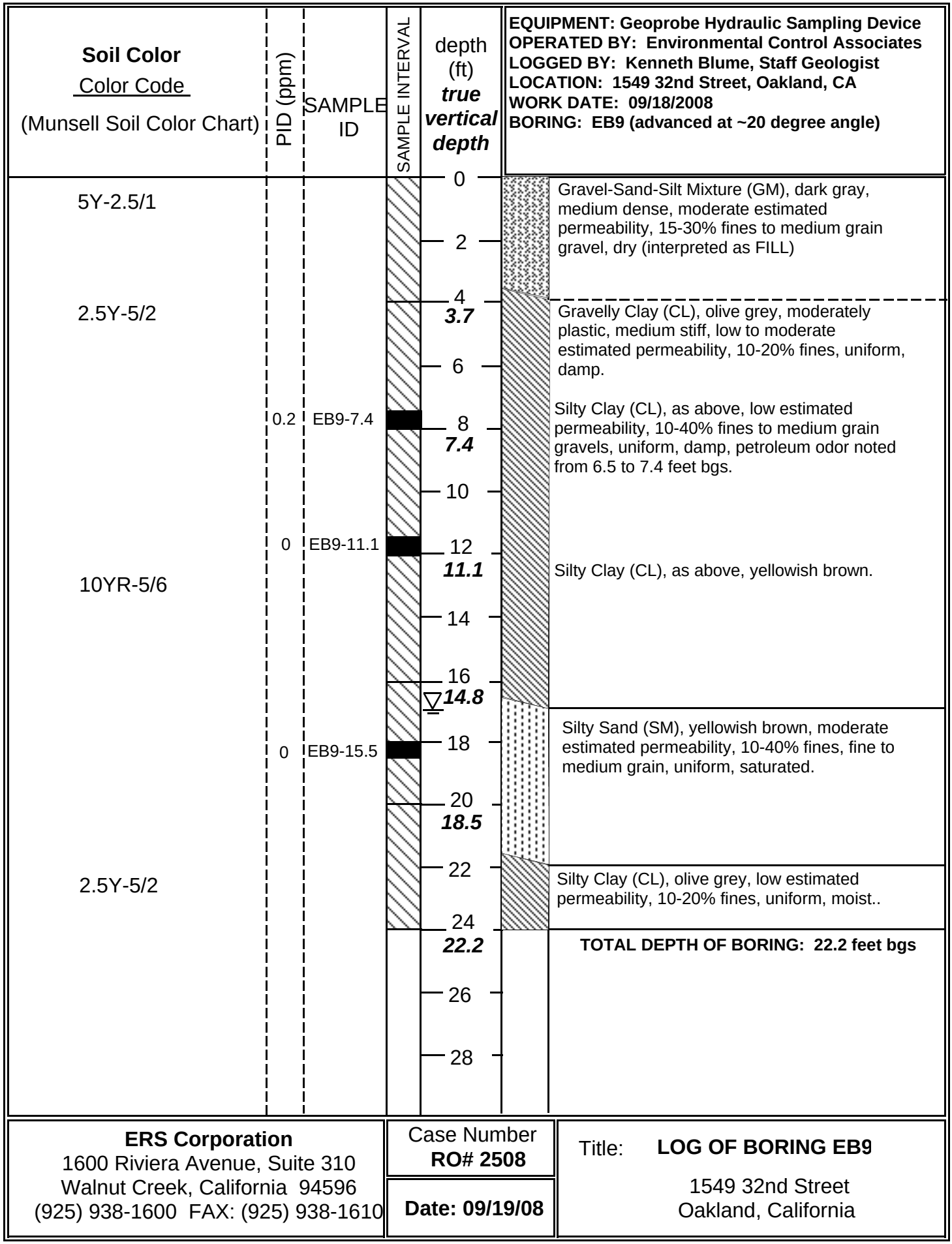
**ERS Corporation**
1600 Riviera Avenue, Suite 310
Walnut Creek, California 94596
(925) 938-1600 FAX: (925) 938-1610

Case Number **RO# 2508**

**Date: 09/19/08**

Title: **LOG OF BORING EB8**

1549 32nd Street
Oakland, California


Soil Color
Color Code
(Munsell Soil Color Chart)
PID (ppm)
SAMPLE ID
SAMPLE INTERVAL
depth (ft) true vertical depth
EQUIPMENT: Geoprobe Hydraulic Sampling Device
OPERATED BY: Environmental Control Associates
LOGGED BY: Kenneth Blume, Staff Geologist
LOCATION: 1549 32nd Street, Oakland, CA
WORK DATE: 09/18/2008
BORING: EB9 (advanced at ~20 degree angle)
0
2
4
3.7
6
8
7.4
10
12
11.1
14
16
14.8
18
20
18.5
22
24
22.2
26
28
5Y-2.5/1
Gravel-Sand-Silt Mixture (GM), dark gray, medium dense, moderate estimated permeability, 15-30% fines to medium grain gravel, dry (interpreted as FILL)
2.5Y-5/2
Gravelly Clay (CL), olive grey, moderately plastic, medium stiff, low to moderate estimated permeability, 10-20% fines, uniform, damp.
0.2
EB9-7.4
Silty Clay (CL), as above, low estimated permeability, 10-40% fines to medium grain gravels, uniform, damp, petroleum odor noted from 6.5 to 7.4 feet bgs.
0
EB9-11.1
10YR-5/6
Silty Clay (CL), as above, yellowish brown.
0
EB9-15.5
Silty Sand (SM), yellowish brown, moderate estimated permeability, 10-40% fines, fine to medium grain, uniform, saturated.
2.5Y-5/2
Silty Clay (CL), olive grey, low estimated permeability, 10-20% fines, uniform, moist..
TOTAL DEPTH OF BORING: 22.2 feet bgs
ERS Corporation
1600 Riviera Avenue, Suite 310
Walnut Creek, California 94596
(925) 938-1600 FAX: (925) 938-1610
Case Number
RO# 2508
Date: 09/19/08
Title: LOG OF BORING EB9
1549 32nd Street
Oakland, California

Curtis & Tompkins, Ltd.

# Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 3520C |
| Project#: | STANDARD | Analysis: | EPA 8015B |
| Matrix: | Water | Sampled: | 09/18/08 |
| Units: | ug/L | Received: | 09/18/08 |
| Diln Fac: | 1.000 | Prepared: | 09/25/08 |
| Batch#: | 142940 | Analyzed: | 09/26/08 |

Field ID: EB3-W-18.5 Lab ID: 206164-001
Type: SAMPLE

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 730 Y | 50 |
| Motor Oil C24-C36 | 610 | 300 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 98 | 58-127 |

Field ID: EB4-W-21.0 Lab ID: 206164-002
Type: SAMPLE

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 69 Y | 50 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 94 | 58-127 |

Field ID: EB5-W-21.0 Lab ID: 206164-003
Type: SAMPLE

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 150 Y | 50 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 95 | 58-127 |

Field ID: EB6-W-21.0 Lab ID: 206164-004
Type: SAMPLE

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 73 Y | 50 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 87 | 58-127 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

## Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 3520C |
| Project#: | STANDARD | Analysis: | EPA 8015B |
| Matrix: | Water | Sampled: | 09/18/08 |
| Units: | ug/L | Received: | 09/18/08 |
| Diln Fac: | 1.000 | Prepared: | 09/25/08 |
| Batch#: | 142940 | Analyzed: | 09/26/08 |

Field ID: EB7-W-15.5 Lab ID: 206164-005
Type: SAMPLE

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 1,400 Y | 50 |
| Motor Oil C24-C36 | 1,600 | 300 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 92 | 58-127 |

Field ID: EB8-W-8.5 Lab ID: 206164-006
Type: SAMPLE

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 3,100 Y | 50 |
| Motor Oil C24-C36 | 650 | 300 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 74 | 58-127 |

Field ID: EB9-W-15.5 Lab ID: 206164-007
Type: SAMPLE

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 51 Y | 50 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 87 | 58-127 |

Type: BLANK Lab ID: QC462144

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | ND | 50 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 94 | 58-127 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

## Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 3520C |
| Project#: | STANDARD | Analysis: | EPA 8015B |
| Matrix: | Water | Batch#: | 142940 |
| Units: | ug/L | Prepared: | 09/25/08 |
| Diln Fac: | 1.000 | Analyzed: | 09/26/08 |

Type: BS Cleanup Method: EPA 3630C
Lab ID: QC462145

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Diesel C10-C24 | 2,500 | 2,132 | 85 | 52-120 |

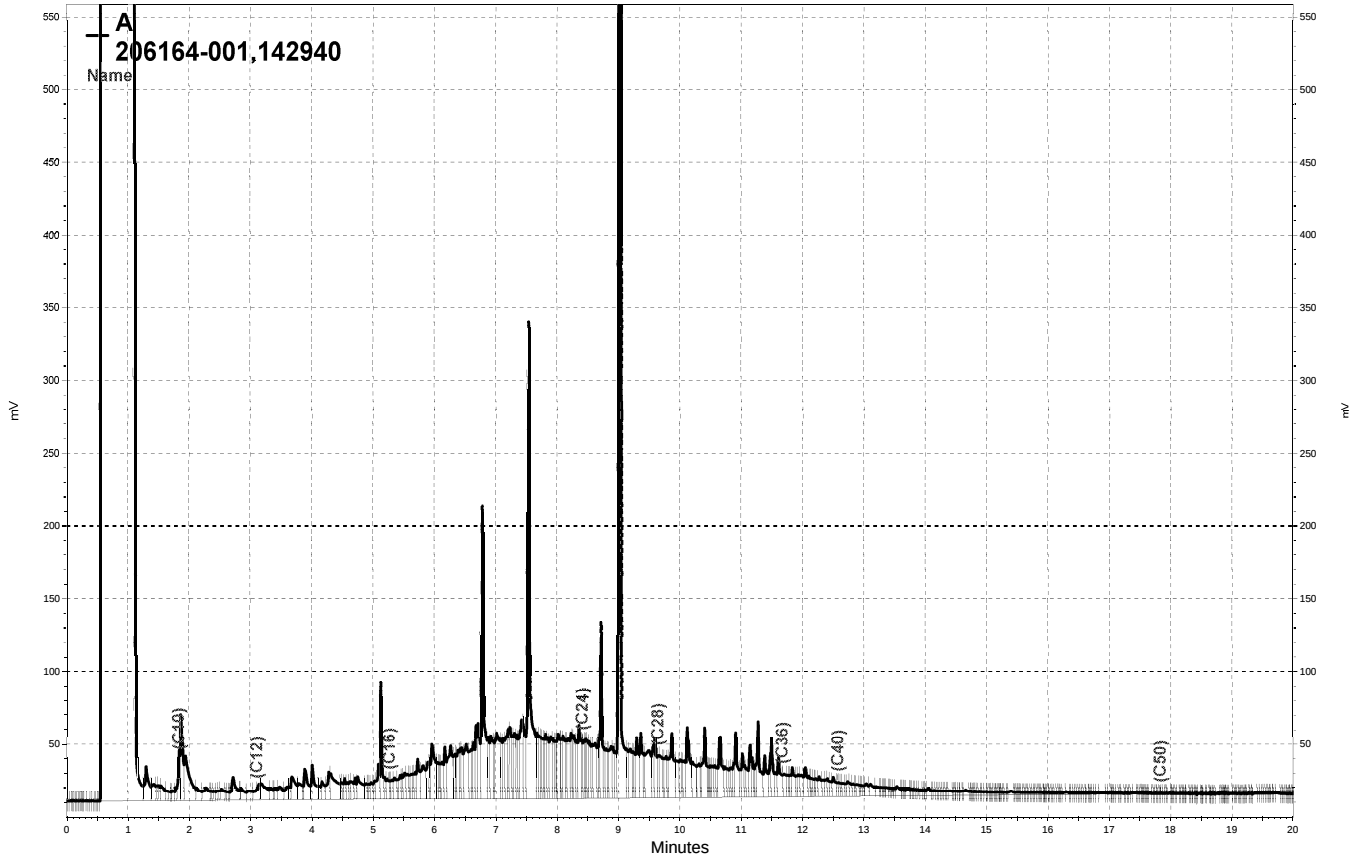
| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 89 | 58-127 |

Type: BSD Cleanup Method: EPA 3630C
Lab ID: QC462146

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Diesel C10-C24 | 2,500 | 2,394 | 96 | 52-120 | 12 | 30 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 99 | 58-127 |

RPD= Relative Percent Difference

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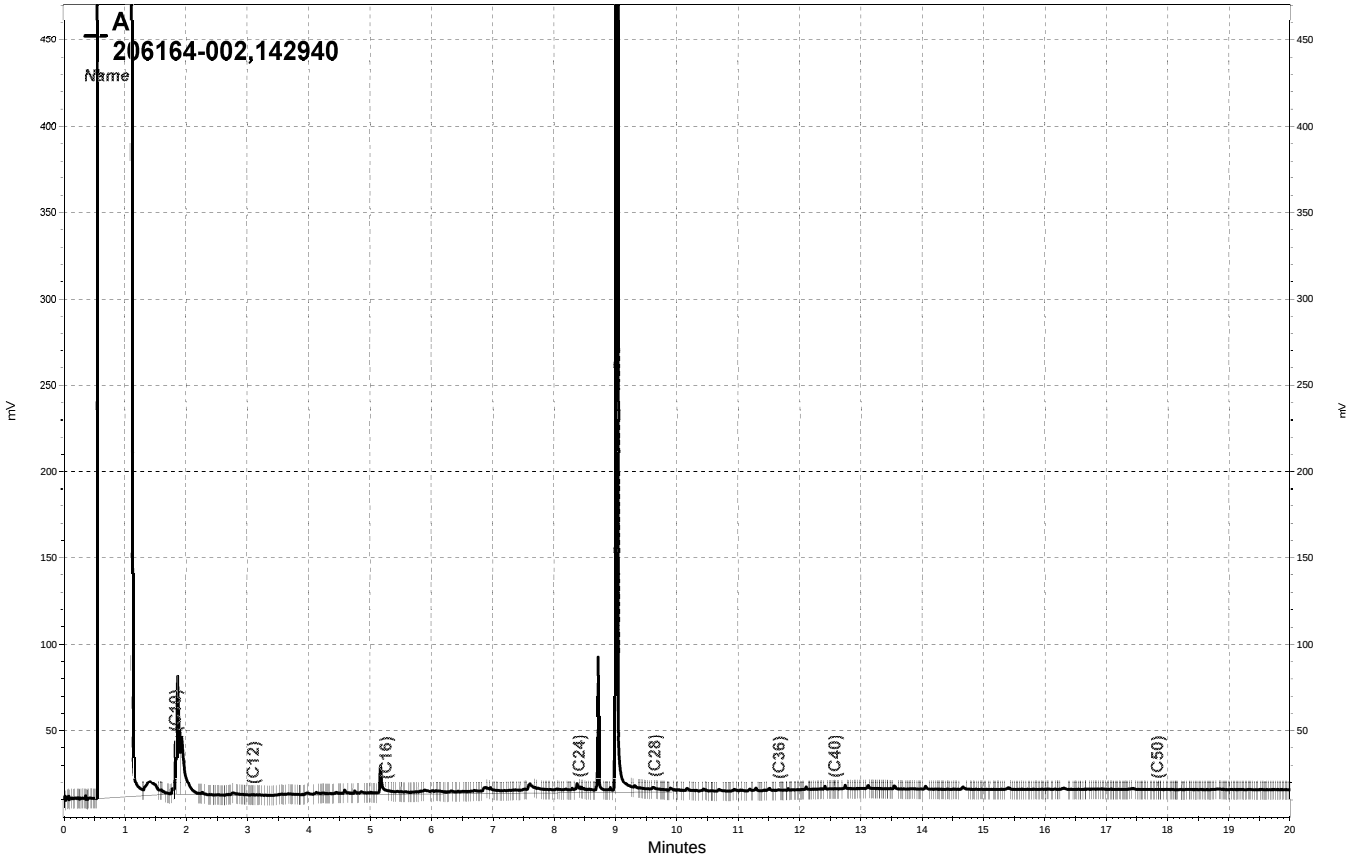


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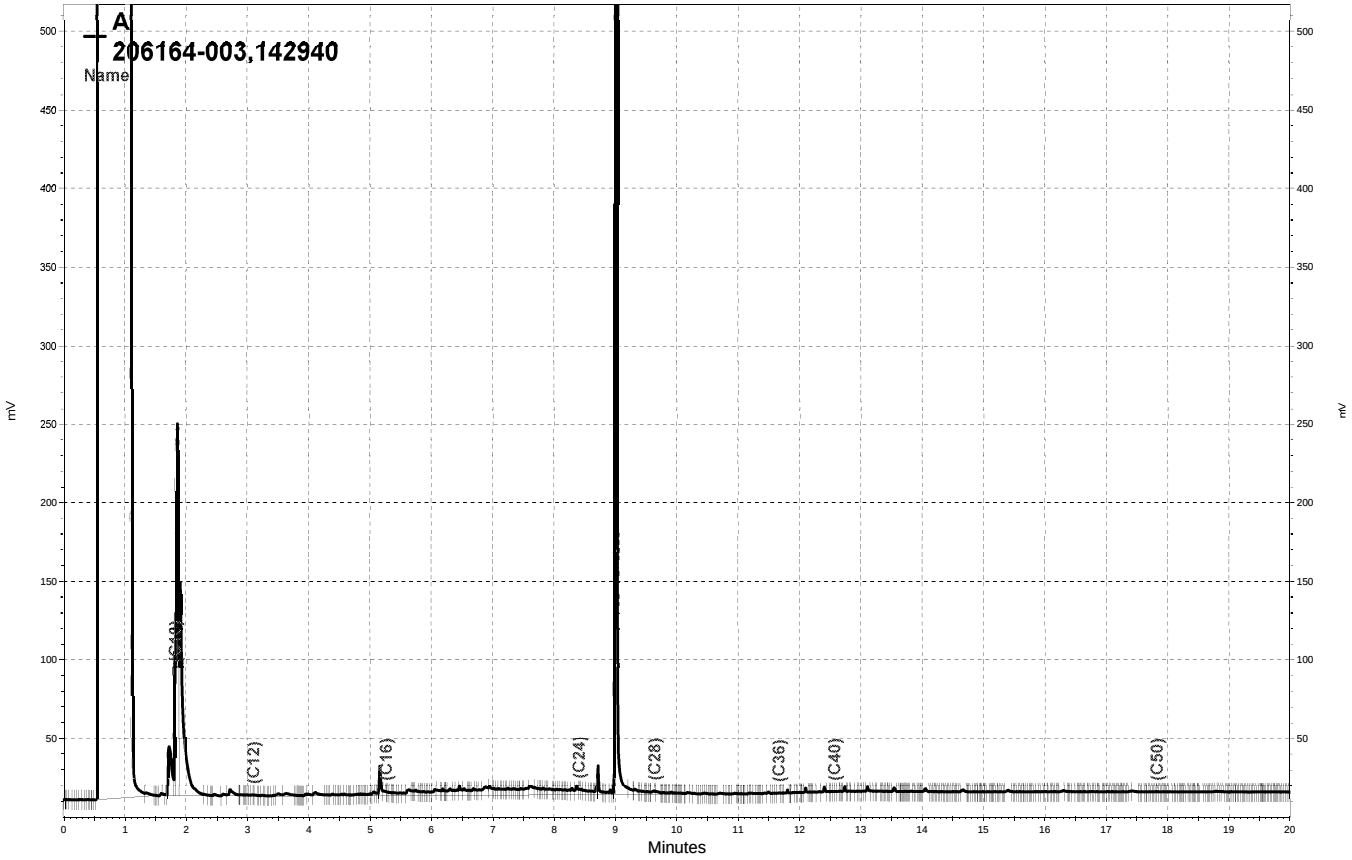


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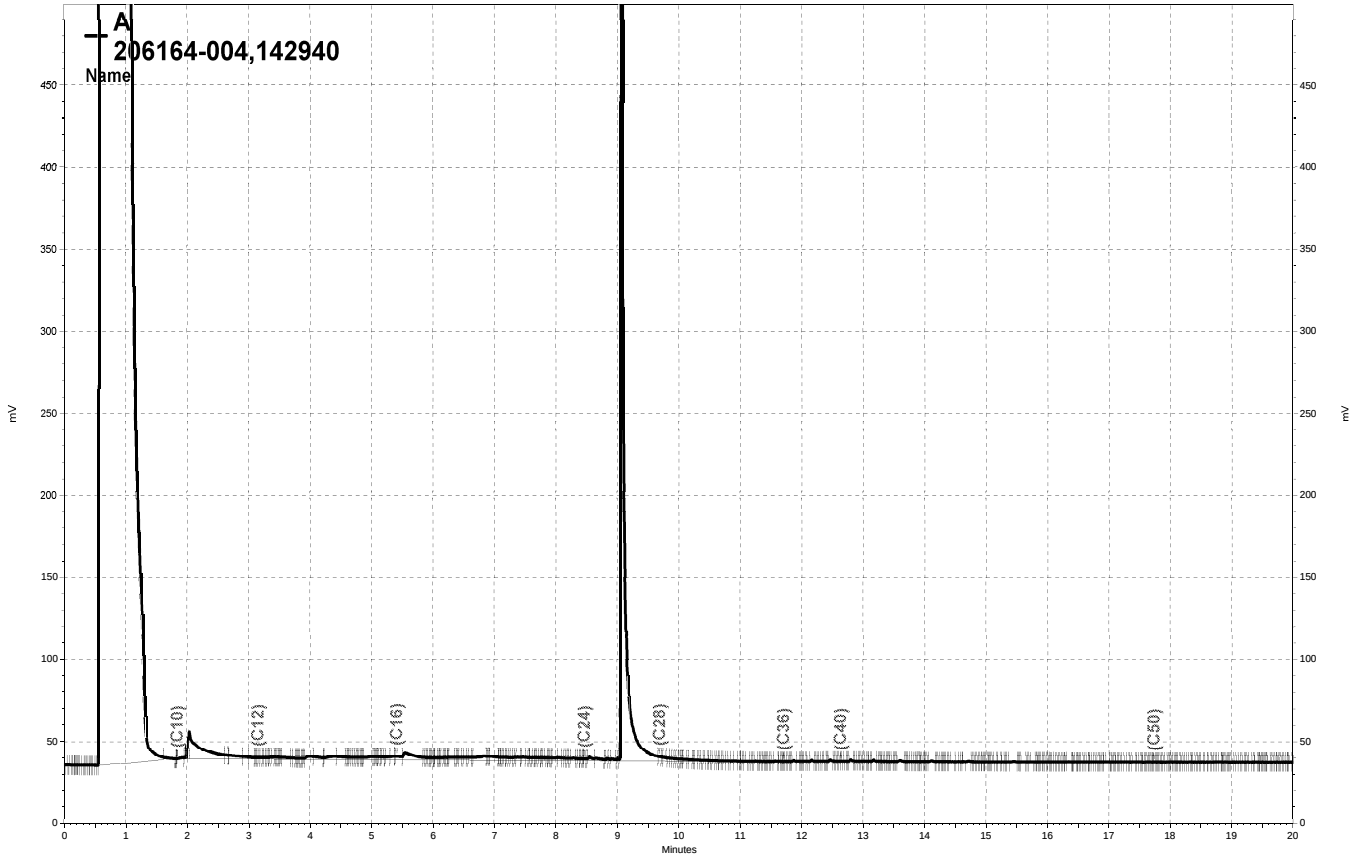


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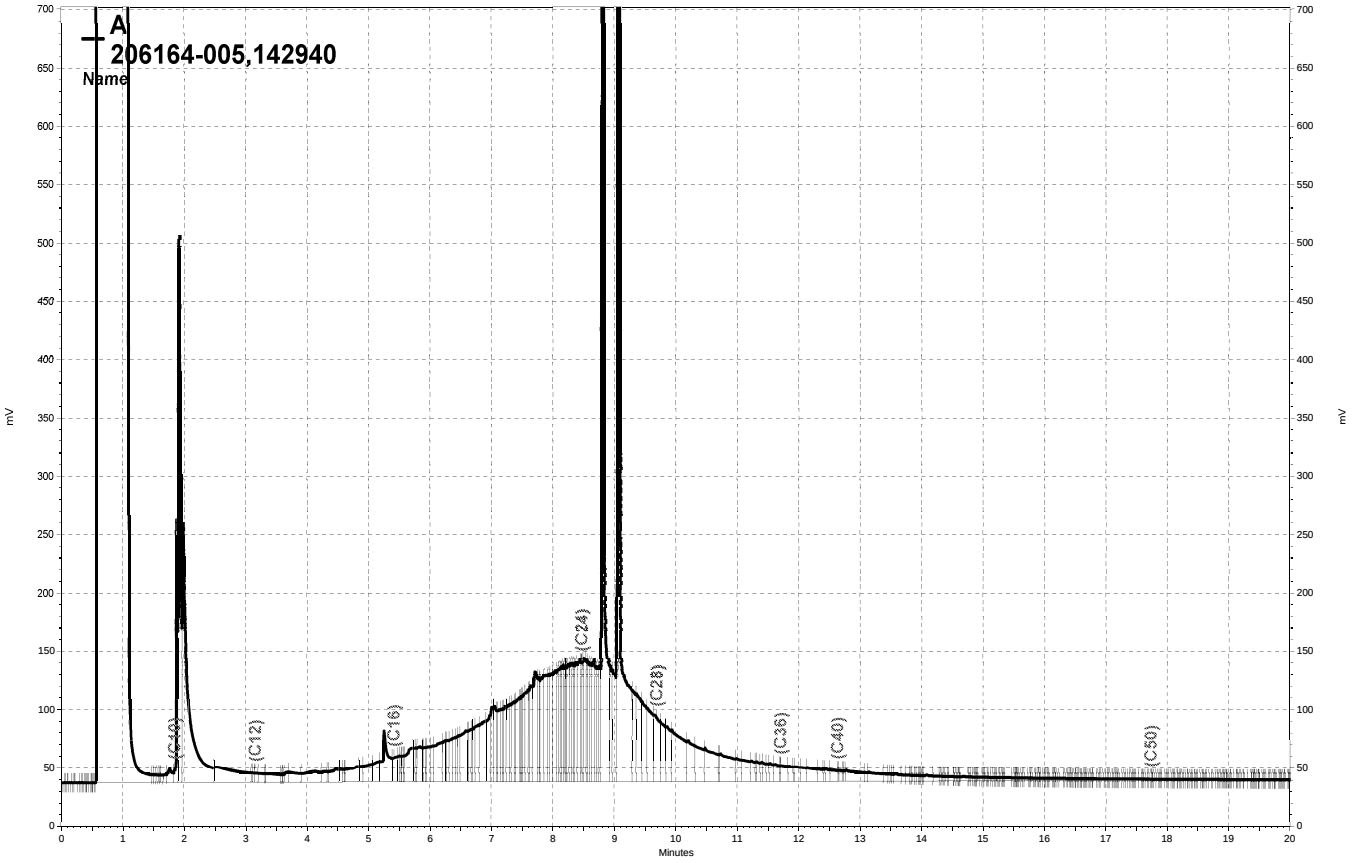


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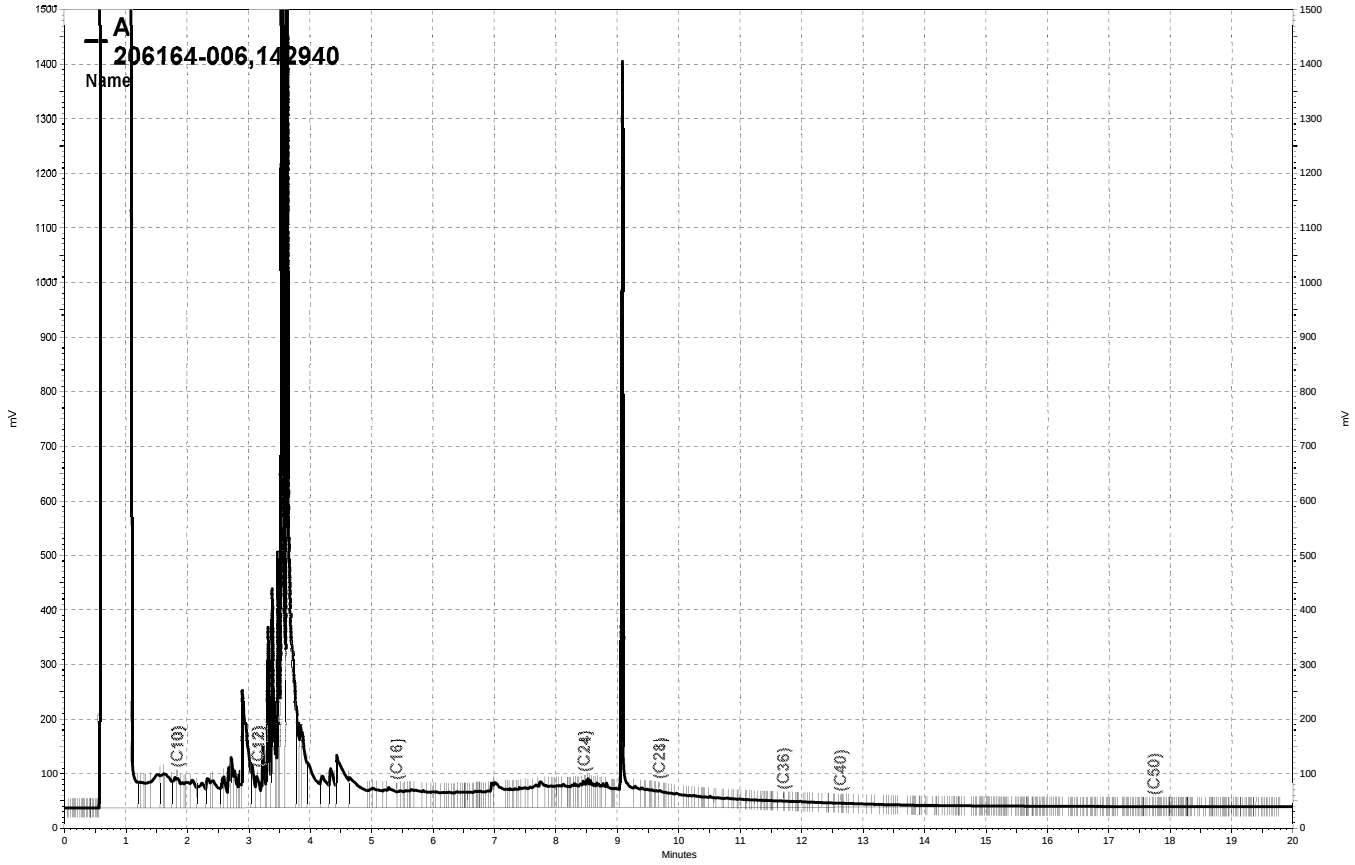


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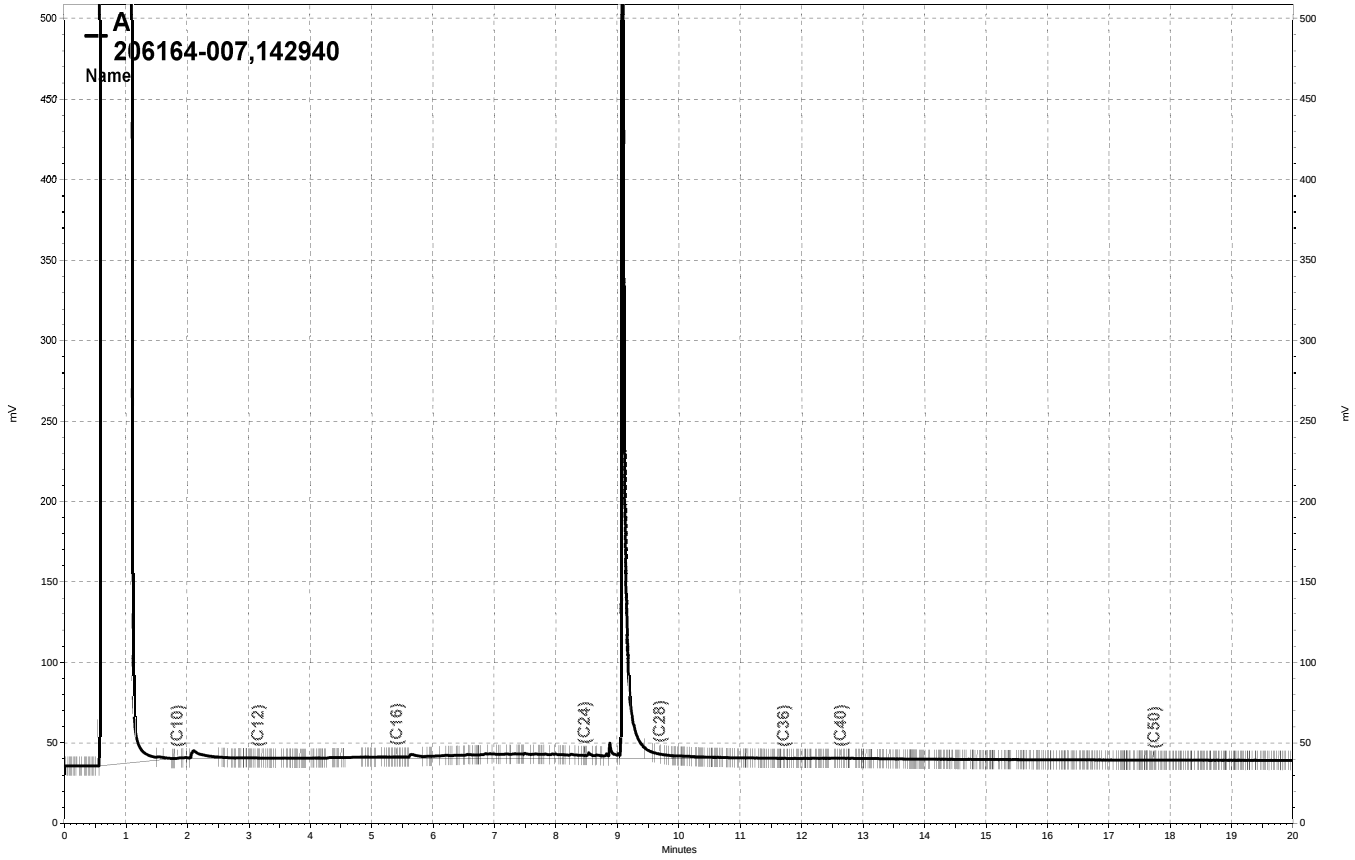


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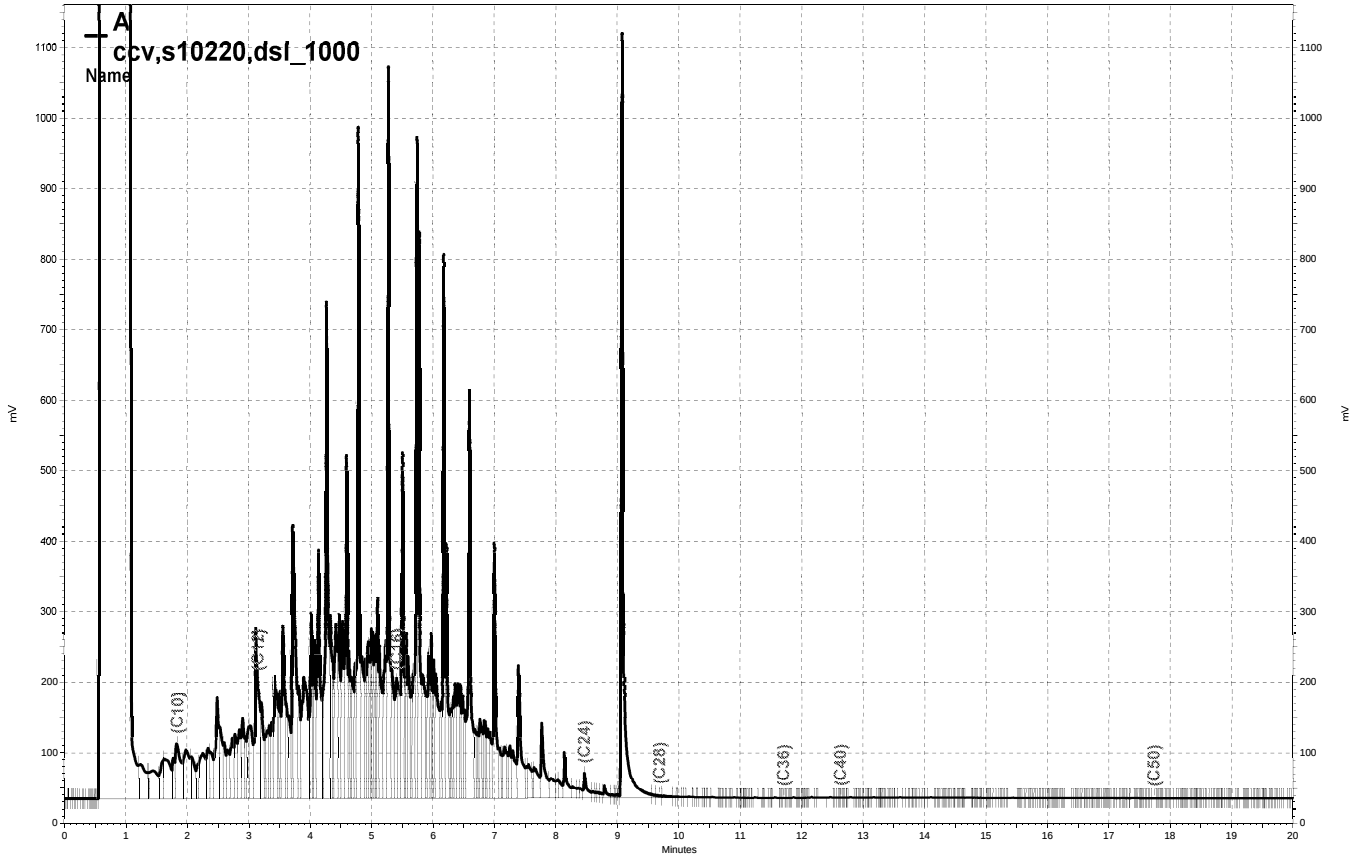


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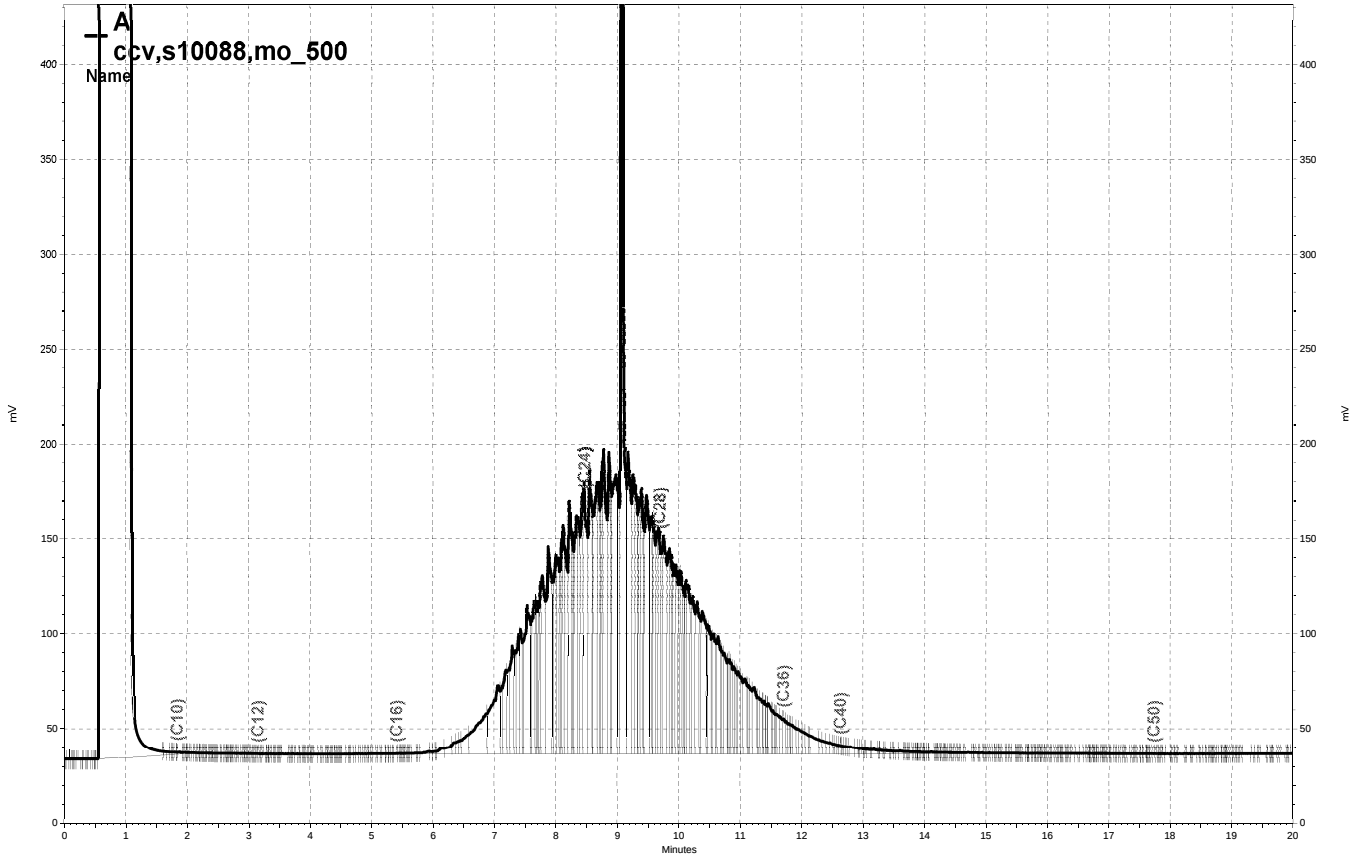


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Curtis & Tompkins, Ltd.

# Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Analysis: | EPA 8015B |
| Project#: | STANDARD | | |
| Matrix: | Soil | Sampled: | 09/18/08 |
| Units: | mg/Kg | Received: | 09/18/08 |
| Basis: | as received | | |

| | | | |
|---|---|---|---|
| Field ID: | EB1-4.0 | Batch#: | 142737 |
| Type: | SAMPLE | Prepared: | 09/20/08 |
| Lab ID: | 206164-009 | Analyzed: | 09/22/08 |
| Diln Fac: | 5.000 | Prep: | EPA 3550B |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 52 Y | 5.0 |
| Motor Oil C24-C36 | 370 | 25 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 107 | 46-130 |

| | | | |
|---|---|---|---|
| Field ID: | EB1-8.0 | Batch#: | 142737 |
| Type: | SAMPLE | Prepared: | 09/20/08 |
| Lab ID: | 206164-010 | Analyzed: | 09/22/08 |
| Diln Fac: | 2.000 | Prep: | EPA 3550B |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 250 Y | 2.0 |
| Motor Oil C24-C36 | 230 | 9.9 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 89 | 46-130 |

| | | | |
|---|---|---|---|
| Field ID: | EB1-12.0 | Batch#: | 142737 |
| Type: | SAMPLE | Prepared: | 09/20/08 |
| Lab ID: | 206164-011 | Analyzed: | 09/21/08 |
| Diln Fac: | 1.000 | Prep: | EPA 3550B |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | ND | 0.99 |
| Motor Oil C24-C36 | ND | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 89 | 46-130 |

| | | | |
|---|---|---|---|
| Field ID: | EB2-4.0 | Batch#: | 142737 |
| Type: | SAMPLE | Prepared: | 09/20/08 |
| Lab ID: | 206164-012 | Analyzed: | 09/22/08 |
| Diln Fac: | 1.000 | Prep: | EPA 3550B |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 22 Y | 1.0 |
| Motor Oil C24-C36 | 130 | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 111 | 46-130 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Analysis: | EPA 8015B |
| Project#: | STANDARD | | |
| Matrix: | Soil | Sampled: | 09/18/08 |
| Units: | mg/Kg | Received: | 09/18/08 |
| Basis: | as received | | |

| | | | |
|---|---|---|---|
| Field ID: | EB2-8.0 | Batch#: | 142737 |
| Type: | SAMPLE | Prepared: | 09/20/08 |
| Lab ID: | 206164-013 | Analyzed: | 09/22/08 |
| Diln Fac: | 1.000 | Prep: | EPA 3550B |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 33 Y | 1.0 |
| Motor Oil C24-C36 | 140 | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 115 | 46-130 |

| | | | |
|---|---|---|---|
| Field ID: | EB2-12.0 | Batch#: | 142737 |
| Type: | SAMPLE | Prepared: | 09/20/08 |
| Lab ID: | 206164-014 | Analyzed: | 09/21/08 |
| Diln Fac: | 1.000 | Prep: | EPA 3550B |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | ND | 0.99 |
| Motor Oil C24-C36 | ND | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 83 | 46-130 |

| | | | |
|---|---|---|---|
| Field ID: | EB8-7.5 | Batch#: | 142737 |
| Type: | SAMPLE | Prepared: | 09/20/08 |
| Lab ID: | 206164-015 | Analyzed: | 09/21/08 |
| Diln Fac: | 1.000 | Prep: | EPA 3550B |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 3.3 Y | 1.0 |
| Motor Oil C24-C36 | 8.8 | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 98 | 46-130 |

| | | | |
|---|---|---|---|
| Field ID: | EB8-16.0 | Batch#: | 142737 |
| Type: | SAMPLE | Prepared: | 09/20/08 |
| Lab ID: | 206164-017 | Analyzed: | 09/21/08 |
| Diln Fac: | 1.000 | Prep: | EPA 3550B |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 1.7 Y | 1.0 |
| Motor Oil C24-C36 | ND | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 108 | 46-130 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

## Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Analysis: | EPA 8015B |
| Project#: | STANDARD | | |
| Matrix: | Soil | Sampled: | 09/18/08 |
| Units: | mg/Kg | Received: | 09/18/08 |
| Basis: | as received | | |

| | | | |
|---|---|---|---|
| Field ID: | EB7-7.5 | Batch#: | 142737 |
| Type: | SAMPLE | Prepared: | 09/20/08 |
| Lab ID: | 206164-018 | Analyzed: | 09/21/08 |
| Diln Fac: | 1.000 | Prep: | EPA 3550B |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 2.2 Y | 0.99 |
| Motor Oil C24-C36 | ND | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 110 | 46-130 |

| | | | |
|---|---|---|---|
| Field ID: | EB7-15.0 | Batch#: | 142737 |
| Type: | SAMPLE | Prepared: | 09/20/08 |
| Lab ID: | 206164-020 | Analyzed: | 09/22/08 |
| Diln Fac: | 1.000 | Prep: | EPA 3550B |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 2.4 Y | 1.0 |
| Motor Oil C24-C36 | ND | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 99 | 46-130 |

| | | | |
|---|---|---|---|
| Field ID: | EB6-7.5 | Batch#: | 142784 |
| Type: | SAMPLE | Prepared: | 09/22/08 |
| Lab ID: | 206164-022 | Analyzed: | 09/23/08 |
| Diln Fac: | 1.000 | Prep: | SHAKER TABLE |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | ND | 1.0 |
| Motor Oil C24-C36 | ND | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 117 | 46-130 |

| | | | |
|---|---|---|---|
| Field ID: | EB6-16.0 | Batch#: | 142737 |
| Type: | SAMPLE | Prepared: | 09/20/08 |
| Lab ID: | 206164-024 | Analyzed: | 09/22/08 |
| Diln Fac: | 1.000 | Prep: | EPA 3550B |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | ND | 1.0 |
| Motor Oil C24-C36 | ND | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 99 | 46-130 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Analysis: | EPA 8015B |
| Project#: | STANDARD | | |
| Matrix: | Soil | Sampled: | 09/18/08 |
| Units: | mg/Kg | Received: | 09/18/08 |
| Basis: | as received | | |

| | | | |
|---|---|---|---|
| Field ID: | EB5-7.4 | Batch#: | 142737 |
| Type: | SAMPLE | Prepared: | 09/20/08 |
| Lab ID: | 206164-026 | Analyzed: | 09/22/08 |
| Diln Fac: | 50.00 | Prep: | EPA 3550B |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 5,500 Y | 50 |
| Motor Oil C24-C36 | 2,500 | 250 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | DO | 46-130 |

| | | | |
|---|---|---|---|
| Field ID: | EB5-16.0 | Batch#: | 142737 |
| Type: | SAMPLE | Prepared: | 09/20/08 |
| Lab ID: | 206164-028 | Analyzed: | 09/22/08 |
| Diln Fac: | 1.000 | Prep: | EPA 3550B |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 11 Y | 0.99 |
| Motor Oil C24-C36 | ND | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 98 | 46-130 |

| | | | |
|---|---|---|---|
| Field ID: | EB9-7.4 | Batch#: | 142737 |
| Type: | SAMPLE | Prepared: | 09/20/08 |
| Lab ID: | 206164-030 | Analyzed: | 09/22/08 |
| Diln Fac: | 20.00 | Prep: | EPA 3550B |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 1,700 Y | 20 |
| Motor Oil C24-C36 | 670 | 100 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | DO | 46-130 |

| | | | |
|---|---|---|---|
| Field ID: | EB9-15.5 | Batch#: | 142784 |
| Type: | SAMPLE | Prepared: | 09/22/08 |
| Lab ID: | 206164-032 | Analyzed: | 09/23/08 |
| Diln Fac: | 1.000 | Prep: | SHAKER TABLE |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 290 Y | 1.0 |
| Motor Oil C24-C36 | 130 | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 114 | 46-130 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

## Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Analysis: | EPA 8015B |
| Project#: | STANDARD | | |
| Matrix: | Soil | Sampled: | 09/18/08 |
| Units: | mg/Kg | Received: | 09/18/08 |
| Basis: | as received | | |

| | | | |
|---|---|---|---|
| Field ID: | EB3-9.0 | Batch#: | 142784 |
| Type: | SAMPLE | Prepared: | 09/22/08 |
| Lab ID: | 206164-033 | Analyzed: | 09/23/08 |
| Diln Fac: | 1.000 | Prep: | SHAKER TABLE |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 12 Y | 1.0 |
| Motor Oil C24-C36 | 7.3 | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 129 | 46-130 |

| | | | |
|---|---|---|---|
| Field ID: | EB3-15.5 | Batch#: | 142784 |
| Type: | SAMPLE | Prepared: | 09/22/08 |
| Lab ID: | 206164-034 | Analyzed: | 09/23/08 |
| Diln Fac: | 1.000 | Prep: | SHAKER TABLE |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 2.7 Y | 0.99 |
| Motor Oil C24-C36 | ND | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 94 | 46-130 |

| | | | |
|---|---|---|---|
| Field ID: | EB4-9.0 | Batch#: | 142784 |
| Type: | SAMPLE | Prepared: | 09/22/08 |
| Lab ID: | 206164-036 | Analyzed: | 09/23/08 |
| Diln Fac: | 1.000 | Prep: | SHAKER TABLE |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 2.3 Y | 1.0 |
| Motor Oil C24-C36 | ND | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 125 | 46-130 |

| | | | |
|---|---|---|---|
| Field ID: | EB4-16.5 | Batch#: | 142784 |
| Type: | SAMPLE | Prepared: | 09/22/08 |
| Lab ID: | 206164-037 | Analyzed: | 09/23/08 |
| Diln Fac: | 1.000 | Prep: | SHAKER TABLE |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | 4.3 Y | 0.99 |
| Motor Oil C24-C36 | ND | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 112 | 46-130 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

## Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Analysis: | EPA 8015B |
| Project#: | STANDARD | | |
| Matrix: | Soil | Sampled: | 09/18/08 |
| Units: | mg/Kg | Received: | 09/18/08 |
| Basis: | as received | | |

| | | | |
|---|---|---|---|
| Type: | BLANK | Prepared: | 09/20/08 |
| Lab ID: | QC461273 | Analyzed: | 09/21/08 |
| Diln Fac: | 1.000 | Prep: | EPA 3550B |
| Batch#: | 142737 | | |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | ND | 1.0 |
| Motor Oil C24-C36 | ND | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 98 | 46-130 |

| | | | |
|---|---|---|---|
| Type: | BLANK | Prepared: | 09/22/08 |
| Lab ID: | QC461485 | Analyzed: | 09/23/08 |
| Diln Fac: | 1.000 | Prep: | SHAKER TABLE |
| Batch#: | 142784 | | |

| Analyte | Result | RL |
|---|---|---|
| Diesel C10-C24 | ND | 1.0 |
| Motor Oil C24-C36 | ND | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 97 | 46-130 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

## Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 3550B |
| Project#: | STANDARD | Analysis: | EPA 8015B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC461274 | Batch#: | 142737 |
| Matrix: | Soil | Prepared: | 09/20/08 |
| Units: | mg/Kg | Analyzed: | 09/21/08 |
| Basis: | as received | | |

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Diesel C10-C24 | 50.00 | 47.63 | 95 | 51-123 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 97 | 46-130 |

Curtis & Tompkins, Ltd.

Batch QC Report

## Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 3550B |
| Project#: | STANDARD | Analysis: | EPA 8015B |
| Field ID: | ZZZZZZZZZZ | Batch#: | 142737 |
| MSS Lab ID: | 206145-001 | Sampled: | 09/17/08 |
| Matrix: | Soil | Received: | 09/18/08 |
| Units: | mg/Kg | Prepared: | 09/20/08 |
| Basis: | as received | Analyzed: | 09/21/08 |
| Diln Fac: | 1.000 | | |

Type: MS Lab ID: QC461275

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| Diesel C10-C24 | 0.8478 | 49.85 | 41.15 | 81 | 38-140 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 86 | 46-130 |

Type: MSD Lab ID: QC461276

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Diesel C10-C24 | 49.79 | 42.08 | 83 | 38-140 | 2 | 49 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 91 | 46-130 |

RPD= Relative Percent Difference

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Batch QC Report

## Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | SHAKER TABLE |
| Project#: | STANDARD | Analysis: | EPA 8015B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC461486 | Batch#: | 142784 |
| Matrix: | Soil | Prepared: | 09/22/08 |
| Units: | mg/Kg | Analyzed: | 09/23/08 |
| Basis: | as received | | |

Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Diesel C10-C24 | 49.75 | 44.13 | 89 | 51-123 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 95 | 46-130 |

Curtis & Tompkins, Ltd.

Batch QC Report

## Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | SHAKER TABLE |
| Project#: | STANDARD | Analysis: | EPA 8015B |
| Field ID: | ZZZZZZZZZZ | Batch#: | 142784 |
| MSS Lab ID: | 206045-004 | Sampled: | 09/14/08 |
| Matrix: | Soil | Received: | 09/15/08 |
| Units: | mg/Kg | Prepared: | 09/22/08 |
| Basis: | as received | Analyzed: | 09/23/08 |
| Diln Fac: | 1.000 | | |

Type: MS Cleanup Method: EPA 3630C
Lab ID: QC461487

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| Diesel C10-C24 | 41.88 | 49.94 | 65.42 | 47 | 38-140 |

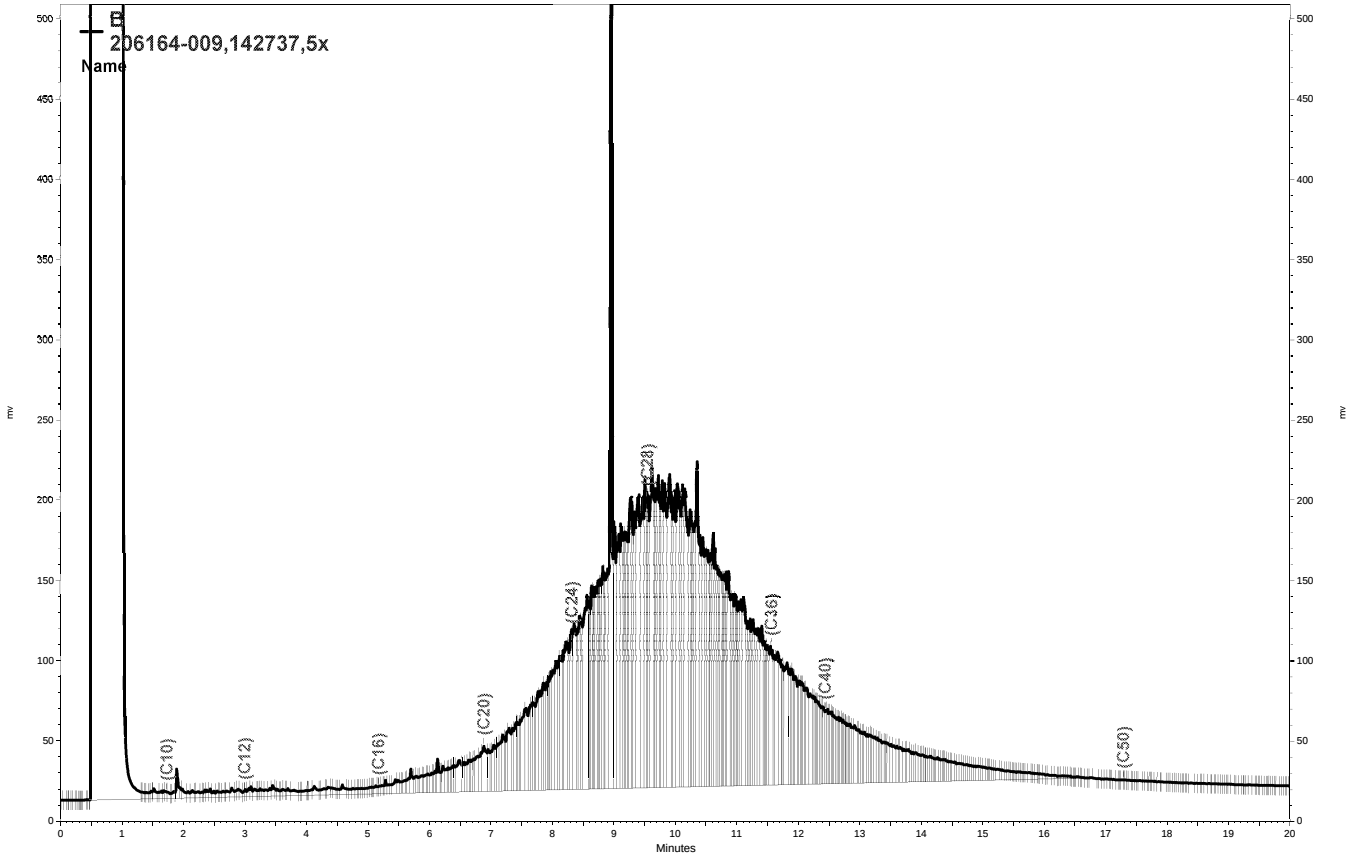
| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 71 | 46-130 |

Type: MSD Cleanup Method: EPA 3630C
Lab ID: QC461488

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Diesel C10-C24 | 49.93 | 217.2 | 351 * | 38-140 | 107 * | 49 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 98 | 46-130 |

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

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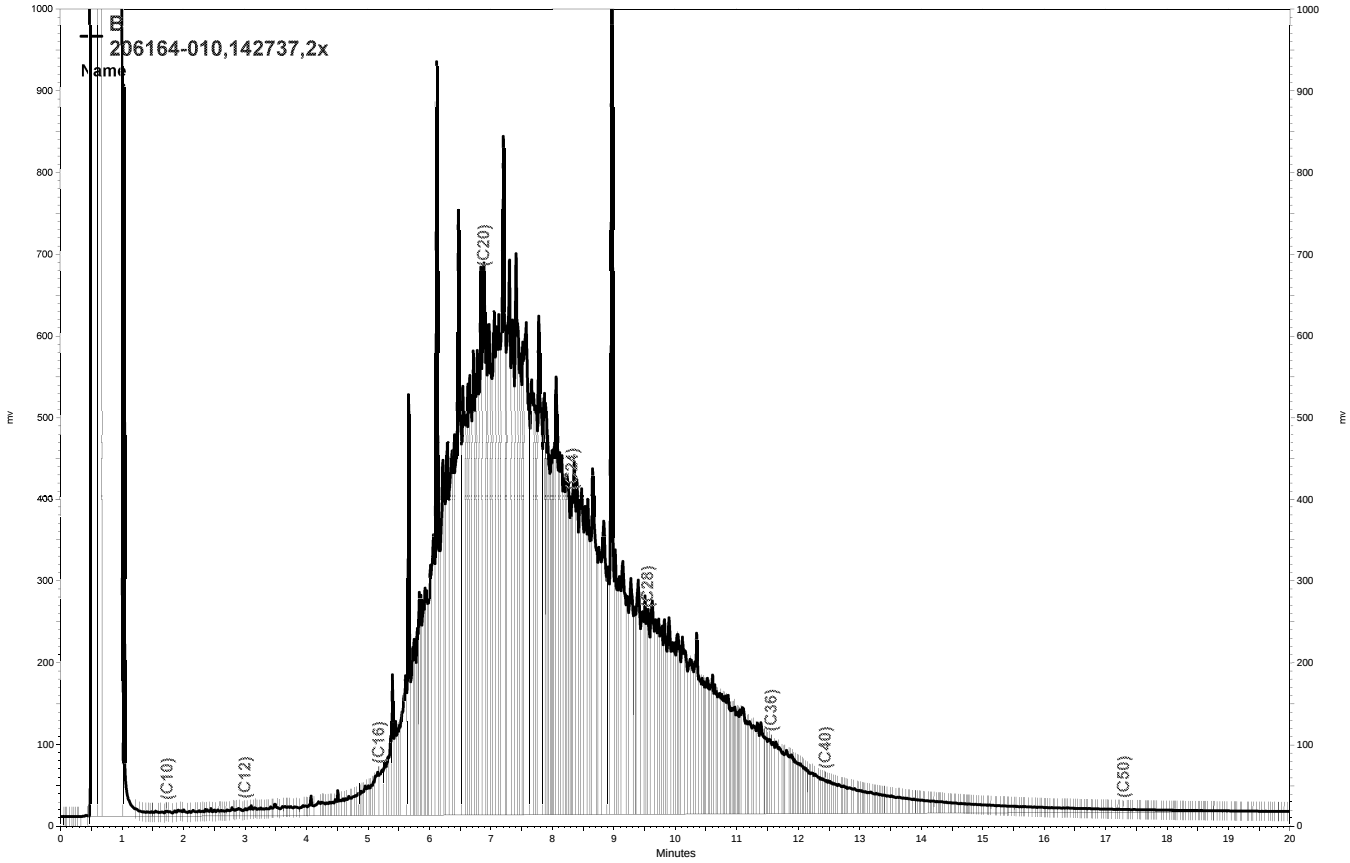


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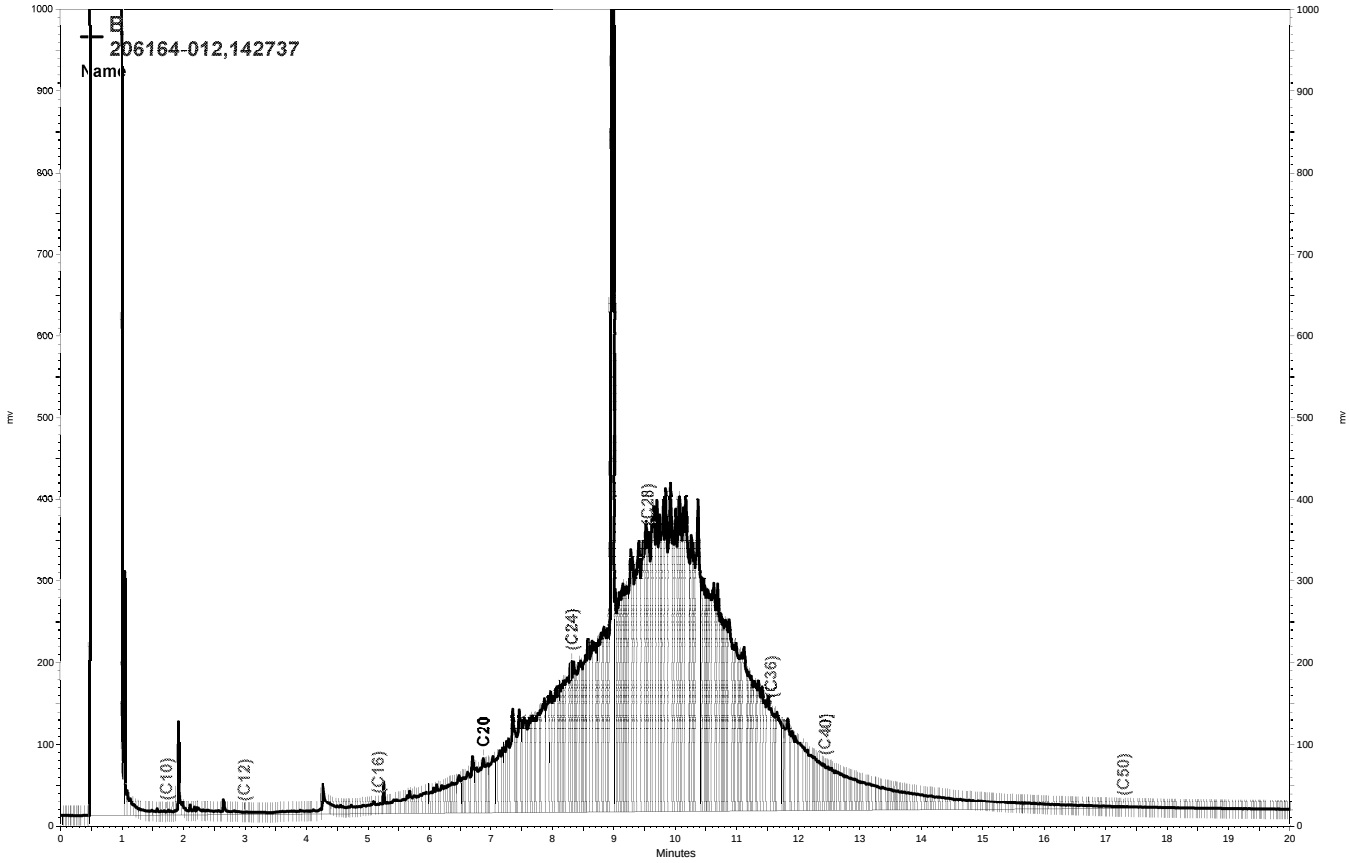


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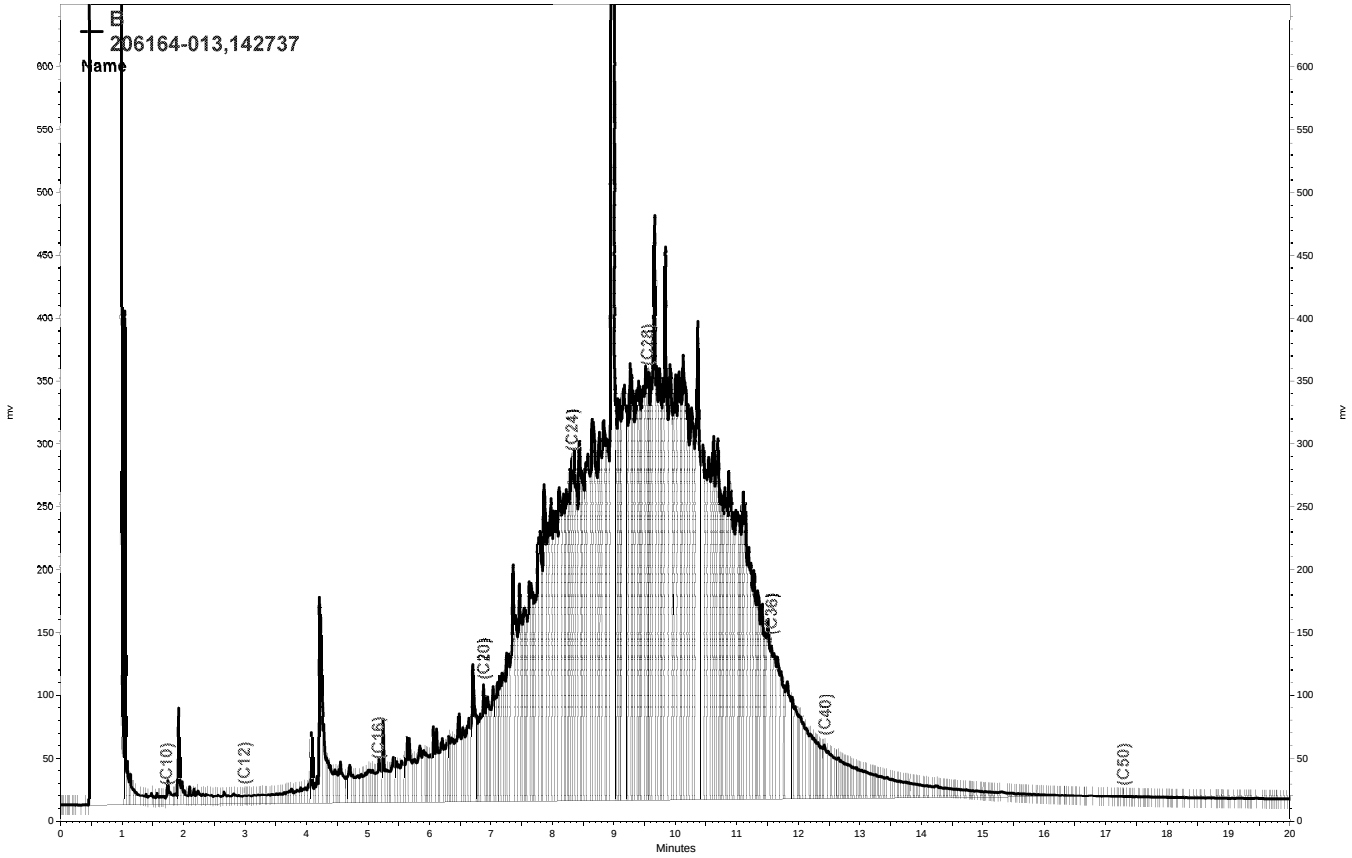


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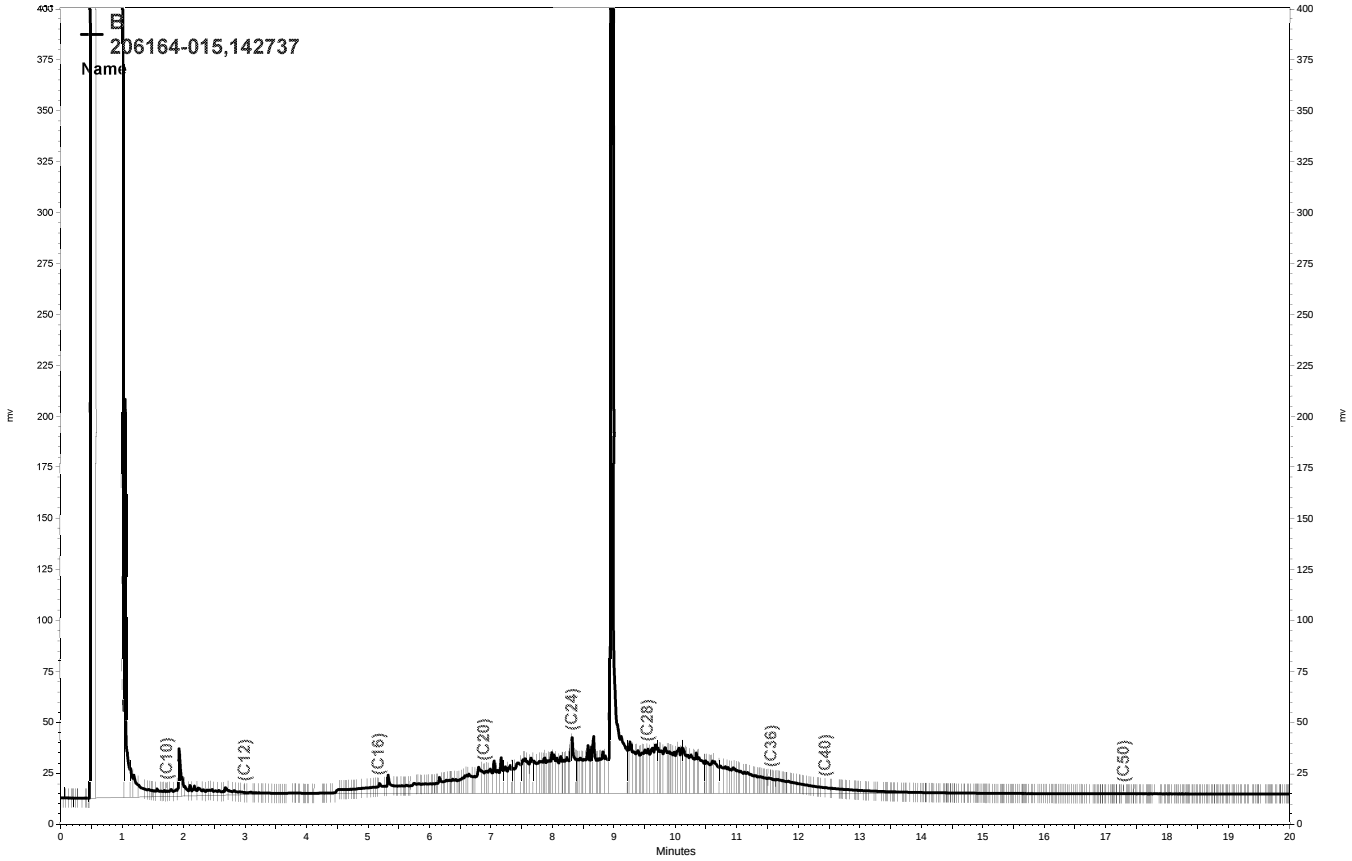


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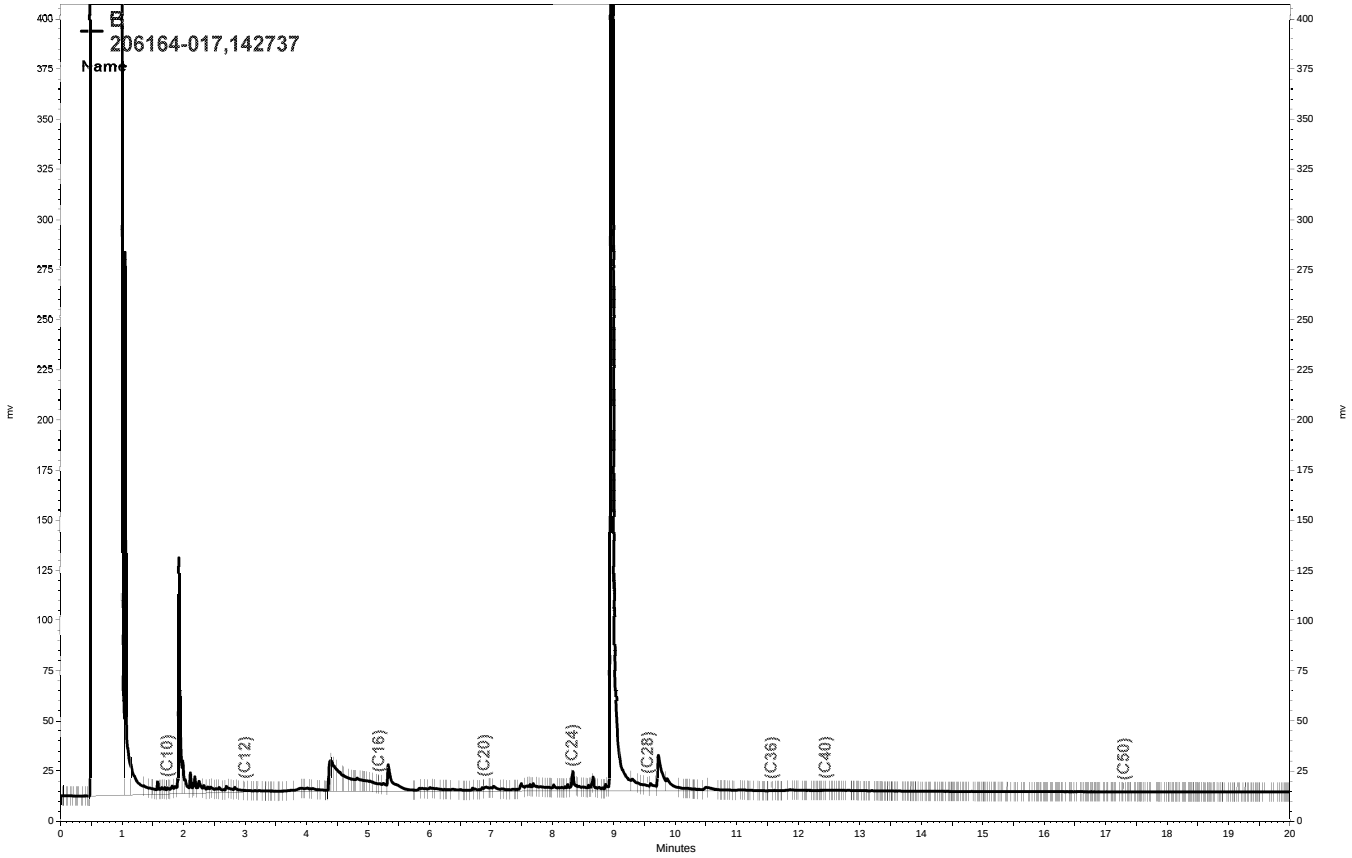


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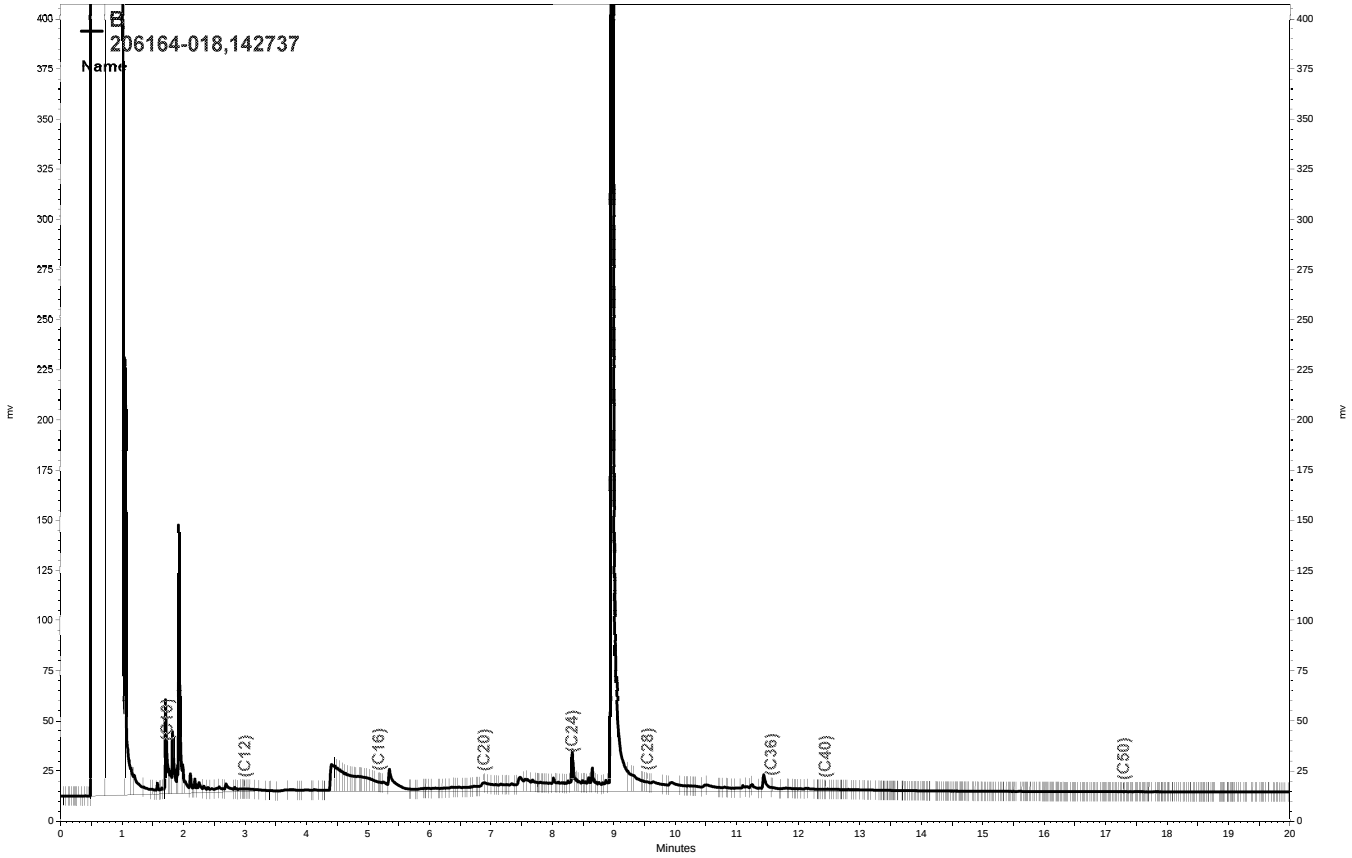


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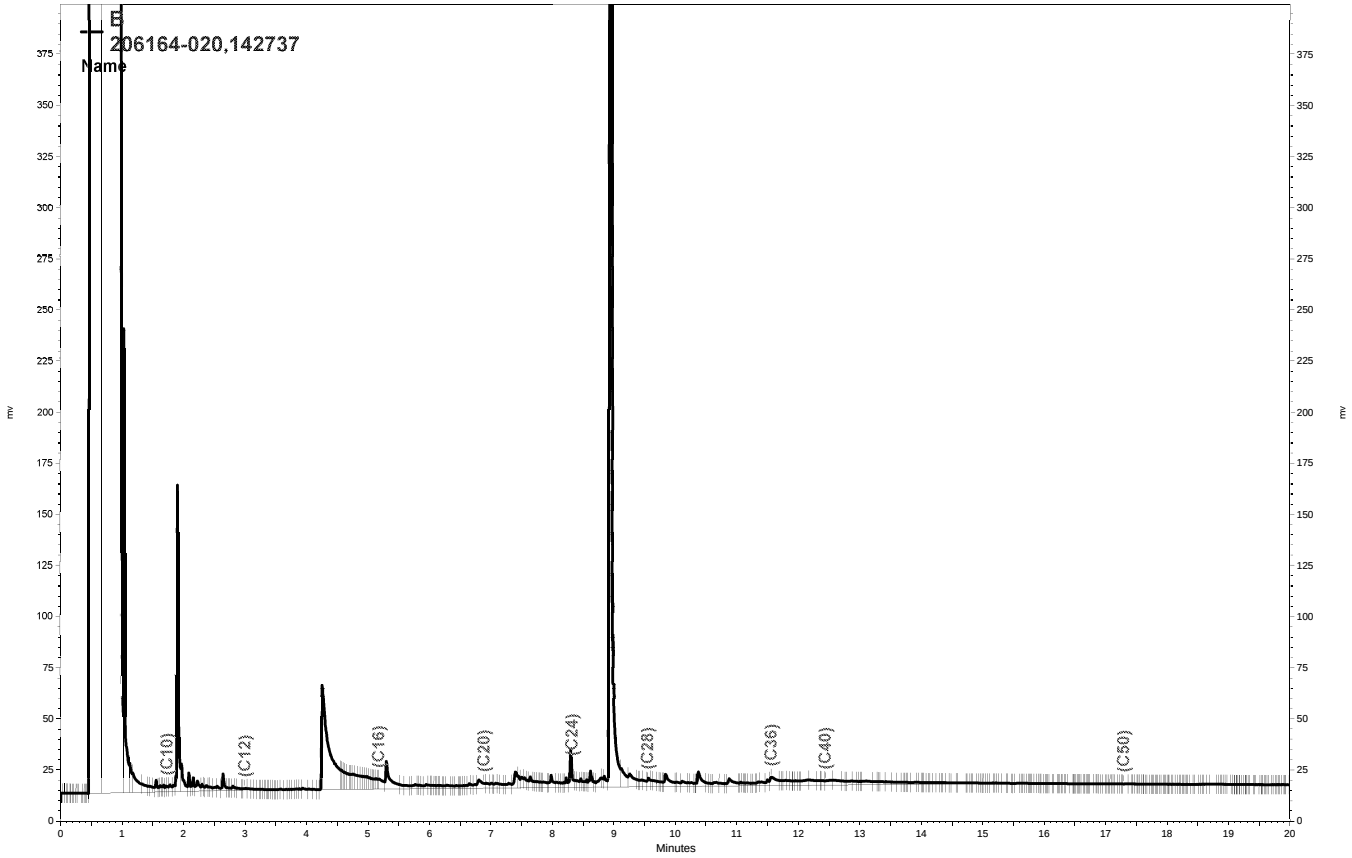


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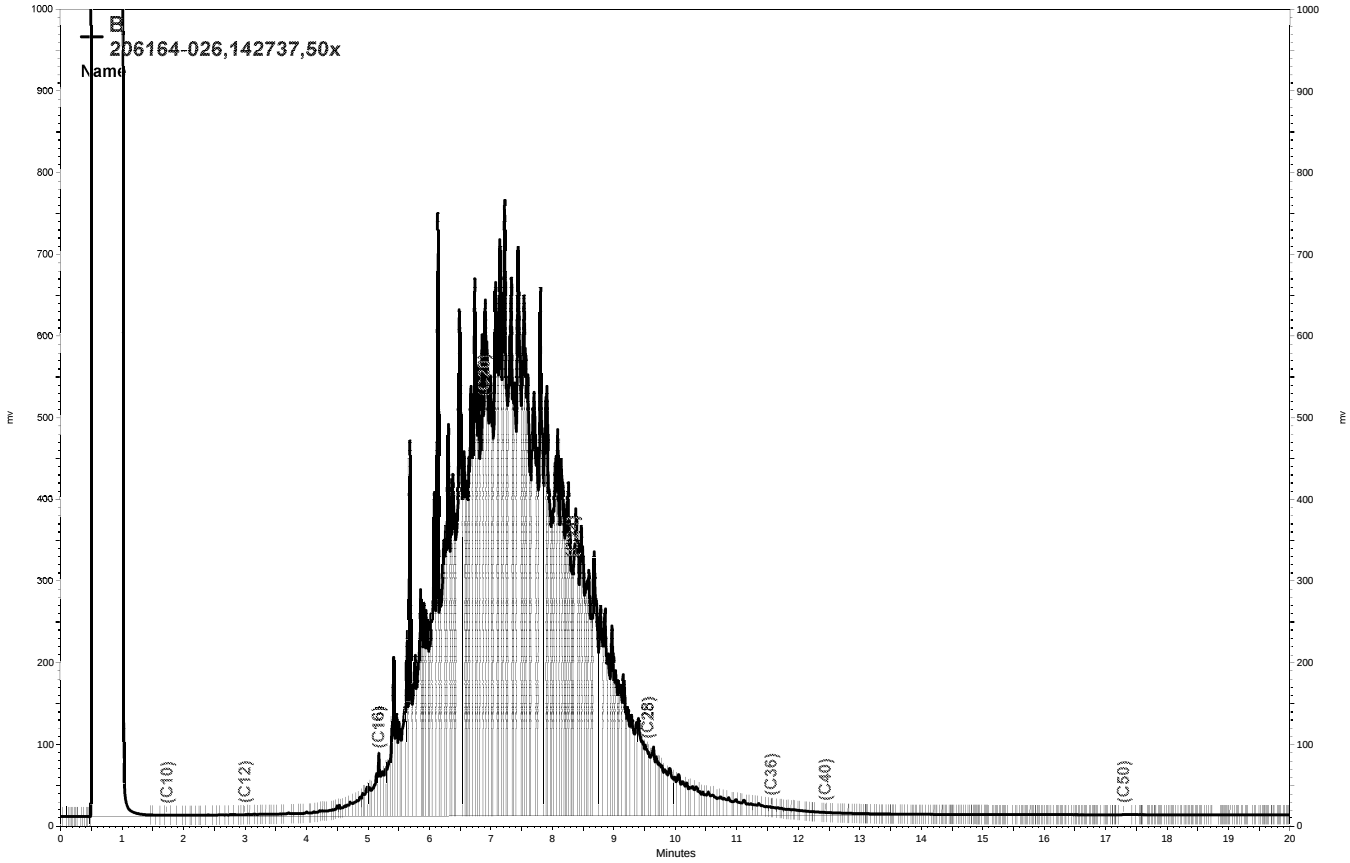


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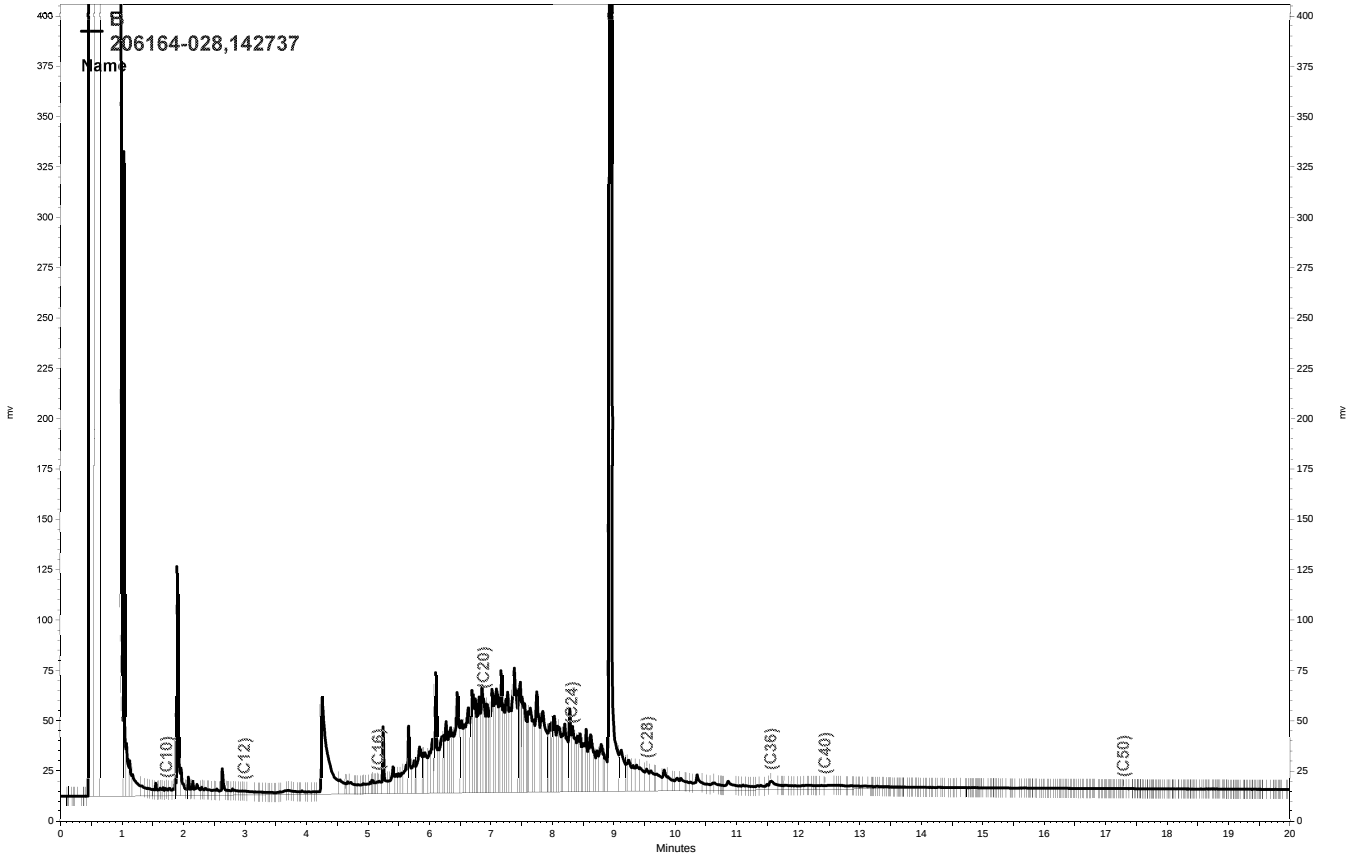


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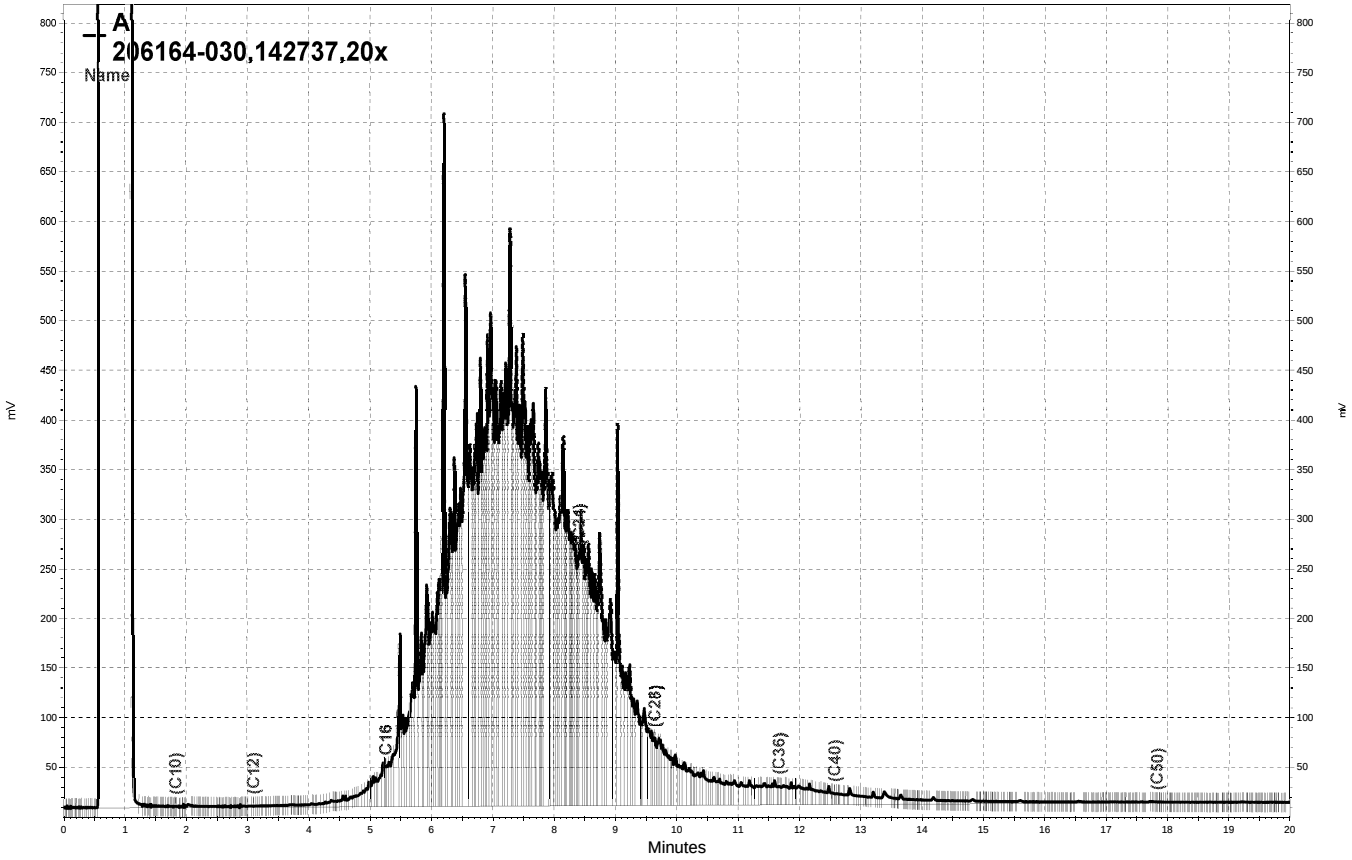


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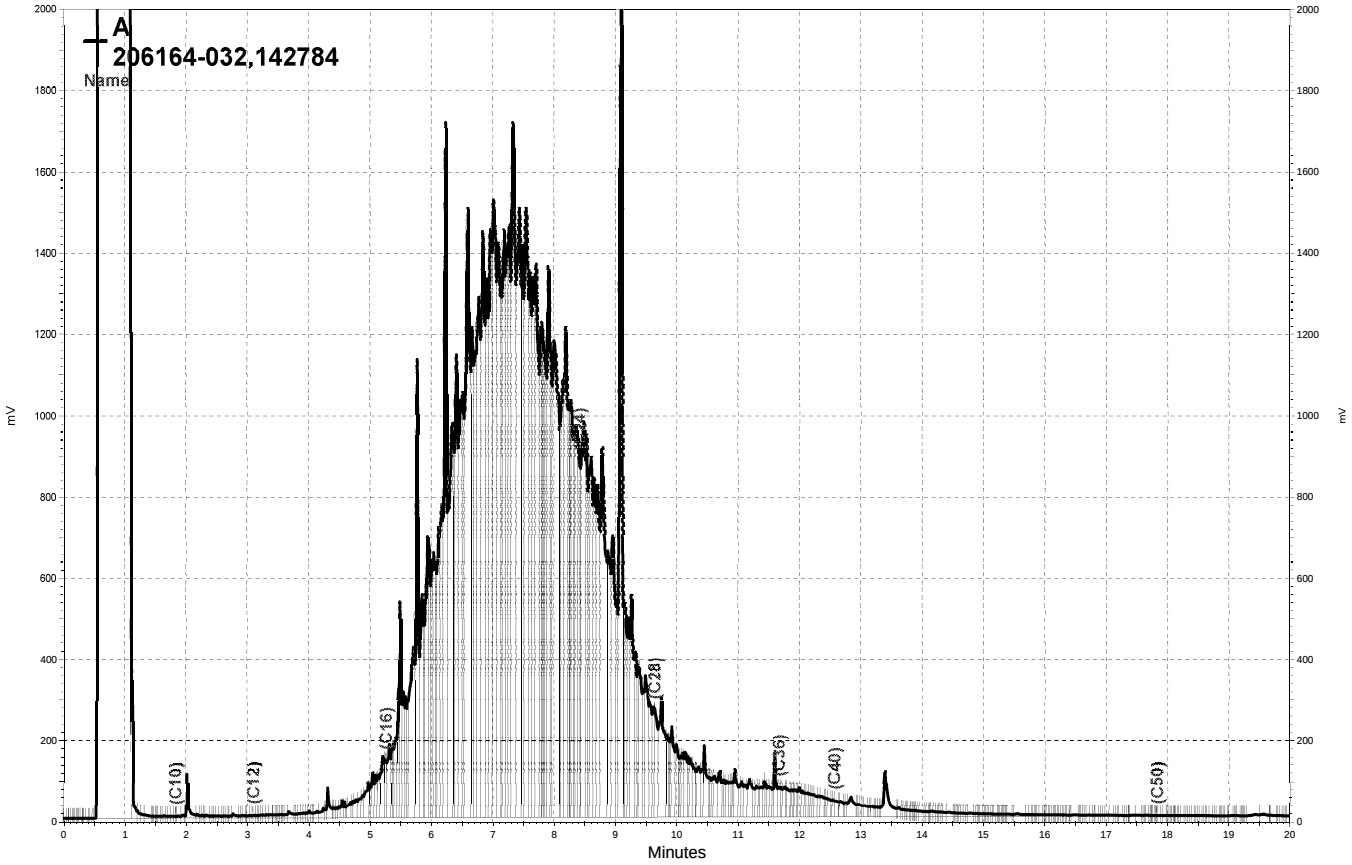


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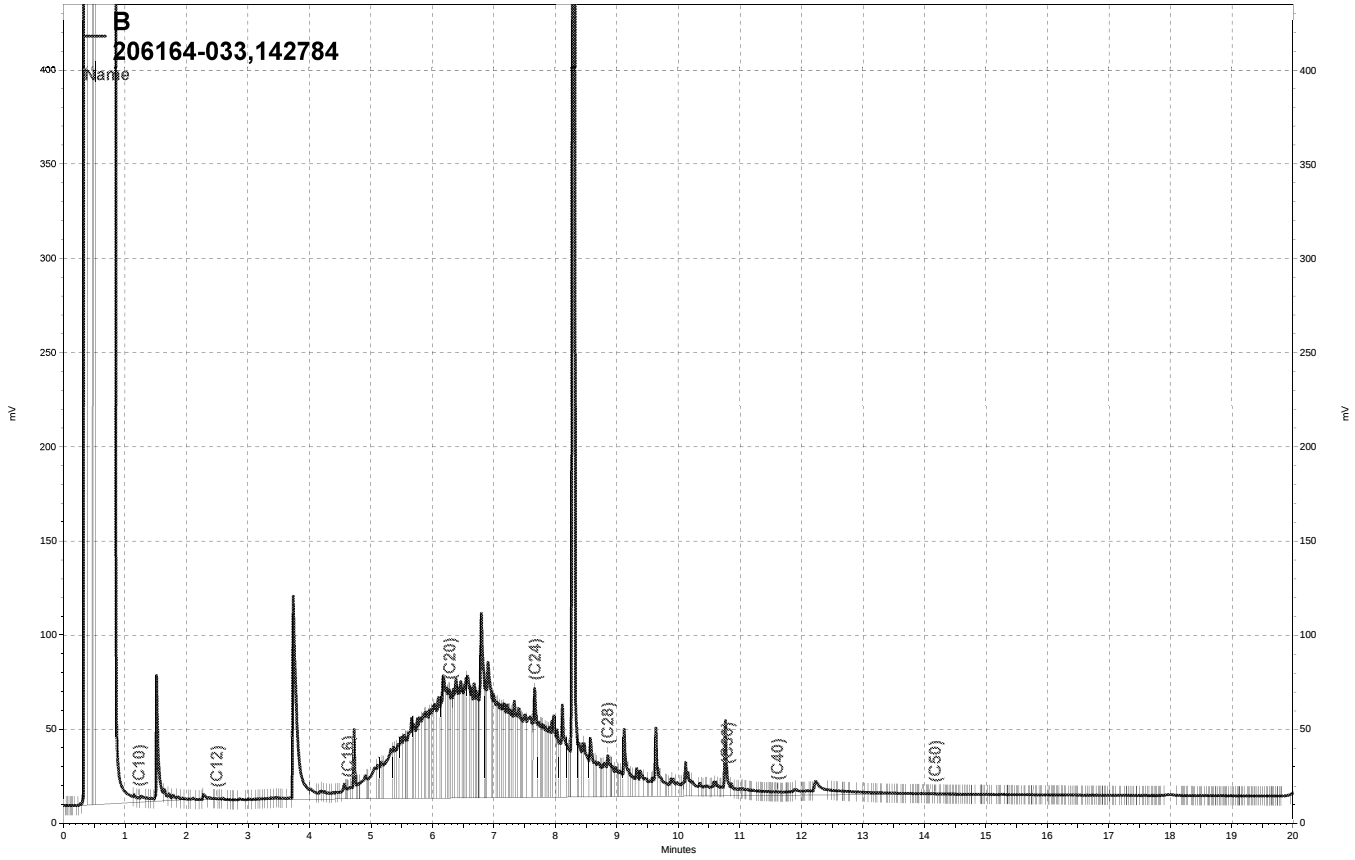


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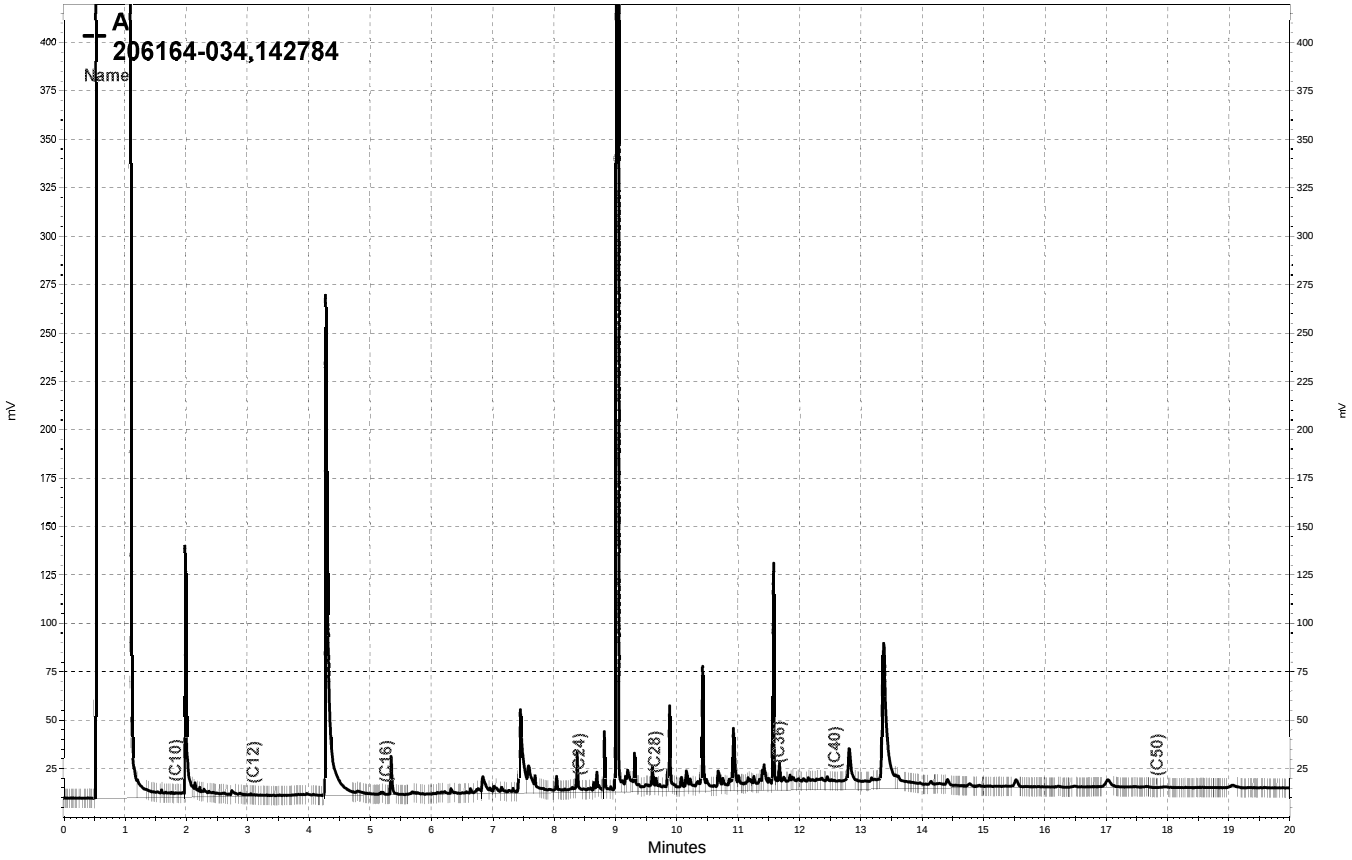


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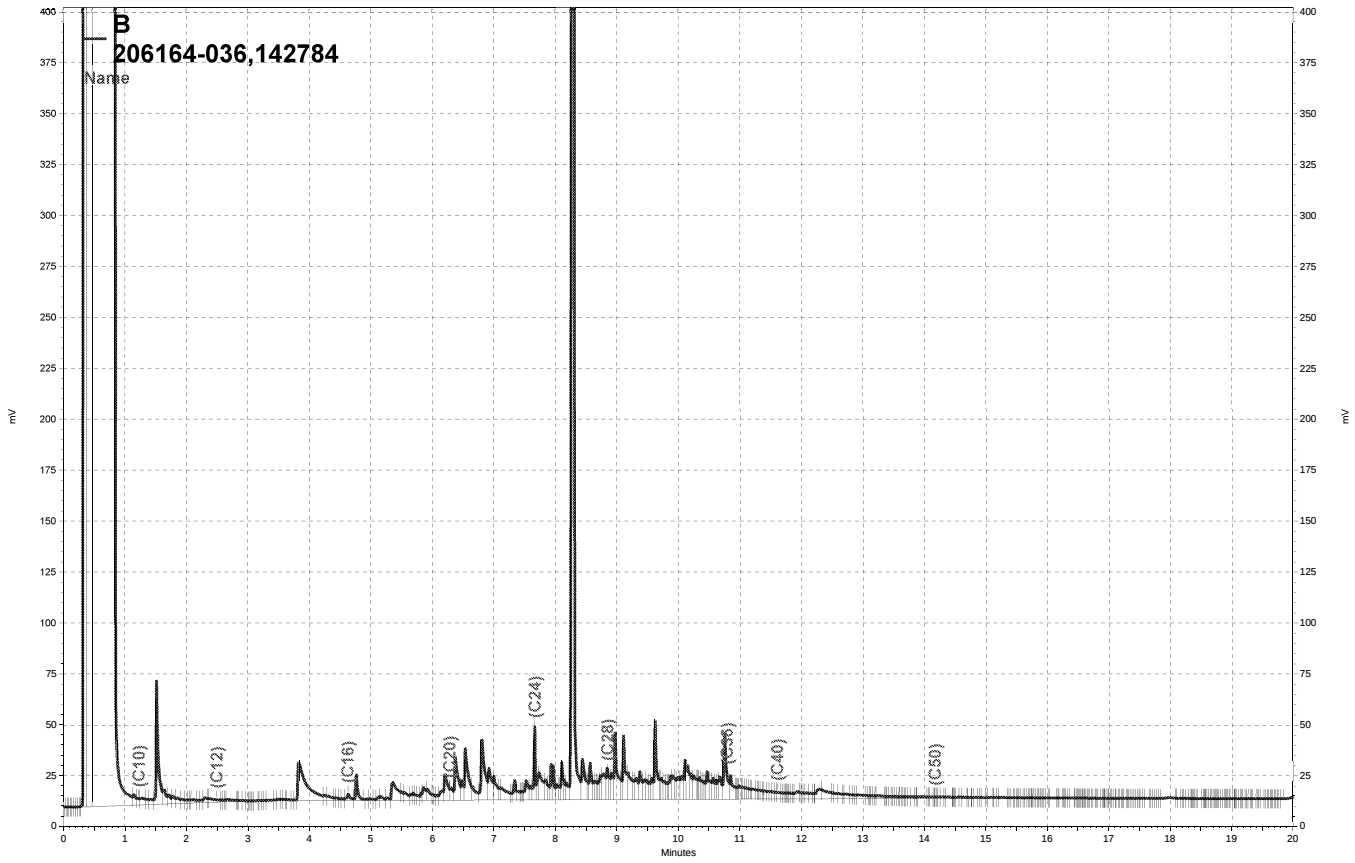


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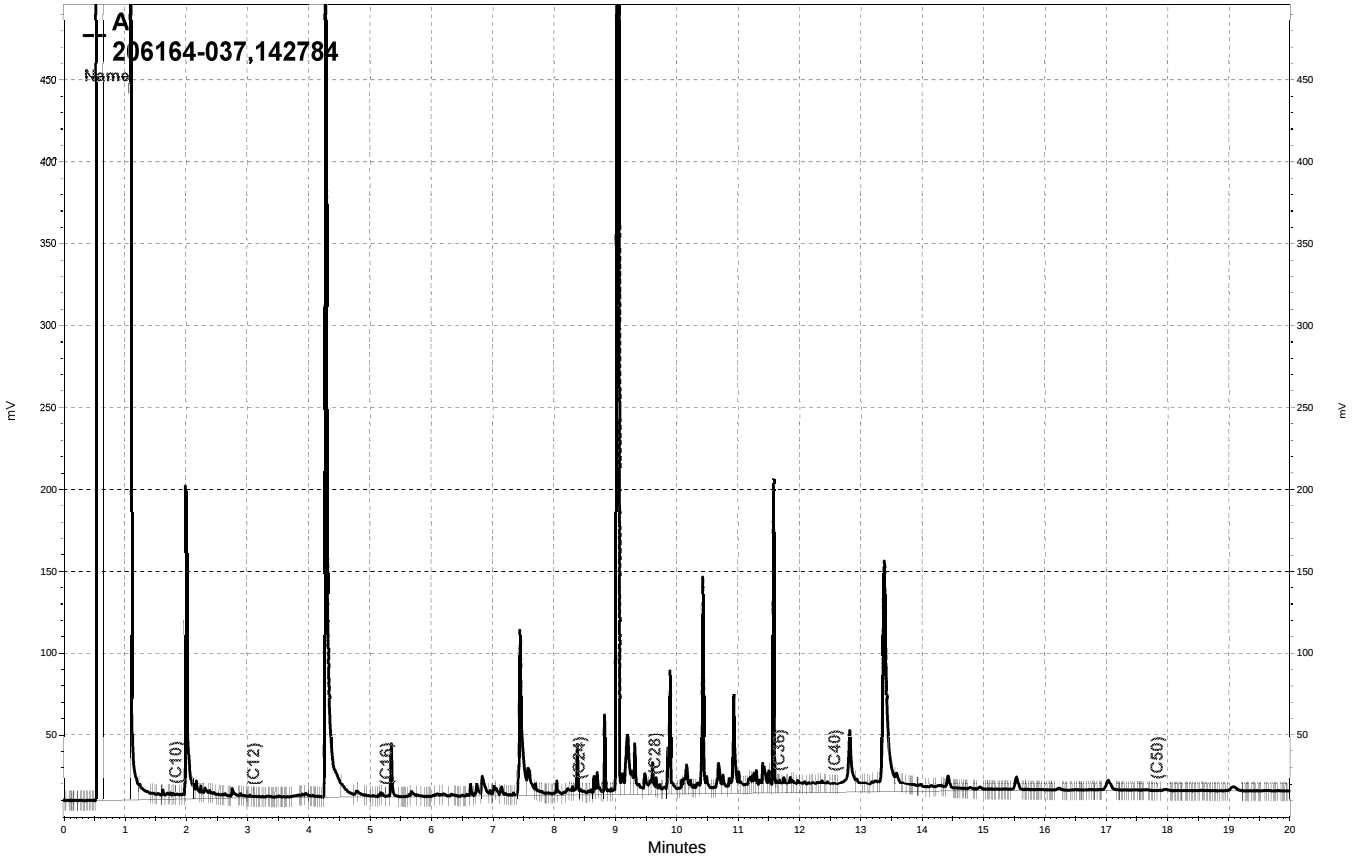


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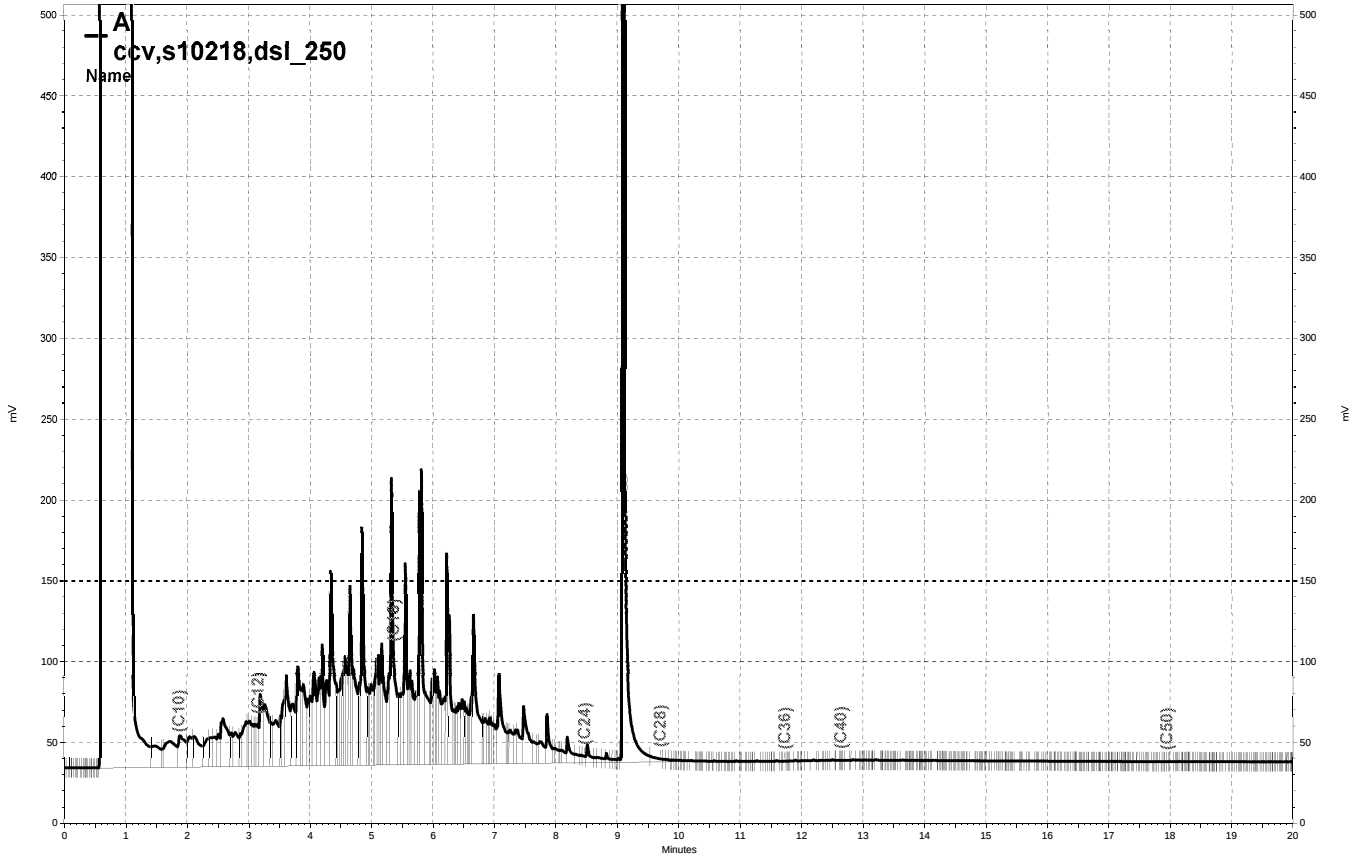


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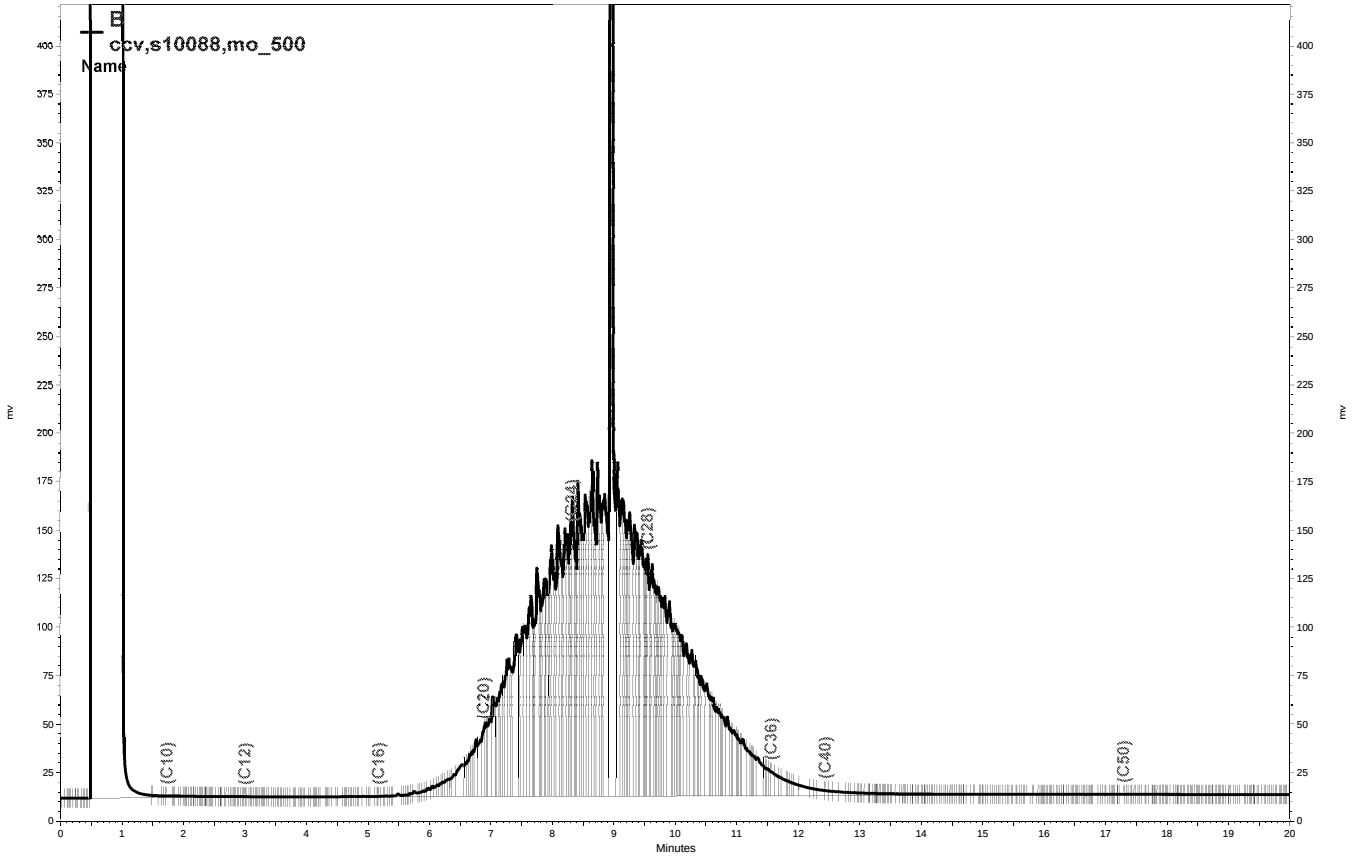



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\265b005, B

Curtis & Tompkins, Ltd.

# Purgeable Halocarbons by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | EB3-W-18.5 | Batch#: | 142749 |
| Lab ID: | 206164-001 | Sampled: | 09/18/08 |
| Matrix: | Water | Received: | 09/18/08 |
| Units: | ug/L | Analyzed: | 09/22/08 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Chloromethane | ND | 1.0 |
| Vinyl Chloride | ND | 0.5 |
| Bromomethane | ND | 1.0 |
| Chloroethane | ND | 1.0 |
| Trichlorofluoromethane | ND | 1.0 |
| Freon 113 | ND | 2.0 |
| 1,1-Dichloroethene | ND | 0.5 |
| Methylene Chloride | ND | 20 |
| trans-1,2-Dichloroethene | ND | 0.5 |
| 1,1-Dichloroethane | ND | 0.5 |
| cis-1,2-Dichloroethene | ND | 0.5 |
| Chloroform | ND | 1.0 |
| 1,1,1-Trichloroethane | ND | 0.5 |
| Carbon Tetrachloride | ND | 0.5 |
| 1,2-Dichloroethane | ND | 0.5 |
| Trichloroethene | ND | 0.5 |
| 1,2-Dichloropropane | ND | 0.5 |
| Bromodichloromethane | ND | 0.5 |
| cis-1,3-Dichloropropene | ND | 0.5 |
| trans-1,3-Dichloropropene | ND | 0.5 |
| 1,1,2-Trichloroethane | ND | 0.5 |
| Tetrachloroethene | ND | 0.5 |
| Dibromochloromethane | ND | 0.5 |
| Chlorobenzene | ND | 0.5 |
| Bromoform | ND | 0.5 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 |
| 1,3-Dichlorobenzene | ND | 0.5 |
| 1,4-Dichlorobenzene | ND | 0.5 |
| 1,2-Dichlorobenzene | ND | 0.5 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | 80-137 |
| Toluene-d8 | 91 | 80-120 |
| Bromofluorobenzene | 102 | 80-122 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Purgeable Halocarbons by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | EB4-W-21.0 | Batch#: | 142749 |
| Lab ID: | 206164-002 | Sampled: | 09/18/08 |
| Matrix: | Water | Received: | 09/18/08 |
| Units: | ug/L | Analyzed: | 09/22/08 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Chloromethane | ND | 1.0 |
| Vinyl Chloride | ND | 0.5 |
| Bromomethane | ND | 1.0 |
| Chloroethane | ND | 1.0 |
| Trichlorofluoromethane | ND | 1.0 |
| Freon 113 | ND | 2.0 |
| 1,1-Dichloroethene | ND | 0.5 |
| Methylene Chloride | ND | 20 |
| trans-1,2-Dichloroethene | ND | 0.5 |
| 1,1-Dichloroethane | ND | 0.5 |
| cis-1,2-Dichloroethene | ND | 0.5 |
| Chloroform | ND | 1.0 |
| 1,1,1-Trichloroethane | ND | 0.5 |
| Carbon Tetrachloride | ND | 0.5 |
| 1,2-Dichloroethane | ND | 0.5 |
| Trichloroethene | ND | 0.5 |
| 1,2-Dichloropropane | ND | 0.5 |
| Bromodichloromethane | ND | 0.5 |
| cis-1,3-Dichloropropene | ND | 0.5 |
| trans-1,3-Dichloropropene | ND | 0.5 |
| 1,1,2-Trichloroethane | ND | 0.5 |
| Tetrachloroethene | ND | 0.5 |
| Dibromochloromethane | ND | 0.5 |
| Chlorobenzene | ND | 0.5 |
| Bromoform | ND | 0.5 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 |
| 1,3-Dichlorobenzene | ND | 0.5 |
| 1,4-Dichlorobenzene | ND | 0.5 |
| 1,2-Dichlorobenzene | ND | 0.5 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | 80-137 |
| Toluene-d8 | 92 | 80-120 |
| Bromofluorobenzene | 104 | 80-122 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Purgeable Halocarbons by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | EB5-W-21.0 | Batch#: | 142749 |
| Lab ID: | 206164-003 | Sampled: | 09/18/08 |
| Matrix: | Water | Received: | 09/18/08 |
| Units: | ug/L | Analyzed: | 09/22/08 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Chloromethane | ND | 1.0 |
| Vinyl Chloride | ND | 0.5 |
| Bromomethane | ND | 1.0 |
| Chloroethane | ND | 1.0 |
| Trichlorofluoromethane | ND | 1.0 |
| Freon 113 | ND | 2.0 |
| 1,1-Dichloroethene | ND | 0.5 |
| Methylene Chloride | ND | 20 |
| trans-1,2-Dichloroethene | ND | 0.5 |
| 1,1-Dichloroethane | ND | 0.5 |
| cis-1,2-Dichloroethene | ND | 0.5 |
| Chloroform | ND | 1.0 |
| 1,1,1-Trichloroethane | ND | 0.5 |
| Carbon Tetrachloride | ND | 0.5 |
| 1,2-Dichloroethane | ND | 0.5 |
| Trichloroethene | ND | 0.5 |
| 1,2-Dichloropropane | ND | 0.5 |
| Bromodichloromethane | ND | 0.5 |
| cis-1,3-Dichloropropene | ND | 0.5 |
| trans-1,3-Dichloropropene | ND | 0.5 |
| 1,1,2-Trichloroethane | ND | 0.5 |
| Tetrachloroethene | 1.6 | 0.5 |
| Dibromochloromethane | ND | 0.5 |
| Chlorobenzene | ND | 0.5 |
| Bromoform | ND | 0.5 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 |
| 1,3-Dichlorobenzene | ND | 0.5 |
| 1,4-Dichlorobenzene | ND | 0.5 |
| 1,2-Dichlorobenzene | ND | 0.5 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 104 | 80-137 |
| Toluene-d8 | 103 | 80-120 |
| Bromofluorobenzene | 99 | 80-122 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Purgeable Halocarbons by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | EB9-W-15.5 | Batch#: | 142753 |
| Lab ID: | 206164-007 | Sampled: | 09/18/08 |
| Matrix: | Water | Received: | 09/18/08 |
| Units: | ug/L | Analyzed: | 09/22/08 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Chloromethane | ND | 1.0 |
| Vinyl Chloride | ND | 0.5 |
| Bromomethane | ND | 1.0 |
| Chloroethane | ND | 1.0 |
| Trichlorofluoromethane | ND | 1.0 |
| Freon 113 | ND | 2.0 |
| 1,1-Dichloroethene | ND | 0.5 |
| Methylene Chloride | ND | 20 |
| trans-1,2-Dichloroethene | ND | 0.5 |
| 1,1-Dichloroethane | ND | 0.5 |
| cis-1,2-Dichloroethene | ND | 0.5 |
| Chloroform | ND | 1.0 |
| 1,1,1-Trichloroethane | ND | 0.5 |
| Carbon Tetrachloride | ND | 0.5 |
| 1,2-Dichloroethane | ND | 0.5 |
| Trichloroethene | ND | 0.5 |
| 1,2-Dichloropropane | ND | 0.5 |
| Bromodichloromethane | ND | 0.5 |
| cis-1,3-Dichloropropene | ND | 0.5 |
| trans-1,3-Dichloropropene | ND | 0.5 |
| 1,1,2-Trichloroethane | ND | 0.5 |
| Tetrachloroethene | 2.1 | 0.5 |
| Dibromochloromethane | ND | 0.5 |
| Chlorobenzene | ND | 0.5 |
| Bromoform | ND | 0.5 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 |
| 1,3-Dichlorobenzene | ND | 0.5 |
| 1,4-Dichlorobenzene | ND | 0.5 |
| 1,2-Dichlorobenzene | ND | 0.5 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 104 | 80-137 |
| Toluene-d8 | 108 | 80-120 |
| Bromofluorobenzene | 102 | 80-122 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Purgeable Halocarbons by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | TRIP BLANK | Batch#: | 142750 |
| Lab ID: | 206164-008 | Sampled: | 09/18/08 |
| Matrix: | Water | Received: | 09/18/08 |
| Units: | ug/L | Analyzed: | 09/22/08 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Chloromethane | ND | 1.0 |
| Vinyl Chloride | ND | 0.5 |
| Bromomethane | ND | 1.0 |
| Chloroethane | ND | 1.0 |
| Trichlorofluoromethane | ND | 1.0 |
| Freon 113 | ND | 2.0 |
| 1,1-Dichloroethene | ND | 0.5 |
| Methylene Chloride | ND | 20 |
| trans-1,2-Dichloroethene | ND | 0.5 |
| 1,1-Dichloroethane | ND | 0.5 |
| cis-1,2-Dichloroethene | ND | 0.5 |
| Chloroform | ND | 1.0 |
| 1,1,1-Trichloroethane | ND | 0.5 |
| Carbon Tetrachloride | ND | 0.5 |
| 1,2-Dichloroethane | ND | 0.5 |
| Trichloroethene | ND | 0.5 |
| 1,2-Dichloropropane | ND | 0.5 |
| Bromodichloromethane | ND | 0.5 |
| cis-1,3-Dichloropropene | ND | 0.5 |
| trans-1,3-Dichloropropene | ND | 0.5 |
| 1,1,2-Trichloroethane | ND | 0.5 |
| Tetrachloroethene | ND | 0.5 |
| Dibromochloromethane | ND | 0.5 |
| Chlorobenzene | ND | 0.5 |
| Bromoform | ND | 0.5 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 |
| 1,3-Dichlorobenzene | ND | 0.5 |
| 1,4-Dichlorobenzene | ND | 0.5 |
| 1,2-Dichlorobenzene | ND | 0.5 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 110 | 80-137 |
| Toluene-d8 | 103 | 80-120 |
| Bromofluorobenzene | 105 | 80-122 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

## Purgeable Halocarbons by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Matrix: | Water | Batch#: | 142749 |
| Units: | ug/L | Analyzed: | 09/22/08 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC461316

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| 1,1-Dichloroethene | 22.50 | 23.42 | 104 | 73-133 |
| Trichloroethene | 22.50 | 22.05 | 98 | 80-120 |
| Chlorobenzene | 22.50 | 22.38 | 99 | 80-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 98 | 80-137 |
| Toluene-d8 | 94 | 80-120 |
| Bromofluorobenzene | 102 | 80-122 |

Type: BSD Lab ID: QC461317

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 22.50 | 24.40 | 108 | 73-133 | 4 | 20 |
| Trichloroethene | 22.50 | 24.28 | 108 | 80-120 | 10 | 20 |
| Chlorobenzene | 22.50 | 23.22 | 103 | 80-120 | 4 | 20 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 101 | 80-137 |
| Toluene-d8 | 96 | 80-120 |
| Bromofluorobenzene | 94 | 80-122 |

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

## Purgeable Halocarbons by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC461318 | Batch#: | 142749 |
| Matrix: | Water | Analyzed: | 09/22/08 |
| Units: | ug/L | | |

| Analyte | Result | RL |
|---|---|---|
| Chloromethane | ND | 1.0 |
| Vinyl Chloride | ND | 0.5 |
| Bromomethane | ND | 1.0 |
| Chloroethane | ND | 1.0 |
| Trichlorofluoromethane | ND | 1.0 |
| Freon 113 | ND | 2.0 |
| 1,1-Dichloroethene | ND | 0.5 |
| Methylene Chloride | ND | 10 |
| trans-1,2-Dichloroethene | ND | 0.5 |
| 1,1-Dichloroethane | ND | 0.5 |
| cis-1,2-Dichloroethene | ND | 0.5 |
| Chloroform | ND | 0.5 |
| 1,1,1-Trichloroethane | ND | 0.5 |
| Carbon Tetrachloride | ND | 0.5 |
| 1,2-Dichloroethane | ND | 0.5 |
| Trichloroethene | ND | 0.5 |
| 1,2-Dichloropropane | ND | 0.5 |
| Bromodichloromethane | ND | 0.5 |
| cis-1,3-Dichloropropene | ND | 0.5 |
| trans-1,3-Dichloropropene | ND | 0.5 |
| 1,1,2-Trichloroethane | ND | 0.5 |
| Tetrachloroethene | ND | 0.5 |
| Dibromochloromethane | ND | 0.5 |
| Chlorobenzene | ND | 0.5 |
| Bromoform | ND | 0.5 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 |
| 1,3-Dichlorobenzene | ND | 0.5 |
| 1,4-Dichlorobenzene | ND | 0.5 |
| 1,2-Dichlorobenzene | ND | 0.5 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 114 | 80-137 |
| Toluene-d8 | 102 | 80-120 |
| Bromofluorobenzene | 103 | 80-122 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

## Purgeable Halocarbons by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Matrix: | Water | Batch#: | 142750 |
| Units: | ug/L | Analyzed: | 09/22/08 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC461319

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| 1,1-Dichloroethene | 25.00 | 25.22 | 101 | 73-133 |
| Trichloroethene | 25.00 | 26.75 | 107 | 80-120 |
| Chlorobenzene | 25.00 | 24.54 | 98 | 80-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 106 | 80-137 |
| Toluene-d8 | 105 | 80-120 |
| Bromofluorobenzene | 104 | 80-122 |

Type: BSD Lab ID: QC461320

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 25.00 | 24.85 | 99 | 73-133 | 1 | 20 |
| Trichloroethene | 25.00 | 25.86 | 103 | 80-120 | 3 | 20 |
| Chlorobenzene | 25.00 | 24.05 | 96 | 80-120 | 2 | 20 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 106 | 80-137 |
| Toluene-d8 | 103 | 80-120 |
| Bromofluorobenzene | 102 | 80-122 |

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

## Purgeable Halocarbons by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC461321 | Batch#: | 142750 |
| Matrix: | Water | Analyzed: | 09/22/08 |
| Units: | ug/L | | |

| Analyte | Result | RL |
|---|---|---|
| Chloromethane | ND | 1.0 |
| Vinyl Chloride | ND | 0.5 |
| Bromomethane | ND | 1.0 |
| Chloroethane | ND | 1.0 |
| Trichlorofluoromethane | ND | 1.0 |
| Freon 113 | ND | 2.0 |
| 1,1-Dichloroethene | ND | 0.5 |
| Methylene Chloride | ND | 10 |
| trans-1,2-Dichloroethene | ND | 0.5 |
| 1,1-Dichloroethane | ND | 0.5 |
| cis-1,2-Dichloroethene | ND | 0.5 |
| Chloroform | ND | 0.5 |
| 1,1,1-Trichloroethane | ND | 0.5 |
| Carbon Tetrachloride | ND | 0.5 |
| 1,2-Dichloroethane | ND | 0.5 |
| Trichloroethene | ND | 0.5 |
| 1,2-Dichloropropane | ND | 0.5 |
| Bromodichloromethane | ND | 0.5 |
| cis-1,3-Dichloropropene | ND | 0.5 |
| trans-1,3-Dichloropropene | ND | 0.5 |
| 1,1,2-Trichloroethane | ND | 0.5 |
| Tetrachloroethene | ND | 0.5 |
| Dibromochloromethane | ND | 0.5 |
| Chlorobenzene | ND | 0.5 |
| Bromoform | ND | 0.5 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 |
| 1,3-Dichlorobenzene | ND | 0.5 |
| 1,4-Dichlorobenzene | ND | 0.5 |
| 1,2-Dichlorobenzene | ND | 0.5 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 108 | 80-137 |
| Toluene-d8 | 103 | 80-120 |
| Bromofluorobenzene | 103 | 80-122 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

## Purgeable Halocarbons by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Matrix: | Water | Batch#: | 142753 |
| Units: | ug/L | Analyzed: | 09/22/08 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC461331

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| 1,1-Dichloroethene | 20.00 | 20.15 | 101 | 73-133 |
| Trichloroethene | 20.00 | 21.62 | 108 | 80-120 |
| Chlorobenzene | 20.00 | 21.07 | 105 | 80-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 96 | 80-137 |
| Toluene-d8 | 105 | 80-120 |
| Bromofluorobenzene | 99 | 80-122 |

Type: BSD Lab ID: QC461332

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 20.00 | 19.20 | 96 | 73-133 | 5 | 20 |
| Trichloroethene | 20.00 | 19.70 | 99 | 80-120 | 9 | 20 |
| Chlorobenzene | 20.00 | 19.54 | 98 | 80-120 | 8 | 20 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 96 | 80-137 |
| Toluene-d8 | 108 | 80-120 |
| Bromofluorobenzene | 100 | 80-122 |

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

## Purgeable Halocarbons by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC461333 | Batch#: | 142753 |
| Matrix: | Water | Analyzed: | 09/22/08 |
| Units: | ug/L | | |

| Analyte | Result | RL |
|---|---|---|
| Chloromethane | ND | 1.0 |
| Vinyl Chloride | ND | 0.5 |
| Bromomethane | ND | 1.0 |
| Chloroethane | ND | 1.0 |
| Trichlorofluoromethane | ND | 1.0 |
| Freon 113 | ND | 2.0 |
| 1,1-Dichloroethene | ND | 0.5 |
| Methylene Chloride | ND | 10 |
| trans-1,2-Dichloroethene | ND | 0.5 |
| 1,1-Dichloroethane | ND | 0.5 |
| cis-1,2-Dichloroethene | ND | 0.5 |
| Chloroform | ND | 0.5 |
| 1,1,1-Trichloroethane | ND | 0.5 |
| Carbon Tetrachloride | ND | 0.5 |
| 1,2-Dichloroethane | ND | 0.5 |
| Trichloroethene | ND | 0.5 |
| 1,2-Dichloropropane | ND | 0.5 |
| Bromodichloromethane | ND | 0.5 |
| cis-1,3-Dichloropropene | ND | 0.5 |
| trans-1,3-Dichloropropene | ND | 0.5 |
| 1,1,2-Trichloroethane | ND | 0.5 |
| Tetrachloroethene | ND | 0.5 |
| Dibromochloromethane | ND | 0.5 |
| Chlorobenzene | ND | 0.5 |
| Bromoform | ND | 0.5 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 |
| 1,3-Dichlorobenzene | ND | 0.5 |
| 1,4-Dichlorobenzene | ND | 0.5 |
| 1,2-Dichlorobenzene | ND | 0.5 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 101 | 80-137 |
| Toluene-d8 | 110 | 80-120 |
| Bromofluorobenzene | 100 | 80-122 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

## Purgeable Halocarbons by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | ZZZZZZZZZZ | Batch#: | 142750 |
| MSS Lab ID: | 206090-002 | Sampled: | 09/16/08 |
| Matrix: | Water | Received: | 09/16/08 |
| Units: | ug/L | Analyzed: | 09/22/08 |
| Diln Fac: | 1.000 | | |

Type: MS Lab ID: QC461444

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| 1,1-Dichloroethene | <0.1379 | 25.00 | 25.61 | 102 | 76-133 |
| Trichloroethene | 19.07 | 25.00 | 44.24 | 101 | 74-129 |
| Chlorobenzene | <0.1000 | 25.00 | 24.57 | 98 | 80-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 114 | 80-137 |
| Toluene-d8 | 106 | 80-120 |
| Bromofluorobenzene | 104 | 80-122 |

Type: MSD Lab ID: QC461445

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 25.00 | 25.60 | 102 | 76-133 | 0 | 20 |
| Trichloroethene | 25.00 | 42.71 | 95 | 74-129 | 4 | 20 |
| Chlorobenzene | 25.00 | 24.59 | 98 | 80-120 | 0 | 20 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 113 | 80-137 |
| Toluene-d8 | 103 | 80-120 |
| Bromofluorobenzene | 106 | 80-122 |

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

# Curtis & Tompkins Laboratories Analytical Report

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | EB6-W-21.0 | Batch#: | 142754 |
| Lab ID: | 206164-004 | Sampled: | 09/18/08 |
| Matrix: | Water | Received: | 09/18/08 |
| Units: | ug/L | Analyzed: | 09/23/08 |
| Diln Fac: | 166.7 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | 15,000 Y Z | 8,300 |
| Freon 12 | ND | 170 |
| Chloromethane | ND | 170 |
| Vinyl Chloride | ND | 83 |
| Bromomethane | ND | 170 |
| Chloroethane | ND | 170 |
| Trichlorofluoromethane | ND | 170 |
| Acetone | ND | 1,700 |
| Freon 113 | ND | 330 |
| 1,1-Dichloroethene | ND | 83 |
| Methylene Chloride | ND | 1,700 |
| Carbon Disulfide | ND | 83 |
| MTBE | ND | 83 |
| trans-1,2-Dichloroethene | ND | 83 |
| Vinyl Acetate | ND | 1,700 |
| 1,1-Dichloroethane | ND | 83 |
| 2-Butanone | ND | 1,700 |
| cis-1,2-Dichloroethene | ND | 83 |
| 2,2-Dichloropropane | ND | 83 |
| Chloroform | ND | 83 |
| Bromochloromethane | ND | 83 |
| 1,1,1-Trichloroethane | ND | 83 |
| 1,1-Dichloropropene | ND | 83 |
| Carbon Tetrachloride | ND | 83 |
| 1,2-Dichloroethane | ND | 83 |
| Benzene | ND | 83 |
| Trichloroethene | ND | 83 |
| 1,2-Dichloropropane | ND | 83 |
| Bromodichloromethane | ND | 83 |
| Dibromomethane | ND | 83 |
| 4-Methyl-2-Pentanone | ND | 1,700 |
| cis-1,3-Dichloropropene | ND | 83 |
| Toluene | ND | 83 |
| trans-1,3-Dichloropropene | ND | 83 |
| 1,1,2-Trichloroethane | ND | 83 |
| 2-Hexanone | ND | 1,700 |
| 1,3-Dichloropropane | ND | 83 |
| Tetrachloroethene | 11,000 | 83 |
| Dibromochloromethane | ND | 83 |
| 1,2-Dibromoethane | ND | 83 |
| Chlorobenzene | ND | 83 |
| 1,1,1,2-Tetrachloroethane | ND | 83 |
| Ethylbenzene | ND | 83 |
| m,p-Xylenes | ND | 83 |
| o-Xylene | ND | 83 |
| Styrene | ND | 83 |
| Bromoform | ND | 170 |
| Isopropylbenzene | ND | 83 |
| 1,1,2,2-Tetrachloroethane | ND | 83 |
| 1,2,3-Trichloropropane | ND | 83 |
| Propylbenzene | ND | 83 |

*= Value outside of QC limits; see narrative
Y= Sample exhibits chromatographic pattern which does not resemble standard
Z= Sample exhibits unknown single peak or peaks
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Curtis & Tompkins Laboratories Analytical Report

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | EB6-W-21.0 | Batch#: | 142754 |
| Lab ID: | 206164-004 | Sampled: | 09/18/08 |
| Matrix: | Water | Received: | 09/18/08 |
| Units: | ug/L | Analyzed: | 09/23/08 |
| Diln Fac: | 166.7 | | |

| Analyte | Result | RL |
|---|---|---|
| Bromobenzene | ND | 83 |
| 1,3,5-Trimethylbenzene | ND | 83 |
| 2-Chlorotoluene | ND | 83 |
| 4-Chlorotoluene | ND | 83 |
| tert-Butylbenzene | ND | 83 |
| 1,2,4-Trimethylbenzene | ND | 83 |
| sec-Butylbenzene | ND | 83 |
| para-Isopropyl Toluene | ND | 83 |
| 1,3-Dichlorobenzene | ND | 83 |
| 1,4-Dichlorobenzene | ND | 83 |
| n-Butylbenzene | ND | 83 |
| 1,2-Dichlorobenzene | ND | 83 |
| 1,2-Dibromo-3-Chloropropane | ND | 330 |
| 1,2,4-Trichlorobenzene | ND | 83 |
| Hexachlorobutadiene | ND | 330 |
| Naphthalene | ND | 330 |
| 1,2,3-Trichlorobenzene | ND | 83 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 105 | 80-125 |
| 1,2-Dichloroethane-d4 | 100 | 80-137 |
| Toluene-d8 | 101 | 80-120 |
| Bromofluorobenzene | 130 * | 80-122 |

*= Value outside of QC limits; see narrative
Y= Sample exhibits chromatographic pattern which does not resemble standard
Z= Sample exhibits unknown single peak or peaks
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Curtis & Tompkins Laboratories Analytical Report

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | EB7-W-15.5 | Batch#: | 142824 |
| Lab ID: | 206164-005 | Sampled: | 09/18/08 |
| Matrix: | Water | Received: | 09/18/08 |
| Units: | ug/L | Analyzed: | 09/24/08 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |
| Freon 12 | ND | 1.0 |
| Chloromethane | ND | 1.0 |
| Vinyl Chloride | ND | 0.5 |
| Bromomethane | ND | 1.0 |
| Chloroethane | ND | 1.0 |
| Trichlorofluoromethane | ND | 1.0 |
| Acetone | ND | 10 |
| Freon 113 | ND | 2.0 |
| 1,1-Dichloroethene | ND | 0.5 |
| Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 0.5 |
| MTBE | ND | 0.5 |
| trans-1,2-Dichloroethene | ND | 0.5 |
| Vinyl Acetate | ND | 10 |
| 1,1-Dichloroethane | ND | 0.5 |
| 2-Butanone | ND | 10 |
| cis-1,2-Dichloroethene | ND | 0.5 |
| 2,2-Dichloropropane | ND | 0.5 |
| Chloroform | ND | 0.5 |
| Bromochloromethane | ND | 0.5 |
| 1,1,1-Trichloroethane | ND | 0.5 |
| 1,1-Dichloropropene | ND | 0.5 |
| Carbon Tetrachloride | ND | 0.5 |
| 1,2-Dichloroethane | ND | 0.5 |
| Benzene | ND | 0.5 |
| Trichloroethene | 4.3 | 0.5 |
| 1,2-Dichloropropane | ND | 0.5 |
| Bromodichloromethane | ND | 0.5 |
| Dibromomethane | ND | 0.5 |
| 4-Methyl-2-Pentanone | ND | 10 |
| cis-1,3-Dichloropropene | ND | 0.5 |
| Toluene | ND | 0.5 |
| trans-1,3-Dichloropropene | ND | 0.5 |
| 1,1,2-Trichloroethane | ND | 0.5 |
| 2-Hexanone | ND | 10 |
| 1,3-Dichloropropane | ND | 0.5 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Curtis & Tompkins Laboratories Analytical Report

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | EB7-W-15.5 | Batch#: | 142824 |
| Lab ID: | 206164-005 | Sampled: | 09/18/08 |
| Matrix: | Water | Received: | 09/18/08 |
| Units: | ug/L | Analyzed: | 09/24/08 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Tetrachloroethene | 7.1 | 0.5 |
| Dibromochloromethane | ND | 0.5 |
| 1,2-Dibromoethane | ND | 0.5 |
| Chlorobenzene | ND | 0.5 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 |
| Ethylbenzene | ND | 0.5 |
| m,p-Xylenes | ND | 0.5 |
| o-Xylene | ND | 0.5 |
| Styrene | ND | 0.5 |
| Bromoform | ND | 1.0 |
| Isopropylbenzene | ND | 0.5 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 |
| 1,2,3-Trichloropropane | ND | 0.5 |
| Propylbenzene | ND | 0.5 |
| Bromobenzene | ND | 0.5 |
| 1,3,5-Trimethylbenzene | ND | 0.5 |
| 2-Chlorotoluene | ND | 0.5 |
| 4-Chlorotoluene | ND | 0.5 |
| tert-Butylbenzene | ND | 0.5 |
| 1,2,4-Trimethylbenzene | ND | 0.5 |
| sec-Butylbenzene | ND | 0.5 |
| para-Isopropyl Toluene | ND | 0.5 |
| 1,3-Dichlorobenzene | ND | 0.5 |
| 1,4-Dichlorobenzene | ND | 0.5 |
| n-Butylbenzene | ND | 0.5 |
| 1,2-Dichlorobenzene | ND | 0.5 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 |
| 1,2,4-Trichlorobenzene | ND | 0.5 |
| Hexachlorobutadiene | ND | 2.0 |
| Naphthalene | ND | 2.0 |
| 1,2,3-Trichlorobenzene | ND | 0.5 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 101 | 80-125 |
| 1,2-Dichloroethane-d4 | 107 | 80-137 |
| Toluene-d8 | 102 | 80-120 |
| Bromofluorobenzene | 107 | 80-122 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Curtis & Tompkins Laboratories Analytical Report

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | EB8-W-8.5 | Batch#: | 142824 |
| Lab ID: | 206164-006 | Sampled: | 09/18/08 |
| Matrix: | Water | Received: | 09/18/08 |
| Units: | ug/L | Analyzed: | 09/24/08 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | 460 Y | 50 |
| Freon 12 | ND | 1.0 |
| Chloromethane | ND | 1.0 |
| Vinyl Chloride | ND | 0.5 |
| Bromomethane | ND | 1.0 |
| Chloroethane | ND | 1.0 |
| Trichlorofluoromethane | ND | 1.0 |
| Acetone | ND | 10 |
| Freon 113 | ND | 2.0 |
| 1,1-Dichloroethene | ND | 0.5 |
| Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 0.5 |
| MTBE | ND | 0.5 |
| trans-1,2-Dichloroethene | ND | 0.5 |
| Vinyl Acetate | ND | 10 |
| 1,1-Dichloroethane | ND | 0.5 |
| 2-Butanone | ND | 10 |
| cis-1,2-Dichloroethene | ND | 0.5 |
| 2,2-Dichloropropane | ND | 0.5 |
| Chloroform | ND | 0.5 |
| Bromochloromethane | ND | 0.5 |
| 1,1,1-Trichloroethane | ND | 0.5 |
| 1,1-Dichloropropene | ND | 0.5 |
| Carbon Tetrachloride | ND | 0.5 |
| 1,2-Dichloroethane | ND | 0.5 |
| Benzene | ND | 0.5 |
| Trichloroethene | ND | 0.5 |
| 1,2-Dichloropropane | ND | 0.5 |
| Bromodichloromethane | ND | 0.5 |
| Dibromomethane | ND | 0.5 |
| 4-Methyl-2-Pentanone | ND | 10 |
| cis-1,3-Dichloropropene | ND | 0.5 |
| Toluene | ND | 0.5 |
| trans-1,3-Dichloropropene | ND | 0.5 |
| 1,1,2-Trichloroethane | ND | 0.5 |
| 2-Hexanone | ND | 10 |
| 1,3-Dichloropropane | ND | 0.5 |
| Tetrachloroethene | ND | 0.5 |
| Dibromochloromethane | ND | 0.5 |
| 1,2-Dibromoethane | ND | 0.5 |
| Chlorobenzene | ND | 0.5 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 |
| Ethylbenzene | 5.0 | 0.5 |
| m,p-Xylenes | 1.3 | 0.5 |
| o-Xylene | ND | 0.5 |
| Styrene | ND | 0.5 |
| Bromoform | ND | 1.0 |
| Isopropylbenzene | 2.0 | 0.5 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 |
| 1,2,3-Trichloropropane | ND | 0.5 |
| Propylbenzene | 3.2 | 0.5 |
| Bromobenzene | ND | 0.5 |
| 1,3,5-Trimethylbenzene | 1.8 | 0.5 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Curtis & Tompkins Laboratories Analytical Report

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | EB8-W-8.5 | Batch#: | 142824 |
| Lab ID: | 206164-006 | Sampled: | 09/18/08 |
| Matrix: | Water | Received: | 09/18/08 |
| Units: | ug/L | Analyzed: | 09/24/08 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL |
|---|---|---|
| 2-Chlorotoluene | ND | 0.5 |
| 4-Chlorotoluene | ND | 0.5 |
| tert-Butylbenzene | ND | 0.5 |
| 1,2,4-Trimethylbenzene | 5.5 | 0.5 |
| sec-Butylbenzene | 5.0 | 0.5 |
| para-Isopropyl Toluene | ND | 0.5 |
| 1,3-Dichlorobenzene | ND | 0.5 |
| 1,4-Dichlorobenzene | ND | 0.5 |
| n-Butylbenzene | 3.7 | 0.5 |
| 1,2-Dichlorobenzene | ND | 0.5 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 |
| 1,2,4-Trichlorobenzene | ND | 0.5 |
| Hexachlorobutadiene | ND | 2.0 |
| Naphthalene | 94 | 2.0 |
| 1,2,3-Trichlorobenzene | ND | 0.5 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 101 | 80-125 |
| 1,2-Dichloroethane-d4 | 105 | 80-137 |
| Toluene-d8 | 101 | 80-120 |
| Bromofluorobenzene | 84 | 80-122 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Batch QC Report

## Curtis & Tompkins Laboratories Analytical Report

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Type: | BLANK | Dil'n Fac: | 1.000 |
| Lab ID: | QC461334 | Batch#: | 142754 |
| Matrix: | Water | Analyzed: | 09/22/08 |
| Units: | ug/L | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |
| Freon 12 | ND | 1.0 |
| Chloromethane | ND | 1.0 |
| Vinyl Chloride | ND | 0.5 |
| Bromomethane | ND | 1.0 |
| Chloroethane | ND | 1.0 |
| Trichlorofluoromethane | ND | 1.0 |
| Acetone | ND | 10 |
| Freon 113 | ND | 2.0 |
| 1,1-Dichloroethene | ND | 0.5 |
| Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 0.5 |
| MTBE | ND | 0.5 |
| trans-1,2-Dichloroethene | ND | 0.5 |
| Vinyl Acetate | ND | 10 |
| 1,1-Dichloroethane | ND | 0.5 |
| 2-Butanone | ND | 10 |
| cis-1,2-Dichloroethene | ND | 0.5 |
| 2,2-Dichloropropane | ND | 0.5 |
| Chloroform | ND | 0.5 |
| Bromochloromethane | ND | 0.5 |
| 1,1,1-Trichloroethane | ND | 0.5 |
| 1,1-Dichloropropene | ND | 0.5 |
| Carbon Tetrachloride | ND | 0.5 |
| 1,2-Dichloroethane | ND | 0.5 |
| Benzene | ND | 0.5 |
| Trichloroethene | ND | 0.5 |
| 1,2-Dichloropropane | ND | 0.5 |
| Bromodichloromethane | ND | 0.5 |
| Dibromomethane | ND | 0.5 |
| 4-Methyl-2-Pentanone | ND | 10 |
| cis-1,3-Dichloropropene | ND | 0.5 |
| Toluene | ND | 0.5 |
| trans-1,3-Dichloropropene | ND | 0.5 |
| 1,1,2-Trichloroethane | ND | 0.5 |
| 2-Hexanone | ND | 10 |
| 1,3-Dichloropropane | ND | 0.5 |
| Tetrachloroethene | ND | 0.5 |
| Dibromochloromethane | ND | 0.5 |
| 1,2-Dibromoethane | ND | 0.5 |
| Chlorobenzene | ND | 0.5 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 |
| Ethylbenzene | ND | 0.5 |
| m,p-Xylenes | ND | 0.5 |
| o-Xylene | ND | 0.5 |
| Styrene | ND | 0.5 |
| Bromoform | ND | 0.5 |
| Isopropylbenzene | ND | 0.5 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 |
| 1,2,3-Trichloropropane | ND | 0.5 |
| Propylbenzene | ND | 0.5 |
| Bromobenzene | ND | 0.5 |
| 1,3,5-Trimethylbenzene | ND | 0.5 |

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Batch QC Report

## Curtis & Tompkins Laboratories Analytical Report

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC461334 | Batch#: | 142754 |
| Matrix: | Water | Analyzed: | 09/22/08 |
| Units: | ug/L | | |

| Analyte | Result | RL |
|---|---|---|
| 2-Chlorotoluene | ND | 0.5 |
| 4-Chlorotoluene | ND | 0.5 |
| tert-Butylbenzene | ND | 0.5 |
| 1,2,4-Trimethylbenzene | ND | 0.5 |
| sec-Butylbenzene | ND | 0.5 |
| para-Isopropyl Toluene | ND | 0.5 |
| 1,3-Dichlorobenzene | ND | 0.5 |
| 1,4-Dichlorobenzene | ND | 0.5 |
| n-Butylbenzene | ND | 0.5 |
| 1,2-Dichlorobenzene | ND | 0.5 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 |
| 1,2,4-Trichlorobenzene | ND | 0.5 |
| Hexachlorobutadiene | ND | 2.0 |
| Naphthalene | ND | 2.0 |
| 1,2,3-Trichlorobenzene | ND | 0.5 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 102 | 80-125 |
| 1,2-Dichloroethane-d4 | 95 | 80-137 |
| Toluene-d8 | 98 | 80-120 |
| Bromofluorobenzene | 124 * | 80-122 |

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

## Curtis & Tompkins Laboratories Analytical Report

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Matrix: | Water | Batch#: | 142754 |
| Units: | ug/L | Analyzed: | 09/22/08 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC461335

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| 1,1-Dichloroethene | 20.00 | 15.74 | 79 | 73-133 |
| Benzene | 20.00 | 19.16 | 96 | 80-120 |
| Trichloroethene | 20.00 | 19.09 | 95 | 80-120 |
| Toluene | 20.00 | 19.39 | 97 | 80-120 |
| Chlorobenzene | 20.00 | 19.44 | 97 | 80-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 104 | 80-125 |
| 1,2-Dichloroethane-d4 | 94 | 80-137 |
| Toluene-d8 | 99 | 80-120 |
| Bromofluorobenzene | 107 | 80-122 |

Type: BSD Lab ID: QC461336

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 20.00 | 16.20 | 81 | 73-133 | 3 | 20 |
| Benzene | 20.00 | 19.99 | 100 | 80-120 | 4 | 20 |
| Trichloroethene | 20.00 | 20.01 | 100 | 80-120 | 5 | 20 |
| Toluene | 20.00 | 19.28 | 96 | 80-120 | 1 | 20 |
| Chlorobenzene | 20.00 | 20.35 | 102 | 80-120 | 5 | 20 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 103 | 80-125 |
| 1,2-Dichloroethane-d4 | 95 | 80-137 |
| Toluene-d8 | 99 | 80-120 |
| Bromofluorobenzene | 106 | 80-122 |

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

## Curtis & Tompkins Laboratories Analytical Report

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Matrix: | Water | Batch#: | 142754 |
| Units: | ug/L | Analyzed: | 09/22/08 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC461337

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Gasoline C7-C12 | 750.0 | 729.3 | 97 | 70-130 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 104 | 80-125 |
| 1,2-Dichloroethane-d4 | 97 | 80-137 |
| Toluene-d8 | 100 | 80-120 |
| Bromofluorobenzene | 109 | 80-122 |

Type: BSD Lab ID: QC461338

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Gasoline C7-C12 | 750.0 | 714.5 | 95 | 70-130 | 2 | 20 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 102 | 80-125 |
| 1,2-Dichloroethane-d4 | 97 | 80-137 |
| Toluene-d8 | 100 | 80-120 |
| Bromofluorobenzene | 108 | 80-122 |

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

## Curtis & Tompkins Laboratories Analytical Report

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC461637 | Batch#: | 142824 |
| Matrix: | Water | Analyzed: | 09/23/08 |
| Units: | ug/L | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |
| Freon 12 | ND | 1.0 |
| Chloromethane | ND | 1.0 |
| Vinyl Chloride | ND | 0.5 |
| Bromomethane | ND | 1.0 |
| Chloroethane | ND | 1.0 |
| Trichlorofluoromethane | ND | 1.0 |
| Acetone | ND | 10 |
| Freon 113 | ND | 2.0 |
| 1,1-Dichloroethene | ND | 0.5 |
| Methylene Chloride | ND | 10 |
| Carbon Disulfide | ND | 0.5 |
| MTBE | ND | 0.5 |
| trans-1,2-Dichloroethene | ND | 0.5 |
| Vinyl Acetate | ND | 10 |
| 1,1-Dichloroethane | ND | 0.5 |
| 2-Butanone | ND | 10 |
| cis-1,2-Dichloroethene | ND | 0.5 |
| 2,2-Dichloropropane | ND | 0.5 |
| Chloroform | ND | 0.5 |
| Bromochloromethane | ND | 0.5 |
| 1,1,1-Trichloroethane | ND | 0.5 |
| 1,1-Dichloropropene | ND | 0.5 |
| Carbon Tetrachloride | ND | 0.5 |
| 1,2-Dichloroethane | ND | 0.5 |
| Benzene | ND | 0.5 |
| Trichloroethene | ND | 0.5 |
| 1,2-Dichloropropane | ND | 0.5 |
| Bromodichloromethane | ND | 0.5 |
| Dibromomethane | ND | 0.5 |
| 4-Methyl-2-Pentanone | ND | 10 |
| cis-1,3-Dichloropropene | ND | 0.5 |
| Toluene | ND | 0.5 |
| trans-1,3-Dichloropropene | ND | 0.5 |
| 1,1,2-Trichloroethane | ND | 0.5 |
| 2-Hexanone | ND | 10 |
| 1,3-Dichloropropane | ND | 0.5 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

## Curtis & Tompkins Laboratories Analytical Report

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC461637 | Batch#: | 142824 |
| Matrix: | Water | Analyzed: | 09/23/08 |
| Units: | ug/L | | |

| Analyte | Result | RL |
|---|---|---|
| Tetrachloroethene | ND | 0.5 |
| Dibromochloromethane | ND | 0.5 |
| 1,2-Dibromoethane | ND | 0.5 |
| Chlorobenzene | ND | 0.5 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 |
| Ethylbenzene | ND | 0.5 |
| m,p-Xylenes | ND | 0.5 |
| o-Xylene | ND | 0.5 |
| Styrene | ND | 0.5 |
| Bromoform | ND | 0.5 |
| Isopropylbenzene | ND | 0.5 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 |
| 1,2,3-Trichloropropane | ND | 0.5 |
| Propylbenzene | ND | 0.5 |
| Bromobenzene | ND | 0.5 |
| 1,3,5-Trimethylbenzene | ND | 0.5 |
| 2-Chlorotoluene | ND | 0.5 |
| 4-Chlorotoluene | ND | 0.5 |
| tert-Butylbenzene | ND | 0.5 |
| 1,2,4-Trimethylbenzene | ND | 0.5 |
| sec-Butylbenzene | ND | 0.5 |
| para-Isopropyl Toluene | ND | 0.5 |
| 1,3-Dichlorobenzene | ND | 0.5 |
| 1,4-Dichlorobenzene | ND | 0.5 |
| n-Butylbenzene | ND | 0.5 |
| 1,2-Dichlorobenzene | ND | 0.5 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 |
| 1,2,4-Trichlorobenzene | ND | 0.5 |
| Hexachlorobutadiene | ND | 2.0 |
| Naphthalene | ND | 2.0 |
| 1,2,3-Trichlorobenzene | ND | 0.5 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 94 | 80-125 |
| 1,2-Dichloroethane-d4 | 95 | 80-137 |
| Toluene-d8 | 99 | 80-120 |
| Bromofluorobenzene | 101 | 80-122 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

## Curtis & Tompkins Laboratories Analytical Report

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Matrix: | Water | Batch#: | 142824 |
| Units: | ug/L | Analyzed: | 09/23/08 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC461638

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| 1,1-Dichloroethene | 20.00 | 23.75 | 119 | 73-133 |
| Benzene | 20.00 | 22.88 | 114 | 80-120 |
| Trichloroethene | 20.00 | 21.84 | 109 | 80-120 |
| Toluene | 20.00 | 21.71 | 109 | 80-120 |
| Chlorobenzene | 20.00 | 20.42 | 102 | 80-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 97 | 80-125 |
| 1,2-Dichloroethane-d4 | 96 | 80-137 |
| Toluene-d8 | 100 | 80-120 |
| Bromofluorobenzene | 86 | 80-122 |

Type: BSD Lab ID: QC461639

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 20.00 | 22.67 | 113 | 73-133 | 5 | 20 |
| Benzene | 20.00 | 22.22 | 111 | 80-120 | 3 | 20 |
| Trichloroethene | 20.00 | 20.55 | 103 | 80-120 | 6 | 20 |
| Toluene | 20.00 | 20.58 | 103 | 80-120 | 5 | 20 |
| Chlorobenzene | 20.00 | 20.49 | 102 | 80-120 | 0 | 20 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 96 | 80-125 |
| 1,2-Dichloroethane-d4 | 93 | 80-137 |
| Toluene-d8 | 98 | 80-120 |
| Bromofluorobenzene | 83 | 80-122 |

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

## Curtis & Tompkins Laboratories Analytical Report

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Matrix: | Water | Batch#: | 142824 |
| Units: | ug/L | Analyzed: | 09/23/08 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC461640

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Gasoline C7-C12 | 900.0 | 869.3 | 97 | 70-130 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 95 | 80-125 |
| 1,2-Dichloroethane-d4 | 94 | 80-137 |
| Toluene-d8 | 98 | 80-120 |
| Bromofluorobenzene | 85 | 80-122 |

Type: BSD Lab ID: QC461641

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Gasoline C7-C12 | 900.0 | 845.4 | 94 | 70-130 | 3 | 20 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 92 | 80-125 |
| 1,2-Dichloroethane-d4 | 92 | 80-137 |
| Toluene-d8 | 98 | 80-120 |
| Bromofluorobenzene | 85 | 80-122 |

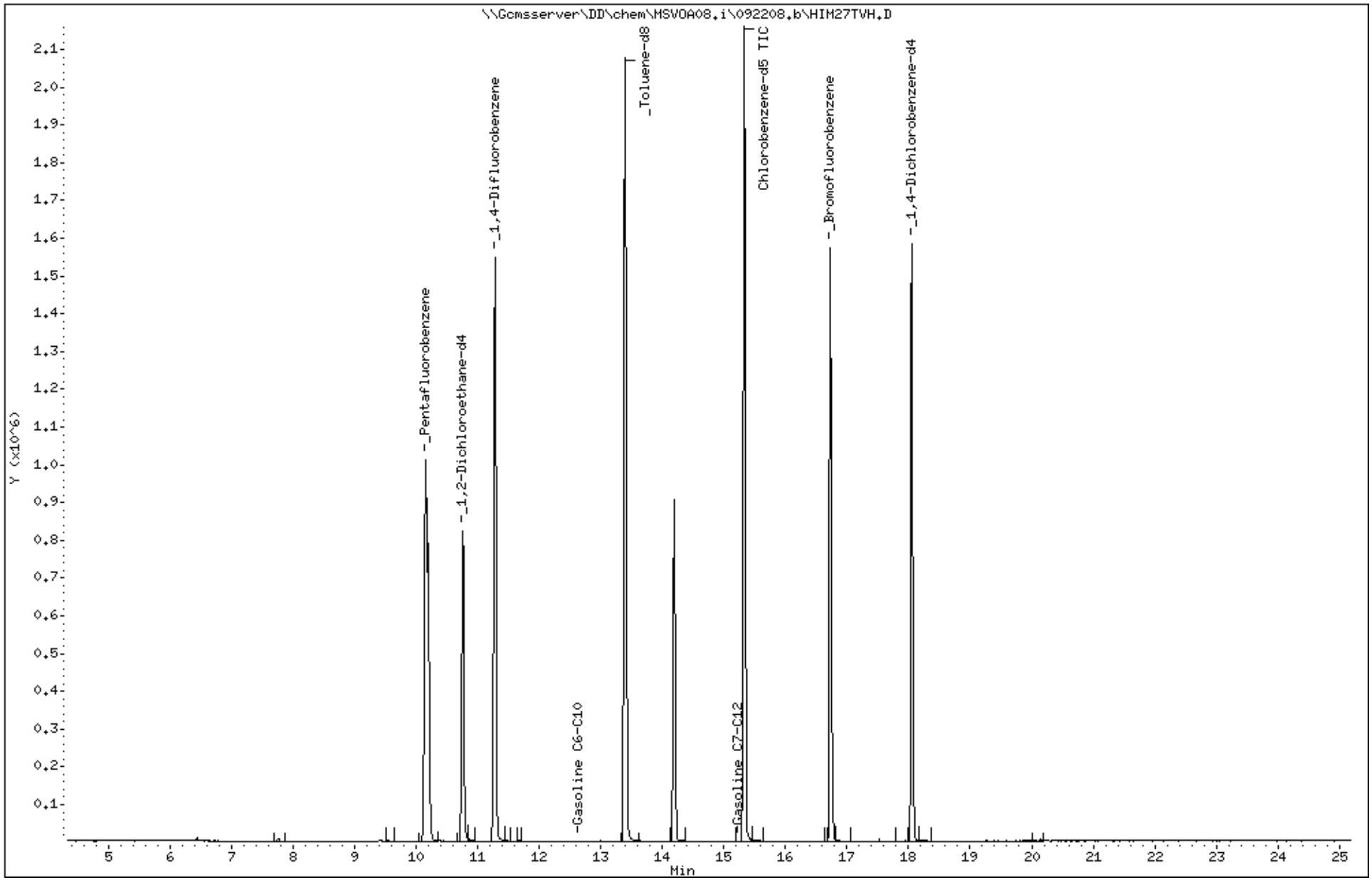
RPD= Relative Percent Difference

Data File: \\Gcmsserver\DD\chem\MSVOA08.i\092208.b\HIM27TVH.D
Date : 23-SEP-2008 02:18
Client ID: DYNA P&T
Sample Info: S,206164-004

Instrument: MSVOA08.i

Operator: voc
Column diameter: 2.00

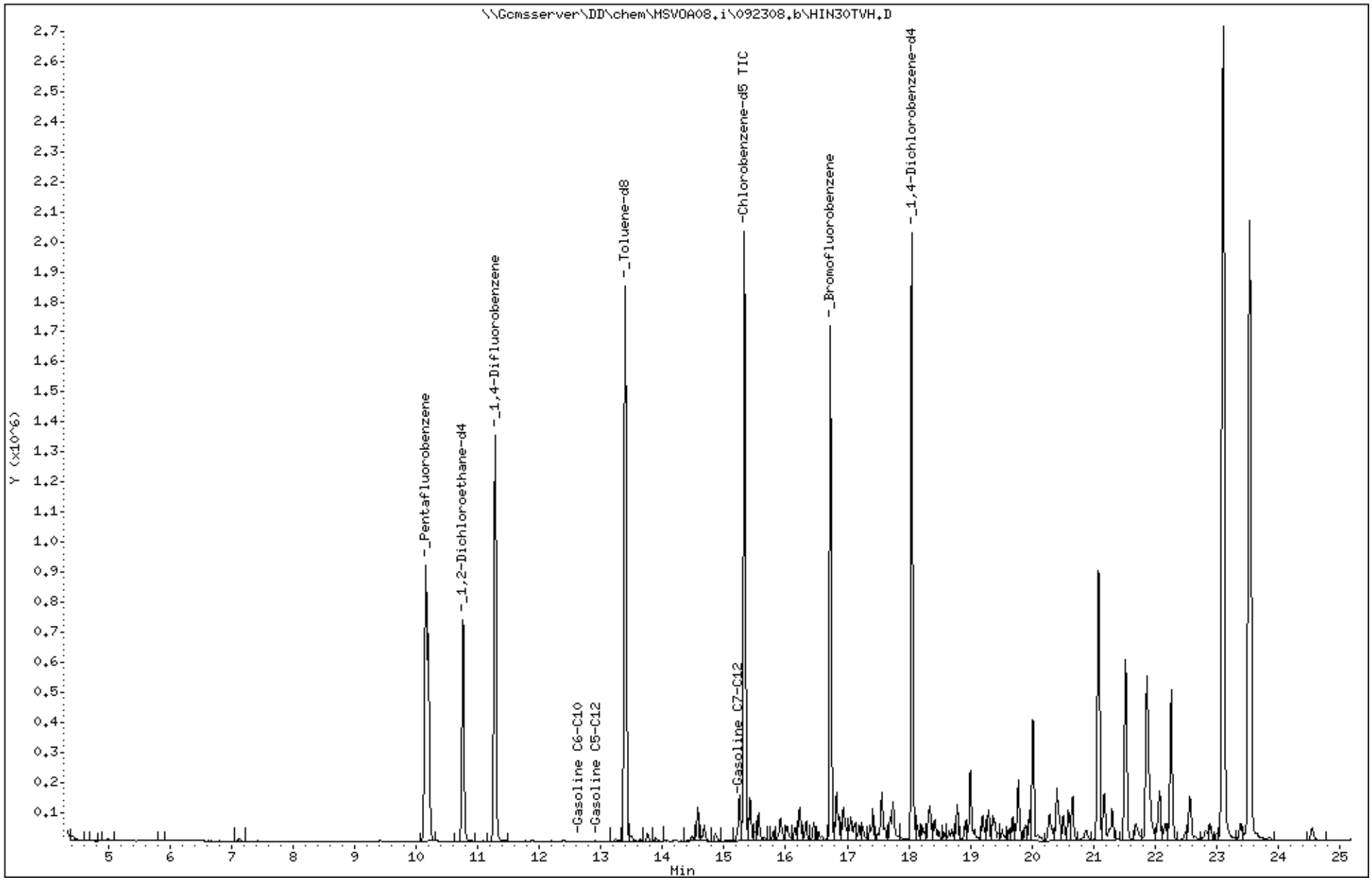
Column phase:



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\092308.b\HIN30TVH.D
Date : 24-SEP-2008 04:14
Client ID: DYNA P&T
Sample Info: S,206164-006

Instrument: MSVOA08.i
Operator: voc
Column diameter: 2.00

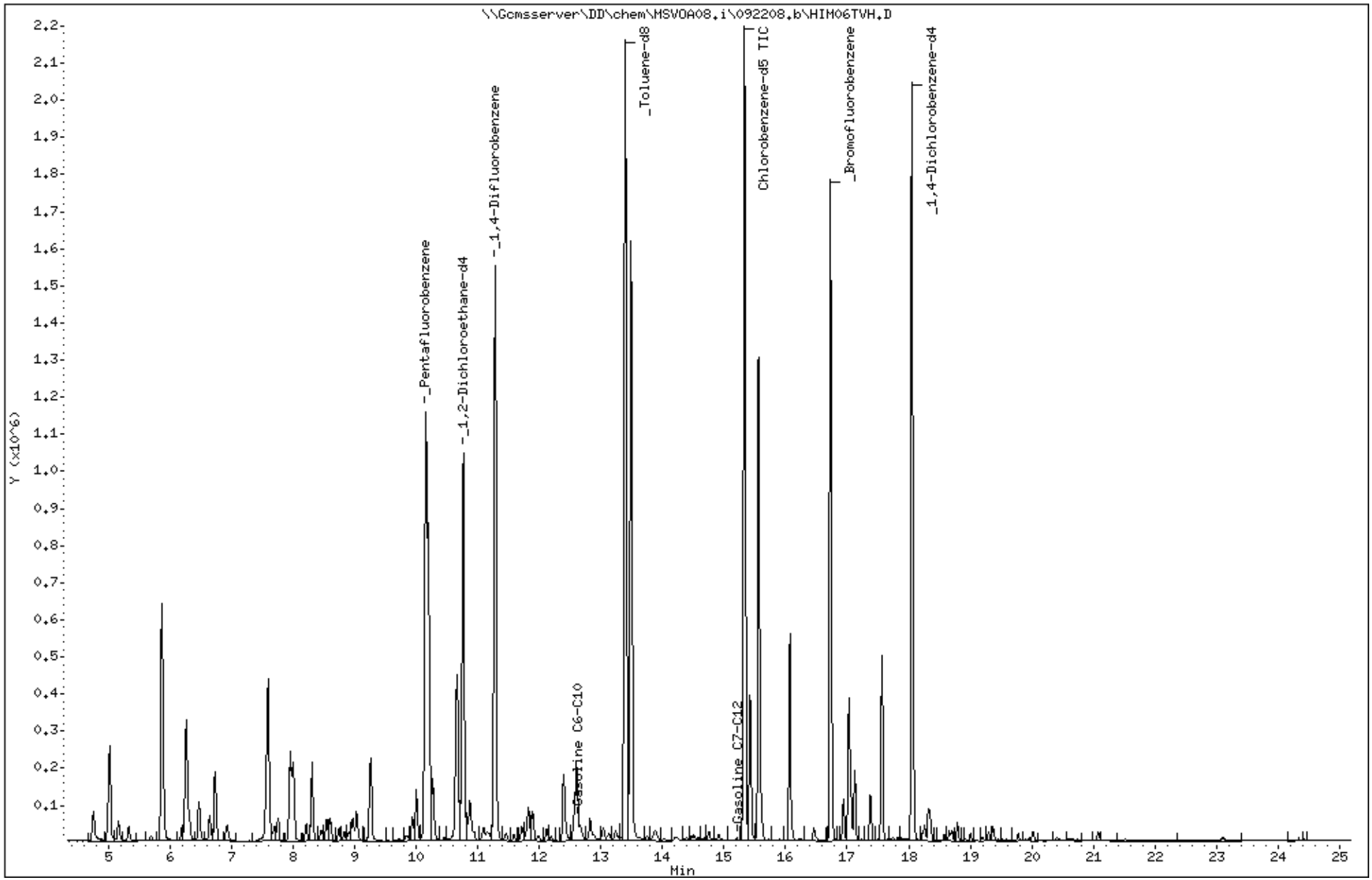
Column phase:



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\092208.b\HIM06TVH.D
Date : 22-SEP-2008 13:58
Client ID: DYNA P&T
Sample Info: CCV/BS,QC461337,142754,S10222,0.0075/100

Instrument: MSVOA08.i
Operator: voc
Column diameter: 2.00

Column phase:



Curtis & Tompkins, Ltd.

# Purgeable Halocarbons by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | EB1-4.0 | Diln Fac: | 0.9560 |
| Lab ID: | 206164-009 | Batch#: | 142762 |
| Matrix: | Soil | Sampled: | 09/18/08 |
| Units: | ug/Kg | Received: | 09/18/08 |
| Basis: | as received | Analyzed: | 09/22/08 |

| Analyte | Result | RL |
|---|---|---|
| Chloromethane | ND | 9.6 |
| Vinyl Chloride | ND | 9.6 |
| Bromomethane | ND | 9.6 |
| Chloroethane | ND | 9.6 |
| Trichlorofluoromethane | ND | 4.8 |
| Freon 113 | ND | 4.8 |
| 1,1-Dichloroethene | ND | 4.8 |
| Methylene Chloride | ND | 19 |
| trans-1,2-Dichloroethene | ND | 4.8 |
| 1,1-Dichloroethane | ND | 4.8 |
| cis-1,2-Dichloroethene | ND | 4.8 |
| Chloroform | ND | 4.8 |
| 1,1,1-Trichloroethane | ND | 4.8 |
| Carbon Tetrachloride | ND | 4.8 |
| 1,2-Dichloroethane | ND | 4.8 |
| Trichloroethene | ND | 4.8 |
| 1,2-Dichloropropane | ND | 4.8 |
| Bromodichloromethane | ND | 4.8 |
| cis-1,3-Dichloropropene | ND | 4.8 |
| trans-1,3-Dichloropropene | ND | 4.8 |
| 1,1,2-Trichloroethane | ND | 4.8 |
| Tetrachloroethene | ND | 4.8 |
| Dibromochloromethane | ND | 4.8 |
| Chlorobenzene | ND | 4.8 |
| Bromoform | ND | 9.6 |
| 1,1,2,2-Tetrachloroethane | ND | 4.8 |
| 1,3-Dichlorobenzene | ND | 4.8 |
| 1,4-Dichlorobenzene | ND | 4.8 |
| 1,2-Dichlorobenzene | ND | 4.8 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 114 | 74-133 |
| Toluene-d8 | 106 | 80-120 |
| Bromofluorobenzene | 97 | 79-127 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Purgeable Halocarbons by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | EB1-8.0 | Diln Fac: | 0.9921 |
| Lab ID: | 206164-010 | Batch#: | 142762 |
| Matrix: | Soil | Sampled: | 09/18/08 |
| Units: | ug/Kg | Received: | 09/18/08 |
| Basis: | as received | Analyzed: | 09/22/08 |

| Analyte | Result | RL |
|---|---|---|
| Chloromethane | ND | 9.9 |
| Vinyl Chloride | ND | 9.9 |
| Bromomethane | ND | 9.9 |
| Chloroethane | ND | 9.9 |
| Trichlorofluoromethane | ND | 5.0 |
| Freon 113 | ND | 5.0 |
| 1,1-Dichloroethene | ND | 5.0 |
| Methylene Chloride | ND | 20 |
| trans-1,2-Dichloroethene | ND | 5.0 |
| 1,1-Dichloroethane | ND | 5.0 |
| cis-1,2-Dichloroethene | ND | 5.0 |
| Chloroform | ND | 5.0 |
| 1,1,1-Trichloroethane | ND | 5.0 |
| Carbon Tetrachloride | ND | 5.0 |
| 1,2-Dichloroethane | ND | 5.0 |
| Trichloroethene | ND | 5.0 |
| 1,2-Dichloropropane | ND | 5.0 |
| Bromodichloromethane | ND | 5.0 |
| cis-1,3-Dichloropropene | ND | 5.0 |
| trans-1,3-Dichloropropene | ND | 5.0 |
| 1,1,2-Trichloroethane | ND | 5.0 |
| Tetrachloroethene | ND | 5.0 |
| Dibromochloromethane | ND | 5.0 |
| Chlorobenzene | ND | 5.0 |
| Bromoform | ND | 9.9 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 |
| 1,3-Dichlorobenzene | ND | 5.0 |
| 1,4-Dichlorobenzene | ND | 5.0 |
| 1,2-Dichlorobenzene | ND | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 112 | 74-133 |
| Toluene-d8 | 105 | 80-120 |
| Bromofluorobenzene | 97 | 79-127 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Purgeable Halocarbons by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | EB2-4.0 | Diln Fac: | 0.9804 |
| Lab ID: | 206164-012 | Batch#: | 142762 |
| Matrix: | Soil | Sampled: | 09/18/08 |
| Units: | ug/Kg | Received: | 09/18/08 |
| Basis: | as received | Analyzed: | 09/22/08 |

| Analyte | Result | RL |
|---|---|---|
| Chloromethane | ND | 9.8 |
| Vinyl Chloride | ND | 9.8 |
| Bromomethane | ND | 9.8 |
| Chloroethane | ND | 9.8 |
| Trichlorofluoromethane | ND | 4.9 |
| Freon 113 | ND | 4.9 |
| 1,1-Dichloroethene | ND | 4.9 |
| Methylene Chloride | ND | 20 |
| trans-1,2-Dichloroethene | ND | 4.9 |
| 1,1-Dichloroethane | ND | 4.9 |
| cis-1,2-Dichloroethene | ND | 4.9 |
| Chloroform | ND | 4.9 |
| 1,1,1-Trichloroethane | ND | 4.9 |
| Carbon Tetrachloride | ND | 4.9 |
| 1,2-Dichloroethane | ND | 4.9 |
| Trichloroethene | ND | 4.9 |
| 1,2-Dichloropropane | ND | 4.9 |
| Bromodichloromethane | ND | 4.9 |
| cis-1,3-Dichloropropene | ND | 4.9 |
| trans-1,3-Dichloropropene | ND | 4.9 |
| 1,1,2-Trichloroethane | ND | 4.9 |
| Tetrachloroethene | ND | 4.9 |
| Dibromochloromethane | ND | 4.9 |
| Chlorobenzene | ND | 4.9 |
| Bromoform | ND | 9.8 |
| 1,1,2,2-Tetrachloroethane | ND | 4.9 |
| 1,3-Dichlorobenzene | ND | 4.9 |
| 1,4-Dichlorobenzene | ND | 4.9 |
| 1,2-Dichlorobenzene | ND | 4.9 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 114 | 74-133 |
| Toluene-d8 | 107 | 80-120 |
| Bromofluorobenzene | 97 | 79-127 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Purgeable Halocarbons by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | EB2-8.0 | Diln Fac: | 0.9416 |
| Lab ID: | 206164-013 | Batch#: | 142806 |
| Matrix: | Soil | Sampled: | 09/18/08 |
| Units: | ug/Kg | Received: | 09/18/08 |
| Basis: | as received | Analyzed: | 09/23/08 |

| Analyte | Result | RL |
|---|---|---|
| Chloromethane | ND | 9.4 |
| Vinyl Chloride | ND | 9.4 |
| Bromomethane | ND | 9.4 |
| Chloroethane | ND | 9.4 |
| Trichlorofluoromethane | ND | 4.7 |
| Freon 113 | ND | 4.7 |
| 1,1-Dichloroethene | ND | 4.7 |
| Methylene Chloride | ND | 19 |
| trans-1,2-Dichloroethene | ND | 4.7 |
| 1,1-Dichloroethane | ND | 4.7 |
| cis-1,2-Dichloroethene | ND | 4.7 |
| Chloroform | ND | 4.7 |
| 1,1,1-Trichloroethane | ND | 4.7 |
| Carbon Tetrachloride | ND | 4.7 |
| 1,2-Dichloroethane | ND | 4.7 |
| Trichloroethene | ND | 4.7 |
| 1,2-Dichloropropane | ND | 4.7 |
| Bromodichloromethane | ND | 4.7 |
| cis-1,3-Dichloropropene | ND | 4.7 |
| trans-1,3-Dichloropropene | ND | 4.7 |
| 1,1,2-Trichloroethane | ND | 4.7 |
| Tetrachloroethene | ND | 4.7 |
| Dibromochloromethane | ND | 4.7 |
| Chlorobenzene | ND | 4.7 |
| Bromoform | ND | 9.4 |
| 1,1,2,2-Tetrachloroethane | ND | 4.7 |
| 1,3-Dichlorobenzene | ND | 4.7 |
| 1,4-Dichlorobenzene | ND | 4.7 |
| 1,2-Dichlorobenzene | ND | 4.7 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 112 | 74-133 |
| Toluene-d8 | 105 | 80-120 |
| Bromofluorobenzene | 98 | 79-127 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Purgeable Halocarbons by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | EB8-7.5 | Diln Fac: | 0.9579 |
| Lab ID: | 206164-015 | Batch#: | 142762 |
| Matrix: | Soil | Sampled: | 09/18/08 |
| Units: | ug/Kg | Received: | 09/18/08 |
| Basis: | as received | Analyzed: | 09/22/08 |

| Analyte | Result | RL |
|---|---|---|
| Chloromethane | ND | 9.6 |
| Vinyl Chloride | ND | 9.6 |
| Bromomethane | ND | 9.6 |
| Chloroethane | ND | 9.6 |
| Trichlorofluoromethane | ND | 4.8 |
| Freon 113 | ND | 4.8 |
| 1,1-Dichloroethene | ND | 4.8 |
| Methylene Chloride | ND | 19 |
| trans-1,2-Dichloroethene | ND | 4.8 |
| 1,1-Dichloroethane | ND | 4.8 |
| cis-1,2-Dichloroethene | ND | 4.8 |
| Chloroform | ND | 4.8 |
| 1,1,1-Trichloroethane | ND | 4.8 |
| Carbon Tetrachloride | ND | 4.8 |
| 1,2-Dichloroethane | ND | 4.8 |
| Trichloroethene | ND | 4.8 |
| 1,2-Dichloropropane | ND | 4.8 |
| Bromodichloromethane | ND | 4.8 |
| cis-1,3-Dichloropropene | ND | 4.8 |
| trans-1,3-Dichloropropene | ND | 4.8 |
| 1,1,2-Trichloroethane | ND | 4.8 |
| Tetrachloroethene | ND | 4.8 |
| Dibromochloromethane | ND | 4.8 |
| Chlorobenzene | ND | 4.8 |
| Bromoform | ND | 9.6 |
| 1,1,2,2-Tetrachloroethane | ND | 4.8 |
| 1,3-Dichlorobenzene | ND | 4.8 |
| 1,4-Dichlorobenzene | ND | 4.8 |
| 1,2-Dichlorobenzene | ND | 4.8 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 111 | 74-133 |
| Toluene-d8 | 105 | 80-120 |
| Bromofluorobenzene | 97 | 79-127 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Purgeable Halocarbons by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | EB7-7.5 | Diln Fac: | 0.9276 |
| Lab ID: | 206164-018 | Batch#: | 142762 |
| Matrix: | Soil | Sampled: | 09/18/08 |
| Units: | ug/Kg | Received: | 09/18/08 |
| Basis: | as received | Analyzed: | 09/22/08 |

| Analyte | Result | RL |
|---|---|---|
| Chloromethane | ND | 9.3 |
| Vinyl Chloride | ND | 9.3 |
| Bromomethane | ND | 9.3 |
| Chloroethane | ND | 9.3 |
| Trichlorofluoromethane | ND | 4.6 |
| Freon 113 | ND | 4.6 |
| 1,1-Dichloroethene | ND | 4.6 |
| Methylene Chloride | ND | 19 |
| trans-1,2-Dichloroethene | ND | 4.6 |
| 1,1-Dichloroethane | ND | 4.6 |
| cis-1,2-Dichloroethene | ND | 4.6 |
| Chloroform | ND | 4.6 |
| 1,1,1-Trichloroethane | ND | 4.6 |
| Carbon Tetrachloride | ND | 4.6 |
| 1,2-Dichloroethane | ND | 4.6 |
| Trichloroethene | ND | 4.6 |
| 1,2-Dichloropropane | ND | 4.6 |
| Bromodichloromethane | ND | 4.6 |
| cis-1,3-Dichloropropene | ND | 4.6 |
| trans-1,3-Dichloropropene | ND | 4.6 |
| 1,1,2-Trichloroethane | ND | 4.6 |
| Tetrachloroethene | ND | 4.6 |
| Dibromochloromethane | ND | 4.6 |
| Chlorobenzene | ND | 4.6 |
| Bromoform | ND | 9.3 |
| 1,1,2,2-Tetrachloroethane | ND | 4.6 |
| 1,3-Dichlorobenzene | ND | 4.6 |
| 1,4-Dichlorobenzene | ND | 4.6 |
| 1,2-Dichlorobenzene | ND | 4.6 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 114 | 74-133 |
| Toluene-d8 | 106 | 80-120 |
| Bromofluorobenzene | 98 | 79-127 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Purgeable Halocarbons by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | EB6-7.5 | Diln Fac: | 0.9141 |
| Lab ID: | 206164-022 | Batch#: | 142762 |
| Matrix: | Soil | Sampled: | 09/18/08 |
| Units: | ug/Kg | Received: | 09/18/08 |
| Basis: | as received | Analyzed: | 09/22/08 |

| Analyte | Result | RL |
|---|---|---|
| Chloromethane | ND | 9.1 |
| Vinyl Chloride | ND | 9.1 |
| Bromomethane | ND | 9.1 |
| Chloroethane | ND | 9.1 |
| Trichlorofluoromethane | ND | 4.6 |
| Freon 113 | ND | 4.6 |
| 1,1-Dichloroethene | ND | 4.6 |
| Methylene Chloride | ND | 18 |
| trans-1,2-Dichloroethene | ND | 4.6 |
| 1,1-Dichloroethane | ND | 4.6 |
| cis-1,2-Dichloroethene | ND | 4.6 |
| Chloroform | ND | 4.6 |
| 1,1,1-Trichloroethane | ND | 4.6 |
| Carbon Tetrachloride | ND | 4.6 |
| 1,2-Dichloroethane | ND | 4.6 |
| Trichloroethene | ND | 4.6 |
| 1,2-Dichloropropane | ND | 4.6 |
| Bromodichloromethane | ND | 4.6 |
| cis-1,3-Dichloropropene | ND | 4.6 |
| trans-1,3-Dichloropropene | ND | 4.6 |
| 1,1,2-Trichloroethane | ND | 4.6 |
| Tetrachloroethene | 48 | 4.6 |
| Dibromochloromethane | ND | 4.6 |
| Chlorobenzene | ND | 4.6 |
| Bromoform | ND | 9.1 |
| 1,1,2,2-Tetrachloroethane | ND | 4.6 |
| 1,3-Dichlorobenzene | ND | 4.6 |
| 1,4-Dichlorobenzene | ND | 4.6 |
| 1,2-Dichlorobenzene | ND | 4.6 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 112 | 74-133 |
| Toluene-d8 | 106 | 80-120 |
| Bromofluorobenzene | 98 | 79-127 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Purgeable Halocarbons by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | EB5-7.4 | Diln Fac: | 0.9785 |
| Lab ID: | 206164-026 | Batch#: | 142855 |
| Matrix: | Soil | Sampled: | 09/18/08 |
| Units: | ug/Kg | Received: | 09/18/08 |
| Basis: | as received | Analyzed: | 09/24/08 |

| Analyte | Result | RL |
|---|---|---|
| Chloromethane | ND | 9.8 |
| Vinyl Chloride | ND | 9.8 |
| Bromomethane | ND | 9.8 |
| Chloroethane | ND | 9.8 |
| Trichlorofluoromethane | ND | 4.9 |
| Freon 113 | ND | 4.9 |
| 1,1-Dichloroethene | ND | 4.9 |
| Methylene Chloride | ND | 20 |
| trans-1,2-Dichloroethene | ND | 4.9 |
| 1,1-Dichloroethane | ND | 4.9 |
| cis-1,2-Dichloroethene | ND | 4.9 |
| Chloroform | ND | 4.9 |
| 1,1,1-Trichloroethane | ND | 4.9 |
| Carbon Tetrachloride | ND | 4.9 |
| 1,2-Dichloroethane | ND | 4.9 |
| Trichloroethene | ND | 4.9 |
| 1,2-Dichloropropane | ND | 4.9 |
| Bromodichloromethane | ND | 4.9 |
| cis-1,3-Dichloropropene | ND | 4.9 |
| trans-1,3-Dichloropropene | ND | 4.9 |
| 1,1,2-Trichloroethane | ND | 4.9 |
| Tetrachloroethene | ND | 4.9 |
| Dibromochloromethane | ND | 4.9 |
| Chlorobenzene | ND | 4.9 |
| Bromoform | ND | 9.8 |
| 1,1,2,2-Tetrachloroethane | ND | 4.9 |
| 1,3-Dichlorobenzene | ND | 4.9 |
| 1,4-Dichlorobenzene | ND | 4.9 |
| 1,2-Dichlorobenzene | ND | 4.9 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 108 | 74-133 |
| Toluene-d8 | 104 | 80-120 |
| Bromofluorobenzene | 111 | 79-127 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Purgeable Halocarbons by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | EB9-7.4 | Diln Fac: | 0.9823 |
| Lab ID: | 206164-030 | Batch#: | 142806 |
| Matrix: | Soil | Sampled: | 09/18/08 |
| Units: | ug/Kg | Received: | 09/18/08 |
| Basis: | as received | Analyzed: | 09/23/08 |

| Analyte | Result | RL |
|---|---|---|
| Chloromethane | ND | 9.8 |
| Vinyl Chloride | ND | 9.8 |
| Bromomethane | ND | 9.8 |
| Chloroethane | ND | 9.8 |
| Trichlorofluoromethane | ND | 4.9 |
| Freon 113 | ND | 4.9 |
| 1,1-Dichloroethene | ND | 4.9 |
| Methylene Chloride | ND | 20 |
| trans-1,2-Dichloroethene | ND | 4.9 |
| 1,1-Dichloroethane | ND | 4.9 |
| cis-1,2-Dichloroethene | ND | 4.9 |
| Chloroform | ND | 4.9 |
| 1,1,1-Trichloroethane | ND | 4.9 |
| Carbon Tetrachloride | ND | 4.9 |
| 1,2-Dichloroethane | ND | 4.9 |
| Trichloroethene | ND | 4.9 |
| 1,2-Dichloropropane | ND | 4.9 |
| Bromodichloromethane | ND | 4.9 |
| cis-1,3-Dichloropropene | ND | 4.9 |
| trans-1,3-Dichloropropene | ND | 4.9 |
| 1,1,2-Trichloroethane | ND | 4.9 |
| Tetrachloroethene | ND | 4.9 |
| Dibromochloromethane | ND | 4.9 |
| Chlorobenzene | ND | 4.9 |
| Bromoform | ND | 9.8 |
| 1,1,2,2-Tetrachloroethane | ND | 4.9 |
| 1,3-Dichlorobenzene | ND | 4.9 |
| 1,4-Dichlorobenzene | ND | 4.9 |
| 1,2-Dichlorobenzene | ND | 4.9 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 118 | 74-133 |
| Toluene-d8 | 106 | 80-120 |
| Bromofluorobenzene | 99 | 79-127 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Purgeable Halocarbons by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | EB3-9.0 | Diln Fac: | 0.9804 |
| Lab ID: | 206164-033 | Batch#: | 142762 |
| Matrix: | Soil | Sampled: | 09/18/08 |
| Units: | ug/Kg | Received: | 09/18/08 |
| Basis: | as received | Analyzed: | 09/22/08 |

| Analyte | Result | RL |
|---|---|---|
| Chloromethane | ND | 9.8 |
| Vinyl Chloride | ND | 9.8 |
| Bromomethane | ND | 9.8 |
| Chloroethane | ND | 9.8 |
| Trichlorofluoromethane | ND | 4.9 |
| Freon 113 | ND | 4.9 |
| 1,1-Dichloroethene | ND | 4.9 |
| Methylene Chloride | ND | 20 |
| trans-1,2-Dichloroethene | ND | 4.9 |
| 1,1-Dichloroethane | ND | 4.9 |
| cis-1,2-Dichloroethene | ND | 4.9 |
| Chloroform | ND | 4.9 |
| 1,1,1-Trichloroethane | ND | 4.9 |
| Carbon Tetrachloride | ND | 4.9 |
| 1,2-Dichloroethane | ND | 4.9 |
| Trichloroethene | ND | 4.9 |
| 1,2-Dichloropropane | ND | 4.9 |
| Bromodichloromethane | ND | 4.9 |
| cis-1,3-Dichloropropene | ND | 4.9 |
| trans-1,3-Dichloropropene | ND | 4.9 |
| 1,1,2-Trichloroethane | ND | 4.9 |
| Tetrachloroethene | ND | 4.9 |
| Dibromochloromethane | ND | 4.9 |
| Chlorobenzene | ND | 4.9 |
| Bromoform | ND | 9.8 |
| 1,1,2,2-Tetrachloroethane | ND | 4.9 |
| 1,3-Dichlorobenzene | ND | 4.9 |
| 1,4-Dichlorobenzene | ND | 4.9 |
| 1,2-Dichlorobenzene | ND | 4.9 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 115 | 74-133 |
| Toluene-d8 | 106 | 80-120 |
| Bromofluorobenzene | 97 | 79-127 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# Purgeable Halocarbons by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | EB4-9.0 | Diln Fac: | 0.9901 |
| Lab ID: | 206164-036 | Batch#: | 142806 |
| Matrix: | Soil | Sampled: | 09/18/08 |
| Units: | ug/Kg | Received: | 09/18/08 |
| Basis: | as received | Analyzed: | 09/23/08 |

| Analyte | Result | RL |
|---|---|---|
| Chloromethane | ND | 9.9 |
| Vinyl Chloride | ND | 9.9 |
| Bromomethane | ND | 9.9 |
| Chloroethane | ND | 9.9 |
| Trichlorofluoromethane | ND | 5.0 |
| Freon 113 | ND | 5.0 |
| 1,1-Dichloroethene | ND | 5.0 |
| Methylene Chloride | ND | 20 |
| trans-1,2-Dichloroethene | ND | 5.0 |
| 1,1-Dichloroethane | ND | 5.0 |
| cis-1,2-Dichloroethene | ND | 5.0 |
| Chloroform | ND | 5.0 |
| 1,1,1-Trichloroethane | ND | 5.0 |
| Carbon Tetrachloride | ND | 5.0 |
| 1,2-Dichloroethane | ND | 5.0 |
| Trichloroethene | ND | 5.0 |
| 1,2-Dichloropropane | ND | 5.0 |
| Bromodichloromethane | ND | 5.0 |
| cis-1,3-Dichloropropene | ND | 5.0 |
| trans-1,3-Dichloropropene | ND | 5.0 |
| 1,1,2-Trichloroethane | ND | 5.0 |
| Tetrachloroethene | ND | 5.0 |
| Dibromochloromethane | ND | 5.0 |
| Chlorobenzene | ND | 5.0 |
| Bromoform | ND | 9.9 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 |
| 1,3-Dichlorobenzene | ND | 5.0 |
| 1,4-Dichlorobenzene | ND | 5.0 |
| 1,2-Dichlorobenzene | ND | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 114 | 74-133 |
| Toluene-d8 | 107 | 80-120 |
| Bromofluorobenzene | 98 | 79-127 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

## Purgeable Halocarbons by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Type: | BLANK | Basis: | as received |
| Lab ID: | QC461374 | Diln Fac: | 1.000 |
| Matrix: | Soil | Batch#: | 142762 |
| Units: | ug/Kg | Analyzed: | 09/22/08 |

| Analyte | Result | RL |
|---|---|---|
| Chloromethane | ND | 10 |
| Vinyl Chloride | ND | 10 |
| Bromomethane | ND | 10 |
| Chloroethane | ND | 10 |
| Trichlorofluoromethane | ND | 5.0 |
| Freon 113 | ND | 5.0 |
| 1,1-Dichloroethene | ND | 5.0 |
| Methylene Chloride | ND | 20 |
| trans-1,2-Dichloroethene | ND | 5.0 |
| 1,1-Dichloroethane | ND | 5.0 |
| cis-1,2-Dichloroethene | ND | 5.0 |
| Chloroform | ND | 5.0 |
| 1,1,1-Trichloroethane | ND | 5.0 |
| Carbon Tetrachloride | ND | 5.0 |
| 1,2-Dichloroethane | ND | 5.0 |
| Trichloroethene | ND | 5.0 |
| 1,2-Dichloropropane | ND | 5.0 |
| Bromodichloromethane | ND | 5.0 |
| cis-1,3-Dichloropropene | ND | 5.0 |
| trans-1,3-Dichloropropene | ND | 5.0 |
| 1,1,2-Trichloroethane | ND | 5.0 |
| Tetrachloroethene | ND | 5.0 |
| Dibromochloromethane | ND | 5.0 |
| Chlorobenzene | ND | 5.0 |
| Bromoform | ND | 10 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 |
| 1,3-Dichlorobenzene | ND | 5.0 |
| 1,4-Dichlorobenzene | ND | 5.0 |
| 1,2-Dichlorobenzene | ND | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 110 | 74-133 |
| Toluene-d8 | 106 | 80-120 |
| Bromofluorobenzene | 102 | 79-127 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

## Purgeable Halocarbons by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Type: | LCS | Basis: | as received |
| Lab ID: | QC461375 | Diln Fac: | 1.000 |
| Matrix: | Soil | Batch#: | 142762 |
| Units: | ug/Kg | Analyzed: | 09/22/08 |

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| 1,1-Dichloroethene | 25.00 | 30.97 | 124 | 72-132 |
| Trichloroethene | 25.00 | 29.65 | 119 | 80-125 |
| Chlorobenzene | 25.00 | 27.32 | 109 | 80-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 100 | 74-133 |
| Toluene-d8 | 103 | 80-120 |
| Bromofluorobenzene | 97 | 79-127 |

Curtis & Tompkins, Ltd.

Batch QC Report

## Purgeable Halocarbons by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | EB2-4.0 | Diln Fac: | 0.9804 |
| MSS Lab ID: | 206164-012 | Batch#: | 142762 |
| Matrix: | Soil | Sampled: | 09/18/08 |
| Units: | ug/Kg | Received: | 09/18/08 |
| Basis: | as received | | |

Type: MS Analyzed: 09/22/08
Lab ID: QC461455

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| 1,1-Dichloroethene | <0.9804 | 49.02 | 49.73 | 101 | 54-132 |
| Trichloroethene | <0.9804 | 49.02 | 48.94 | 100 | 47-138 |
| Chlorobenzene | <0.9804 | 49.02 | 39.50 | 81 | 44-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 98 | 74-133 |
| Toluene-d8 | 104 | 80-120 |
| Bromofluorobenzene | 96 | 79-127 |

Type: MSD Analyzed: 09/23/08
Lab ID: QC461456

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 49.02 | 57.05 | 116 | 54-132 | 14 | 29 |
| Trichloroethene | 49.02 | 55.17 | 113 | 47-138 | 12 | 28 |
| Chlorobenzene | 49.02 | 45.29 | 92 | 44-120 | 14 | 29 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 95 | 74-133 |
| Toluene-d8 | 101 | 80-120 |
| Bromofluorobenzene | 98 | 79-127 |

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

## Purgeable Halocarbons by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Type: | BLANK | Basis: | as received |
| Lab ID: | QC461568 | Diln Fac: | 1.000 |
| Matrix: | Soil | Batch#: | 142806 |
| Units: | ug/Kg | Analyzed: | 09/23/08 |

| Analyte | Result | RL |
|---|---|---|
| Chloromethane | ND | 10 |
| Vinyl Chloride | ND | 10 |
| Bromomethane | ND | 10 |
| Chloroethane | ND | 10 |
| Trichlorofluoromethane | ND | 5.0 |
| Freon 113 | ND | 5.0 |
| 1,1-Dichloroethene | ND | 5.0 |
| Methylene Chloride | ND | 20 |
| trans-1,2-Dichloroethene | ND | 5.0 |
| 1,1-Dichloroethane | ND | 5.0 |
| cis-1,2-Dichloroethene | ND | 5.0 |
| Chloroform | ND | 5.0 |
| 1,1,1-Trichloroethane | ND | 5.0 |
| Carbon Tetrachloride | ND | 5.0 |
| 1,2-Dichloroethane | ND | 5.0 |
| Trichloroethene | ND | 5.0 |
| 1,2-Dichloropropane | ND | 5.0 |
| Bromodichloromethane | ND | 5.0 |
| cis-1,3-Dichloropropene | ND | 5.0 |
| trans-1,3-Dichloropropene | ND | 5.0 |
| 1,1,2-Trichloroethane | ND | 5.0 |
| Tetrachloroethene | ND | 5.0 |
| Dibromochloromethane | ND | 5.0 |
| Chlorobenzene | ND | 5.0 |
| Bromoform | ND | 10 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 |
| 1,3-Dichlorobenzene | ND | 5.0 |
| 1,4-Dichlorobenzene | ND | 5.0 |
| 1,2-Dichlorobenzene | ND | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 108 | 74-133 |
| Toluene-d8 | 107 | 80-120 |
| Bromofluorobenzene | 99 | 79-127 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

## Purgeable Halocarbons by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Type: | LCS | Basis: | as received |
| Lab ID: | QC461569 | Diln Fac: | 1.000 |
| Matrix: | Soil | Batch#: | 142806 |
| Units: | ug/Kg | Analyzed: | 09/23/08 |

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| 1,1-Dichloroethene | 25.00 | 30.91 | 124 | 72-132 |
| Trichloroethene | 25.00 | 31.17 | 125 | 80-125 |
| Chlorobenzene | 25.00 | 28.11 | 112 | 80-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 100 | 74-133 |
| Toluene-d8 | 104 | 80-120 |
| Bromofluorobenzene | 96 | 79-127 |

Curtis & Tompkins, Ltd.

Batch QC Report

## Purgeable Halocarbons by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | ZZZZZZZZZZ | Diln Fac: | 0.9524 |
| MSS Lab ID: | 206207-003 | Batch#: | 142806 |
| Matrix: | Soil | Sampled: | 09/11/08 |
| Units: | ug/Kg | Received: | 09/12/08 |
| Basis: | as received | Analyzed: | 09/23/08 |

Type: MS Lab ID: QC461615

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| 1,1-Dichloroethene | <0.9524 | 47.62 | 54.33 | 114 | 54-132 |
| Trichloroethene | <0.9524 | 47.62 | 51.69 | 109 | 47-138 |
| Chlorobenzene | <0.9524 | 47.62 | 42.71 | 90 | 44-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 99 | 74-133 |
| Toluene-d8 | 101 | 80-120 |
| Bromofluorobenzene | 95 | 79-127 |

Type: MSD Lab ID: QC461616

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 47.62 | 51.98 | 109 | 54-132 | 4 | 29 |
| Trichloroethene | 47.62 | 51.32 | 108 | 47-138 | 1 | 28 |
| Chlorobenzene | 47.62 | 42.40 | 89 | 44-120 | 1 | 29 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 98 | 74-133 |
| Toluene-d8 | 101 | 80-120 |
| Bromofluorobenzene | 95 | 79-127 |

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

## Purgeable Halocarbons by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Type: | BLANK | Basis: | as received |
| Lab ID: | QC461756 | Diln Fac: | 1.000 |
| Matrix: | Soil | Batch#: | 142855 |
| Units: | ug/Kg | Analyzed: | 09/24/08 |

| Analyte | Result | RL |
|---|---|---|
| Chloromethane | ND | 10 |
| Vinyl Chloride | ND | 10 |
| Bromomethane | ND | 10 |
| Chloroethane | ND | 10 |
| Trichlorofluoromethane | ND | 5.0 |
| Freon 113 | ND | 5.0 |
| 1,1-Dichloroethene | ND | 5.0 |
| Methylene Chloride | ND | 20 |
| trans-1,2-Dichloroethene | ND | 5.0 |
| 1,1-Dichloroethane | ND | 5.0 |
| cis-1,2-Dichloroethene | ND | 5.0 |
| Chloroform | ND | 5.0 |
| 1,1,1-Trichloroethane | ND | 5.0 |
| Carbon Tetrachloride | ND | 5.0 |
| 1,2-Dichloroethane | ND | 5.0 |
| Trichloroethene | ND | 5.0 |
| 1,2-Dichloropropane | ND | 5.0 |
| Bromodichloromethane | ND | 5.0 |
| cis-1,3-Dichloropropene | ND | 5.0 |
| trans-1,3-Dichloropropene | ND | 5.0 |
| 1,1,2-Trichloroethane | ND | 5.0 |
| Tetrachloroethene | ND | 5.0 |
| Dibromochloromethane | ND | 5.0 |
| Chlorobenzene | ND | 5.0 |
| Bromoform | ND | 10 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 |
| 1,3-Dichlorobenzene | ND | 5.0 |
| 1,4-Dichlorobenzene | ND | 5.0 |
| 1,2-Dichlorobenzene | ND | 5.0 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 107 | 74-133 |
| Toluene-d8 | 108 | 80-120 |
| Bromofluorobenzene | 97 | 79-127 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

## Purgeable Halocarbons by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Type: | LCS | Basis: | as received |
| Lab ID: | QC461757 | Diln Fac: | 1.000 |
| Matrix: | Soil | Batch#: | 142855 |
| Units: | ug/Kg | Analyzed: | 09/24/08 |

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| 1,1-Dichloroethene | 25.00 | 28.01 | 112 | 72-132 |
| Trichloroethene | 25.00 | 30.03 | 120 | 80-125 |
| Chlorobenzene | 25.00 | 26.87 | 107 | 80-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 96 | 74-133 |
| Toluene-d8 | 102 | 80-120 |
| Bromofluorobenzene | 95 | 79-127 |

Curtis & Tompkins, Ltd.

Batch QC Report

## Purgeable Halocarbons by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 5030B |
| Project#: | STANDARD | Analysis: | EPA 8260B |
| Field ID: | ZZZZZZZZZZ | Diln Fac: | 0.9671 |
| MSS Lab ID: | 206241-001 | Batch#: | 142855 |
| Matrix: | Soil | Sampled: | 09/22/08 |
| Units: | ug/Kg | Received: | 09/23/08 |
| Basis: | as received | Analyzed: | 09/24/08 |

Type: MS Lab ID: QC461833

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| 1,1-Dichloroethene | <0.9671 | 48.36 | 49.24 | 102 | 54-132 |
| Trichloroethene | <0.9671 | 48.36 | 40.87 | 85 | 47-138 |
| Chlorobenzene | <0.9671 | 48.36 | 28.86 | 60 | 44-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 99 | 74-133 |
| Toluene-d8 | 102 | 80-120 |
| Bromofluorobenzene | 98 | 79-127 |

Type: MSD Lab ID: QC461834

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 48.36 | 51.00 | 105 | 54-132 | 4 | 29 |
| Trichloroethene | 48.36 | 43.67 | 90 | 47-138 | 7 | 28 |
| Chlorobenzene | 48.36 | 31.02 | 64 | 44-120 | 7 | 29 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 100 | 74-133 |
| Toluene-d8 | 101 | 80-120 |
| Bromofluorobenzene | 97 | 79-127 |

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

# California LUFT Metals

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 3050B |
| Project#: | STANDARD | Analysis: | EPA 6010B |
| Matrix: | Soil | Sampled: | 09/18/08 |
| Units: | mg/Kg | Received: | 09/18/08 |
| Basis: | as received | Prepared: | 09/19/08 |
| Diln Fac: | 1.000 | Analyzed: | 09/22/08 |
| Batch#: | 142720 | | |

Field ID: EB1-4.0 Lab ID: 206164-009
Type: SAMPLE

| Analyte | Result | RL |
|---|---|---|
| Cadmium | 2.0 | 0.25 |
| Chromium | 37 | 0.25 |
| Lead | 38 | 0.25 |
| Nickel | 20 | 0.25 |
| Zinc | 34 | 1.0 |

Field ID: EB1-8.0 Lab ID: 206164-010
Type: SAMPLE

| Analyte | Result | RL |
|---|---|---|
| Cadmium | 1.8 | 0.25 |
| Chromium | 28 | 0.25 |
| Lead | 34 | 0.25 |
| Nickel | 20 | 0.25 |
| Zinc | 36 | 1.0 |

Field ID: EB2-4.0 Lab ID: 206164-012
Type: SAMPLE

| Analyte | Result | RL |
|---|---|---|
| Cadmium | 0.76 | 0.25 |
| Chromium | 42 | 0.25 |
| Lead | 20 | 0.25 |
| Nickel | 33 | 0.25 |
| Zinc | 43 | 1.0 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

# California LUFT Metals

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 3050B |
| Project#: | STANDARD | Analysis: | EPA 6010B |
| Matrix: | Soil | Sampled: | 09/18/08 |
| Units: | mg/Kg | Received: | 09/18/08 |
| Basis: | as received | Prepared: | 09/19/08 |
| Diln Fac: | 1.000 | Analyzed: | 09/22/08 |
| Batch#: | 142720 | | |

Field ID: EB2-8.0 Lab ID: 206164-013
Type: SAMPLE

| Analyte | Result | RL |
|---|---|---|
| Cadmium | 0.72 | 0.25 |
| Chromium | 29 | 0.25 |
| Lead | 13 | 0.25 |
| Nickel | 39 | 0.25 |
| Zinc | 43 | 1.0 |

Type: BLANK Lab ID: QC461205

| Analyte | Result | RL |
|---|---|---|
| Cadmium | ND | 0.25 |
| Chromium | ND | 0.25 |
| Lead | ND | 0.25 |
| Nickel | ND | 0.25 |
| Zinc | ND | 1.0 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

## California LUFT Metals

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 3050B |
| Project#: | STANDARD | Analysis: | EPA 6010B |
| Matrix: | Soil | Batch#: | 142720 |
| Units: | mg/Kg | Prepared: | 09/19/08 |
| Basis: | as received | Analyzed: | 09/22/08 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC461206

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Cadmium | 10.00 | 9.423 | 94 | 80-120 |
| Chromium | 100.0 | 94.81 | 95 | 80-120 |
| Lead | 100.0 | 91.44 | 91 | 80-120 |
| Nickel | 25.00 | 22.56 | 90 | 80-120 |
| Zinc | 25.00 | 23.42 | 94 | 80-120 |

Type: BSD Lab ID: QC461207

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Cadmium | 10.00 | 9.543 | 95 | 80-120 | 1 | 20 |
| Chromium | 100.0 | 96.07 | 96 | 80-120 | 1 | 20 |
| Lead | 100.0 | 92.25 | 92 | 80-120 | 1 | 20 |
| Nickel | 25.00 | 22.78 | 91 | 80-120 | 1 | 20 |
| Zinc | 25.00 | 23.81 | 95 | 80-120 | 2 | 20 |

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

## California LUFT Metals

| | | | |
|---|---|---|---|
| Lab #: | 206164 | Location: | 1549 32nd St |
| Client: | ERS Corp. | Prep: | EPA 3050B |
| Project#: | STANDARD | Analysis: | EPA 6010B |
| Field ID: | ZZZZZZZZZZ | Batch#: | 142720 |
| MSS Lab ID: | 206136-002 | Sampled: | 09/18/08 |
| Matrix: | Soil | Received: | 09/18/08 |
| Units: | mg/Kg | Prepared: | 09/19/08 |
| Basis: | as received | Analyzed: | 09/22/08 |
| Diln Fac: | 1.000 | | |

Type: MS Lab ID: QC461208

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| Cadmium | 1.203 | 9.709 | 9.386 | 84 | 65-120 |
| Chromium | 51.52 | 97.09 | 131.2 | 82 | 59-120 |
| Lead | 43.17 | 97.09 | 118.1 | 77 | 50-123 |
| Nickel | 52.43 | 24.27 | 70.78 | 76 | 42-139 |
| Zinc | 119.6 | 24.27 | 136.8 | 71 NM | 30-152 |

Type: MSD Lab ID: QC461209

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Cadmium | 9.804 | 9.993 | 90 | 65-120 | 5 | 20 |
| Chromium | 98.04 | 141.3 | 92 | 59-120 | 7 | 23 |
| Lead | 98.04 | 123.7 | 82 | 50-123 | 4 | 30 |
| Nickel | 24.51 | 75.34 | 93 | 42-139 | 6 | 29 |
| Zinc | 24.51 | 145.5 | 106 NM | 30-152 | 6 | 33 |

NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

**Curtis & Tompkins, Ltd.**
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900 Phone
(510) 486-0532 Fax

# CHAIN OF CUSTODY



**C & T LOGIN #:** 206164

**Project No.:**

**Project Name:** 1549 32nd St

**Project P.O.:**

**Turnaround Time:** 5-day TAT

**Sampler:** Ken Blume
**Report To:** kblume@erscorp.us ddemcrit@erscorp.us
**Company:** ERS Corp
**Telephone:** (925) 938-1600 x103
**Fax:** (925) 938-1610

| Lab No. | Sample ID. | Sampling Date Time | Matrix: Soil | Water | Waste | # of Containers | Preservative: HCL | $H_2SO_4$ | $HNO_3$ | ICE | Analysis: LUFT 5 Metals | VOCs (8010 List) | TEPH | TPHg/BTEX | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | EB3-W-18.5 | 9/18/08 15:55 | | X | | 4 | X | | | X | | X | X | | |
| 2 | EB4-W-21.0 | 16:40 | | X | | 4 | X | | | X | | X | X | | |
| 3 | EB5-W-21.0 | 15:15 | | X | | 4 | X | | | X | | X | X | | |
| 4 | EB6-W-~~15.5~~ 21.0 | 12:40 ~~5:00~~ | | X | | 4 | X | | | X | | X | X | | |
| 5 | ~~EB6~~ EB7-W-15.5 | 9:15 | | X | | 4 | X | | | X | | X | X | | |
| 6 | EB8-W-8.5 | 8:20 | | X | | 4 | X | | | X | | X | X | | |
| 7 | EB9-W-15.5 | 15:00 | | X | | 4 | X | | | X | | X | X | | |
| 8 | Trip Blank | | | X | | 3 | X | | | X | | | | | |
| 9 | EB1-4.0 | 10:50 | X | | | 1 | | | | X | X | X | X | | |
| 10 | EB1-8.0 | 10:55 | X | | | 1 | | | | X | X | X | X | | |
| 11 | EB1-12.0 | 11:05 | X | | | 1 | | | | X | X | X | X | | |
| 12 | EB2-4.0 | 11:15 | X | | | 1 | | | | X | X | X | X | | |
| 13 | EB2-8.0 | 11:25 | X | | | 1 | | | | X | X | X | X | | |

**Notes:**

SAMPLE RECEIPT
~~X~~ Intact X Cold
~~X~~ On Ice ☐ Ambient

Preservative Correct?
☐ Yes ☐ No ☐ N/A

| RELINQUISHED BY: | RECEIVED BY: |
|---|---|
| Ken Blume 9/18/08 17:30 DATE / TIME | 9-18-8 1730 DATE / TIME |
| DATE / TIME | DATE / TIME |
| DATE / TIME | DATE / TIME |

SIGNATURE

**Curtis & Tompkins, Ltd.**
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900 Phone
(510) 486-0532 Fax

# CHAIN OF CUSTODY



**C & T LOGIN #:** 206164

**Project No.:**

**Project Name:** 1549 32nd St

**Project P.O.:**

**Turnaround Time:** 5-day TAT

**Sampler:** Ken Blume
**Report To:** kblume@ersccorp.us ddement@ersccorp.us
**Company:** ERS Corp
**Telephone:** (925) 938-1600 x103
**Fax:** (925) 938-1610

| Lab No. | Sample ID. | Sampling Date Time | Matrix: Soil | Water | Waste | # of Containers | Preservative: HCL | $H_2SO_4$ | $HNO_3$ | ICE | Analysis: LUFT 5 Metals | VOCs (8010 List) | TEPH | TPHg/BTEX | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | EB2-12.0 | 9/18/08 11:30 | X | | | 1 | | | | X | | | X | | |
| 15 | EB8-7.5 | 8:05 | X | | | | | | | X | | X | X | | |
| 16 | EB8-8.5 | 8:15 | X | | | | | | | X | | | | | X |
| 17 | EB8-16.0 | 8:20 | X | | | | | | | X | | | X | | |
| 18 | EB7-7.5 | 8:50 | X | | | | | | | X | | X | X | | |
| 19 | EB7-12.0 | 8:55 | X | | | | | | | X | | | | | X |
| 20 | EB7-15.0 | 9:00 | X | | | | | | | X | | | X | | |
| 21 | EB7-20.0 | 9:10 | X | | | | | | | X | | | | | X |
| 22 | EB6-7.5 | 9:55 | X | | | | | | | X | | X | X | | |
| 23 | EB6-12.0 | 10:00 | X | | | | | | | X | | | | | X |
| 24 | EB6-16.0 | 10:15 | X | | | | | | | X | | | X | | |
| 25 | EB6-20.0 | 10:20 | X | | | | | | | X | | | | | X |
| 26 | EB5-7.4 | 11:55 | X | | | | | | | X | | X | X | | |

**Notes:**

SAMPLE RECEIPT
☒ Intact ☒ Cold
☒ On Ice ☐ Ambient
Preservative Correct?
☐ Yes ☐ No ☐ N/A

**RELINQUISHED BY:**

Ken Blume 9/18/08 17:30 DATE / TIME

DATE / TIME

DATE / TIME

**RECEIVED BY:**

9-18-8 1730 DATE / TIME

DATE / TIME

DATE / TIME

SIGNATURE

**Curtis & Tompkins, Ltd.**
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900 Phone
(510) 486-0532 Fax

# CHAIN OF CUSTODY



C & T LOGIN #: 206164

Project No.:

Project Name: 1549 32nd St

Project P.O.:

Turnaround Time: 5-day TAT

Sampler: Ken Blume
Report To: kblume@erscorp.ns
Company: ERS Corp
Telephone: (925) 938-1600 x103
Fax: (925) 938-1610

| Lab No. | Sample ID. | Sampling Date Time | Matrix: Soil | Matrix: Water | Matrix: Waste | # of Containers | Preservative: HCL | Preservative: $H_2SO_4$ | Preservative: $HNO_3$ | Preservative: ICE | Analysis: VOCs (8010 List) | Analysis: TEPH | Analysis: TPHg/BTEX | Analysis: Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 27 | EB5-11.1 | 9/18/08 12:00 | X | | | 1 | | | | X | | | | X |
| 28 | EB5-16.0 | 12:10 | X | | | | | | | X | | X | | |
| 29 | EB5-20.0 | 12:20 | X | | | | | | | X | | | | X |
| 30 | EB9-7.4 | 14:15 | X | | | | | | | X | X | X | | |
| 31 | EB9-12.0 | 14:20 | X | | | | | | | X | | | | X |
| 32 | EB9-15.5 | 14:45 | X | | | | | | | X | | X | | |
| 33 | EB3-9.0 | 14:50 | X | | | | | | | X | X | X | | |
| 34 | EB3-15.5 | 15:10 | X | | | | | | | X | | X | | |
| 35 | EB3-20.0 | 15:45 | X | | | | | | | X | | | | X |
| 36 | EB4-9.0 | 16:25 | X | | | | | | | | X | X | | |
| 37 | EB4-16.5 | 16:30 | X | | | | | | | | | X | | |
| 38 | EB4-19.0 | 16:35 | X | | | | | | | | | | | X |

**Notes:**

SAMPLE RECEIPT
☒ Intact ☒ Cold
☒ On Ice ☐ Ambient
Preservative Correct?
☐ Yes ☐ No ☐ N/A

**RELINQUISHED BY:**

Ken Blume 9/18/08 17:30 DATE / TIME

DATE / TIME

DATE / TIME

SIGNATURE

**RECEIVED BY:**

9-18-8 1720 DATE / TIME

DATE / TIME

DATE / TIME

**Tracy Babjar** 206164

**From:** "Ken Blume" <kblume@erscorp.us>
**To:** "Tracy Babjar" <tracy.babjar@ctberk.com>
**Sent:** Friday, September 19, 2008 9:34 AM
**Subject:** 1549 32nd Street - Analytical

Hi Tracy,

I dropped off some samples yesterday afternoon for 1549 32nd Street. I would also like to have the following three water samples analyzed for TPHg: EB6-W-21.0, EB7-W-15.5, and EB8-W-8.5.

Thanks, #4 #5 #6

Kenneth Blume
Project Coordinator/Environmental Assessor
ERS Corp
1600 Riviera Avenue, Suite 310
Walnut Creek, CA 94596
Tel: (925) 938-1600 x103
Fax: (925) 938-1610
kblume@erscorp.us

**COOLER RECEIPT CHECKLIST**

Curtis & Tompkins, Ltd.

Login # 206164 Date Received 9-18-8 Number of coolers 1
Client ERS CORP Project 1549 32ND ST

Date Opened 9-18-8 By (print) SAM EVANS (sign) Sam Evans
Date Logged in V By (print) M. VILLANUEVA (sign) M. Villanueva

1. Did cooler come with a shipping slip (airbill, etc)? ..... YES (NO)
   Shipping info _____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many _____ Name _____ Date _____

2B. Were custody seals intact upon arrival? ..... YES NO (N/A)

3. Were custody papers dry and intact when received? ..... (YES) NO

4. Were custody papers filled out properly (ink, signed, etc)? ..... (YES) NO

5. Is the project identifiable from custody papers? (If so fill out top of form) ..... (YES) NO

6. Indicate the packing in cooler: (if other, describe) _____

☐ Bubble Wrap ☒ Foam blocks ☒ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation:

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) _____

☒ Samples Received on ice & cold without a temperature blank

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? ..... YES (NO)
   If YES, what time were they transferred to freezer? _____

9. Did all bottles arrive unbroken/unopened? ..... (YES) NO

10. Are samples in the appropriate containers for indicated tests? ..... (YES) NO

11. Are sample labels present, in good condition and complete? ..... (YES) NO

12. Do the sample labels agree with custody papers? ..... (YES) NO

13. Was sufficient amount of sample sent for tests requested? ..... (YES) NO

14. Are the samples appropriately preserved? ..... (YES) NO N/A

15. Are bubbles > 6mm absent in VOA samples? ..... (YES) NO N/A

16. Was the client contacted concerning this sample delivery? ..... YES NO
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS