

**LIMITED PHASE II
ENVIRONMENTAL SITE ASSESSMENT
1333-1379 62ND STREET
EMERYVILLE, CALIFORNIA**

PREPARED FOR:
City of Emeryville Redevelopment Agency
1333 Park Avenue
Emeryville, California 94608-3517

PREPARED BY:
Ninyo & Moore
Geotechnical and Environmental Sciences Consultants
1956 Webster Street, Suite 400
Oakland, California 94612

July 29, 2005
Project No. 400582002

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Mr. Ignacio Dayrit
Redevelopment Agency of the City of Emeryville
1333 Park Avenue
Emeryville, California 94608

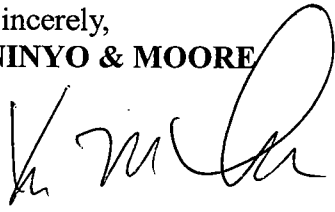
Subject: Limited Phase II Environmental Site Assessment
1333-1379 62nd Street, Emeryville, California.

Dear Mr. Dayrit:

At your request, we have prepared this Limited Phase II Environmental Site Assessment (ESA) report for the property located at 1333-1379 62nd Street in Emeryville, California. The purpose of our Limited Phase II ESA was to characterize, if such conditions exist on site, impacted sub-surface soil and/or groundwater.

We appreciate the opportunity to be of service to the City of Emeryville on this project. Should you have any questions or comments regarding our report, please contact the undersigned at your convenience.


Sincerely,
NINYO & MOORE



Kris M. Larson, P.G.
Project Environmental Geologist

KML/JDH/jms

Distribution: (2) Addressee



Jonathan D. Hoffman, P.G.
Senior Environmental Geologist

TABLE OF CONTENTS

1. INTRODUCTION AND SITE BACKGROUND.....	1
2. SCOPE OF WORK.....	2
3. SUBSURFACE EVALUATION.....	2
3.1. SOIL BORING INSTALLATION.....	2
3.2. SOIL SAMPLE DEPTHS AND ANALYTICAL METHODS.....	5
3.3. GROUNDWATER SAMPLE ANALYTICAL METHODS.....	7
4. SUBSURFACE CONDITIONS.....	7
5. SAMPLE ANALYTICAL RESULTS.....	8
5.1. SOIL SAMPLE ANALYTICAL RESULTS.....	8
5.1.1. TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, DIESEL AND MOTOR OIL.....	9
5.1.2. VOCS, BTEX AND MTBE.....	10
5.1.3. METALS.....	11
5.1.4. SVOCs AND PAHS.....	11
5.1.5. PCBS.....	13
5.2. GROUNDWATER SAMPLE ANALYTICAL RESULTS.....	13
5.2.1. TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, DIESEL AND MOTOR OIL.....	13
5.2.2. BTEX AND MTBE.....	13
5.2.3. VOCS.....	14
5.2.4. METALS.....	14
5.3. SOIL AND GROUNDWATER SAMPLE LABORATORY ANALYTICAL RESULTS FOR FIELD AND LABORATORY QUALITY CONTROL (QC) SAMPLES.....	14
5.3.1. DUPLICATE SOIL AND GROUNDWATER SAMPLES.....	14
5.3.2. EQUIPMENT BLANK SAMPLE.....	16
5.3.3. LABORATORY QA/QC SAMPLES.....	16
5.4. LEVEL IV DATA VALIDATION.....	17
6. SUMMARY.....	19
7. CONCLUSIONS AND RECOMMENDATIONS.....	22
8. LIMITATIONS.....	24
9. SELECTED REFERENCES.....	26

Tables

- Table 1 – Boring Locations, Sample Depths and Related Sample Analytical Methods for Soil Samples
- Table 2 – Boring Locations, Sample Depths and Related Sample Analytical Methods for Groundwater Samples
- Table 3 – Soil Sample Laboratory Analytical Results, Total Petroleum Hydrocarbons as Gasoline, Diesel and Motor Oil, BTEX and MTBE
- Table 4 – Soil Sample Laboratory Analytical Results, Volatile Organic Compounds
- Table 5 – Soil Sample Laboratory Analytical Results, Metals
- Table 6 – Soil Sample Laboratory Analytical Results, Semi-Volatile Organic Compounds.
- Table 7 – Soil Sample Laboratory Analytical Results, Polynuclear Aromatic Hydrocarbons (PAHs)
- Table 8 – Soil Sample Laboratory Analytical Results, Polychlorinated Biphenyls (PCBs)
- Table 9 – Groundwater Sample Laboratory Analytical Results, Total Petroleum Hydrocarbons as Gasoline, Diesel and Motor Oil, BTEX and MTBE
- Table 10 – Soil Sample Laboratory Analytical Results, Volatile Organic Compounds
- Table 11 – Groundwater Sample Laboratory Analytical Results, Metals

Figures

- Figure 1 – Site Location Map
- Figure 2 – Boring Location Map
- Figure 3 – Total Petroleum Hydrocarbons as Diesel (TPH-D) and Motor Oil (TPH-MO) Soil Sample Concentrations
- Figure 4 – Total Lead Soil Sample Concentrations Reported Above Residential EPA PRGs and RWQCB ESLs
- Figure 5 – Benzo(a)pyrene Soil Sample Concentrations Reported Above RWQCB Residential ESLs
- Figure 6 – Volatile Organic Compound (VOC) Shallow Groundwater Concentrations

Appendices

- Appendix A – Boring Logs
- Appendix B – Laboratory Analytical Report
- Appendix C – Data Validation Report

1. INTRODUCTION AND SITE BACKGROUND

The City of Emeryville in Alameda County, California, has proposed to redevelop the property at 1333-1379 62nd Street in Emeryville (site) (Figure 1). The proposed site use is a City park, which may include an underground parking structure. The site is currently occupied by the Dutro Company, which manufactures and assembles hand trucks and dollies. The manufacturing and assembling occurs in a warehouse located on the eastern half of the site. The entire site is covered with 6 to 18 inches of concrete slab.

As part of the environmental assessment process, Ninyo & Moore was retained by the City of Emeryville and the Region IX Environmental Protection Agency Brownfields Program to perform a Phase I Environmental Site Assessment (ESA) of the site in January 2002 (Ninyo & Moore 2002). The Phase I ESA revealed that the site was developed as early as 1911 with residential dwellings. According to aerial photographs reviewed, the current warehouse was first observed on site in the mid-1960s. Since 1964, the site has been occupied by Christy Metal Products, Inc., and the Dutro Company, in addition to various other businesses. Two underground storage tanks (USTs) formerly located in the northwestern section of the site were removed in 1990.

Site reconnaissance observations during the Phase I ESA noted a wet spray-paint booth located in the northern portion of the warehouse. A compressor room containing lubricant was observed in the southern portion of the warehouse. At this location, oil containers were improperly stored on a table and heavy staining and leaking was observed on the cracked floor.

The western portion of the site is reportedly built up approximately 3-5 feet above ground surface. It is unknown when, and with what import material, this area of the site was filled.

Based on the results of a Phase I ESA, evidence of recognized environmental conditions (RECs) was revealed in connection with the property. Ninyo & Moore recommended that environmental subsurface investigation activities in the form of a Limited Phase II ESA be conducted at the site because of the uncertainty of operations by the current and former occupants at the site. There was a potential for these operations to have contributed to possible soil and/or groundwater contamination beneath the site.

2. SCOPE OF WORK

Ninyo & Moore's Scope of Services for Phase II ESA activities included a utility clearance, the installation of 23 borings within the site boundaries (Figure 2), and the chemical analysis of soil and groundwater samples collected from the borings.

3. SUBSURFACE EVALUATION

A Limited Phase II ESA was conducted on July 6, 2004, to evaluate potential subsurface soil and groundwater contamination on site. Laboratory analytical results reported contaminated soil and groundwater in several of the samples collected above laboratory reporting limits, so additional Phase II activities were proposed to further evaluate subsurface environmental conditions. Ninyo & Moore conducted additional Phase II ESA activities on January 4 and 5, 2005, to fill data gaps based on the evaluation of the July 2004 results.

A soil and groundwater sampling analysis plan (SAP) was prepared and submitted to the United States Environmental Protection Agency (EPA) for both the Limited Phase II ESA and the additional Phase II ESA. The SAPs were prepared in February and October, 2004, respectively, and were reviewed and approved by Ms. Gail Jones of the EPA.

Prior to the commencement of sampling activities, locations of soil and groundwater sample borings were marked in the field in preparation of a utility clearance: Underground Service Alert was contacted for the utility clearance. A private utility locating service also conducted a subsurface search for underground utilities.

3.1. Soil Boring Installation

Sampling and analysis activities were performed in accordance with the approved SAPs dated February 11 and October 21, 2004. Four borings (Borings B1 through B4) were installed on site on July 6, 2004, and 19 additional borings (B5, B5B, and B6 through B22) were installed between January 4 and 5, 2005 (Figure 2). Precision Sampling of Richmond, California, and ResonantSonic of Woodland, California, installed the soil borings using

truck-mounted direct push rigs. Prior to sampling activities, concrete coring was necessary on all borings on site except for boring B4, where asphalt was cored.

Sampling activities included setting up at each boring location with a direct push rig and driving sampling rods and enclosed acetate sleeves into the subsurface. The acetate sleeves were removed from the rods at each sampling depth. Soil samples were collected during the July 2004 sampling event at depths of 2, 5, and 10 feet below ground surface (bgs). The 2 and 5-foot samples were selected for chemical analysis, and the 10-foot samples were placed on hold for possible future analysis. Soil samples were collected at 2, 3.5, and 5 feet bgs from the January 2005 sampling event. The samples collected from 2 and 3.5 feet, as well as select 5-foot bgs samples, were submitted to a state-certified analytical laboratory for chemical analysis. Additional 5-foot samples were extracted and placed on hold for possible future analysis.

Soil samples collected for chemical analysis were placed in either Encore sampling containers or left in the acetate sleeves. Samples analyzed for purgeable hydrocarbons, including total petroleum hydrocarbons as gasoline (TPH-G) and volatile organic compounds (VOCs) including benzene, toluene, ethylbenzene and total xylenes (BTEX) and methyl tert-butyl ether (MTBE), were collected with Encore sampling devices directly from the acetate sleeves. Samples analyzed for extractable petroleum hydrocarbons, including total petroleum hydrocarbons as diesel and motor oil (TPH-D and TPH-MO), semi-volatile organic compounds (SVOCs), polynuclear aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs) and metals, were retained within the acetate sleeves, which were sealed with Teflon tape and plastic caps. The samples were then labeled with the project name, location, boring number, sample depth, sampling date/time, and sampler's initials. The samples were placed into plastic baggies and stored in an insulated cooler containing ice.

One soil sample was retained for chemical analysis and an additional soil sample was retained for field screening each soil sample interval. Recovered samples were described in boring logs in general conformance with the Unified Soil Classification System (Appendix A).

A field geologist, under the direction of a State of California Registered Geologist, coordinated soil sampling activities.

Field screening was performed with a PID meter to evaluate the presence and relative concentration of organic vapors in the retained samples. To initiate the headspace testing procedure, soil samples were removed from the acetate sample tubes, placed into labeled zip-lock type plastic baggies, and sealed for conducting the tests. After sufficient time had elapsed for vapor build-up, the baggies were penetrated by the probe tip of the PID meter to allow measurement of organic vapors. Quantitative measurements of the field screening were obtained in the parts per million (ppm) ranges for organic vapors. The results of the field screening tests were recorded on the boring logs and were used to evaluate soil sample intervals to be submitted for laboratory analysis.

The breathing air space in the vicinity of the boring installation was also monitored with a hand-held organic vapor analyzer (PID meter) during drilling activities to detect vapors potentially exceeding personal exposure limits (PELs) for worker safety.

Soil sampling equipment was cleaned between sampling intervals with an Alconox and water solution, followed by a rinse using tap water and deionized water. Decontamination water was mixed with cement grout and used to backfill the borings on site. Soil cuttings generated during direct push drilling rig activity were placed into a 55-gallon drum for temporary storage at the site.

Grab groundwater samples were collected at a depth where groundwater was first encountered, which occurred in borings B1, B4, and B5B at depths of 10, 15, and 12 feet bgs, respectively. Groundwater samples could not be collected in several predetermined borings, including B2, B3, B5, B14, and B22, due to dry boring conditions. Grab groundwater samples were collected using bottom discharging disposable Teflon bailers from the borings subsequent to soil sample collection. A new bailer was used at each boring. Upon completion of sampling, the borings were backfilled to grade by grouting with neat cement, as required by the Alameda County Department of Public Works.

Duplicate soil and groundwater samples, equipment rinsate blank samples, and trip blanks were also collected during both sampling events and were analyzed for field and sample transport quality control. Duplicate soil samples were collected below the primary samples in each boring. Duplicate groundwater samples were collected immediately after the primary groundwater samples were collected. Equipment blank samples were collected by pouring distilled water over the Geoprobe rods directly into the appropriate sample containers. All soil samples were placed in zip-lock baggies and stored in a cooler with ice.

Samples were transferred to Curtis & Tompkins, Ltd. (C&T), a California state-certified analytical laboratory, located in Berkeley, California, with completed Chain of Custody (COC) documentation.

3.2. Soil Sample Depths And Analytical Methods

The following table describes soil sample depths, analysis, and analytical methods for the 23 borings on site.

Table 1 – Boring Locations, Sample Depths And Related Sample Analysis And Analytical Methods For Soil Samples							
BORING/ SAMPLE DEPTH (ft bgs)	Soil Sample Analytes And Methods						
	TPH-D /TPH- MO (8015M)	TPH-G/ BTX/ MTBE (8015M/8021)	VOC (8260B)s	SVOCs (8270C)	PAHs/ (8270- SIM)	PCBs (8010)	METALS (6010B)
B1/ 2, 5 ft	All sam- ples	All samples	All sam- ples	All sam- ples	NA	All sam- ples	CAM 17, All samples
B2/ 2, 5ft	All sam- ples	All samples	All sam- ples	All sam- ples	NA	All sam- ples	CAM 17, All samples
B3/ 2, 5ft	All sam- ples	All samples	All sam- ples	NA	NA	NA	NA
B4/ 2, 5ft	All sam- ples	NA	NA	NA	NA	NA	NA
*B5/ 2, 3.5	All sam- ples	NA	NA	NA	All sam- ples	NA	Pb and Cr only, All samples
B5B/ 2, 3.5, 5	2.0 and 3.5 sam- ples	NA	NA	NA	2.0 and 3.5 sam- ples	NA	Pb and Cr, 2.0 and 3.5 samples

Table 1 – Boring Locations, Sample Depths And Related Sample Analysis And Analytical Methods For Soil Samples							
BORING/ SAMPLE DEPTH (ft bgs)	Soil Sample Analytes And Methods						
	TPH-D /TPH- MO (8015M)	TPH-G/ BTEX/ MTBE (8015M/8021)	VOC (8260B)s	SVOCs (8270C)	PAHs/ (8270- SIM)	PCBs (8010)	METALS (6010B)
B6/ 2, 3.5, 5	2.0 and 3.5 sam- ples	NA	NA	NA	2.0 and 3.5 sam- ples	2.0 and 3.5 sam- ples	Pb and Cr, 2.0 and 3.5 samples
B7/ 2, 3.5, 5	2.0 and 3.5 sam- ples	NA	NA	NA	2.0 and 3.5 sam- ples	NA	Pb and Cr, 2.0 and 3.5 samples
B8/ 2, 3.5, 5	2.0 and 3.5 sam- ples	NA	NA	NA	2.0 and 3.5 sam- ples	NA	Pb and Cr, All samples
B9/ 2, 3.5, 5	All sam- ples	NA	NA	NA	All sam- ples	NA	Pb and Cr, all samples
B10/ 2, 3.5, 5	All sam- ples	NA	NA	NA	2.0 and 3.5 sam- ples	NA	Pb and Cr, 2.0 and 3.5 samples
B11/ 2, 3.5, 5	All sam- ples	NA	NA	NA	2.0 and 3.5 sam- ples	2.0 and 3.5 sam- ples	Pb and Cr, 2.0 and 3.5 samples
B12/ 2, 3.5, 5	All sam- ples	NA	NA	NA	2.0. and 3.5 sam- ples	NA	Pb and Cr, 2.0 and 3.5 samples
B13/ 2, 3.5, 5	2.0 and 3.5 sam- ples	NA	NA	NA	All sam- ples	NA	Pb and Cr, 2.0 and 3.5 samples
*B14/ 2, 3.5, 5	2.0 and 3.5 sam- ples	NA	NA	NA	2.0 and 3.5 sam- ples	NA	Pb and Cr, 2.0 and 3.5 samples
B15/ 2, 3.5, 5	2.0 and 3.5 sam- ples	NA	NA	NA	2.0 and 3.5 sam- ples	NA	Pb and Cr, 2.0 and 3.5 samples
B16/ 2, 3.5, 5	2.0 and 3.5 sam- ples	NA	NA	NA	All sam- ples	NA	Pb and Cr, 2.0 and 3.5 samples
*B17/ 2, 3.5, 5	2.0 and 3.5 sam- ples	NA	NA	NA	All sam- ples	NA	Pb and Cr, 2.0 and 3.5 samples
B18/ 2, 3.5, 5	2.0 and 3.5 sam- ples	NA	NA	NA	2.0 and 3.5 sam- ples	NA	Pb and Cr, 2.0 and 3.5 samples

Table 1 – Boring Locations, Sample Depths And Related Sample Analysis And Analytical Methods For Soil Samples							
BORING/ SAMPLE DEPTH (ft bgs)	Soil Sample Analytes And Methods						
	TPH-D /TPH- MO (8015M)	TPH-G/ BTEX/ MTBE (8015M/8021)	VOC (8260B)s	SVOCs (8270C)	PAHs/ (8270- SIM)	PCBs (8010)	METALS (6010B)
B19/ 2, 3.5, 5	2.0 and 3.5 sam- ples	NA	NA	NA	2.0 and 3.5 sam- ples	2.0 and 3.5 sam- ples	Pb and Cr, 2.0 and 3.5 samples
B20/ 2	2.0 ft sample	NA	NA	NA	2.0 ft sample		Pb and Cr, 2.0 and 3.5 samples
B21/ 2, 3.5, 5	All sam- ples	NA	NA	NA	All sam- ples	NA	Pb and Cr, 2.0 and 3.5 samples
*B22/ 2, 3.5, 5	2.0 and 3.5 sam- ples	NA	NA	NA	3.5 ft sample	NA	Pb and Cr, 2.0 and 3.5 samples

Notes:

* = Duplicate sample collected

NA = Not analyzed

Pb = Total lead

Cr = Total chromium

3.3. Groundwater Sample Analytical Methods

The following table describes the groundwater sample analysis and analytical methods for three groundwater samples collected on site.

Table 2 – Boring Locations, Related Sample Analysis And Analytical Methods For Groundwater Samples				
Boring	Groundwater Sample Analytes And Methods			
	TPH-D/TPH-MO (8015M)	TPH-G (8015M)	BTEX/MTBE/VOCs (8260B)	METALS (6010B)
B3	X	X	X	X
B4	NA	NA	X	NA
B5B	NA	X	NA	NA

Notes:

X = Analyzed

NA = Not analyzed

4. SUBSURFACE CONDITIONS

Soil boring depths ranged from 2.5 feet bgs in boring B20 to 16 feet bgs in borings B1, B2, B3, B14, and B16. Sample depths for the other borings ranged from 3.5 feet bgs for B5; 5 feet bgs for borings B6 through B10, B12, B15, and B18; 5.5 feet bgs for borings B11, B17, B19, and

B22; 6 feet bgs for borings B13 and B16; and 9 feet bgs for boring B21. Sampling equipment refusal was encountered in borings B-5 at 3.5 feet bgs and B20 at 2.5 feet bgs.

Subsurface conditions observed from soil samples collected on site generally consisted of gray sandy gravel or gravelly sand (fill) beneath the concrete slab from 1.5 feet bgs to 5 feet bgs, underlain by moist sandy or silty clay, with gravel to approximately 7 and 8 feet bgs. Moist silty clay was observed between 8 and 12 feet bgs. Moist clay was observed to exist below 12 feet bgs in the deeper borings on site. A lens of moist sandy gravel was observed between 9 and 10 feet bgs.

Groundwater was encountered at approximately 10 feet bgs in boring B3, 15 feet bgs in boring B4, and 12 feet bgs in boring B5B.

Further descriptions of the soil conditions encountered in the borings are detailed in the boring logs presented in Appendix A.

5. SAMPLE ANALYTICAL RESULTS

A summary of sample laboratory analytical data for primary, duplicate, and QC samples is discussed below. A copy of the analytical reports prepared by C & T is presented in Appendix B. Tables 3 through 11 provide analytical sample results. For a clearer understanding of soil results, Figures 3 through 5 provide soil results from boring locations where samples collected reported concentrations approaching or exceeding regulatory limits. Soil sample analytical results from borings reporting lower concentrations are not presented in these figures, but are included in the respective analytical results tables. Figure 6 presents groundwater VOC results.

5.1. Soil Sample Analytical Results

Select soil samples were analyzed for TPH-G, TPH-D, TPH-MO, VOCs, SVOCs, PAHs, and metals (Table 1). A summary of laboratory analytical results follows.

5.1.1. Total Petroleum Hydrocarbons as Gasoline, Diesel and Motor Oil

TPH-G was not reported above laboratory reporting limits in soil samples collected from borings B2 and B4 (Table 3). TPH-G was not analyzed in the soil samples collected during the January 2004 sampling event.

Soil samples collected during both the July 2004 and the January 2005 sampling events contained reported TPH-D concentrations ranging from 1.2 milligrams per kilograms (mg/kg) in sample B6-S-5.0-1 (boring B6 at 3.5 feet bgs) to 14,000 mg/kg in B4-S-2-1 (boring B4 at 2 feet bgs). Concentrations of TPH-D exceeding the Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) for Shallow Soil Samples (≤ 3 meters), collected where groundwater is a current or potential source of drinking water (100 mg/kg), were reported in samples collected from the following borings including: B1 (B1-S-2-1 and B1-S-5-1) at 240 and 280 mg/kg, B2 (B2-S-2-1 and B2-S-5-1) at 250 and 15 mg/kg, from B4 (B4-S-5-1) at 820 mg/kg, B5 (B5-S-2.0-1 and B5-S-3.5-1) at 4,100 and 1,600 mg/kg, B7 (B7-S-2.0-1 and B7-S-3.5-1) at 630 and 8.0 mg/kg, B9 (B9-S-2.0-1, B9-S-3.5-1 and B9-S-5.0-1) at 920, 440, and 2,100 mg/kg, B10 (B10-S-2.0-1, B10-S-3.5-1 and B10-S-5.0-1) at 200, 4,600 and 710 mg/kg, B11 (B11-S-2.0-1, B11-S-3.5-1 and B11-S-5.0-1) at 5,500, 1,400, and 190 mg/kg, B12 (B12-S-2.0-1, B12-S-3.5-1 and B12-S-5.0-1) at 3,700, 1,600, and 710 mg/kg, B13 (B13-S-2.0-1 and B13-S-3.5-1) at 520 and 120 mg/kg, B14 (B14-S-2.0-1 and B14-S-3.5-1) at 460 and 13 mg/kg, B17 (B17-S-2.0-1 and B17-S-3.5-1) at 2,600 and 56 mg/kg, B18 (B18-S-2.0-1 and B18-S-3.5-1) at 220 and 3.78 mg/kg, and B19 (B19-S-2.0-1 and B19-S-3.5-1) at 370 and 15 mg/kg (Figure 3 and Table 3). Other borings where collected samples contained reported concentrations less than the ESL included B5B, B6, B8, B16, B21, and B22 (Table 3).

Soil samples collected during the July 2004 and the January 2005 sampling events contained reported TPH-MO concentrations ranging from 6.4 mg/kg (B6-S-3.5-1) to 6,400 mg/kg in sample B11-S-2.0-1.

Concentrations of TPH-MO at or exceeding the RWQCB ESL (500 mg/kg) were reported in samples collected from the following borings: B1 (B1-S-2-1 and B1-S-5-1) at 300 and 1,100 mg/kg, B2 (B2-S-2-1 and B2-S-5-1) at 760 and 21 mg/kg, B4 (B4-S-2-1 and B4-S-5-1) at 500 and 300 mg/kg, B5 (B5-S-2.0-1 and B5-S-3.5-1) at 2,200 and 750 mg/kg, B9 (B9-S-2.0-1, B9-S-3.5-1 and B9-S-5.0-1), at 330, 770 and 2,100 mg/kg, B10 (B10-S-2.0-1, B10-S-3.5-1 and B10-S-5.0-1), at 260, 3,800 and 100 mg/kg, B11 (B11-S-2.0-1, B11-S-3.5-1 and B11-S-5.0-1), at 6,400, 1,100 and 240 mg/kg, B12 (B12-S-2.0-1, B12-S-3.5-1 and B12-S-5.0-1), at 650, 660 and 100 mg/kg, B13 (B13-S-2.0-1 and B13-S-3.5-1) at 520 and 160 mg/kg, B14 (B14-S-2.0-1 and B14-S-3.5-1) at 850 and 64 mg/kg, B17 (B17-S-2.0-1 and B17-S-3.5-1) at 900 and 160 mg/kg, and B18 (B18-S-2.0-1 and B18-S-3.5-1) at 500 and 27 mg/kg (Figure 3 and Table 3). Other borings where collected samples contained reported concentrations less than the ESL included B5B, B6, B7, B19, and B20 (Table 3).

5.1.2. VOCS, BTEX and MTBE

VOCs, including BTEX and MTBE and the full list of 8260 compounds, were analyzed in samples collected from borings B1 through B3. VOCs detected above laboratory reporting limits included acetone in soil samples B1-S-2-1 at 31 micrograms per kilograms ($\mu\text{g/kg}$), B3-S-2-1 at 40 $\mu\text{g/kg}$, and B3-S-5 at 70 $\mu\text{g/kg}$. Isopropylbenzene, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene and para-isopropyl toluene were reported in sample B1-S-2-1 at 8.6 $\mu\text{g/kg}$, 34 $\mu\text{g/kg}$, 64 $\mu\text{g/kg}$ and 7.8 $\mu\text{g/kg}$, respectively (Table 4). Ethylbenzene was reported at 9.2 $\mu\text{g/kg}$ in sample B1-S-2-1 (Table 3 and 4). Total xylenes were reported at 50 $\mu\text{g/kg}$ in sample B1-S-2-1 and at 5.9 $\mu\text{g/kg}$ in sample B3-S-2-1 (Tables 3), and o-xylene was reported in B1-S-2 (Table 4). Benzene, toluene and MTBE were not detected above laboratory reporting limits in samples analyzed (Tables 3 and 4). VOCs were not analyzed in samples collected during the January 2005 sampling event.

5.1.3. Metals

CAM 17 Metals were analyzed in samples collected from borings B1 and B2 during the July 2004 sampling event. Arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, vanadium, and zinc were detected above laboratory reporting limits in both the samples collected from boring B1 (B1-S-2-1 and B1-S-5-1) (Table 5). Concentrations exceeding, approaching, or at their respective ESLs or United States Environmental Protection Agency (EPA) Preliminary Remedial Goals (PRGs) included arsenic (ESL of 5.5 mg/kg and PRG of 6.2 mg/kg) at 7.8 and 7.3 mg/kg, chromium (ESL of 58 mg/kg) at 69 and 40 mg/kg, and lead (ESL and PRG of 150 mg/kg) at 290 and 150 mg/kg, respectively. Arsenic, barium, beryllium, chromium, cobalt, copper, lead, mercury, nickel, selenium, vanadium, and zinc were detected above laboratory reporting limits in soil samples B2-S-2-1 and B2-S-5-1. None of the reported concentrations exceeded their respective ESLs or PRGs (Table 5).

Lead and chromium were analyzed in the 2.0- and 3.5-foot bgs samples collected from borings B5, B5B, and B6 through B22 during the January 2005 sampling event. Both compounds were reported above laboratory reporting limits in every samples collected. Concentrations of lead exceeding the PRG and ESL of 150 mg/kg were reported in 2.0-foot bgs samples B5B-S-2.0-1 (2,100 mg/kg), B10-S-2.0-1 (270 mg/kg), B14-S-2.0-1 (1,200 mg/kg), B15-S-2.0-1 (270 mg/kg), and B18-S-2.0-1 (210 mg/kg). Concentrations of lead exceeding the PRG and ESL were reported in two 3.5-foot bgs samples collected including B8-S-3.5-1 (320 mg/kg), and B9-S-3.5-1 (470 mg/kg). Figure 4 shows soil sample lead results reported, exceeding or at the PRG and ESL. Concentrations of chromium exceeding the ESL (58 mg/kg) were reported in samples B5B-S-2.0-1 (59 mg/kg) and B18-S-2.0-1 (65 mg/kg).

5.1.4. SVOCs and PAHS

SVOCs were analyzed in samples collected from borings B1 and B2 using EPA Method 8270C during the July 2004 sampling event. SVOCs were reported in samples B1-S-2-1 and B1-S-5-1 in the following concentrations: Fluoranthene was reported at 160 and

120 µg/kg, pyrene at 190 and 160 µg/kg, chrysene at 100 and 96 µg/kg, benzo(a)fluoranthene at 200 µg/kg in both samples, benzo(k)fluoranthene at 98 and 94 µg/kg, and benzo(a)pyrene at 84 and 90 µg/kg (Figure 5, Table 6). These concentrations were below their respective ESLs or PRGs except for the concentrations reported for benzo(a)pyrene, which exceeded the PRG of 38 µg/kg. SVOCs were not detected above laboratory reporting limits in samples B2-S-2-1 and B2-S-5-1. It should be noted, however, that because of the presence of hydrocarbons in some of the samples, surrogate recoveries were exceeded due to surrogate coelution, as will be further discussed in Section 5.3.3. To minimize coelution issues, EPA Method 8270 SIMS was used during the January 2005 sampling event.

PAHs were detected in concentrations above reporting limits in samples collected during the January 2005 sampling event. Concentrations of benzo(a)pyrene exceeding the RWQCB ESL (38 µg/kg) were reported in samples collected from the following borings: B5B (B5B-S-2.0-1) at 73 µg/kg, B13 (B13-S-2.0-1 and B13-S-3.5-1) at 39 and 14,000 µg/kg, B14 (B14-S-2.0-1) at 89 µg/kg, B15 (B15-S-2.0-1) at 330 µg/kg, B16 (B16-S-3.5-1) at 290 µg/kg, and B17 (B17-S-3.5-1) at 70 µg/kg (Figure 5, Table 7). Concentrations exceeding their respective ESLs were also reported in sample B13-S-3.5-1 for phenanthrene (11,000 µg/kg) at 14,000 µg/kg, benzo(a)anthracene (380 µg/kg) at 8,300 µg/kg, chrysene (3,800 µg/kg) at 8,900, benzo(b)fluoranthene (380 µg/kg) at 12,000 µg/kg, benzo(k)fluoranthene (380 µg/kg) at 3,100 µg/kg, ideno(1,2,3-cd)pyrene (380 µg/kg) at 12,000, and dibenz(a,h)anthracene (110 µg/kg) at 7,000 µg/kg (Table 7).

Additional PAHs detected above laboratory reporting limits, but below ESLs or PRGs, included naphthalene, ranging from 7.4 µg/kg (B14-S-2-1) to 190 µg/kg (B16-S-3.5-1); acenaphthylene, ranging from 7.1 µg/kg (B9-S-3.5-1) to 180 µg/kg (B16-S-3.5-1); acenaphthene, ranging from 9.3 µg/kg (B21-S-3.5-1) to 13 µg/kg (B3-S-3.5-1); fluorene, ranging from 13 µg/kg (B5-S-3.5-1) to 500 µg/kg (B13-S-3.5-1); anthracene, ranging from 6.5 µg/kg (B17-S-3.5-1) to 2,600 µg/kg (B9-S-2-1); fluoranthene, ranging from 7.3 µg/kg to 26,000 µg/kg (B13-S-3.5-1); pyrene, ranging from 8.4 µg/kg (B21-S-3.5-1)

to 29,000 µg/kg (B13-S-3.5-1); and benzo(g,h,i)perylene, ranging from 6.4 µg/kg (B16-S-3.5-1) to 14,000 µg/kg (B13-S-3.5-1).

5.1.5. PCBs

PCBs were analyzed in soil samples collected from borings B1 and B2 during the July 2004 sampling event and from borings B6, B8, B11, B21 during the January 2005 sampling event. PCBs were detected above laboratory reporting limits as arochlor-1254 in samples B11-S-2.0-1 and B11-S-3.5-1 at 33 µg/kg and 53 µg/kg, respectively. PCBs were also reported as arochlor-1260 in borings B1, B2, and B11, ranging from 11 µg/kg (B2-S-2-1) to 51 µg/kg (B1-S-5-1) (Table 8).

5.2. Groundwater Sample Analytical Results

Select groundwater samples were analyzed for TPH-G, TPH-D, TPH-MO, VOCs, and metals (Table 2, Section 3.2). Groundwater samples were collected at borings B3 and B4 during the July 2004 sampling event and B5B during the January 2005 sampling event. A summary of laboratory analytical results follows.

5.2.1. Total Petroleum Hydrocarbons as Gasoline, Diesel and Motor Oil

TPH-G was analyzed in grab groundwater samples collected from borings B3 (B3-GW-1) and B5B (B5B-GW-1) and was not detected above the laboratory reporting limit in either sample (Table 9). TPH-D was reported in groundwater sample B3-GW-1 at 200 mg/L, exceeding the ESL of 100 mg/L. TPH-MO was not detected above laboratory reporting limits in sample B3-GW-1 (Table 9).

Groundwater samples B4-GW-1 and B5-GW-1 were not analyzed for TPH-D or TPH-MO.

5.2.2. BTEX and MTBE

BTEX was analyzed in samples B3-GW-1, B4-GW-1 and B5B-GW-1 and was not detected above the laboratory reporting limit in the samples (Table 9). MTBE was

reported at 11 µg/L in sample B3-GW-1. MTBE, exceeding the ESL of 11 mg/L, but below the MCL of 13 mg/L. MTBE was also analyzed in the other two samples and not reported above the laboratory reporting limit in sample B4-GW-1 or B5B-GW-1.

5.2.3. VOCs

Groundwater samples were collected from borings B3, B4, and B5 and analyzed for VOCs (Table 2). VOCs reported in sample B3-GW-1 included 1,1-dichloroethene (18 µg/L) and MTBE (11 µg/L) (Table 10). VOCs reported in sample B5B-GW-1 included 2-butanone at 18 µg/L. VOCs were not reported above laboratory reporting limits in sample B4-GW-1.

5.2.4. Metals

One grab groundwater sample, Sample B3-GW-1, was analyzed for CAM 17 Metals on site. Barium (120 µg/L) and nickel (22 µg/L) were the only compounds reported above laboratory reporting limits (Table 11).

5.3. Soil and Groundwater Sample Laboratory Analytical Results for Field and Laboratory Quality Control (QC) Samples

Field samples included duplicate and equipment blank samples. Laboratory QA/QC samples included matrix spike/matrix spike duplicate (MS/MSD) samples, laboratory control and laboratory control duplicate (LC/LCD) samples, and method blanks. The following is a summary and discussion of QA/QC sample analytical results.

5.3.1. Duplicate Soil and Groundwater Samples

Duplicate soil samples were collected from boring B-2 at 5 feet bgs (B32-S-5-1) on July 6, 2004. B32-S-5-1 was analyzed for TPH-D, TPH-MO, and TPH-G, using EPA Method 8015M, VOCs using EPA Method 8260B, CAM 17 Metals using EPA Method 6010B, PAHs and SVOCs using EPA Method 8270C, and PCBs using EPA Method 8082. Analytical results for the duplicate samples were within an order of magnitude of the primary samples for every analyte.

Duplicate soil samples were also collected from borings B5 (B25-S-2.0-1), B14 (B34-S-2.0-1), and B17 (B37-S-2.0-1) at 2 feet bgs, and B22 (B42-S-3.5-1) at 3.5 feet bgs during the January 2005 sampling event. Duplicate samples B25-S-2.0-1, B34-S-2.0-1, B37-S-2.0-1, and B42-S-3.5-1 were analyzed for TPH-D and TPH-MO using EPA Method 8015M, total chromium and lead using EPA Method 6010B, and PAHs using EPA Method 8270-SIM. Analytical results for the duplicate samples were within an order of magnitude of the primary samples for TPH-D and TPH-MO.

PAHs were reported within an order of magnitude in most samples, except for sample B25-S-2-1, where low concentrations of acenaphthalene (190 µg/kg), anthracene (220 µg/kg), fluoranthene (310 µg/kg), and chrysene (380 µg/kg) were reported, and in sample B42-S-3.5-1, where fluoranthene (7.5 µg/kg) and pyrene (8.5 µg/kg) were reported. These constituents were not reported in primary samples B5-S-2-1 and B22-S-3.5-1. Additionally, duplicate sample B34-S-2.0-1 had concentrations of the following compounds over one order of magnitude greater than in the primary sample, B-14-S-2.0-1; phenanthrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(b)pyrene, indeno(1,2,3-cd)pyrene, and benzo(g,h,i)perylene.

Lead and chromium were reported within an order of magnitude in most duplicate samples, except for B34-S-2-1, where lead was reported at 52 mg/kg, greater than one order of magnitude below the primary sample B14-S-2-1.

A duplicate groundwater samples B33-GW-1 (duplicate of B3-GW-1) was collected on July 6, 2004. No duplicate samples were collected during the January 2005 sampling event because of a lack of groundwater recovery in the borings. B33-GW-1 was analyzed for TPH-D, TPH-MO, and TPH-G, using EPA Method 8015M, VOCs, including BTEX and MTBE, using EPA Method 8260B, and CAM 17 Metals, using EPA Method 6010B. Analytical results for the duplicate samples were within an order of magnitude of the primary samples for every constituent except arsenic, where it was reported slightly above laboratory reporting limits (5.0 µg/L) at 5.2 µg/L.

5.3.2. Equipment Blank Sample

Equipment blank samples were collected during each sampling event. Sample B35-GW-1 was collected during the July 2004 sampling event and analyzed for TPH-D, TPH-MO, and TPH-G, using EPA Method 8015M, VOCs, using EPA Method 8260B, and CAM 17 Metals, using EPA Method 6010B. Laboratory analytical results for the equipment blank sample were below laboratory reporting limits for every constituent.

Sample B50-GW-1 was collected during the January 2005 sampling event. The sample was analyzed for TPH-D and TPH-MO, using EPA Method 8015 M, PCBs, using EPA Method 8082, total chromium and lead, using EPA Method 6010B, and PAHs, using EPA Method 8270-SIM. The sample container for analysis of PAHs was broken during laboratory handling, so PAHs were not analyzed. TPH-D, TPH-MO, PCBs, lead and chromium were not reported above laboratory reporting limits.

5.3.3. LABORATORY QA/QC SAMPLES

A summary of the case narrative for the July 2004 sampling event indicated that total volatile hydrocarbons surrogate recoveries for trifluorotoluene in the water matrix spikes were above acceptable limits due to coelution of the surrogate and hydrocarbon peaks, however the bromofluorobenzene surrogate recoveries were reportedly acceptable.

Total extractable hydrocarbon MS recoveries in soil samples collected were reported as not meaningful, and the matrix spikes were not analyzed because the concentration of diesel range compounds in the spiked samples rendered the amount of spike insignificant. The LC sample was reported as acceptable.

VOC soil MS recoveries for soil sample B3-S-2-1 were below acceptance limits for chlorobenzene. The value reported was 57% recovery, while the range was reported at 58-120%. The LCS recovery was acceptable.

Both 1-methylnaphthalene surrogate recoveries for PAHs in site soil samples B-1-S-2-1 and B-1-S-5-1 were outside acceptable limits (139% compared to 124% and 198% compared to 120%) due to matrix effect. As discussed in Section 5.1.4, this is probably due to coelution of the surrogate with hydrocarbons, which were also in the samples.

Lead was reported in method blank sample QC256637; however, lead was not reported in related samples, so there was reportedly no effect on the sample results. The MS recoveries for zinc and the MSD recovery for barium were outside acceptance limits. The associated blank spike recoveries and blank spike duplicate relative percent difference were acceptable for every target element. The spike sample was not from samples collected on site.

No analytical problems were encountered for PCBs.

Qualifiers for total petroleum hydrocarbon compounds included “H” and “Y” qualifiers for the analytical results that were not completely representative of the fuel specified for analysis. The “H” qualifier was described as heavier hydrocarbons contributing to the quantitation and the “Y” qualifier was described as a sample exhibiting a chromatographic pattern which does not resemble the standard. The qualifiers usually represent petroleum hydrocarbons that have degraded to a weathered fuel.

5.4. Level IV Data Validation

An EPA Level IV analysis was conducted by C & T on soil sample B2-S-5-1, B16-S-3.5-1, B5-S-2.0-1, and B6-S-3.5-1, and a separate data validation was conducted by Aquatus Environmental (Aquatus) in January and February 2005.

A data validation was conducted for PAHs, total extractable hydrocarbons (TEH), purgeable organics, PCBs, total volatile hydrocarbons (TVH), SVOCs, and Title 26 Metals on sample B2-S-5-1, collected July 6, 2004. Case narratives reported that the MS and surrogate recoveries for PAHs and the recovery of acenaphthene were outside control limits; however, the

associated LCS was acceptable. No additional problems were encountered with the analytical data.

The case narrative for TEH indicated that high concentrations of hydrocarbons in the MS made the sample meaningless, and therefore the sample was not reported. No other analytical problems were reported.

The case narrative for purgeable organics reported that the MS recovery for chlorobenzene were outside reporting limits. The associated RPD and LCS were acceptable, however, and chlorobenzene was not detected in sample B2-S-5-1. No other analytical problems were reported.

The case narrative for PCBs reported that the recovery for arochlor 1260 exceeded recovery limits; however, arochlor 1260 was not detected in sample B2-S-5-1.

According to the case narrative for TVH, no analytical problems were encountered.

According to the case narrative for SVOCs, in the initial equipment calibration verifications, recoveries for 4-nitroaniline and 3,3-dichlorobenzidine were outside control limits; however, neither compound was detected in sample B2-S-5-1.

The case narrative for Title 26 Metals reported that the MSD and RPD for vanadium exceeded control limits. The associated blank spikes and another set of MS samples run in the same batch were acceptable, demonstrating that the laboratory procedure was in control. No additional analytical problems were encountered.

A data validation was conducted for TEH, Metals, and SVOCs for sample B16-S-3.5-1. According to the case narratives for each constituent, no analytical problems were encountered.

Aquatus of Albany, California, conducted a Level IV QC Data Validation review on the C & T data. Aquatus reviewed Level IV data validation for Samples B5-S-2.0-1, B6-S-3.4-1 and B16-3-5-1. The samples were analyzed for TPH-D and TPH-MO, using EPA Method

8015M, PAHs using EPA Method 8270-SIM, and chromium and lead using EPA Method 6010B. Sample B6-S-3.5-1 was also analyzed for PCBs using EPA Method 8082.

Aquatus reported that the C & T data followed the Federal and State EPA guidelines which included requirements in specific analytical method protocols, Contract Laboratory Program National Functional Guidelines for data review, guidance for data verification and validation and data quality indicators, and Region IX guidance for laboratory documentation and data evaluation/validation guidance.

Aquatus also reported that the sample data was of acceptable quality, with no limitation for use. The report also indicated that TPH-D results for the samples did not resemble the diesel standard and heavier hydrocarbons contributed to the result. It was also reported that the TPH-MO results for sample B5-S-2.0-1 was assigned an H qualifier because of contributions from lighter hydrocarbons, and the TPH-D result from sample B16-S-3.5-1 was also assigned an H qualifier because the sample chromatogram did not match the diesel peak, and was probably closer to a motor oil that degraded toward the diesel range.

Copies of the Aquatus Data Validation Reports are presented in Appendix C.

6. SUMMARY

Soil and groundwater sampling and analysis activities were performed in accordance with the approved SAPs, dated February 11, and October 21, 2004. Four soil borings (Borings B1 through B4) were installed on site on July 6, 2004, and 19 additional soil borings (B5, B5B and B6 through B22) were installed between January 4 and 5, 2005.

Soil samples collected from 2.0 and 5.0 feet bgs during the July 2004 sampling event were analyzed for TPH-G, TPH-D, and TPH-MO using EPA Method 8015M, VOCs, including BTEX and MTBE using EPA Method 8260B, SVOCs and PAHs using EPA Method 8270C, PCBs using EPA Method 8082 and CAM 17 Metals using EPA Method 6010B. During the January 2005 sampling event, soil samples were collected at 2.0, 3.5, and 5.0 feet bgs. The 2.0 and 3.5 foot samples were analyzed for TPH-D and TPH-MO using EPA Method 8015M, PAHs using EPA

Method 8270-SIM, and lead and chromium using 6010B. Select soil samples were also analyzed for PCBs using EPA Method 6010B. Samples collected at 5 feet bgs were analyzed if constituents of concern were reported above regulatory reporting limits in the 2.0 and 3.5 foot depths.

Grab groundwater samples were collected at a depth where groundwater was first encountered, which occurred in borings B1 and B4 at 10 and 15 feet bgs (July 2004), and B5B at 12 feet bgs (January 2005). Groundwater samples could not be collected in several predetermined groundwater sample borings, including B2, B3, B5, B14, and B22, due to dry boring conditions. Upon completion of sampling, the borings were backfilled to grade by grouting with neat cement, as required by the Alameda County Department of Public Works.

Duplicate soil sample and groundwater samples, equipment rinsate blank samples and trip blanks were also collected during both sampling events.

Subsurface conditions observed from soil samples collected on site generally consisted of fill (gray sandy gravel or gravelly sand) ranging from 12 inches to 5 feet thick beneath concrete slab. The fill was underlain by moist sandy or silty clay to approximately 8 feet bgs. Moist silty clay and moist clay was observed between 8 feet and 16 feet bgs in the deeper borings on site. A lens of sandy gravel was observed between 9 and 10 feet bgs in the 16 foot bgs borings on site.

Laboratory analytical results for soil samples collected included TPH-D concentrations exceeding ESLs ranging between 120 mg/kg in sample B13-S-3.5-1 to 14,000 mg/kg in sample B4-S-2-1. (Table 3, Figure 3). TPH-MO concentrations exceeding ESLs were reported ranging from 100 mg/kg in sample B10-S-5.0-1 to 6,400 mg/kg in sample B11-S-2.0-1 (Table 3, Figure 3). TPH-G was not reported above laboratory reporting limits in soil samples collected on site (Table 3). ESLs for TPH-D and TPH-MO are 100 mg/kg and 500 mg/kg, respectively.

BTEX constituents reported in soil samples collected in July 2004 included ethylbenzene at 9.2 µg/kg in sample B1-S-2-1, total xylene at 50 µg/kg in sample B1-S-2-1, and 5.9 µg/kg in sample B3-S-2-1 (Table 4). MTBE, benzene or toluene was not reported above laboratory reporting limits in soil samples collected. BTEX was not analyzed in soil samples collected in January 2005.

ESLs for ethylbenzene and total xylene are 3,300 µg/kg and 1,500 µg/kg and PRGs for ethylbenzene and total xylenes are 2,500 mg/kg and 1,000 mg/kg, respectfully.

Cam 17 Metals were analyzed in soil samples collected in January 2005 from borings B1 and B2. Several metal compounds were detected above laboratory reporting limits, including chromium (69 mg/kg) and lead (290 mg/kg) in sample B1-S-2-1, and lead at 150 mg/kg in sample B1-S-5-1 (Table 5). Arsenic exceeding both ESLs and PRGs was also reported in samples B1-S-2-1 and B1-S-5-1 at 7.8 mg/kg and 7.3 mg/kg, respectively. ESLs and PRGs for arsenic are 5.5 mg/kg and 0.39 mg/kg, respectively. Lead and chromium were analyzed in the 2.0-and 3.5-foot samples collected from borings B5, B5B, and B6 through B22 during the January 2005 sampling event. Concentrations of lead exceeding the ESL and PRG were reported in sample B5B-S-2.0-1 at 2,100 mg/kg, B10-S-2.0-1 at 270 mg/kg, B14-S-2.0-1 at 1,200 mg/kg, B15-S-2.0-1 at 270 mg/kg and B18-S-2.0-1 at 210 mg/kg, B8-S-2.0-1 at 320 mg/kg, and B9-S-2.0-1 at 470 mg/kg. Concentrations of chromium exceeding the ESL were reported in samples B5B-S-2.0-1 at 59 mg/kg and B18-S-2.0-1 at 65 mg/kg. ESLs for lead and chromium are 150 mg/kg and 58 mg/kg. PRGs for lead and chromium are higher at 150 mg/kg and 210 mg/kg, respectively.

SVOCs and PAHs were reported in elevated concentrations in soil samples collected during both sampling events. SVOCs and PAHS were reported in samples B1-S-2-1, B1-S-5-1, B5B-S-2-1, B13-S-2-1, B13-S-3.5-1, B14-S-2-1, B15-S-2-1, B16-S-3.5-1 and B17-S-3.5-1. Benzo(a)pyrene was reported in each of the samples, ranging from 39 µg/kg in sample B13-S-2-1 to 14,000 µg/kg in sample B13-S-3.5-1. ESLs and PRGs for benzo(a)pyrene are 38 µg/kg and 62 µg/kg, respectively (Tables 6 and 7).

PCBs were reported as arochlor-1254 in boring B11 from both 2.0 and 3.5 bgs at 33 µg/kg and 53 µg/kg, respectively. PCBs were also reported as arochlor-1260 in borings B1, B2, and B11, ranging from 11 µg/kg (B2-S-2-1) to 51 µg/kg (B1-S-5-1) (Table 8). The PRG for arochlor-1254 and arochlor 1260 is 220 mg/kg (Table 8).

Constituents of concern reported above laboratory reporting limits for groundwater sample collected during both sampling events included TPH-D at 200 mg/L (Table 9), VOCs reported as

1,1-dichloroethene at 18 µg/L, and MTBE at 11 µg/L (Table 11) and CAM 17 metals reported as barium at 120 µg/L and nickel at 22 µg/L in sample B3-GW-1. The compound 2-butanone (MEK) was reported in sample B5B-GW-1 at 18 µg/L. The Groundwater ESL for TPH-D is 100 µg/L, 1,1-dichloroethene is 6.0 µg/L, and MTBE is 5.0 µg/L. The ESL was listed for MEK (2-butanone) is 4,200 µg/L.

7. CONCLUSIONS AND RECOMMENDATIONS

TPH-D/MO was reported above ESLs of 100 mg/kg in 15 boring locations at 2 feet bgs, in eight boring locations at 3.5 feet bgs, and in seven boring locations at 5 feet bgs (Figure 3). Benzo(a)pyrene was reported above ESLs (38 µg/kg) in five boring locations at 2 feet bgs, in three boring locations at 3.5 feet bgs, and in one boring location at 5 feet bgs (Figure 5). Total lead was reported above PRGs and ESLs in five soil sample locations at 2 feet bgs (Figure 4) and two at 3.5 feet bgs (Figure 4). Total chromium was reported above ESLs at three 2-foot sample locations.

TPH-D/MO contamination beneath the warehouse concrete slab was reported above ESLs in eight of the 13 borings at 2 feet bgs and four of the borings at 5 feet bgs. Areas in the warehouse where the 5-foot bgs samples reported elevated TPH-D concentrations included the storage room, manufacturing room, and oil storage and compressor room (Figure 3). One 5-foot sample collected outside the warehouse reported TPH-D above ESLs and one 3.5-foot sample location was above ESLs (Figure 3).

Total lead was reported above the PRG (150 mg/kg) in 2-foot samples collected from five of the 13 soil boring locations and in 5-foot samples collected from two of the sample locations inside the warehouse. Total lead was reported above the PRG in one boring at both 2 feet and 5 feet bgs outside the warehouse (Figure 4).

VOCs, including 1,1-dichloroethene and MTBE, were reported above ESLs (6.0 and 5.0 µg/L, respectively) in two of the three borings where grab groundwater samples were collected. Both locations were inside the warehouse (Figure 6).

Benzo(a)pyrene was reported above the ESL (32 µg/mg) in three boring locations inside the warehouse at 2.0 feet bgs at concentrations up to 330 µg/mg. Benzo(a)pyrene was also reported above the ESL in 2.0 foot bgs soil samples collected from two borings outside the warehouse, in 3.5 foot bgs samples from three borings, and in the 5.0-foot bgs samples from one boring outside the warehouse (Figure 5) at concentrations up to 14,000 µg/mg. The distribution of the benzo(a)pyrene and other PAHs show a heterogeneous pattern. Additionally, the duplicate analysis of PAHs also show very different values as compared to the primary sample. PAH impacted soil is likely related to the fill material originating from an off-site source.

Laboratory analytical data reported that TPH-D and lead impacted soil is more heavily concentrated beneath the warehouse. The elevated concentration of total lead and TPH-D reported beneath the slab inside the warehouse is potentially related to the manufacturing processes occurring from the industrial activities historically conducted on site. The reported total lead and TPH-D in soil is likely related to historic site activities.

According to the City of Emeryville, the proposed site use will be a park which may include an underground parking structure. Areas in the play area should be remediated where lead impacted soils are reported above PRGs and where TPH-D and benzo(a)pyrene impacted soils are reported above ESLs. The preferred remedial alternative most likely will be soil excavation and disposal and select area capping based on park design. The proposed underground parking garage will act as a cap for potentially contaminated soil, therefore less stringent cleanup goals, compared to those used for the play area, should be considered by the RWQCB for soils left in place beneath the garage. As part of the remedial action, confirmation samples should be collected subsequent to excavation to evaluate any deeper soil contamination.

Prior to excavation of soils, a human health risk assessment should be prepared to evaluate risk-based cleanup levels that consider potential exposure pathways for the migration of constituents of concern to human receptors. Receptors include children and adults using the park and laborers involved in remedial activities prior to and during the park construction.

8. LIMITATIONS

The field investigation, laboratory testing, and soil sample analyses presented in this report have been conducted in general accordance with current engineering practice and the standard of care exercised by reputable environmental consultants performing similar tasks in the area. No other warranty, expressed or implied, is made regarding the conclusions and professional opinions presented in this report. There is no investigation detailed enough to reveal every soil condition. Variations may exist and conditions not observed or described in this report may be encountered at a later time. Uncertainties relative to soil conditions can be reduced through additional soil sampling. An additional soil investigation will be performed upon request.

Ninyo & Moore's summary, conclusions, and recommendations regarding environmental considerations as presented in this report are based on a limited soil assessment and chemical analysis. Further assessment of potential adverse environmental impacts from past on-site and/or nearby use of hazardous materials may be accomplished by a more comprehensive assessment. The samples collected and used for testing, and the observations made are believed to be representative of the area(s) evaluated; however, conditions can vary significantly between sampling locations. Variations in soil conditions will exist beyond the points explored in this investigation.

The environmental interpretations and opinions contained in this report are based on the results of laboratory tests and analyses intended to detect the presence and concentration of certain chemical or physical constituents in samples collected from the subject site. The testing and analyses have been conducted by an independent laboratory that is accredited by the EPA or certified by the State of California to conduct such tests. Ninyo & Moore has no involvement in, or control over, such testing and analysis. Ninyo & Moore, therefore, disclaims responsibility for any inaccuracy in such laboratory results.

This report is intended for preliminary design purposes only and may not provide sufficient data to prepare an accurate bid by some contractors. This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ninyo & Moore should be contacted if the reader requires addi-

tional information or has questions regarding the content, interpretations presented, or completeness of this document.

Our summary, conclusions, and recommendations are based on an analysis of the observed site conditions. It should be understood that the conditions of a site can change with time as a result of natural processes or the activities of man at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ninyo & Moore has no control.

9. SELECTED REFERENCES

- Ninyo & Moore, 2002, Phase I Environmental Site Assessment, 1333-1379 62nd Street, Emeryville, California: dated January 2.
- Ninyo & Moore, 2004, Limited Phase II Environmental Site Assessment, Sampling Analysis Plan, 1333-1379 62nd Street, Emeryville, California, dated February 11.
- Ninyo & Moore, 2004, Limited Phase II Environmental Site Assessment Sampling Analysis Plan, 1333-1379 62nd Street, Emeryville, California: dated October 24.
- Regional Water Quality Control Board, 2003, Bay Area Region Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater,: Interim Final: dated July.
- United States Environmental Protection Agency Region IX, 2004. Preliminary Remediation Goals: updated October.

TABLE 3
SOIL SAMPLE LABORATORY ANALYTICAL RESULTS
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, DIESEL AND MOTOR OIL, BTEX AND MTBE
1333-1379 62ND STREET
CITY OF EMERYVILLE, CALIFORNIA

Boring I.D.	Date	TPH-G (mg/kg)	TPH-D (mg/kg)	TPH-MO (mg/kg)	MTBE (µg/kg)	Benzene (µg/kg)	Toluene (µg/kg)	Ethyl- Benzene (µg/kg)	Total Xylenes (µg/kg)
B1-S-2-1	7/6/04	--	--	--	<6.4	<6.4	<6.4	9.2	50
B1-S-5-1	7/6/04	--	--	--	<5.2	<5.2	<5.2	<5.2	<5.2
B2-S-2-1	7/6/04	<1.1	--	--	<5.1	<5.1	<5.1	<5.1	<5.1
B2-S-5-1	7/6/04	<1.3	15 HY	21	<5.6	<5.6	<5.6	<5.6	<5.6
B3-S-2-1	7/6/04	--	--	--	<5.7	<5.7	<5.7	<5.7	5.9
B3-S-5-1	7/6/04	--	--	--	<8.4	<8.4	<8.4	<8.4	<8.4
B4-S-2-1	7/6/04	<1.2	--	--	--	--	--	--	--
B4-S-5-1	7/6/04	<1.2	--	300 L	--	--	--	--	--
B5-S-2-0-1	1/5/05	--	--	--	--	--	--	--	--
B5-S-3-5-1	1/5/05	--	--	--	--	--	--	--	--
B5B-S-2-0-1	1/5/05	--	21 HY	45	--	--	--	--	--
B5B-S-3-5-1	1/5/05	--	50 HY	200	--	--	--	--	--
B3B-S-5-0-1	1/5/05	--	--	--	--	--	--	--	--
B6-S-2-0-1	1/5/05	--	25 HY	94	--	--	--	--	--
B6-S-3-5-1	1/5/05	--	1.2 HY	6.4	--	--	--	--	--
B6-S-5-0-1	1/5/05	--	--	--	--	--	--	--	--
B7-S-2-0-1	1/5/05	--	--	340 L	--	--	--	--	--
B7-S-3-5-1	1/5/05	--	8.0 HY	20	--	--	--	--	--
B7-S-5-0-1	1/5/05	--	--	--	--	--	--	--	--
B8-S-2-0-1	1/5/05	--	9.9 HY	44	--	--	--	--	--
B8-S-3-5-1	1/5/05	--	15 HY	75	--	--	--	--	--
B8-S-5-0-1	1/5/05	--	--	--	--	--	--	--	--
B9-S-2-0-1	1/5/05	--	--	330 L	--	--	--	--	--
B9-S-3-5-1	1/5/05	--	--	--	--	--	--	--	--
B9-S-5-0-1	1/5/05	--	--	--	--	--	--	--	--
B10-S-2-0-1	1/5/05	--	--	260 L	--	--	--	--	--
B10-S-3-5-1	1/5/05	--	--	--	--	--	--	--	--
B10-S-5-0-1	1/5/05	--	90 HY	130 L	--	--	--	--	--
B11-S-2-0-1	1/5/05	--	--	--	--	--	--	--	--
B11-S-3-5-1	1/5/05	--	--	--	--	--	--	--	--
B11-S-5-0-1	1/5/05	--	--	240	--	--	--	--	--
B12-S-2-0-1	1/5/05	--	--	--	--	--	--	--	--
B12-S-3-5-1	1/5/05	--	--	--	--	--	--	--	--
B12-S-5-0-1	1/5/05	--	--	100 LY	--	--	--	--	--
B13-S-2-0-1	1/5/05	--	--	--	--	--	--	--	--
B13-S-3-5-1	1/5/05	--	--	160 L	--	--	--	--	--
B13-S-5-0-1	1/5/05	--	--	--	--	--	--	--	--
B14-S-2-0-1	1/5/05	--	--	--	--	--	--	--	--
B14-S-3-5-1	1/5/05	--	13 HYL	64	--	--	--	--	--
B14-S-5-0-1	1/5/05	--	--	--	--	--	--	--	--
B15-S-2-0-1	1/5/05	--	16 HY	30	--	--	--	--	--
B15-S-3-5-1	1/5/05	--	<2.4	16	--	--	--	--	--
B15-S-5-0-1	1/5/05	--	--	--	--	--	--	--	--
B16-S-2-0-1	1/5/05	--	31 HY	40 L	--	--	--	--	--

TABLE 3
SOIL SAMPLE LABORATORY ANALYTICAL RESULTS
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, DIESEL AND MOTOR OIL, BTEX AND MTBE
1333-1379 62ND STREET
CITY OF EMERYVILLE, CALIFORNIA

Boring I.D.	Date	TPH-G (mg/kg)	TPH-D (mg/kg)	TPH-MO (mg/kg)	MTBE (µg/kg)	Benzene (µg/kg)	Toluene (µg/kg)	Ethyl- Benzene (µg/kg)	Total Xylenes (µg/kg)
B16-S-3.5-1	1/5/05	--	3.9 HY	21	--	--	--	--	--
B16-S-5.0-1	1/5/05	--	--	--	--	--	--	--	--
B17-S-2.0-1	1/5/05	--	--	--	--	--	--	--	--
B17-S-3.5-1	1/5/05	--	56 HY	160 L	--	--	--	--	--
B17-S-5.0-1	1/5/05	--	--	--	--	--	--	--	--
B18-S-2.0-1	1/5/05	--	--	--	--	--	--	--	--
B18-S-3.5-1	1/5/05	--	3.7 HY	27	--	--	--	--	--
B18-S-5.0-1	1/5/05	--	--	--	--	--	--	--	--
B19-S-2.0-1	1/5/05	--	--	220 L	--	--	--	--	--
B19-S-3.5-1	1/5/05	--	15 HY	53 L	--	--	--	--	--
B19-S-5.0-1	1/5/05	--	--	--	--	--	--	--	--
B20-S-2.0-1	1/5/05	--	--	--	--	--	--	--	--
B21-S-2.0-1	1/5/05	--	20 HYZ	53 L	--	--	--	--	--
B21-S-3.5-1	1/5/05	--	22 HY	92 L	--	--	--	--	--
B21-S-5.0-1	1/5/05	--	4.6 HY	26	--	--	--	--	--
B22-S-3.5-1	1/5/05	--	8.2 HY	24	--	--	--	--	--
B22-S-5.0-1	1/5/05	--	--	--	--	--	--	--	--
B25-S-2.0-1 *	1/5/05	--	--	--	--	--	--	--	--
B32-S-5-1**	7/6/04	<1.1	11 HY	22	<5.1	<5.1	<5.1	<5.1	<5.1
B34-S-2.0-1 ***	1/5/05	--	--	380 L	--	--	--	--	--
B37-S-2.0-1 ****	1/5/05	--	--	--	--	--	--	--	--
B42-S-3.5-1 *****	1/5/05	--	4.0 HY	21	--	--	--	--	--
ESLs		100	100	500	23	44	2,900	3,300	2,300
PRGs		N/A	N/A	N/A	32,000	640	520,000	400,000	270,000

Notes:

TPH-G = Total Petroleum Hydrocarbons as Gasoline analyzed by EPA Method 8015B
TPH-MO = Total Petroleum Hydrocarbons as Motor Oil analyzed by EPA Method 8015B
TPH-D = Total Petroleum Hydrocarbons as Diesel analyzed by EPA Method 8015B
BTEX = Benzene, Toluene, Ethylbenzene, and Total Xylenes analyzed by EPA Method 8260B
MTBE = Methyl Tertiary Butyl Ether analyzed by EPA Method 8260B
mg/kg = milligrams per kilogram
µg/kg = micrograms per kilogram
NA = Not Available
< = below laboratory reporting limits
-- = Not analyzed
PRGs = USEPA Preliminary Reporting Limits for Residential Use
ESLs = San Francisco Bay RWQCB Environmental Screening Levels for Residential Use - Shallow Soils (= 3 mbgs) - Where Groundwater is a current or potential source of drinking water (February 2005)
Shaded cells indicate concentrations reported greater than PRGs and/or ESLs
H indicates heavier hydrocarbons contributed to the quantitation
Y indicates the sample exhibits a chromatographic pattern which does not resemble standard
L indicates lighter hydrocarbons contributed to the quantitation
Z indicates the sample exhibits unknown single peak or peaks
* B5-S-2.0-1 DUPLICATE
**B2-S-5-1 DUPLICATE
*** B14-S-2.0-1 DUPLICATE
**** B17-S-2.0-1 DUPLICATE
***** B22-S-3.5-1 DUPLICATE

TABLE 4
SOIL SAMPLE LABORATORY ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS
1333-1379 62ND STREET
EMERYVILLE, CALIFORNIA

Sample ID.	Date	B1-S-2-1	B1-S-5-1	B2-S-2-1	B2-S-5-1	B3-S-2-1	B3-S-5-1	B32-S-5-1*	Residential ESLs	Residential PRGs
Analyte	µg/kg									
Freon 12	7/6/04	<13	<10	<10	<11	<11	<17	<10	---	---
Chloromethane	7/6/04	<13	<10	<10	<11	<11	<17	<10	70	47,000
Vinyl Chloride	7/6/04	<13	<10	<10	<11	<11	<17	<10	6.7	79
Bromomethane	7/6/04	<13	<10	<10	<11	<11	<17	<10	220	3,900
Chloroethane	7/6/04	<13	<10	<10	<11	<11	<17	<10	630	3,000
Trichlorofluoromethane	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	---	390,000
Acetone	7/6/04	31	<21	<20	<23	40	70	<20	500	1,400,000
Freon 113	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	---	5,600,000
1,1-Dichloroethene	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	1,000	120,000
Methylene Chloride	7/6/04	<25	<21	<20	<23	<23	<34	<20	77	9,100
Carbon Disulfide	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	---	360,000
MTBE	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	23	32,000
trans-1,2-Dichloroethene	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	670	69,000
Vinyl Acetate	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	---	430,000
1,1-Dichloroethane	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<17	<5.1	200	2,800
2-Butanone (MEK)	7/6/04	<13	<10	<10	<11	<11	<17	<10	3,900	22,000,000
cis-1,2-Dichloroethene	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	190	43,000
2,2-Dichloropropane	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	---	---
Chloroform	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	880	220
Bromochloromethane	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	14	---
1,1,1-Trichloroethane	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	7,800	1,200,000
1,1-Dichloropropene	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	---	---
Carbon Tetrachloride	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	12	250
1,2-Dichloroethane (EDC)	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	4.5	280
Benzene	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	44	640
Trichloroethene	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	260	53
1,2-Dichloropropane	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	51	340
Bromodichloromethane	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	14	820
Dibromomethane	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	0.33**	---
4-Methyl-2-Pentanone (MIBK)	7/6/04	<13	<10	<10	<11	<11	<17	<10	2,800	4,300,000
cis-1,3-Dichloropropene	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	33***	780***
Toluene	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	2,900	520,000
trans-1,3-Dichloropropene	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	33***	780***
1,1,2-Trichloroethane	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	32	730
2-Hexanone	7/6/04	<13	<10	<10	<11	<11	<17	<10	---	---
1,3-Dichloropropane	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	---	100,000
Tetrachloroethene	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	87	480
Dibromochloromethane	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	19	1,100
1,2-Dibromoethane	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	0.33	32
Chlorobenzene	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	1,500	150,000
1,1,1,2-Tetrachloroethane	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	24	3,200
Ethylbenzene	7/6/04	9.2	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	3,300	400,000

TABLE 4
SOIL SAMPLE LABORATORY ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS
1333-1379 62ND STREET
EMERYVILLE, CALIFORNIA

Sample I.D.	Date	B1-S-2-1	B1-S-5-1	B2-S-2-1	B2-S-5-1	B3-S-2-1	B3-S-5-1	B32-S-5-1*	Residential ESLs	Residential PRGs
Analyte		µg/kg								
m,p-Xylenes	7/6/04	50	<5.2	<5.1	<5.6	5.9	<8.4	<5.1	2300****	270000****
o-Xylene	7/6/04	12	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	2300****	270000****
Styrene	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	1,500	1,700,000
Bromoform	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	2,200	62,000
Isopropylbenzene	7/6/04	8.6	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	---	570,000
1,1,2,2-Tetrachloroethane	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	9.1	410
1,2,3-Trichloropropane	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	---	34
Propylbenzene	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	---	240,000
Bromobenzene	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	---	28,000
1,3,5-Trimethylbenzene	7/6/04	34	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	---	21,000
2-Chlorotoluene	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	---	---
4-Chlorotoluene	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	---	---
tert-Butylbenzene	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	---	390,000
1,2,4-Trimethylbenzene	7/6/04	64	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	---	52,000
sec-Butylbenzene	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	---	220,000
para-Isopropyl Toluene	7/6/04	7.8	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	---	N/A
1,3-Dichlorobenzene	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	7,400	530,000
1,4-Dichlorobenzene	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	46	3,400
n-Butylbenzene	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	---	240,000
1,2-Dichlorobenzene	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	1,100	600,000
1,2-Dibromo-3-Chloropropane	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	4.5	460
1,2,4-Trichlorobenzene	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	380	62,000
Hexachlorobutadiene	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	1,000	6,200
Naphthalene	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	460	56,000
1,2,3-Trichlorobenzene	7/6/04	<6.4	<5.2	<5.1	<5.6	<5.7	<8.4	<5.1	---	---

Notes:

ESLs = San Francisco Bay RWQCB Environmental Screening Levels for Residential Use - Shallow Soils= 3 mbgs) - Where Groundwater is a Current or Potential Source of Drinking Water (February 2005)

PRGs = USEPA Preliminary Reporting Limits for Residential Use

N/A = Not available

VOCs analyzed using EPA Method 8260F

µg/kg = micrograms per kilogram

< = below laboratory reporting limit

"---" = no published regulatory value

* B2-S-5-1 DUPLICATE

** = used 1,2-Dibromomethane as a surrogate

*** = used 1,3-Dichloropropene as a surrogate

**** = no published value for species of xylene - value provided for total xylenes

TABLE 5
SOIL SAMPLE LABORATORY ANALYTICAL RESULTS
METALS
1333-1379 62ND STREET
EMERYVILLE, CALIFORNIA

Sample I.D.	Date	ANALYTE (mg/kg)																
		Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
B1-S-2.0-1	7/6/04	<2.6		180	0.61	0.91			36		0.14	0.95	46	1.6	<0.22	<0.22	37	130
B1-S-5.0-1	7/6/04	<2.2		200	0.56	0.52	40		57	150	0.079	1.1	44	1.4	<0.18	<0.18	33	130
B2-S-2.0-1	7/6/04	<2.2	3.0	660	0.34	<0.18	14	0.76	15	7.0	0.048	<0.74	6.4	1.2	<0.18	<0.18	28	5.8
B2-S-5.0-1	7/6/04	<3.1	3.5	150	0.44	<0.26	27	8.8	12	5.6	0.15	<1.0	21	0.89	<0.26	<0.26	29	27
B7-S-5.0-1	7/6/04	<3.4		190	0.65	<0.29	28		13	6.4	0.052	<1.1	31	1.7	<0.29	<0.29	30	30
B5-S-2.0-1	1/5/05	--	--	--	--	--	24	--	--	6.3	--	--	--	--	--	--	--	--
B5-S-3.5-1	1/5/05	--	--	--	--	--	49	--	--	52	--	--	--	--	--	--	--	--
B5B-S-2.0-1	1/5/05	--	--	--	--	--		--	--		--	--	--	--	--	--	--	--
B5B-S-3.5-1	1/5/05	--	--	--	--	--	23	--	--	6.2	--	--	--	--	--	--	--	--
B6-S-2.0-1	1/5/05	--	--	--	--	--	32	--	--	72	--	--	--	--	--	--	--	--
B6-S-3.5-1	1/5/05	--	--	--	--	--	23	--	--	21	--	--	--	--	--	--	--	--
B7-S-2.0-1	1/5/05	--	--	--	--	--	23	--	--	85	--	--	--	--	--	--	--	--
B7-S-3.5-1	1/5/05	--	--	--	--	--	22	--	--	8.2	--	--	--	--	--	--	--	--
B8-S-2.0-1	1/5/05	--	--	--	--	--	22	--	--	11	--	--	--	--	--	--	--	--
B8-S-3.5-1	1/5/05	--	--	--	--	--	27	--	--		--	--	--	--	--	--	--	--
B8-S-5.0-1	1/5/05	--	--	--	--	--	27	--	--	2.8	--	--	--	--	--	--	--	--
B9-S-2.0-1	1/5/05	--	--	--	--	--	36	--	--	13	--	--	--	--	--	--	--	--
B9-S-3.5-1	1/5/05	--	--	--	--	--	32	--	--		--	--	--	--	--	--	--	--
B9-S-5.0-1	1/5/05	--	--	--	--	--	32	--	--	28	--	--	--	--	--	--	--	--
B10-S-2.0-1	1/5/05	--	--	--	--	--	26	--	--		--	--	--	--	--	--	--	--
B10-S-3.5-1	1/5/05	--	--	--	--	--	24	--	--	65	--	--	--	--	--	--	--	--
B11-S-2.0-1	1/5/05	--	--	--	--	--	29	--	--	14	--	--	--	--	--	--	--	--
B11-S-3.5-1	1/5/05	--	--	--	--	--	37	--	--	84	--	--	--	--	--	--	--	--
B12-S-2.0-1	1/5/05	--	--	--	--	--	35	--	--	4.4	--	--	--	--	--	--	--	--
B12-S-3.5-1	1/5/05	--	--	--	--	--	27	--	--	60	--	--	--	--	--	--	--	--
B13-S-2.0-1	1/4/05	--	--	--	--	--	18	--	--	76	--	--	--	--	--	--	--	--
B13-S-3.5-1	1/4/05	--	--	--	--	--	39	--	--	44	--	--	--	--	--	--	--	--
B14-S-2.0-1	1/5/05	--	--	--	--	--	27	--	--		--	--	--	--	--	--	--	--
B14-S-3.5-1	1/5/05	--	--	--	--	--	2.8	--	--	6.8	--	--	--	--	--	--	--	--
B15-S-2.0-1	1/5/05	--	--	--	--	--	26	--	--		--	--	--	--	--	--	--	--
B15-S-3.5-1	1/5/05	--	--	--	--	--	27	--	--	14	--	--	--	--	--	--	--	--
B16-S-2.0-1	1/4/05	--	--	--	--	--	7.2	--	--	2.9	--	--	--	--	--	--	--	--
B16-S-3.5-1	1/4/05	--	--	--	--	--	24	--	--	17	--	--	--	--	--	--	--	--
B17-S-2.0-1	1/4/05	--	--	--	--	--	19	--	--	22	--	--	--	--	--	--	--	--
B17-S-3.5-1	1/4/05	--	--	--	--	--	32	--	--	89	--	--	--	--	--	--	--	--
B18-S-2.0-1	1/5/05	--	--	--	--	--		--	--		--	--	--	--	--	--	--	--
B18-S-3.5-1	1/5/05	--	--	--	--	--	27	--	--	7.7	--	--	--	--	--	--	--	--
B19-S-2.0-1	1/4/05	--	--	--	--	--	33	--	--	2.9	--	--	--	--	--	--	--	--
B19-S-3.5-1	1/4/05	--	--	--	--	--	36	--	--	19	--	--	--	--	--	--	--	--
B20-S-2.0-1	1/4/05	--	--	--	--	--	34	--	--	8.0	--	--	--	--	--	--	--	--
B21-S-2.0-1	1/4/05	--	--	--	--	--	45	--	--	28	--	--	--	--	--	--	--	--
B21-S-3.5-1	1/4/05	--	--	--	--	--	37	--	--	18	--	--	--	--	--	--	--	--
B22-S-3.5-1	1/5/05	--	--	--	--	--	34	--	--	46	--	--	--	--	--	--	--	--
B25-S-2.0-1 *	1/5/05	--	--	--	--	--		--	--		--	--	--	--	--	--	--	--
B32-S-5.0-1**	7/6/04	<3.4		190	0.65	<0.29	28		13	6.4	0.052	<1.1	31	1.7	<0.29	<0.29	30	30

TABLE 5
SOIL SAMPLE LABORATORY ANALYTICAL RESULTS
METALS
1333-1379 62ND STREET
EMERYVILLE, CALIFORNIA

Sample I.D.	Date	ANALYTE (mg/kg)															
		Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium
B34-S-2.0-1 ***	1/5/05	--	--	--	--	--	27	--	--	52	--	--	--	--	--	--	--
B37-S-2.0-1 ****	1/4/05	--	--	--	--	--	36	--	--	4.5	--	--	--	--	--	--	--
B42-S-3.5-1 *****	1/5/05	--	--	--	--	--	22	--	--	13	--	--	--	--	--	--	--
Residential ESLs		6.1	5.5	750	4.0	1.7	58	10	230	150	3.7	40	150	10	20	1.0	110
PRGs		31	6.2	5,400	150	37	210	900	3,100	150**	23	390	1,600	390	390	5.2	78

Notes:

PRGs = USEPA Preliminary Reporting Limits for Residential Use

ESLs = San Francisco Bay RWQCB Environmental Screening Levels for Residential Use - Shallow Soils (= 3 mbgs) - Where Groundwater is a current or potential source of drinking water (February 2005)

CAM 17 Metals analyzed using EPA Method 6010B

Mercury analyzed using EPA Method 7471

all concentrations given in milligrams per kilograms

< = below laboratory reporting limit

Shaded cells indicate concentrations reported greater than PRGs and/or ESLs

150** Cal-modified

* B5-S-2-1 DUPLICATE

** B2-S-5-1 DUPLICATE

*** B14-S-2-1 DUPLICATE

**** B17-S-2-1 DUPLICATE

*****B22-S-2-1 DUPLICATE

TABLE 6
SOIL SAMPLE LABORATORY ANALYTICAL RESULTS
SEMI-VOLATILE ORGANIC COMPOUNDS
1333-1379 62ND STREET
EMERYVILLE, CALIFORNIA

Analyte	SAMPLE NUMBER					Residential ESLs	Residential PRGs
	B1-S-2-1 *	B1-S-5-1 *	B2-S-2-1 *	B2-S-5-1 *	B32-S-5-1*		
N-Nitrosodimethylamine	<400	<390	<370	<410	<380	---	10
Phenol	<400	<390	<370	<410	<380	76	37,000,000
bis(2-Chloroethyl)ether	<400	<390	<370	<410	<380	---	210
2-Chlorophenol	<400	<390	<370	<410	<380	12	63,000
1,3-Dichlorobenzene	<400	<390	<370	<410	<380	720	16,000
1,4-Dichlorobenzene	<400	<390	<370	<410	<380	47	3,400
Benzyl alcohol	<400	<390	<370	<410	<380	---	18,000,000
1,2-Dichlorobenzene	<400	<390	<370	<410	<380	10,000	370,000
2-Methylphenol	<400	<390	<370	<410	<380	---	3,100
bis(2-Chloroisopropyl) ether	<400	<390	<370	<410	<380	---	2,900
4-Methylphenol	<400	<390	<370	<410	<380	---	310,000
N-Nitroso-di-n-propylamine	<400	<390	<370	<410	<380	---	69
Hexachloroethane	<400	<390	<370	<410	<380	2,400	35,000
Nitrobenzene	<400	<390	<370	<410	<380	---	20,000
Isophorone	<400	<390	<370	<410	<380	---	510,000
2-Nitrophenol	<800	<780	<740	<810	<750	---	--
2,4-Dimethylphenol	<400	<390	<370	<410	<380	670	1,200,000
Benzoic acid	<2,000	<1,900	<1,800	<2,000	<1,900	---	100,000,000
bis(2-Chloroethoxy)methane	<400	<390	<370	<410	<380	---	--
2,4-Dichlorophenol	<400	<390	<370	<410	<380	30	180,000
1,2,4-Trichlorobenzene	<400	<390	<370	<410	<380	7,600	650,000
Naphthalene	<80	<78	<74	<81	<75	4,200	56,000
4-Chloroaniline	<400	<390	<370	<410	<380	---	240,000
Hexachlorobutadiene	<400	<390	<370	<410	<380	1,000	6,200
4-Chloro-3-methylphenol	<400	<390	<370	<410	<380	---	--
2-Methylnaphthalene	<80	<78	<74	<81	<75	250	--
Hexachlorocyclopentadiene	<2,000	<1,900	<1,800	<2,000	<1,900	---	370,000
2,4,6-Trichlorophenol	<400	<390	<370	<410	<380	170	6,100
2,4,5-Trichlorophenol	<400	<390	<370	<410	<380	180	6,100,000
2-Chloronaphthalene	<400	<390	<370	<410	<380	---	--
2-Nitroaniline	<800	<780	<740	<810	<750	---	1,700
Dimethylphthalate	<400	<390	<370	<410	<380	35	100,000,000
Acenaphthylene	<80	<78	<74	<81	<75	13,000	--
2,6-Dinitrotoluene	<400	<390	<370	<410	<380	---	61,000
3-Nitroaniline	<800	<780	<740	<810	<750	---	--
Acenaphthene	<80	<78	<74	<81	<75	16,000	3,700,000
2,4-Dinitrophenol	<2,000	<1,900	<1,800	<2,000	<1,900	40	120,000
4-Nitrophenol	<800	<780	<740	<810	<750	---	--
Dibenzofuran	<400	<390	<370	<410	<380	---	290,000
2,4-Dinitrotoluene	<400	<390	<370	<410	<380	0.85	120,000
Diethylphthalate	<400	<390	<370	<410	<380	35	49,000,000
Fluorene	<80	<78	<74	<81	<75	8,900	2,700,000
4-Chlorophenyl-phenylether	<400	<390	<370	<410	<380	---	--
4-Nitroaniline	<800	<780	<740	<810	<750	---	--
4,6-Dinitro-2-methylphenol	<2,000	<1,900	<1,800	<2,000	<1,900	---	--
N-Nitrosodiphenylamine	<400	<390	<370	<410	<380	---	99,000
Azobenzene	<400	<390	<370	<410	<380	---	4,400
4-Bromophenyl-phenylether	<400	<390	<370	<410	<380	---	--
Hexachlorobenzene	<400	<390	<370	<410	<380	270	300
Pentachlorophenol	<800	<780	<740	<810	<750	4,400	3,000
Phenanthrene	<80	<78	<74	<81	<75	11,000	---
Anthracene	<80	<78	<74	<81	<75	2,800	22,000,000
Di-n-butylphthalate	<400	<390	<370	<410	<380	---	---
Fluoranthene	160	120	<74	<81	<75	40,000	2,300,000
Pyrene	190	160	<74	<81	<75	85,000	2,300,000
Burylbenzylphthalate	<400	<390	<370	<410	<380	---	12,000,000
3,3'-Dichlorobenzidine	<800	<780	<740	<810	<750	7.7	1,100
Benzo(a)anthracene	<80	<78	<74	<81	<75	380	620
Chrysene	100	96	<74	<81	<75	3,800	62,000
bis(2-Ethylhexyl)phthalate	<400	<390	<370	<410	<380	66,000	35,000
Di-n-octylphthalate	<400	<390	<370	<410	<380	---	2,400,000
Benzo(b)fluoranthene	200	200	<74	<81	<75	380	620
Benzo(k)fluoranthene	98	94	<74	<81	<75	380	620
Benzo(a)pyrene	84	90	<74	<81	<75	38	62

TABLE 6
SOIL SAMPLE LABORATORY ANALYTICAL RESULTS
SEMI-VOLATILE ORGANIC COMPOUNDS
1333-1379 62ND STREET
EMERYVILLE, CALIFORNIA

Analyte	SAMPLE NUMBER					Residential ESLs	Residential PRGs
	B1-S-2-1 ‡	B1-S-5-1 ‡	B2-S-2-1 ‡	B2-S-5-1 ‡	B32-S-5-1*		
Indeno(1,2,3-cd)pyrene	<80	<78	<74	<81	<75	380	620
Dibenz(a,h)anthracene	<80	<78	<74	<81	<75	110	62
Benzo(g,h,i)perylene	<80	<78	<74	<81	<75	27,000	---

Notes:

PRGs = USEPA Preliminary Reporting Limits for Residential Use (October 1991)

ESLs = San Francisco Bay RWQCB Environmental Screening Levels for Residential Use - Shallow Soils (3 mbgs) - Where Groundwater is a current or potential source of drinking water (February 2005)

SVOCs analyzed using EPA Method 8270C

‡ analyzed using EPA Method 8270C-SIM

µg/kg = micrograms per kilograms

< = below laboratory reporting limit

* B2-S-5-1 DUPLICATE

TABLE 7
SOIL SAMPLE LABORATORY ANALYTICAL RESULTS
POLYNUCLEAR AROMATICS HYDROCARBONS (PAHs)
1333-1379 62ND STREET
EMERYVILLE, CALIFORNIA

Sample I.D.	Date	Naphthalene (µg/kg)	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(e)pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene	Benzo(g,h,i)perylene
B5-S-2.0-1	1/5/05	<150	<150	<150	470	1,500	<150	<150	270	<150	<150	<150	<150	<150	<150	<150	<150
B5-S-3.5-1	1/5/05	13	12	13	13	560	44	39	69	10	36	6.4	<6.1	<6.1	<6.1	<6.1	<6.1
B5B-S-2.0-1	1/5/05	<30	<30	<30	<30	74	<30	83	89	54	100	68	58	57	<30	75	<6.1
B5B-S-3.5-1	1/5/05	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
B6-S-2.0-1	1/5/05	<27	<27	<27	<27	45	<27	<27	<27	<27	<27	<27	<27	<27	<27	<27	<27
B6-S-3.5-1	1/5/05	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
B7-S-2.0-1	1/5/05	<5.7	<5.7	<5.7	<5.7	7.2	<5.7	12	15	7.3	9.7	9.9	8.8	11	<5.7	<5.7	<5.7
B7-S-3.5-1	1/5/05	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8
B8-S-2.0-1	1/5/05	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7	<5.7
B8-S-3.5-1	1/5/05	<6.2	<6.2	<6.2	<6.2	67	7.6	29	43	15	33	36	15	19	7.7	<6.2	11
B9-S-2.0-1	1/5/05	<82	<82	<82	<82	2,400	2,600	<82	120	<82	130	<82	<82	<82	<82	<82	<82
B9-S-3.5-1	1/5/05	<5.8	7.1	<5.8	<5.8	58	10	7.5	79	47	74	41	55	16	11	18	<6.1
B9-S-5.0-1	1/5/05	<61	<61	<61	<61	640	<61	120	230	<61	150	<61	<61	<61	<61	<61	<61
B10-S-2.0-1	1/5/05	<6.0	<6.0	<6.0	<6.0	20	<6.0	23	28	12	23	17	15	24	10	<6.0	16
B10-S-3.5-1	1/5/05	<150	<150	<150	<150	540	<150	<150	370	<150	330	<150	<150	<150	<150	<150	<150
B10-S-5.0-1	1/5/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B11-S-2.0-1	1/5/05	<270	<270	<270	<270	350	<270	<270	320	<270	<270	<270	<270	<270	<270	<270	<270
B11-S-3.5-1	1/5/05	<56	<56	<56	<56	<56	<56	<56	<56	<56	<56	<56	<56	<56	<56	<56	77
B11-S-5.0-1	1/5/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B12-S-2.0-1	1/5/05	<310	<310	<310	310	2,800	<310	<310	<310	<310	<310	<310	<310	<310	<310	<310	<310
B12-S-3.5-1	1/5/05	<58	<58	<58	<58	<58	<58	<58	<58	<58	<58	<58	<58	<58	<58	<58	<58
B13-S-2.0-1	1/4/05	9.4	8.0	<6.0	<6.0	43	<6.0	68	76	26	33	56	14	44	11	51	<6.0
B13-S-3.5-1	1/4/05	<430	1,600	<430	500	1,700	26,000	29,000	21,000	32	29	20	38	31	<6.2	44	14,000
B13-S-5.0-1	1/4/05	<6.2	<6.2	<6.2	<6.2	30	<6.2	72	83	21	32	29	20	38	31	<6.2	44
B14-S-2.0-1	1/5/05	7.4	11	<6.8	<6.8	55	14	110	100	72	78	77	68	65	24	85	<6.0
B14-S-3.5-1	1/5/05	7.5	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
B15-S-2.0-1	1/5/05	7.5	26	<5.8	<5.8	67	14	240	340	120	170	260	190	160	32	180	<6.0
B15-S-3.5-1	1/5/05	<6.0	<6.0	<6.0	<6.0	6.2	<6.0	9.7	12	<6.0	7.3	6.1	<6.0	6.3	<6.0	<6.0	<6.0
B16-S-2.0-1	1/4/05	<6.0	<6.0	<6.0	<6.0	17	<6.0	<6.0	<6.0	<6.0	<6.0	6.3	<6.0	<6.0	<6.0	<6.0	<6.0

TABLE 7
SOIL SAMPLE LABORATORY ANALYTICAL RESULTS
POLYNUCLEAR AROMATICS HYDROCARBONS (PAHs)
1333-1379 62ND STREET
EMERYVILLE, CALIFORNIA

Sample I.D.	Date	Naphthalene (µg/kg)	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene	Benzo(g,h,i)perylene
B16-S-3.5-1	1/4/05	190	180	<6.1	46	1,300	59	1,100	1,200	170	310	240	190		220	48	260
B16-S-5.0-1	1/4/05	<6.1	<6.1	<6.1	<6.1	9.6	<6.1	13	14	<6.1	8.3	6.2	<6.1	7.5	<6.1	<6.1	7.8
B17-S-2.0-1	1/4/05	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
B17-S-3.5-1	1/4/05	16	13	<6.0	<6.0	32	6.5	69	81	32	44	83	23		66	14	77
B17-S-5.0-1	1/4/05	<6.1	<6.1	<6.1	<6.1	21	<6.1	33	30	15	19	16	10	17	10	<6.1	12
B18-S-2.0-1	1/5/05	7	<5.3	<5.3	<5.3	36	<5.3	9.9	15	<5.3	14	<5.3	17	8.7	<5.3	<5.3	7.6
B18-S-3.5-1	1/5/05	<5.9	<5.9	<5.9	<5.9	15	<5.9	24	27	11	16	11	11	14	9.5	<5.9	11
B19-S-2.0-1	1/4/05	<110	<110	<110	<110	130	<110	<110	<110	<110	<110	<110	<110	<110	<110	<110	<110
B19-S-3.5-1	1/4/05	<6.3	<6.3	<6.3	<6.3	16	<6.3	26	29	11	17	14	13	17	15	<6.3	21
B20-S-2.0-1	1/4/05	<140	<140	<140	<140	2,000	<140	160	190	<140	200	<140	<140	<140	<140	<140	<140
B21-S-2.0-1	1/4/05	20	<5.8	<5.8	<5.8	10	<5.8	19	25	9	15	21	<5.8	20	18	6.5	19
B21-S-3.5-1	1/4/05	110	<5.6	9.3	<5.6	<5.6	<5.6	7.3	8.4	<5.6	6.1	9.7	<5.6	7.7	<5.6	<5.6	<5.6
B21-S-5.0-1	1/4/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B22-S-3.5-1	1/5/05	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8
B25-S-2.0-1 *	1/5/05	<120	<120	190	1,900	5,600	220	310	720	<120	380	<120	<120	<120	<120	<120	<120
B34-S-2.0-1 **	1/5/05	12	46	<5.7	<5.7	150	30	630	810	240	320	340	310		270	57	320
B37-S-2.0-1 ***	1/4/05	<56	<56	<56	<56	130	<56	<56	<56	<56	<56	<56	<56	<56	<56	<56	<56
B42-S-3.5-1 ****	1/5/05	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	7.5	8.5	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1	<6.1
Residential ESLs		460	—	—	8,900	11,000	2,800	40,000	85,000	380	3,800	380	380	38	380	110	27,000
Residential PRGs		56,000	—	3,700,000	2,700,000	—	22,000,000	2,300,000	2,300,000	620	62,000	620	6,200	62	620	62	—

Notes:

PRGs = USEPA Preliminary Reporting Limits for Residential Use (october 2004)

SVOCs analyzed using EPA Method 8270C

* analyzed using EPA Method 8270C-SIM

µg/kg = micrograms per kilograms

< = below laboratory reporting limit

* B5-S-2-1 DUPLICATE

** B14-S-2-1 DUPLICATE

*** B17-S-2-1 DUPLICATE

**** B22-S-2-1 DUPLICATE

ESLs = San Francisco Bay RWQCB Environmental Screening Levels for Residential Use - Shallow Soils (= 3 mbgs) - Where Groundwater is a current or potential source of drinking water (February 2005)

Shaded cells indicate concentrations reported greater than PRGs and/or ESLs

TABLE 8
SOIL SAMPLE LABORATORY ANALYTICAL RESULTS
POLYCHLORINATED BIPHENYLS (PCBs)
1333-1379 62ND STREET
EMERYVILLE, CALIFORNIA

Sample I.D.	Date	Aroclor-1016 (µg/kg)	Aroclor-1221 (µg/kg)	Aroclor-1232 (µg/kg)	Aroclor-1242 (µg/kg)	Aroclor-1248 (µg/kg)	Aroclor-1254 (µg/kg)	Aroclor-1260 (µg/kg)
B1-S-2-1	7/6/04	<12	<24	<12	<12	<12	<12	32
B1-S-5-1	7/6/04	<11	<22	<11	<11	<11	<11	51
B2-S-2-1	7/6/04	<10	<21	<10	<10	<10	<10	11
B2-S-5-1	7/6/04	<12	<23	<12	<12	<12	<12	<12
B7-S-5-1	7/6/04	<11	<22	<11	<11	<11	<11	<11
B5-S-2-1	1/5/05	---	---	---	---	---	---	---
B5-S-3.5-1	1/5/05	---	---	---	---	---	---	---
B5B-S-2-1	1/5/05	---	---	---	---	---	---	---
B5B-S-3.5-1	1/5/05	---	---	---	---	---	---	---
B6-S-2-1	1/5/05	<10	<21	<10	<10	<10	<10	<10
B6-S-3.5-1	1/5/05	<11	<23	<11	<11	<11	<11	<11
B7-S-2-1	1/5/05	---	---	---	---	---	---	---
B7-S-3.5-1	1/5/05	---	---	---	---	---	---	---
B8-S-2-1	1/5/05	<11	<22	<11	<11	<11	<11	<11
B8-S-3.5-1	1/5/05	<12	<24	<12	<12	<12	<12	<12
B9-S-2-1	1/5/05	---	---	---	---	---	---	---
B9-S-3.5-1	1/5/05	---	---	---	---	---	---	---
B10-S-2-1	1/5/05	---	---	---	---	---	---	---
B10-S-3.5-1	1/5/05	---	---	---	---	---	---	---
B11-S-2-1	1/5/05	<11	<21	<11	<11	<11	33	40
B11-S-3.5-1	1/5/05	<11	<22	<11	<11	<11	53	29
B12-S-2-1	1/5/05	---	---	---	---	---	---	---
B12-S-3.5-1	1/5/05	---	---	---	---	---	---	---
B13-S-2-1	1/4/05	---	---	---	---	---	---	---
B13-S-3.5-1	1/4/05	---	---	---	---	---	---	---
B14-S-2-1	1/5/05	---	---	---	---	---	---	---
B14-S-3.5-1	1/5/05	---	---	---	---	---	---	---
B15-S-2-1	1/5/05	---	---	---	---	---	---	---
B15-S-3.5-1	1/5/05	---	---	---	---	---	---	---
B16-S-2-1	1/4/05	---	---	---	---	---	---	---
B16-S-3.5-1	1/4/05	---	---	---	---	---	---	---
B17-S-2-1	1/4/05	---	---	---	---	---	---	---
B17-S-3.5-1	1/4/05	---	---	---	---	---	---	---
B19-S-2-1	1/4/05	<11	<22	<11	<11	<11	<11	<11
B19-S-3.5-1	1/4/05	<12	<24	<12	<12	<12	<12	<12
B20-S-2-1	1/4/05	---	---	---	---	---	---	---
B21-S-2-1	1/4/05	<11	<23	<11	<11	<11	<11	<11
B21-S-3.5-1	1/4/05	<11	<22	<11	<11	<11	<11	<11
B22-S-3.5-1	1/5/05	---	---	---	---	---	---	---
B25-S-2-1 *	1/5/05	---	---	---	---	---	---	---
B32-S-5.0-1**	7/15/04	<11	<22	<11	<11	<11	<11	<11
B34-S-2-1 ***	1/5/05	---	---	---	---	---	---	---

TABLE 8
SOIL SAMPLE LABORATORY ANALYTICAL RESULTS
POLYCHLORINATED BIPHENYLS (PCBs)
1333-1379 62ND STREET
EMERYVILLE, CALIFORNIA

Sample I.D.	Date	Aroclor-1016 (µg/kg)	Aroclor-1221 (µg/kg)	Aroclor-1232 (µg/kg)	Aroclor-1242 (µg/kg)	Aroclor-1248 (µg/kg)	Aroclor-1254 (µg/kg)	Aroclor-1260 (µg/kg)
B37-S-2-1 *****	1/4/05	---	---	---	---	---	---	---
B42-S-3.5-1 *****	1/5/05	---	---	---	---	---	---	---
Residential ESLs		220	220	220	220	220	220	220
PRGs		3,900	220	220	220	220	220	220

Notes:

PCBs analyzed using EPA Method 8082

µg/kg = micrograms per kilogram

< = below laboratory reporting limit

PRGs = USEPA Preliminary Reporting Limits for Residential Use

ESLs = San Francisco Bay RWQCB Environmental Screening Levels for Residential Use - Shallow Soils (6 mbgs) - Where Groundwater is a current or potential source of drinking water (February 2005)

"---" = not analyzed

* B5-S-2-1 DUPLICATE

**B2-S-5-1 Duplicate

*** B14-S-2-1 DUPLICATE

**** B17-S-2-1 DUPLICATE

***** B22-S-2-1 DUPLICATE

TABLE 9
GROUNDWATER SAMPLE LABORATORY ANALYTICAL RESULTS
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE, DIESEL AND MOTOR OIL, BTEX AND MTBE
1333-1379 62ND STREET
CITY OF EMERYVILLE, CALIFORNIA

Boring I.D.	Date	TPH-G (mg/L)	TPH-D (mg/L)	TPH-MO (mg/L)	MTBE (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- Benzene (µg/L)	Total Xylenes (µg/L)
B3-GW-1	7/6/04	<50	<50	<300	<5.0	<5.0	<5.0	<5.0	<5.0
B4-GW-1	7/6/04	--	--	--	<5.0	<5.0	<5.0	<5.0	<5.0
B5B-GW-1	1/5/05	<50	--	--	<5.0	<5.0	<5.0	<5.0	<5.0
*B32-GW-1	7/6/04	<50	<50	<300	<5.0	<5.0	<5.0	<5.0	<5.0
**B35-GW-1	7/6/04	<50	<50	<300	<5.0	<5.0	<5.0	<5.0	<5.0
**B50-GW-1	1/5/05	--	<50	<300	--	--	--	--	--
ESLs		100	100	100	5.0	1.0	40	30	20
MCLs		N/A	N/A	N/A	13	1.0	150	300	1,750

Notes:

TPH-G = Total Petroleum Hydrocarbons as Gasoline analyzed by EPA Method 8015.

TPH-MO = Total Petroleum Hydrocarbons as Motor Oil analyzed by EPA Method 8015.

TPH-D = Total Petroleum Hydrocarbons as Diesel analyzed by EPA Method 8015.

BTEX = Benzene, Toluene, Ethylbenzene, and Total Xylenes analyzed by EPA Method 826

MTBE = Methyl Tertiary Butyl Ether analyzed by EPA Method 826

mg/L = milligrams per liter

µg/L = micrograms per liter

< = below laboratory reporting limits

-- = Not analyzed

ESLs = San Francisco Bay RWQCB Environmental Screening Levels - Shallow Soils = 3 mbgs) - Where Groundwater is a Current or Potential Source of Drinking Water (February 2005)

MCLs = Maximum Contaminant Levels for drinking water

N/A = Not available

Shaded cells indicate concentrations reported greater than ESLs and/or MCLs

* = Duplicate of B3-GW-1

** = Equipment Blank Sample

TABLE 10
GROUNDWATER SAMPLE LABORATORY ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS
1333-1379 62ND STREET
EMERYVILLE, CALIFORNIA

	Sample I.D.					ESLs	MCLs
	B3-GW-1	B4-GW-1	B5B-GW-1	*B32-GW-1	**B35-GW-1		
Date	7/6/04	7/6/04	1/5/2005	7/6/04	7/6/04		
Analyte (µg/L)							
Freon 12	<10	<10	<10	<10	<10	---	---
Chloromethane	<10	<10	<10	<10	<10	2.7	---
Vinyl Chloride	<10	<10	<10	<10	<10	0.5	0.5
Bromomethane	<10	<10	<10	<10	<10	9.8	---
Chloroethane	<10	<10	<10	<10	<10	12	---
Trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0	<5.0	---	150
Acetone	<20	<20	<20	<20	<20	1500	---
Freon 113	<5.0	<5.0	<5.0	<5.0	<5.0	---	---
1,1-Dichloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	6.0	6.0
Methylene Chloride	<20	<20	<20	<20	<20	5.0	---
Carbon Disulfide	<5.0	<5.0	<5.0	<5.0	<5.0	---	---
MTBE	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	13
trans-1,2-Dichloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	10	---
Vinyl Acetate	<50	<50	<50	<50	<50	---	---
1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	5
2-Butanone (MEK)	<10	<10	18	<10	<10	4200	---
cis-1,2-Dichloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	6.0	---
2,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	<5.0	---	---
Chloroform	<5.0	<5.0	<5.0	<5.0	<5.0	70	---
Bromo-chloromethane	<10	<10	<10	<10	<10	100	---
1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	62	---
1,1-Dichloropropene	<5.0	<5.0	<5.0	<5.0	<5.0	---	---
Carbon Tetrachloride	<5.0	<5.0	<5.0	<5.0	<5.0	0.5	0.5
1,2-Dichloroethane (EDC)	<5.0	<5.0	<5.0	<5.0	<5.0	0.5	0.5
Benzene	<5.0	<5.0	<5.0	<5.0	<5.0	1.0	1.0
Trichloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	5
1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	5
Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	<5.0	100	---
Dibromomethane	<5.0	<5.0	<5.0	<5.0	<5.0	---	---
4-Methyl-2-Pentanone (MIBK)	<10	<10	<10	<10	<10	---	---
cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	<5.0	---	---
Toluene	<5.0	<5.0	<5.0	<5.0	<5.0	40	150
trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	<5.0	---	---
1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	5
2-Hexanone	<10	<10	<10	<10	<10	---	---
1,3-Dichloropropane	<5.0	<5.0	<5.0	<5.0	<5.0	---	---
Tetrachloroethene	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	5
Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	<5.0	---	---

TABLE 10
GROUNDWATER SAMPLE LABORATORY ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS
1333-1379 62ND STREET
EMERYVILLE, CALIFORNIA

	Sample I.D.					ESLs	MCLs
	B3-GW-1	B4-GW-1	B5B-GW-1	*B32-GW-1	**B35-GW-1		
Date	7/6/04	7/6/04	1/5/2005	7/6/04	7/6/04		
Analyte (µg/L)							
1,2-Dibromoethane	<5.0	<5.0	<5.0	<5.0	<5.0	0.05	---
Chlorobenzene	<5.0	<5.0	<5.0	<5.0	<5.0	25	---
1,1,1,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	1.3	---
Ethylbenzene	<5.0	<5.0	<5.0	<5.0	<5.0	30	300
m,p-Xylenes	<5.0	<5.0	<5.0	<5.0	<5.0	20***	---
o-Xylene	<5.0	<5.0	<5.0	<5.0	<5.0	20***	---
Styrene	<5.0	<5.0	<5.0	<5.0	<5.0	10	100
Bromoform	<5.0	<5.0	<5.0	<5.0	<5.0	100	---
Isopropylbenzene	<5.0	<5.0	<5.0	<5.0	<5.0	---	---
1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	1.0	1
1,2,3-Trichloropropane	<5.0	<5.0	<5.0	<5.0	<5.0	---	---
Propylbenzene	<5.0	<5.0	<5.0	<5.0	<5.0	---	---
Bromobenzene	<5.0	<5.0	<5.0	<5.0	<5.0	---	---
1,3,5-Trimethylbenzene	<5.0	<5.0	<5.0	<5.0	<5.0	---	---
2-Chlorotoluene	<5.0	<5.0	<5.0	<5.0	<5.0	---	---
4-Chlorotoluene	<5.0	<5.0	<5.0	<5.0	<5.0	---	---
tert-Butylbenzene	<5.0	<5.0	<5.0	<5.0	<5.0	---	---
1,2,4-Trimethylbenzene	<5.0	<5.0	<5.0	<5.0	<5.0	---	---
sec-Butylbenzene	<5.0	<5.0	<5.0	<5.0	<5.0	---	---
para-Isopropyl Toluene	<5.0	<5.0	<5.0	<5.0	<5.0	---	---
1,3-Dichlorobenzene	<5.0	<5.0	<5.0	<5.0	<5.0	65	---
1,4-Dichlorobenzene	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	5
n-Butylbenzene	<5.0	<5.0	<5.0	<5.0	<5.0	---	---
1,2-Dichlorobenzene	<5.0	<5.0	<5.0	<5.0	<5.0	10	600
1,2-Dibromo-3-Chloropropane	<5.0	<5.0	<5.0	<5.0	<5.0	---	---
1,2,4-Trichlorobenzene	<5.0	<5.0	<5.0	<5.0	<5.0	25	5
Hexachlorobutadiene	<5.0	<5.0	<5.0	<5.0	<5.0	---	---
Naphthalene	<5.0	<5.0	<5.0	<5.0	<5.0	17	---
1,2,3-Trichlorobenzene	<5.0	<5.0	<5.0	<5.0	<5.0	---	---

Notes:

µg/L = micrograms per liter

< = below laboratory reporting limits

-- = Not available

ESLs = San Francisco Bay RWQCB Environmental Screening Levels - Shallow Soils (3 mbgs) - Where Groundwater is a current or potential source of drinking water (February 2005)

MCLs = Maximum Contaminant Levels for drinking water

Shaded cells indicate concentrations reported greater than ESLs and/or MCLs

VOCs analyzed using EPA Method 8260B

* = Duplicate of B3-GW-1

** = Equipment Blank Sample

*** = no published value for species of xylene - value provided for total xylenes

TABLE 11
GROUNDWATER SAMPLE LABORATORY ANALYTICAL RESULTS
METALS
1333-1379 62ND STREET
EMERYVILLE, CALIFORNIA

Sample I.D.	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
B3-GW-1	7/6/04	<60	<5	120	<2	<5	<10	<20	<10	<3	<0.2	<20		<5	<5	<5	<10	<20
*B32-GW-1	7/6/04	<60	5.2	110	<2	<5	<10	<20	<10	<3	<0.2	<20		<5	<5	<5	<10	<20
**B35-GW-1	7/6/04	<60	<5	<10	<2	<5	<10	<20	<10	<3	<0.2	<20	<20	<5	<5	<5	<10	<20
**B50-GW-1	1/5/05	--	--	--	--	--	<10	--	--	<3.0	--	--	--	--				
ESLs		6.0	5.5	1,000	2.7	2.2	50	3.0	3.1	2.5	0.012	35	8.2	5.0	0.19	2.0	15	81
MCLs		6.0	50	1,000	4.0	5.0	50	N/A	N/A	N/A	2.0	N/A	100	50	N/A	2.0	N/A	N/A

Notes:

CAM 17 Metals analyzed using EPA Method 6010B

Mercury analyzed using EPA Method 7471

All concentrations are given in micrograms per liter

< = below laboratory reporting limits

-- = Not analyzed

N/A = Not applicable

ESLs = San Francisco Bay RWQCB Environmental Screening Levels - Shallow Soils (= 3 mbgs) - Where Groundwater is a current or potential source of drinking water (February 2005)

MCLs = Maximum Contaminant Levels for drinking water

Shaded cells indicate concentrations reported greater than ESLs and/or MCLs

* = Duplicate of B3-GW-1

** = Equipment Blank Sample



2400 0 2400 4800
Approximate Scale in Feet



REFERENCE: 1998 THOMAS BROTHERS FOR ALAMEDA AND CONTRA COSTA COUNTIES, STREET GUIDE AND DIRECTORY.

Ninyo & Moore

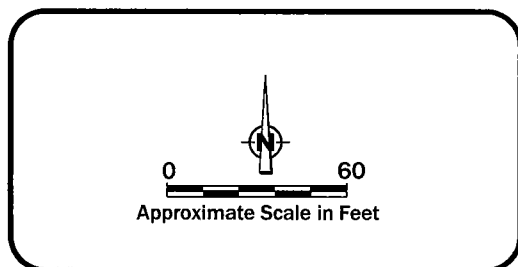
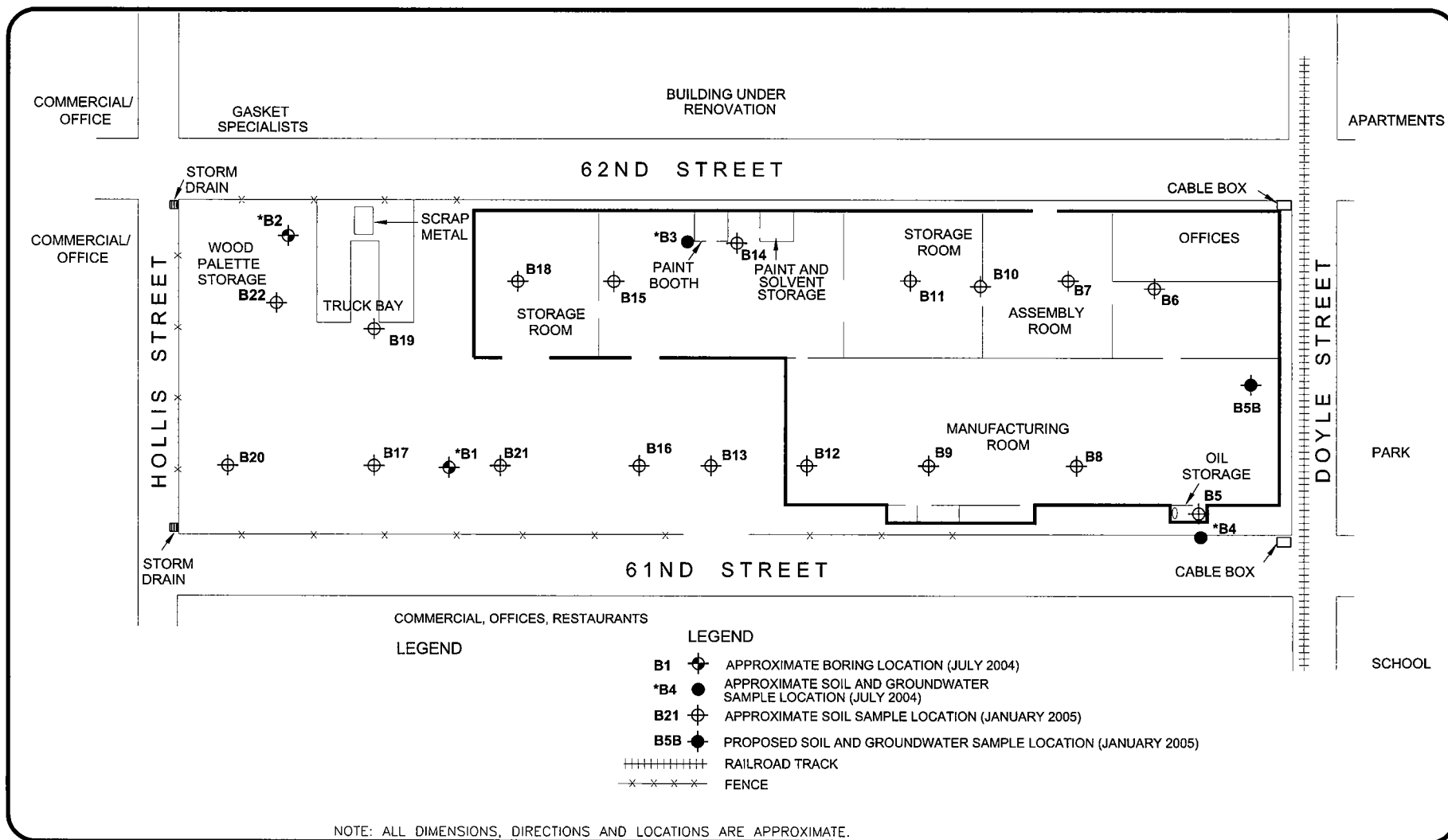
SITE LOCATION MAP

CITY OF EMERYVILLE REDEVELOPMENT AGENCY
1333-1379 62ND STREET
EMERYVILLE, CALIFORNIA

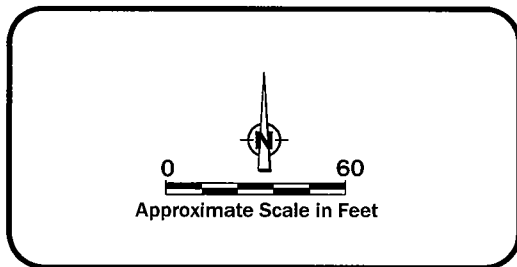
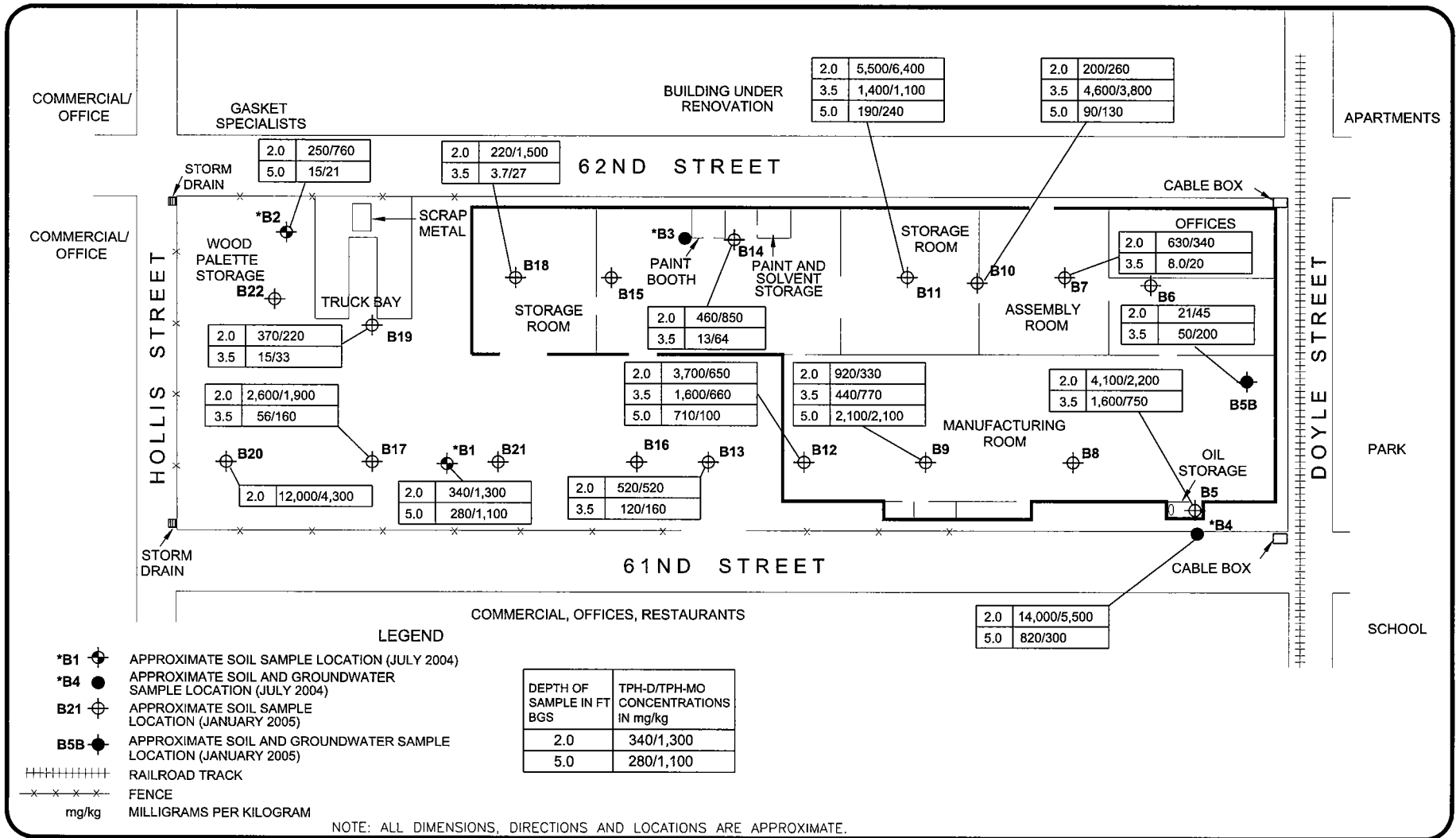
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400582002

DATE
3/2005

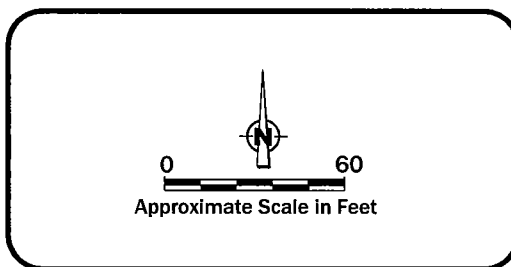
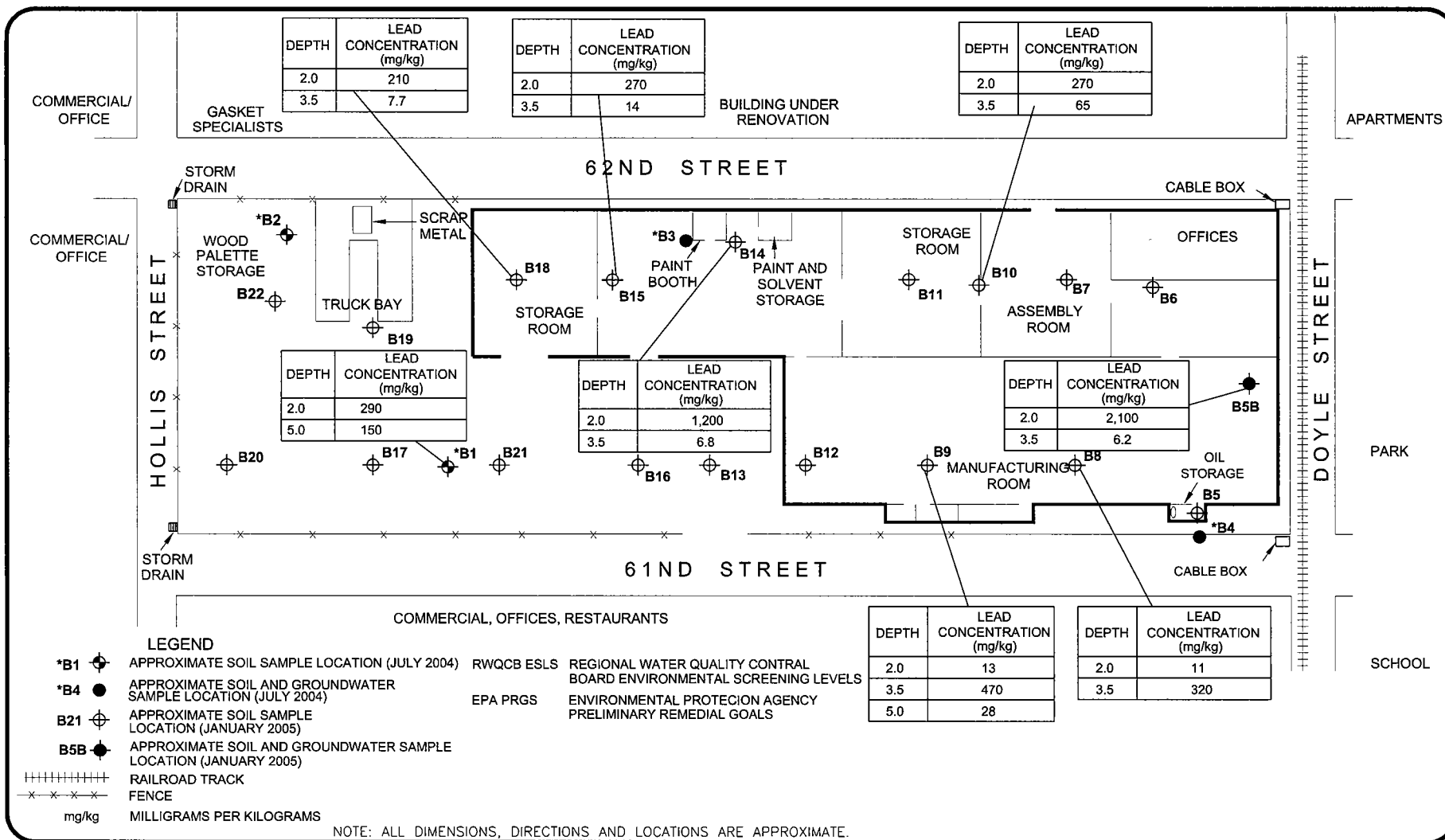
FIGURE
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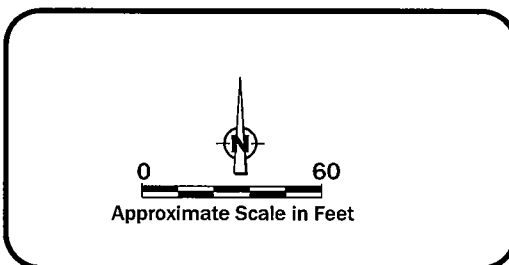
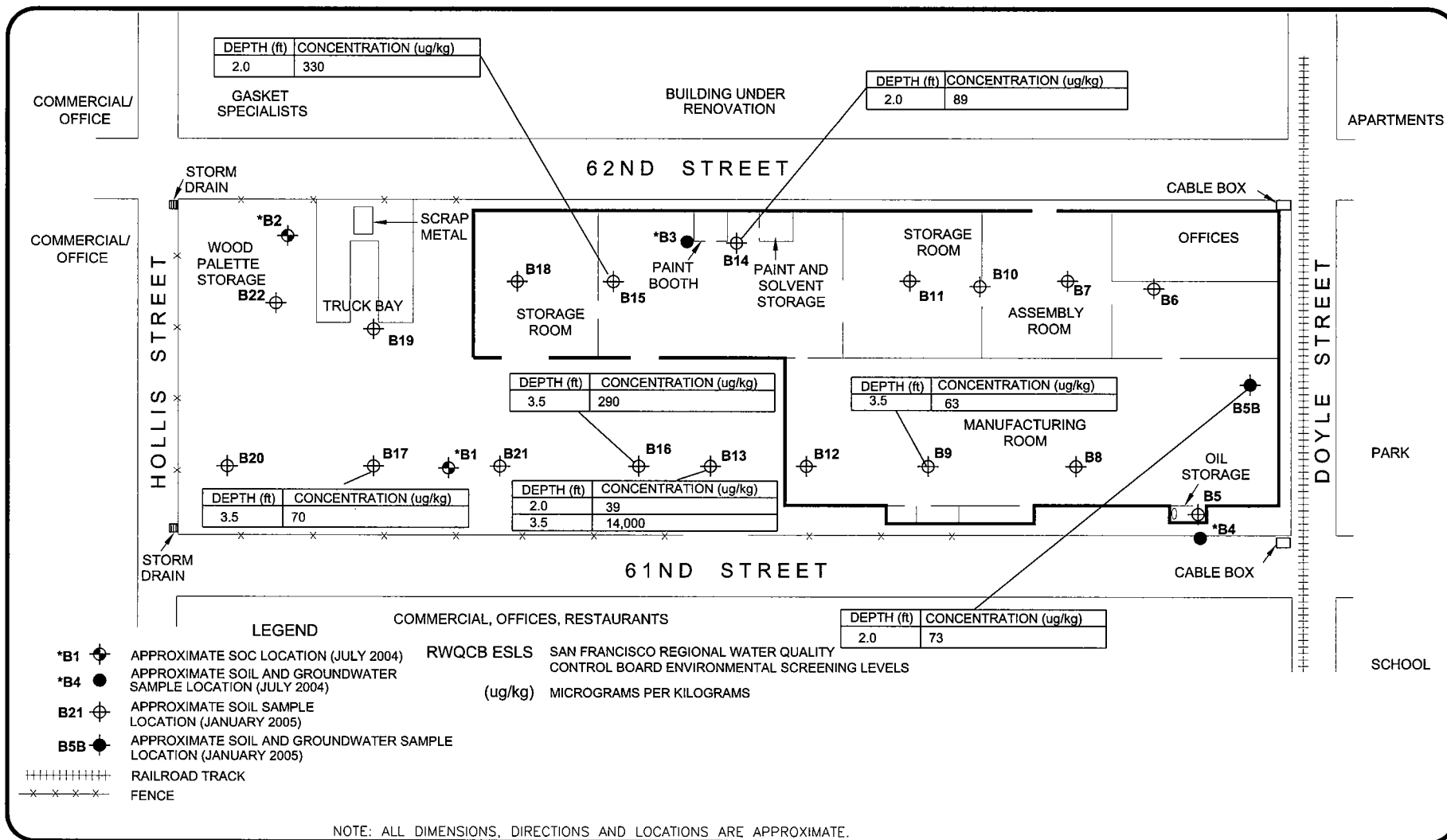
BORING LOCATION MAP		
CITY OF EMERYVILLE REDEVELOPMENT AGENCY 1333-1379 62ND STREET EMERYVILLE, CALIFORNIA		
PROJECT NO.	DATE	FIGURE
400582002	3/2005	2



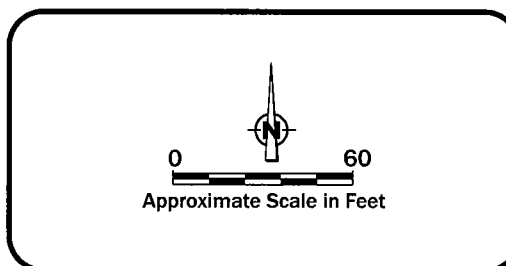
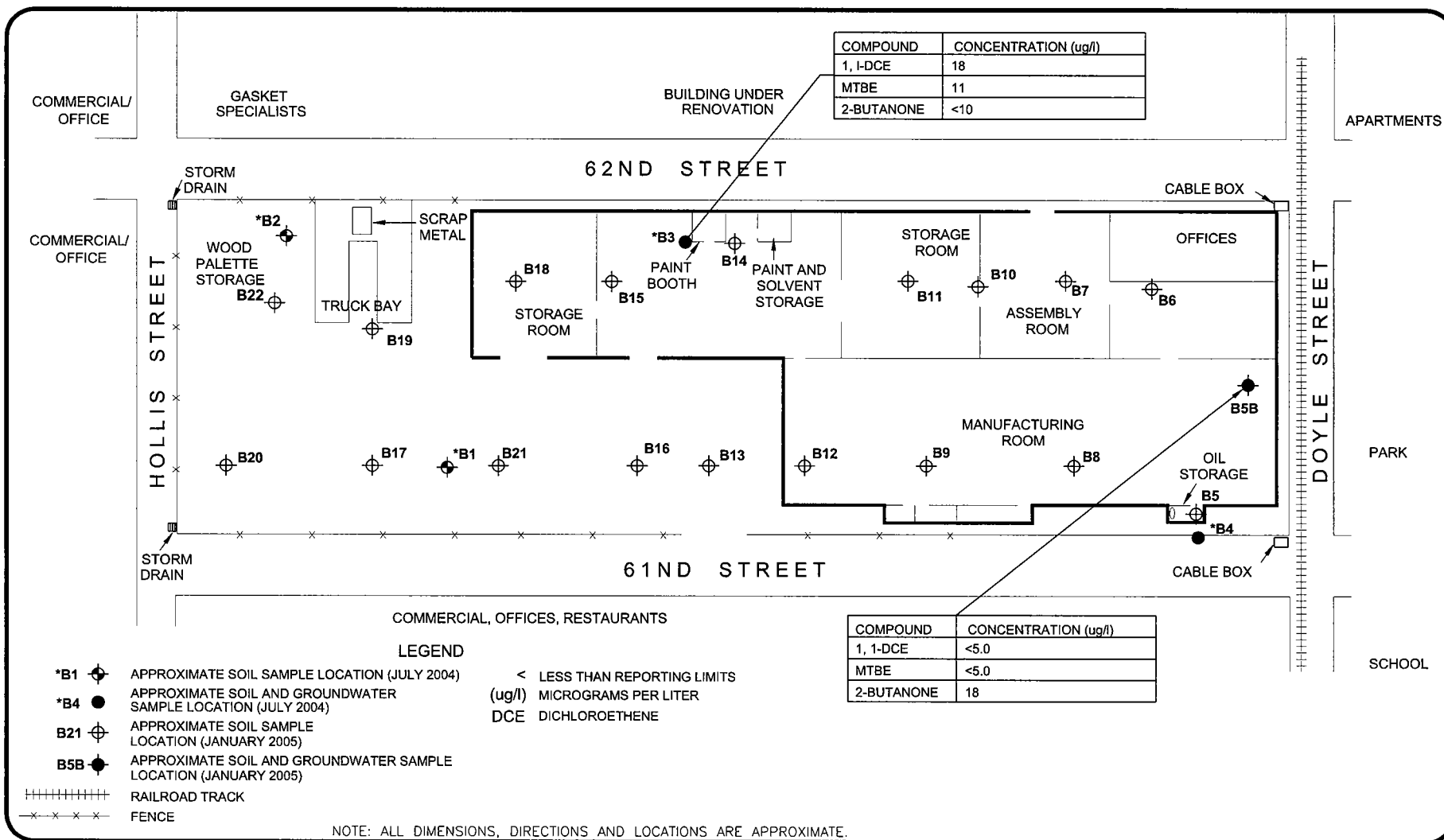
TOTAL PETROLEUM HYDROCARBONS AS DIESEL (TPH-D) AND MOTOR OIL (TPH-MO) SOIL SAMPLE CONCENTRATIONS		
CITY OF EMERYVILLE REDEVELOPMENT AGENCY		
1333-1379 62ND STREET		
EMERYVILLE, CALIFORNIA		
PROJECT NO.	DATE	FIGURE
400582002	3/2005	3



TOTAL LEAD SOIL SAMPLE CONCENTRATIONS REPORTED ABOVE RESIDENTIAL EPA PRGS AND RWQCB ESLs		
CITY OF EMERYVILLE REDEVELOPMENT AGENCY		
1333-1379 62ND STREET		
EMERYVILLE, CALIFORNIA		
PROJECT NO.	DATE	FIGURE
400582002	3/2005	4




BENZO (a) PYRENE SOIL SAMPLE CONCENTRATIONS REPORTED ABOVE RWQCB RESIDENTIAL ESLs		
CITY OF EMERYVILLE REDEVELOPMENT AGENCY 1333-1379 62ND STREET EMERYVILLE, CALIFORNIA		
PROJECT NO.	DATE	FIGURE
400582002	3/2005	5



VOLATILE ORGANIC COMPOUND (VOC) SHALLOW GROUNDWATER CONCENTRATIONS CITY OF EMERYVILLE REDEVELOPMENT AGENCY 1333-1379 62ND STREET EMERYVILLE, CALIFORNIA		
PROJECT NO.	DATE	FIGURE
400582002	3/2005	6

APPENDIX A
BORING LOGS

	BORING LOG		
	1333 - 1379 62ND STREET EMERYVILLE, CALIFORNIA		
	PROJECT NO. 400582002	DATE 07/04	FIGURE A-1

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>7/6/04</u> BORING NO. <u>B-2</u>	
	Bulk	Driven							GROUND ELEVATION <u>20±</u> SHEET <u>1</u> OF <u>1</u>	METHOD OF DRILLING <u>Direct Push</u>
									DRIVE WEIGHT <u>NA</u> DROP <u>NA</u>	
									SAMPLED BY <u>KML</u> LOGGED BY <u>KML</u> REVIEWED BY <u></u>	
									DESCRIPTION/INTERPRETATION	
0								SP	CONCRETE: Approximately 4" thick.	
								CL	FILL: Red, dry, gravelly SAND; gravel to 1/4" in diameter; medium sand; no odor. Black, brown, sandy CLAY; gravel up to 1/4" in diameter; medium sand; no odor.	
5						0.0		CL	ALLUVIUM: Grayish brown, moist, gravelly, sandy CLAY; gravel up to 1/4" in diameter; fine sand.	
10									Brown.	
15										
20									Total Depth = 16.0 feet bgs. No groundwater encountered in boring. Boring grouted to surface with Portland cement on 7/6/04.	

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BORING LOG

1333 - 1379 62ND STREET
EMERYVILLE, CALIFORNIA

PROJECT NO.
400582002

DATE
07/04

FIGURE
A-2

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>7/6/04</u> BORING NO. <u>B-3</u>	
	Bulk	Driven							GROUND ELEVATION <u>20±</u> SHEET <u>1</u> OF <u>1</u>	METHOD OF DRILLING <u>Direct Push</u>
									DRIVE WEIGHT <u>NA</u> DROP <u>NA</u>	
									SAMPLED BY <u>KML</u> LOGGED BY <u>KML</u> REVIEWED BY _____	
									DESCRIPTION/INTERPRETATION	
0								SP	<u>CONCRETE</u> : Approximately 4" thick. <u>FILL</u> : Brown, dry, silty SAND; gravel to 1/2" in diameter; slight odor; fine to medium sand.	
					2.1			CL	<u>ALLUVIUM</u> : Gray, moist, silty CLAY; gravel up to 1/2" in diameter; slight odor.	
5					2.3			SP	Gray, dry, gravelly SAND; gravel up to 1/4" in diameter; medium sand; slight odor.	
								CL	Black, moist, silty CLAY; gravel up to 1/2" in diameter.	
10									Gray; sandy clay; fine sand; gravel up to 1/4" in diameter.	
									Reddish brown.	
15										
20									Total Depth = 16.0 feet bgs. Groundwater encountered during drilling at 9.0 feet bgs. Boring grouted to surface with Portland cement on 7/6/04.	

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BORING LOG

1333 - 1379 62ND STREET
EMERYVILLE, CALIFORNIA

PROJECT NO.
400582002

DATE
07/04

FIGURE
A-3

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>7/6/04</u> BORING NO. <u>B-4</u> GROUND ELEVATION <u>20±</u> SHEET <u>1</u> OF <u>1</u> METHOD OF DRILLING <u>Direct Push</u> DRIVE WEIGHT <u>NA</u> DROP <u>NA</u> SAMPLED BY <u>KML</u> LOGGED BY <u>KML</u> REVIEWED BY _____ DESCRIPTION/INTERPRETATION		
	Bulk	Driven									
0								SP	<u>CONCRETE</u> : Approximately 4" thick. <u>FILL</u> : Brown, moist, medium SAND; slight odor.		
1.2								CL	<u>ALLUVIUM</u> : Gray, moist, silty CLAY; gravel to 1/4" in diameter; odor. Brown with orange mottling.		
2.2									Red; no gravel.		
15									Total Depth = 15.0 feet bgs. Groundwater encountered during drilling at 15.0 feet. Boring grouted to surface with Portland cement on 7/6/04.		
20											

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BORING LOG

1333 - 1379 62ND STREET
EMERYVILLE, CALIFORNIA

PROJECT NO.
400582002

DATE
07/04

FIGURE
A-4

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>1/5/05</u> BORING NO. <u>B-5</u> GROUND ELEVATION <u>20±</u> SHEET <u>1</u> OF <u>1</u> METHOD OF DRILLING <u>Direct Push</u> DRIVE WEIGHT <u>NA</u> DROP <u>NA</u> SAMPLED BY <u>DBB</u> LOGGED BY <u>DBB</u> REVIEWED BY _____ DESCRIPTION/INTERPRETATION		
	Bulk	Driven									
0									<u>CONCRETE</u> : Approximately 6" thick.		
					0.0		GP		<u>FILL</u> : Gray, moist, sandy GRAVEL to 1/2" in diameter. Brown; coarse sand; gravel up to 1" in diameter.		
					0.0		CL		<u>ALLUVIUM</u> : Black, moist, silty, CLAY; petroleum odor.		
5									Total Depth = 3.5 feet bgs. No groundwater encountered in boring. Boring grouted to surface with portland cement on 1/5/05.		
10											
15											
20											

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BORING LOG

1333 - 1379 62ND STREET
EMERYVILLE, CALIFORNIA

PROJECT NO.
400582002

DATE
02/05

FIGURE
A-5

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED	BORING NO.
	Bulk	Driven							1/5/05	B-5B
									GROUND ELEVATION	SHEET
									20±	1 OF 1
									METHOD OF DRILLING	
									Direct Push	
									DRIVE WEIGHT	DROP
									NA	NA
									SAMPLED BY	LOGGED BY
									KML	KML
									REVIEWED BY	
									DESCRIPTION/INTERPRETATION	
0								GP	CONCRETE: Approximately 6" thick. FILL: Gray, moist, sandy GRAVEL to 1/2" in diameter; medium sand; no odor.	
					0.0					
					0.0					
5					0.0			SM	ALLUVIUM: Brown, moist, sandy SILT with gravel; orange mottling; no odor.	
								CL	Brown, moist, silty CLAY; no odor. Black. Brown; with gravel; fine sand. More gravel.	
10										
15										
20									Total Depth = 16 feet bgs. Groundwater encountered during drilling at 16 feet bgs. Boring grouted to surface with portland cement on 1/5/05.	

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BORING LOG

1333 - 1379 62ND STREET
EMERYVILLE, CALIFORNIA

PROJECT NO.

400582002

DATE

02/05

FIGURE

A-6

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>1/5/05</u> BORING NO. <u>B-6</u> GROUND ELEVATION <u>20±</u> SHEET <u>1</u> OF <u>1</u> METHOD OF DRILLING <u>Direct Push</u> DRIVE WEIGHT <u>NA</u> DROP <u>NA</u> SAMPLED BY <u>DBB</u> LOGGED BY <u>DBB</u> REVIEWED BY _____ DESCRIPTION/INTERPRETATION		
	Bulk	Driven									
0									CONCRETE: Approximately 6" thick.		
						0.0		GP	FILL: Gray, moist, sandy GRAVEL; medium sand; no odor.		
						0.0		CL	ALLUVIUM: Brown, moist, sandy CLAY; medium sand; some gravel <1.0".		
5						0.0			Greenish brown; orange mottling.		
									Total Depth = 5 feet bgs. No groundwater encountered in boring. Boring backfilled with cement grout on 1/5/05.		
10											
15											
20											

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BORING LOG

1333 - 1379 62ND STREET
EMERYVILLE, CALIFORNIA

PROJECT NO.
400582002

DATE
02/05

FIGURE
A-7

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>1/5/05</u> BORING NO. <u>B-7</u>	
	Bulk	Driven							GROUND ELEVATION <u>20±</u> SHEET <u>1</u> OF <u>1</u>	METHOD OF DRILLING <u>Direct Push</u>
									DRIVE WEIGHT <u>NA</u> DROP <u>NA</u>	SAMPLED BY <u>DBB</u> LOGGED BY <u>DBB</u> REVIEWED BY _____
									DESCRIPTION/INTERPRETATION	
0									<u>CONCRETE</u> : Approximately 8" thick.	
					0.0		SP		<u>FILL</u> : Brown, moist, fine to medium SAND; no odor.	
					0.0		CL		<u>ALLUVIUM</u> : Dark brown, moist, sandy CLAY; medium sand; gravel up to 1/2" in diameter; slight organic odor.	
5					0.0				Total Depth = 5 feet bgs. No groundwater encountered in boring. Boring backfilled with portland cement on 1/5/05.	
10										
15										
20										

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BORING LOG

1333 - 1379 62ND STREET
EMERYVILLE, CALIFORNIA

PROJECT NO.
400582002

DATE
02/05

FIGURE
A-8

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED	BORING NO.				
	Bulk	Driven							1/5/05	B-8				
									GROUND ELEVATION	20±	SHEET	1	OF	1
									METHOD OF DRILLING Direct Push					
									DRIVE WEIGHT	NA	DROP	NA		
									SAMPLED BY	DBB	LOGGED BY	DBB	REVIEWED BY	
									DESCRIPTION/INTERPRETATION					
0									<u>CONCRETE</u> : Approximately 8" thick.					
					0.0		GP		<u>FILL</u> : Gray, wet, GRAVEL; medium sand; no odor.					
					0.0		SM		<u>ALLUVIUM</u> : Brown, moist, silty SAND; medium sand; some gravel up to 1/2" in diameter; no odor.					
					0.0		CL		<u>CLAY</u> : Black, moist, silty CLAY; no odor.					
5									Total Depth = 5 feet bgs. No groundwater encountered in boring. Boring backfilled with portland cement on 1/5/05.					
10														
15														
20														

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BORING LOG

1333 - 1379 62ND STREET
EMERYVILLE, CALIFORNIA

PROJECT NO.
400582002

DATE
02/05

FIGURE
A-9

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED	BORING NO.				
	Bulk	Driven							1/5/05	B-9				
									GROUND ELEVATION	20±	SHEET	1	OF	1
									METHOD OF DRILLING					Direct Push
									DRIVE WEIGHT	NA	DROP	NA		
									SAMPLED BY	DBB	LOGGED BY	DBB	REVIEWED BY	
									DESCRIPTION/INTERPRETATION					
0									<u>CONCRETE</u> : Approximately 8" thick.					
					0.0		GP		<u>FILL</u> : Gray, moist, GRAVEL; medium sand; gravel to 1" in diameter; no odor.					
					0.0									
					0.0		CL		<u>ALLUVIUM</u> : Black, moist, silty CLAY; gravel < 1" in diameter; no odor.					
5					0.0				Total Depth = 5 feet bgs. No groundwater encountered in boring. Boring backfilled with portland cement on 1/5/05.					
10														
15														
20														

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BORING LOG

1333 - 1379 62ND STREET
EMERYVILLE, CALIFORNIA

PROJECT NO.
400582002

DATE
02/05

FIGURE
A-10

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED	BORING NO.
	Bulk	Driven							1/5/05	B-10
									GROUND ELEVATION	SHEET
									20±	1 OF 1
									METHOD OF DRILLING	
									Direct Push	
									DRIVE WEIGHT	DROP
									NA	NA
									SAMPLED BY	LOGGED BY
									DBB	DBB
									REVIEWED BY	
									DESCRIPTION/INTERPRETATION	
0									CONCRETE: Approximately 8" thick.	
						0.0		SP	FILL: Brown, moist, gravelly medium SAND; gravel to 1/2" in diameter; no odor.	
						0.0				
5						0.0		CL	ALLUVIUM: Black, moist, silty CLAY; no odor. Total Depth = 5 feet bgs. No groundwater encountered in boring. Boring backfilled with portland cement on 1/5/05.	
10										
15										
20										

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BORING LOG

1333 - 1379 62ND STREET
EMERYVILLE, CALIFORNIA

PROJECT NO.

400582002

DATE

02/05

FIGURE

A-11

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>1/5/05</u> BORING NO. <u>B-11</u> GROUND ELEVATION <u>20±</u> SHEET <u>1</u> OF <u>1</u> METHOD OF DRILLING <u>Direct Push</u> DRIVE WEIGHT <u>NA</u> DROP <u>NA</u> SAMPLED BY <u>DBB</u> LOGGED BY <u>DBB</u> REVIEWED BY _____ DESCRIPTION/INTERPRETATION		
	Bulk	Driven									
0									CONCRETE: Approximately 8" thick.		
						0.0		GP	FILL: Gray, damp, sandy GRAVEL; gravel to 1/2" in diameter; medium sand; no odor.		
						0.0					
5						0.0		CL	ALLUVIUM: Gray, moist, silty CLAY; no odor. Total Depth = 6 feet bgs. No groundwater encountered in boring. Boring backfilled with portland cement on 1/5/05.		
10											
15											
20											

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BORING LOG

1333 - 1379 62ND STREET
EMERYVILLE, CALIFORNIA

PROJECT NO.
400582002

DATE
02/05

FIGURE
A-12

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>1/5/05</u> BORING NO. <u>B-12</u> GROUND ELEVATION <u>20±</u> SHEET <u>1</u> OF <u>1</u> METHOD OF DRILLING <u>Direct Push</u> DRIVE WEIGHT <u>NA</u> DROP <u>NA</u> SAMPLED BY <u>DBB</u> LOGGED BY <u>DBB</u> REVIEWED BY _____ DESCRIPTION/INTERPRETATION
	Bulk	Driven							
0									<u>CONCRETE:</u> Approximately 8" thick.
					0.0		SP		<u>FILL:</u> Gray, moist, silty medium SAND; no odor.
					0.0		CL		<u>ALLUVIUM:</u> Black, moist, sandy, silty CLAY; medium sand; no odor.
5					0.0				Total Depth = 5 feet bgs. No groundwater encountered in boring. Boring backfilled with portland cement on 1/5/05.
10									
15									
20									

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BORING LOG

1333 - 1379 62ND STREET
EMERYVILLE, CALIFORNIA

PROJECT NO.
400582002

DATE
02/05

FIGURE
A-13

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>1/5/05</u> BORING NO. <u>B-13</u> GROUND ELEVATION <u>20±</u> SHEET <u>1</u> OF <u>1</u> METHOD OF DRILLING <u>Direct Push</u> DRIVE WEIGHT <u>NA</u> DROP <u>NA</u> SAMPLED BY <u>DBB</u> LOGGED BY <u>DBB</u> REVIEWED BY _____ DESCRIPTION/INTERPRETATION		
	Bulk	Driven									
0									<u>CONCRETE:</u> Approximately 6" thick.		
						0.0		GP	<u>FILL:</u> Brown, moist, sandy GRAVEL with clay; gravel to 2" in diameter; medium sand; no odor.		
						0.0 0.0		CL	<u>ALLUVIUM:</u> Black, moist, silty CLAY; organic debris; slight natural organic odor.		
5						0.0			Total Depth = 6 feet bgs. No groundwater encountered in boring. Boring backfilled with portland cement on 1/5/05.		
10											
15											
20											

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BORING LOG

1333 - 1379 62ND STREET
EMERYVILLE, CALIFORNIA

PROJECT NO.
400582002

DATE
02/05

FIGURE
A-14

	BORING LOG		
	1333 - 1379 62ND STREET EMERYVILLE, CALIFORNIA		
	PROJECT NO. 400582002	DATE 02/05	FIGURE A-15

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>1/5/05</u> BORING NO. <u>B-15</u> GROUND ELEVATION <u>20'±</u> SHEET <u>1</u> OF <u>1</u> METHOD OF DRILLING <u>Direct Push</u> DRIVE WEIGHT <u>NA</u> DROP <u>NA</u> SAMPLED BY <u>DBB</u> LOGGED BY <u>DBB</u> REVIEWED BY _____ DESCRIPTION/INTERPRETATION		
	Bulk	Driven									
0									<u>CONCRETE:</u> Approximately 8" thick.		
								SP	<u>FILL:</u>		
					0.0			CL	Gray, moist, gravelly, medium SAND; gravel up to 1/2" in diameter; no odor.		
					0.0				<u>ALLUVIUM:</u>		
					0.0				Black, moist, silty CLAY with gravel; medium sand; gravel up to 1/2" in diameter.		
5									Total Depth = 5 feet bgs. No groundwater encountered in boring. Boring backfilled with portland cement on 1/5/05.		
10											
15											
20											

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BORING LOG

1333 - 1379 62ND STREET
EMERYVILLE, CALIFORNIA

PROJECT NO.
400582002

DATE
02/05

FIGURE
A-16

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>1/4/05</u> BORING NO. <u>B-16</u> GROUND ELEVATION <u>20±</u> SHEET <u>1</u> OF <u>1</u> METHOD OF DRILLING <u>Direct Push</u> DRIVE WEIGHT <u>NA</u> DROP <u>NA</u> SAMPLED BY <u>KML</u> LOGGED BY <u>KML</u> REVIEWED BY _____ DESCRIPTION/INTERPRETATION		
	Bulk	Driven									
0									<u>CONCRETE:</u> Approximately 8" thick.		
						0.0		GP	<u>FILL:</u> Gray, moist, sandy GRAVEL with clay; gravel to 2" in diameter; medium sand; slight odor.		
						0.0		SC	Brown, moist, clayey SAND; medium sand; slight odor.		
						0.0		CL	<u>ALLUVIUM:</u> Black, moist, silty CLAY; slight natural organic odor.		
5						0.0			Total Depth = 6 feet bgs. No groundwater encountered in boring. Boring backfilled with portland cement on 1/4/05.		
10											
15											
20											

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BORING LOG

1333 - 1379 62ND STREET
EMERYVILLE, CALIFORNIA

PROJECT NO.
400582002

DATE
02/05

FIGURE
A-17

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>1/4/05</u> BORING NO. <u>B-17</u>		
	Bulk	Driven							GROUND ELEVATION <u>20±</u> SHEET <u>1</u> OF <u>1</u>		
									METHOD OF DRILLING <u>Direct Push</u>		
									DRIVE WEIGHT <u>NA</u> DROP <u>NA</u>		
									SAMPLED BY <u>KML</u> LOGGED BY <u>KML</u> REVIEWED BY <u></u>		
									DESCRIPTION/INTERPRETATION		
0									<u>CONCRETE:</u> Approximately 6" thick.		
						0.0		GP	<u>FILL:</u> Gray, moist, sandy GRAVEL; gravel to 1" in diameter; medium sand; no odor.		
						0.0			Red.		
								CL	<u>ALLUVIUM:</u> Black, moist, silty CLAY; slight natural organic odor.		
5						0.0					
									Total Depth = 5.5 feet bgs. No groundwater encountered in boring. Boring backfilled with portland cement on 1/4/05.		
10											
15											
20											

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BORING LOG

1333 - 1379 62ND STREET
EMERYVILLE, CALIFORNIA

PROJECT NO.
400582002

DATE
02/05

FIGURE
A-18

	BORING LOG		
	1333 - 1379 62ND STREET EMERYVILLE, CALIFORNIA		
	PROJECT NO.	DATE	FIGURE
400582002	02/05	A-19	

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>1/4/05</u> BORING NO. <u>B-19</u> GROUND ELEVATION <u>20±</u> SHEET <u>1</u> OF <u>1</u> METHOD OF DRILLING <u>Direct Push</u> DRIVE WEIGHT <u>NA</u> DROP <u>NA</u> SAMPLED BY <u>KML</u> LOGGED BY <u>KML</u> REVIEWED BY _____ DESCRIPTION/INTERPRETATION		
	Bulk	Driven									
0									<u>CONCRETE:</u> Approximately 8" thick.		
								GP	<u>FILL:</u> Brown, moist, sandy GRAVEL; medium sand; no odor. Gray; dry.		
								CL	Red, moist, gravelly CLAY; no odor.		
					0.0			CL	<u>ALLUVIUM:</u> Black, moist, silty CLAY; slight odor.		
5					0.0				Total Depth = 5.5 feet bgs. No groundwater encountered in boring. Boring backfilled with portland cement on 1/4/05.		
10											
15											
20											

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BORING LOG

1333 - 1379 62ND STREET
EMERYVILLE, CALIFORNIA

PROJECT NO.

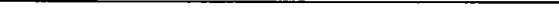
400582002

DATE

02/05

FIGURE

A-20

	BORING LOG		
	1333 - 1379 62ND STREET EMERYVILLE, CALIFORNIA		
	PROJECT NO. 400582002	DATE 02/05	FIGURE A-21

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>1/4/05</u> BORING NO. <u>B-21</u> GROUND ELEVATION <u>20'±</u> SHEET <u>1</u> OF <u>1</u> METHOD OF DRILLING <u>Direct Push</u> DRIVE WEIGHT <u>NA</u> DROP <u>NA</u> SAMPLED BY <u>KML</u> LOGGED BY <u>KML</u> REVIEWED BY _____ DESCRIPTION/INTERPRETATION		
	Bulk	Driven									
0									<u>CONCRETE:</u> Approximately 8" thick.		
					0.0		GP		<u>FILL:</u> Gray, moist, sandy GRAVEL; medium sand; gravel up to 2" in diameter; no odor. Red; slight odor.		
					0.0		CL		<u>ALLUVIUM:</u> Black, moist, silty CLAY; slight odor.		
5					0.0				Greenish gray; no odor.		
10									Total Depth = 9 feet bgs. No groundwater encountered in boring. Boring backfilled with portland cement on 1/4/05.		
15											
20											

Ningo & Moore



BORING LOG

1333 - 1379 62ND STREET
EMERYVILLE, CALIFORNIA

PROJECT NO.
400582002

DATE
02/05

FIGURE
A-22

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>1/5/05</u> BORING NO. <u>B-22</u> GROUND ELEVATION <u>20±</u> SHEET <u>1</u> OF <u>1</u> METHOD OF DRILLING <u>Direct Push</u> DRIVE WEIGHT <u>NA</u> DROP <u>NA</u> SAMPLED BY <u>KML</u> LOGGED BY <u>KML</u> REVIEWED BY _____ DESCRIPTION/INTERPRETATION
	Bulk	Driven							
0									<u>CONCRETE:</u> Approximately 18" thick.
						0.0		GP	<u>FILL:</u> Gray, moist, sandy GRAVEL; gravel up to 2" in diameter. No recovery.
						0.0		CL	<u>ALLUVIUM:</u> Black, moist, silty CLAY; organic odor.
5						0.0			Greenish black; no odor. Total Depth = 5.5 feet bgs. No groundwater encountered in boring. Boring backfilled with portland cement on 1/5/05.
10									
15									
20									

Ningo & Moore

BORING LOG

1333 - 1379 62ND STREET
EMERYVILLE, CALIFORNIA

PROJECT NO.
400582002

DATE
02/05

FIGURE
A-23

APPENDIX B
LABORATORY ANALYTICAL REPORT



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

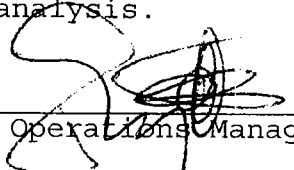
Laboratory Number 173247

Ninyo & Moore
1956 Webster St.
Oakland, CA 94612

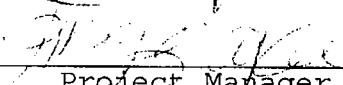
Project#: 400582002
Location: Dutro

<u>Sample ID</u>	<u>Lab ID</u>
B3-GW-1	173247-001
B33-GW-1	173247-002
B35-GW-1	173247-003
B4-GW-1	173247-004
B1-S-2-1	173247-005
B1-S-5-1	173247-006
B3-S-2-1	173247-007
B3-S-5-1	173247-008
B2-S-2-1	173247-009
B2-S-5-1	173247-010
B4-S-2-1	173247-011
B4-S-5-1	173247-012
B32-S-5-1	173247-013

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis.

Signature: 
Operations Manager

Date: 2/17/05

Signature: 
Project Manager

Date: 2/17/05

Laboratory Number: **173247**
Client: **Ninyo & Moore**
Project Name: **Dutro**

Order Date: **07/06/04**

CASE NARRATIVE

This hardcopy data package contains sample results and batch QC results for four water and eight soil samples received from the above referenced project. The samples were received cold and intact.

Total Volatile Hydrocarbons: The trifluorotoluene surrogate recoveries for the water matrix spikes were above acceptance limits due to coelution of the surrogate peak with hydrocarbon peaks. The associated bromofluorobenzene surrogate recoveries were acceptable, therefore, there is no affect on the quality of the sample results. No other analytical problems were encountered.

Total Extractable Hydrocarbons: The soil matrix spike recoveries were not meaningful and the matrix spikes were not analyzed. The concentration of diesel range organics in the spiked sample rendered the spike amount insignificant. The associated laboratory control sample recovery was acceptable. No other analytical problems were encountered.

Volatile Organic Compounds: The soil matrix spike recoveries of sample B3-S-2-1 (173247-007) were outside acceptance limits for chlorobenzene. The associated LCS recoveries were acceptable for all target compounds.

The %D of the continuing calibration standard (CCS) cg904 was above acceptance limits for acetone. The standard did not bracket any samples with acetone detections, therefore, there is no affect on the quality of the sample results. No other analytical problems were encountered.

Semi-Volatile Organic Compounds: No analytical problems were encountered.

PCBs: No analytical problems were encountered.

Page 2 of 2

Polyaromatic Hydrocarbons: Both surrogate recoveries for samples B1-S-2-1 (173247-005) and B1-S-5-1 (173247-006) were outside acceptance limits due to matrix effect.

The matrix spike recovery of sample B1-S-5-1 was outside acceptance limits for acenaphthene. The associated laboratory control sample (LCS) recoveries were acceptable for all target compounds. No other analytical problems were encountered.

Metals: Lead was detected in the filtrate method blank QC256637. The analyte was not detected in the associated samples, therefore, there is no affect on the quality of the sample results.

The soil matrix spike recoveries for zinc were outside acceptance limits. The matrix spike duplicate relative percent difference (RPD) for barium was also outside acceptance limits. The associated blank spike recoveries and blank spike duplicate RPDs were acceptable for all target elements and the spiked sample was not from this site. No other analytical problems were encountered.

Report revised 2/17/2005 to reflect client ID changes.

CHAIN OF CUSTODY FORM

Page 1 of 1

Curtis & Tompkins, Ltd.

Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510)486-0900 Phone
(510)486-0532 Fax

C&T
LOGIN # 173247

Analyses

Project No: 402582002

Project Name: Duto

Project P.O.:

Turnaround Time: 10 Day

Sampler: Kris Larson

Report To: Kris Larson

Company: Ninyo & Moore

Telephone: (510) 633-5840

Fax: (510) 633-5840

Laboratory Number	Sample ID.	Sampling Date Time	Matrix			# of Containers	Preservative				Field Notes
			Soil	Water	Waste		HCL	H ₂ SO ₄	HNO ₃	ICE	
For Laboratory Use	B2-6w-1	7/6/04	X			9	6	1			TPH-0/TPH-40/50/5
	B7-6w-1	7/20/04	X			6	3	1			VOCs 8260B
	B5-6w-1	7/30/04	X			6	3	1			TPH-17 (Dissolved) 6010B
	B4-6w-1	7/10/04	X			1	1				TPH-G 5015
	B1-S-2-1	7/10/04	X			4					SVOCs 8290C
	B1-S-5-1	7/10/04	X			4					PCBs 5051
	B2-S-2-1	7/4/04	X			11					PAHs 5270C
	B3-S-5-1	7/30/04	X			4					
	B2-S-2-1	7/10/04	X			4					
	B2-S-5-1	7/10/04	X			3					
	B4-S-2-1	7/10/04	X			3					
	B4-S-5-1	7/10/04	X			3					
	B7-S-5-1	7/12/04	X			3					

Notes:

Received ☒ On Ice
☒ Cold ☐ Ambient ☐ Intact

No Cooler Receipt Checklist done because I was unaware this was level III until I was already logging it in. 7-6-04
(Normally level II client)

Signature

RELINQUISHED BY:

Kris Larson 7/6 14:30

DATE/TIME

DATE/TIME

DATE/TIME

RECEIVED BY:

Lavanna Curtis 7-6/04 14:30 p.m.

DATE/TIME

DATE/TIME

DATE/TIME

Sample No. Change

Subject: Sample No. Change
From: "Kris Larson" <klarson@ninyoandmoore.com>
Date: Thu, 17 Feb 2005 09:42:12 -0800
To: "Lisa Brooker" <lisa@ctberk.com>

Lisa,
I got your message, it's a big relief, thanks. There are actually three sample numbers that need to be changed. The first is duplicate soil sample B7-S-5-1 (Lab ID No 173247-013), sample date 7/6/04, the second duplicate groundwater sample No. B7-GW-1 (Lab ID No. 173247-002), Sample date 7/7/04 and the third is equipment blank sample No. B5-GW-1 (Lab ID No. 173247-003), sample date 7/6/04 . Please change Sample No. B7-S-5-1 to B32-S-5-1, Sample No. B7-GW-1 to B33-GW-1 and Sample No. B5-GW-1 to B35-GW-1. Please contact me if you have any questions.

Regards,
Kristopher M. Larson
Project Environmental Geologist
Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, California 94610
Ph: 510-633-5640
Fax: 510-633-5646

Total Volatile Hydrocarbons

Lab #: 173247	Location: Dutro
Client: Ninyo & Moore	Prep: EPA 5030B
Project#: 400582002	Analysis: EPA 8015B
Matrix: Water	Batch#: 92567
Units: ug/L	Sampled: 07/06/04
Diln Fac: 1.000	Received: 07/06/04

Field ID: B3-GW-1	Lab ID: 173247-001
Type: SAMPLE	Analyzed: 07/07/04

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	74-142
Bromofluorobenzene (FID)	105	80-139

Field ID: B33-GW-1	Lab ID: 173247-002
Type: SAMPLE	Analyzed: 07/07/04

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	98	74-142
Bromofluorobenzene (FID)	101	80-139

Field ID: B35-GW-1	Lab ID: 173247-003
Type: SAMPLE	Analyzed: 07/07/04

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	98	74-142
Bromofluorobenzene (FID)	100	80-139

Type: BLANK	Analyzed: 07/06/04
Lab ID: QC256603	

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	78	74-142
Bromofluorobenzene (FID)	108	80-139

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5030B
Project#:	400582002	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC256605	Batch#:	92567
Matrix:	Water	Analyzed:	07/07/04
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	1,976	99	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	123	74-142
Bromofluorobenzene (FID)	100	80-139

Total Volatile Hydrocarbons			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5030B
Project#:	400582002	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	92605
Units:	mg/Kg	Sampled:	07/06/04
Diln Fac:	1.000	Received:	07/06/04

Field ID: B2-S-2-1 Basis: dry
 Type: SAMPLE Moisture: 9%
 Lab ID: 173247-009 Analyzed: 07/07/04

Analyte	Result	RL
Gasoline C7-C12	ND	1.1

Surrogate	%REC	Limits
Trifluorotoluene (FID)	76	71-138
Bromofluorobenzene (FID)	126	73-143

Field ID: B4-S-2-1 Basis: dry
 Type: SAMPLE Moisture: 21%
 Lab ID: 173247-011 Analyzed: 07/07/04

Analyte	Result	RL
Gasoline C7-C12	ND	1.2

Surrogate	%REC	Limits
Trifluorotoluene (FID)	74	71-138
Bromofluorobenzene (FID)	123	73-143

Field ID: B4-S-5-1 Basis: dry
 Type: SAMPLE Moisture: 17%
 Lab ID: 173247-012 Analyzed: 07/07/04

Analyte	Result	RL
Gasoline C7-C12	ND	1.2

Surrogate	%REC	Limits
Trifluorotoluene (FID)	76	71-138
Bromofluorobenzene (FID)	127	73-143

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5030B
Project#:	400582002	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	92567
MSS Lab ID:	173233-003	Sampled:	07/02/04
Matrix:	Water	Received:	07/02/04
Units:	ug/L	Analyzed:	07/07/04
Diln Fac:	1.000		

Type: MS Lab ID: QC256606

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	580.2	2,000	2,533	98	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	152 *	74-142
Bromofluorobenzene (FID)	108	80-139

Type: MSD Lab ID: QC256607

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,570	99	80-120	1	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	152 *	74-142
Bromofluorobenzene (FID)	108	80-139

Total Volatile Hydrocarbons			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5030B
Project#:	400582002	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	92605
Units:	mg/Kg	Sampled:	07/06/04
Diln Fac:	1.000	Received:	07/06/04

Field ID:	B32-S-5-1	Basis:	dry
Type:	SAMPLE	Moisture:	12%
Lab ID:	173247-013	Analyzed:	07/07/04

Analyte	Result	RL
Gasoline C7-C12	ND	1.1

Surrogate	%REC	Limits
Trifluorotoluene (FID)	98	71-138
Bromofluorobenzene (FID)	104	73-143

Type:	BLANK	Basis:	as received
Lab ID:	QC256748	Analyzed:	07/08/04

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	83	71-138
Bromofluorobenzene (FID)	87	73-143

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5030B
Project#:	400582002	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC256749	Diln Fac:	1.000
Matrix:	Soil	Batch#:	92605
Units:	mg/Kg	Analyzed:	07/07/04

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	10.00	10.37	104	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	81	71-138
Bromofluorobenzene (FID)	111	73-143

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5030B
Project#:	400582002	Analysis:	EPA 8015B
Field ID:	B2-S-5-1	Diln Fac:	1.000
MSS Lab ID:	173249-001	Batch#:	92605
Matrix:	Soil	Sampled:	07/06/04
Units:	mg/Kg	Received:	07/06/04
Basis:	dry	Analyzed:	07/07/04

Type:	MS	Moisture:	18%
Lab ID:	QC256792		

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	<0.08415	13.26	10.81	82	47-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	110	71-138
Bromofluorobenzene (FID)	114	73-143

Type:	MSD	Moisture:	18%
Lab ID:	QC256793		

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	13.11	10.34	79	47-120	3	23

Surrogate	%REC	Limits
Trifluorotoluene (FID)	115	71-138
Bromofluorobenzene (FID)	111	73-143

Total Extractable Hydrocarbons			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 3520
Project#:	400582002	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	07/06/04
Units:	ug/L	Received:	07/06/04
Diln Fac:	1.000	Prepared:	07/13/04
Batch#:	92782		

Field ID: B3-GW-1 Lab ID: 173247-001
 Type: SAMPLE Analyzed: 07/15/04

Analyte	Result	RL
Diesel C10-C24	200 Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	113	53-142

Field ID: B33-GW-1 Lab ID: 173247-002
 Type: SAMPLE Analyzed: 07/15/04

Analyte	Result	RL
Diesel C10-C24	270 Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	133	53-142

Field ID: B35-GW-1 Lab ID: 173247-003
 Type: SAMPLE Analyzed: 07/16/04

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

Surrogate	%REC	Limits
Hexacosane	124	53-142

Type: BLANK Analyzed: 07/15/04
 Lab ID: QC257472 Cleanup Method: EPA 3630C

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

Surrogate	%REC	Limits
Hexacosane	87	53-142

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit
 Page 1 of 1

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 3520
Project#:	400582002	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	92782
Units:	ug/L	Prepared:	07/13/04
Diln Fac:	1.000	Analyzed:	07/15/04

Type: BS Cleanup Method: EPA 3630C
 Lab ID: QC257473

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,468	99	57-128

Surrogate	%REC	Limits
Hexacosane	120	53-142

Type: BSD Cleanup Method: EPA 3630C
 Lab ID: QC257474

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,183	87	57-128	12	38

Surrogate	%REC	Limits
Hexacosane	107	53-142

Total Extractable Hydrocarbons			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	SHAKER TABLE
Project#:	400582002	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	07/06/04
Units:	mg/Kg	Received:	07/06/04
Batch#:	92680	Prepared:	07/09/04

Field ID: B1-S-2-1
 Type: SAMPLE
 Lab ID: 173247-005
 Basis: dry

Moisture: 18%
 Diln Fac: 3.000
 Analyzed: 07/15/04

Analyte	Result	RL
Diesel C10-C24	340 H Y	3.6
Motor Oil C24-C36	1,300	18

Surrogate	%REC	Limits
Hexacosane	123	52-131

Field ID: B1-S-5-1
 Type: SAMPLE
 Lab ID: 173247-006
 Basis: dry

Moisture: 14%
 Diln Fac: 3.000
 Analyzed: 07/15/04

Analyte	Result	RL
Diesel C10-C24	280 H Y	3.5
Motor Oil C24-C36	1,100	17

Surrogate	%REC	Limits
Hexacosane	97	52-131

Field ID: B2-S-2-1
 Type: SAMPLE
 Lab ID: 173247-009
 Basis: dry

Moisture: 9%
 Diln Fac: 5.000
 Analyzed: 07/12/04

Analyte	Result	RL
Diesel C10-C24	250 H Y	5.5
Motor Oil C24-C36	760	28

Surrogate	%REC	Limits
Hexacosane	102	52-131

H= Heavier hydrocarbons contributed to the quantitation
 L= Lighter hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 ND= Not Detected
 RL= Reporting Limit
 Page 1 of 2

Total Extractable Hydrocarbons

Lab #: 173247	Location: Dutro
Client: Ninyo & Moore	Prep: SHAKER TABLE
Project#: 400582002	Analysis: EPA 8015B
Matrix: Soil	Sampled: 07/06/04
Units: mg/Kg	Received: 07/06/04
Batch#: 92680	Prepared: 07/09/04

Field ID: B4-S-2-1	Moisture: 21%
Type: SAMPLE	Diln Fac: 25.00
Lab ID: 173247-011	Analyzed: 07/16/04
Basis: dry	

Analyte	Result	RL
Diesel C10-C24	14,000 H	32
Motor Oil C24-C36	5,500 L	160

Surrogate	%REC	Limits
Hexacosane	DO	52-131

Field ID: B4-S-5-1	Moisture: 17%
Type: SAMPLE	Diln Fac: 5.000
Lab ID: 173247-012	Analyzed: 07/16/04
Basis: dry	

Analyte	Result	RL
Diesel C10-C24	820 H	6.1
Motor Oil C24-C36	300 L	30

Surrogate	%REC	Limits
Hexacosane	105	52-131

Field ID: B32-S-5-1	Moisture: 12%
Type: SAMPLE	Diln Fac: 1.000
Lab ID: 173247-013	Analyzed: 07/13/04
Basis: dry	

Analyte	Result	RL
Diesel C10-C24	11 H Y	1.1
Motor Oil C24-C36	22	5.7

Surrogate	%REC	Limits
Hexacosane	102	52-131

Type: BLANK	Diln Fac: 1.000
Lab ID: QC257064	Analyzed: 07/12/04
Basis: as received	Cleanup Method: EPA 3630C

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

Surrogate	%REC	Limits
Hexacosane	100	52-131

H= Heavier hydrocarbons contributed to the quantitation
 L= Lighter hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 ND= Not Detected
 RL= Reporting Limit
 Page 2 of 2

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	SHAKER TABLE
Project#:	400582002	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC257065	Batch#:	92680
Matrix:	Soil	Prepared:	07/09/04
Units:	mg/Kg	Analyzed:	07/13/04
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.70	41.73	84	56-129

Surrogate	%REC	Limits
Hexacosane	95	52-131

Purgeable Organics by GC/MS

Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5030B
Project#:	400582002	Analysis:	EPA 8260B
Field ID:	B3-GW-1	Batch#:	92663
Lab ID:	173247-001	Sampled:	07/06/04
Matrix:	Water	Received:	07/06/04
Units:	ug/L	Analyzed:	07/09/04
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	18	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	11	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5030B
Project#:	400582002	Analysis:	EPA 8260B
Field ID:	B3-GW-1	Batch#:	92663
Lab ID:	173247-001	Sampled:	07/06/04
Matrix:	Water	Received:	07/06/04
Units:	ug/L	Analyzed:	07/09/04
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	94	80-124
Toluene-d8	98	80-120
Bromofluorobenzene	99	80-120

Purgeable Organics by GC/MS

Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5030B
Project#:	400582002	Analysis:	EPA 8260B
Field ID:	B33-GW-1	Batch#:	92663
Lab ID:	173247-002	Sampled:	07/06/04
Matrix:	Water	Received:	07/06/04
Units:	ug/L	Analyzed:	07/09/04
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	21	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	11	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 2

Purgeable Organics by GC/MS

Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5030B
Project#:	400582002	Analysis:	EPA 8260B
Field ID:	B33-GW-1	Batch#:	92663
Lab ID:	173247-002	Sampled:	07/06/04
Matrix:	Water	Received:	07/06/04
Units:	ug/L	Analyzed:	07/09/04
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	94	80-124
Toluene-d8	99	80-120
Bromofluorobenzene	96	80-120

Purgeable Organics by GC/MS

Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5030B
Project#:	400582002	Analysis:	EPA 8260B
Field ID:	B35-GW-1	Batch#:	92663
Lab ID:	173247-003	Sampled:	07/06/04
Matrix:	Water	Received:	07/06/04
Units:	ug/L	Analyzed:	07/09/04
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

Page 1 of 2

Purgeable Organics by GC/MS

Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5030B
Project#:	400582002	Analysis:	EPA 8260B
Field ID:	B35-GW-1	Batch#:	92663
Lab ID:	173247-003	Sampled:	07/06/04
Matrix:	Water	Received:	07/06/04
Units:	ug/L	Analyzed:	07/09/04
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	95	80-124
Toluene-d8	98	80-120
Bromofluorobenzene	97	80-120

Purgeable Organics by GC/MS

Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5030B
Project#:	400582002	Analysis:	EPA 8260B
Field ID:	B4-GW-1	Batch#:	92663
Lab ID:	173247-004	Sampled:	07/06/04
Matrix:	Water	Received:	07/06/04
Units:	ug/L	Analyzed:	07/09/04
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5030B
Project#:	400582002	Analysis:	EPA 8260B
Field ID:	B4-GW-1	Batch#:	92663
Lab ID:	173247-004	Sampled:	07/06/04
Matrix:	Water	Received:	07/06/04
Units:	ug/L	Analyzed:	07/09/04
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-120
1,2-Dichloroethane-d4	94	80-124
Toluene-d8	98	80-120
Bromofluorobenzene	97	80-120

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5030B
Project#:	400582002	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	92663
Units:	ug/L	Analyzed:	07/09/04
Diln Fac:	1.000		

Type: BS Lab ID: QC256987

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	52.07	104	76-120
Benzene	50.00	53.41	107	80-120
Trichloroethene	50.00	52.62	105	80-120
Toluene	50.00	53.83	108	80-120
Chlorobenzene	50.00	52.33	105	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-120
1,2-Dichloroethane-d4	98	80-124
Toluene-d8	100	80-120
Bromofluorobenzene	98	80-120

Type: BSD Lab ID: QC256988

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	51.87	104	76-120	0	20
Benzene	50.00	53.37	107	80-120	0	20
Trichloroethene	50.00	52.73	105	80-120	0	20
Toluene	50.00	53.28	107	80-120	1	20
Chlorobenzene	50.00	51.11	102	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	108	80-120
1,2-Dichloroethane-d4	97	80-124
Toluene-d8	101	80-120
Bromofluorobenzene	97	80-120

RPD= Relative Percent Difference

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5030B
Project#:	400582002	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC256989	Batch#:	92663
Matrix:	Water	Analyzed:	07/09/04
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5030B
Project#:	400582002	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC256989	Batch#:	92663
Matrix:	Water	Analyzed:	07/09/04
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	96	80-124
Toluene-d8	100	80-120
Bromofluorobenzene	95	80-120

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5030B
Project#:	400582002	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC256990	Batch#:	92663
Matrix:	Water	Analyzed:	07/09/04
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

Page 1 of 2

Purgeable Organics by GC/MS

Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5035
Project#:	400582002	Analysis:	EPA 8260B
Field ID:	B1-S-2-1	Diln Fac:	1.042
Lab ID:	173247-005	Batch#:	92604
Matrix:	Soil	Sampled:	07/06/04
Units:	ug/Kg	Received:	07/06/04
Basis:	dry	Analyzed:	07/07/04

Moisture: 18%

Analyte	Result	RL
Freon 12	ND	13
Chloromethane	ND	13
Vinyl Chloride	ND	13
Bromomethane	ND	13
Chloroethane	ND	13
Trichlorofluoromethane	ND	6.4
Acetone	31	25
Freon 113	ND	6.4
1,1-Dichloroethene	ND	6.4
Methylene Chloride	ND	25
Carbon Disulfide	ND	6.4
MTBE	ND	6.4
trans-1,2-Dichloroethene	ND	6.4
Vinyl Acetate	ND	64
1,1-Dichloroethane	ND	6.4
2-Butanone	ND	13
cis-1,2-Dichloroethene	ND	6.4
2,2-Dichloropropane	ND	6.4
Chloroform	ND	6.4
Bromochloromethane	ND	6.4
1,1,1-Trichloroethane	ND	6.4
1,1-Dichloropropene	ND	6.4
Carbon Tetrachloride	ND	6.4
1,2-Dichloroethane	ND	6.4
Benzene	ND	6.4
Trichloroethene	ND	6.4
1,2-Dichloropropane	ND	6.4
Bromodichloromethane	ND	6.4
Dibromomethane	ND	6.4
4-Methyl-2-Pentanone	ND	13
cis-1,3-Dichloropropene	ND	6.4
Toluene	ND	6.4
trans-1,3-Dichloropropene	ND	6.4
1,1,2-Trichloroethane	ND	6.4
2-Hexanone	ND	13
1,3-Dichloropropane	ND	6.4
Tetrachloroethene	ND	6.4
Dibromochloromethane	ND	6.4
1,2-Dibromoethane	ND	6.4
Chlorobenzene	ND	6.4
1,1,1,2-Tetrachloroethane	ND	6.4
Ethylbenzene	9.2	6.4
m,p-Xylenes	50	6.4
o-Xylene	12	6.4
Styrene	ND	6.4
Bromoform	ND	6.4
Isopropylbenzene	8.6	6.4
1,1,2,2-Tetrachloroethane	ND	6.4
1,2,3-Trichloropropane	ND	6.4
Propylbenzene	ND	6.4
Bromobenzene	ND	6.4
1,3,5-Trimethylbenzene	34	6.4
2-Chlorotoluene	ND	6.4

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 2

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5030B
Project#:	400582002	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC256990	Batch#:	92663
Matrix:	Water	Analyzed:	07/09/04
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	95	80-124
Toluene-d8	99	80-120
Bromofluorobenzene	97	80-120

Purgeable Organics by GC/MS

Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5035
Project#:	400582002	Analysis:	EPA 8260B
Field ID:	B1-S-2-1	Diln Fac:	1.042
Lab ID:	173247-005	Batch#:	92604
Matrix:	Soil	Sampled:	07/06/04
Units:	ug/Kg	Received:	07/06/04
Basis:	dry	Analyzed:	07/07/04

Analyte	Result	RL
4-Chlorotoluene	ND	6.4
tert-Butylbenzene	ND	6.4
1,2,4-Trimethylbenzene	64	6.4
sec-Butylbenzene	ND	6.4
para-Isopropyl Toluene	7.8	6.4
1,3-Dichlorobenzene	ND	6.4
1,4-Dichlorobenzene	ND	6.4
n-Butylbenzene	ND	6.4
1,2-Dichlorobenzene	ND	6.4
1,2-Dibromo-3-Chloropropane	ND	6.4
1,2,4-Trichlorobenzene	ND	6.4
Hexachlorobutadiene	ND	6.4
Naphthalene	ND	6.4
1,2,3-Trichlorobenzene	ND	6.4

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-120
1,2-Dichloroethane-d4	99	80-120
Toluene-d8	101	80-120
Bromofluorobenzene	100	80-123

Purgeable Organics by GC/MS

Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5035
Project#:	400582002	Analysis:	EPA 8260B
Field ID:	B1-S-5-1	Diln Fac:	0.8929
Lab ID:	173247-006	Batch#:	92604
Matrix:	Soil	Sampled:	07/06/04
Units:	ug/Kg	Received:	07/06/04
Basis:	dry	Analyzed:	07/07/04

Moisture: 14%

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.2
Acetone	ND	21
Freon 113	ND	5.2
1,1-Dichloroethene	ND	5.2
Methylene Chloride	ND	21
Carbon Disulfide	ND	5.2
MTBE	ND	5.2
trans-1,2-Dichloroethene	ND	5.2
Vinyl Acetate	ND	52
1,1-Dichloroethane	ND	5.2
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.2
2,2-Dichloropropane	ND	5.2
Chloroform	ND	5.2
Bromochloromethane	ND	5.2
1,1,1-Trichloroethane	ND	5.2
1,1-Dichloropropene	ND	5.2
Carbon Tetrachloride	ND	5.2
1,2-Dichloroethane	ND	5.2
Benzene	ND	5.2
Trichloroethene	ND	5.2
1,2-Dichloropropane	ND	5.2
Bromodichloromethane	ND	5.2
Dibromomethane	ND	5.2
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.2
Toluene	ND	5.2
trans-1,3-Dichloropropene	ND	5.2
1,1,2-Trichloroethane	ND	5.2
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.2
Tetrachloroethene	ND	5.2
Dibromochloromethane	ND	5.2
1,2-Dibromoethane	ND	5.2
Chlorobenzene	ND	5.2
1,1,1,2-Tetrachloroethane	ND	5.2
Ethylbenzene	ND	5.2
m,p-Xylenes	ND	5.2
o-Xylene	ND	5.2
Styrene	ND	5.2
Bromoform	ND	5.2
Isopropylbenzene	ND	5.2
1,1,2,2-Tetrachloroethane	ND	5.2
1,2,3-Trichloropropane	ND	5.2
Propylbenzene	ND	5.2
Bromobenzene	ND	5.2
1,3,5-Trimethylbenzene	ND	5.2
2-Chlorotoluene	ND	5.2

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 2

Purgeable Organics by GC/MS

Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5035
Project#:	400582002	Analysis:	EPA 8260B
Field ID:	B3-S-2-1	Diln Fac:	0.9615
Lab ID:	173247-007	Batch#:	92604
Matrix:	Soil	Sampled:	07/06/04
Units:	ug/Kg	Received:	07/06/04
Basis:	dry	Analyzed:	07/07/04

Moisture: 15%

Analyte	Result	RL
Freon 12	ND	11
Chloromethane	ND	11
Vinyl Chloride	ND	11
Bromomethane	ND	11
Chloroethane	ND	11
Trichlorofluoromethane	ND	5.7
Acetone	40	23
Freon 113	ND	5.7
1,1-Dichloroethene	ND	5.7
Methylene Chloride	ND	23
Carbon Disulfide	ND	5.7
MTBE	ND	5.7
trans-1,2-Dichloroethene	ND	5.7
Vinyl Acetate	ND	57
1,1-Dichloroethane	ND	5.7
2-Butanone	ND	11
cis-1,2-Dichloroethene	ND	5.7
2,2-Dichloropropane	ND	5.7
Chloroform	ND	5.7
Bromochloromethane	ND	5.7
1,1,1-Trichloroethane	ND	5.7
1,1-Dichloropropene	ND	5.7
Carbon Tetrachloride	ND	5.7
1,2-Dichloroethane	ND	5.7
Benzene	ND	5.7
Trichloroethene	ND	5.7
1,2-Dichloropropane	ND	5.7
Bromodichloromethane	ND	5.7
Dibromomethane	ND	5.7
4-Methyl-2-Pentanone	ND	11
cis-1,3-Dichloropropene	ND	5.7
Toluene	ND	5.7
trans-1,3-Dichloropropene	ND	5.7
1,1,2-Trichloroethane	ND	5.7
2-Hexanone	ND	11
1,3-Dichloropropane	ND	5.7
Tetrachloroethene	ND	5.7
Dibromochloromethane	ND	5.7
1,2-Dibromoethane	ND	5.7
Chlorobenzene	ND	5.7
1,1,1,2-Tetrachloroethane	ND	5.7
Ethylbenzene	ND	5.7
m,p-Xylenes	5.9	5.7
o-Xylene	ND	5.7
Styrene	ND	5.7
Bromoform	ND	5.7
Isopropylbenzene	ND	5.7
1,1,2,2-Tetrachloroethane	ND	5.7
1,2,3-Trichloropropane	ND	5.7
Propylbenzene	ND	5.7
Bromobenzene	ND	5.7
1,3,5-Trimethylbenzene	ND	5.7
2-Chlorotoluene	ND	5.7

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 2

Purgeable Organics by GC/MS

Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5035
Project#:	400582002	Analysis:	EPA 8260B
Field ID:	B1-S-5-1	Diln Fac:	0.8929
Lab ID:	173247-006	Batch#:	92604
Matrix:	Soil	Sampled:	07/06/04
Units:	ug/Kg	Received:	07/06/04
Basis:	dry	Analyzed:	07/07/04

Analyte	Result	RL
4-Chlorotoluene	ND	5.2
tert-Butylbenzene	ND	5.2
1,2,4-Trimethylbenzene	ND	5.2
sec-Butylbenzene	ND	5.2
para-Isopropyl Toluene	ND	5.2
1,3-Dichlorobenzene	ND	5.2
1,4-Dichlorobenzene	ND	5.2
n-Butylbenzene	ND	5.2
1,2-Dichlorobenzene	ND	5.2
1,2-Dibromo-3-Chloropropane	ND	5.2
1,2,4-Trichlorobenzene	ND	5.2
Hexachlorobutadiene	ND	5.2
Naphthalene	ND	5.2
1,2,3-Trichlorobenzene	ND	5.2

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-120
1,2-Dichloroethane-d4	102	80-120
Toluene-d8	102	80-120
Bromofluorobenzene	100	80-123

Purgeable Organics by GC/MS

Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5035
Project#:	400582002	Analysis:	EPA 8260B
Field ID:	B3-S-2-1	Diln Fac:	0.9615
Lab ID:	173247-007	Batch#:	92604
Matrix:	Soil	Sampled:	07/06/04
Units:	ug/Kg	Received:	07/06/04
Basis:	dry	Analyzed:	07/07/04

Analyte	Result	RL
4-Chlorotoluene	ND	5.7
tert-Butylbenzene	ND	5.7
1,2,4-Trimethylbenzene	ND	5.7
sec-Butylbenzene	ND	5.7
para-Isopropyl Toluene	ND	5.7
1,3-Dichlorobenzene	ND	5.7
1,4-Dichlorobenzene	ND	5.7
n-Butylbenzene	ND	5.7
1,2-Dichlorobenzene	ND	5.7
1,2-Dibromo-3-Chloropropane	ND	5.7
1,2,4-Trichlorobenzene	ND	5.7
Hexachlorobutadiene	ND	5.7
Naphthalene	ND	5.7
1,2,3-Trichlorobenzene	ND	5.7

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-120
1,2-Dichloroethane-d4	101	80-120
Toluene-d8	100	80-120
Bromofluorobenzene	98	80-123

Purgeable Organics by GC/MS

Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5035
Project#:	400582002	Analysis:	EPA 8260B
Field ID:	B3-S-5-1	Diln Fac:	1.250
Lab ID:	173247-008	Batch#:	92604
Matrix:	Soil	Sampled:	07/06/04
Units:	ug/Kg	Received:	07/06/04
Basis:	dry	Analyzed:	07/07/04

Moisture: 26%

Analyte	Result	RL
Freon 12	ND	17
Chloromethane	ND	17
Vinyl Chloride	ND	17
Bromomethane	ND	17
Chloroethane	ND	17
Trichlorofluoromethane	ND	8.4
Acetone	70	34
Freon 113	ND	8.4
1,1-Dichloroethene	ND	8.4
Methylene Chloride	ND	34
Carbon Disulfide	ND	8.4
MTBE	ND	8.4
trans-1,2-Dichloroethene	ND	8.4
Vinyl Acetate	ND	84
1,1-Dichloroethane	ND	8.4
2-Butanone	ND	17
cis-1,2-Dichloroethene	ND	8.4
2,2-Dichloropropane	ND	8.4
Chloroform	ND	8.4
Bromochloromethane	ND	8.4
1,1,1-Trichloroethane	ND	8.4
1,1-Dichloropropene	ND	8.4
Carbon Tetrachloride	ND	8.4
1,2-Dichloroethane	ND	8.4
Benzene	ND	8.4
Trichloroethene	ND	8.4
1,2-Dichloropropane	ND	8.4
Bromodichloromethane	ND	8.4
Dibromomethane	ND	8.4
4-Methyl-2-Pentanone	ND	17
cis-1,3-Dichloropropene	ND	8.4
Toluene	ND	8.4
trans-1,3-Dichloropropene	ND	8.4
1,1,2-Trichloroethane	ND	8.4
2-Hexanone	ND	17
1,3-Dichloropropane	ND	8.4
Tetrachloroethene	ND	8.4
Dibromochloromethane	ND	8.4
1,2-Dibromoethane	ND	8.4
Chlorobenzene	ND	8.4
1,1,1,2-Tetrachloroethane	ND	8.4
Ethylbenzene	ND	8.4
m,p-Xylenes	ND	8.4
o-Xylene	ND	8.4
Styrene	ND	8.4
Bromoform	ND	8.4
Isopropylbenzene	ND	8.4
1,1,2,2-Tetrachloroethane	ND	8.4
1,2,3-Trichloropropane	ND	8.4
Propylbenzene	ND	8.4
Bromobenzene	ND	8.4
1,3,5-Trimethylbenzene	ND	8.4
2-Chlorotoluene	ND	8.4

ND= Not Detected
RL= Reporting Limit
Page 1 of 2

Purgeable Organics by GC/MS

Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5035
Project#:	400582002	Analysis:	EPA 8260B
Field ID:	B3-S-5-1	Diln Fac:	1.250
Lab ID:	173247-008	Batch#:	92604
Matrix:	Soil	Sampled:	07/06/04
Units:	ug/Kg	Received:	07/06/04
Basis:	dry	Analyzed:	07/07/04

Analyte	Result	RL
4-Chlorotoluene	ND	8.4
tert-Butylbenzene	ND	8.4
1,2,4-Trimethylbenzene	ND	8.4
sec-Butylbenzene	ND	8.4
para-Isopropyl Toluene	ND	8.4
1,3-Dichlorobenzene	ND	8.4
1,4-Dichlorobenzene	ND	8.4
n-Butylbenzene	ND	8.4
1,2-Dichlorobenzene	ND	8.4
1,2-Dibromo-3-Chloropropane	ND	8.4
1,2,4-Trichlorobenzene	ND	8.4
Hexachlorobutadiene	ND	8.4
Naphthalene	ND	8.4
1,2,3-Trichlorobenzene	ND	8.4

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	100	80-120
Toluene-d8	97	80-120
Bromofluorobenzene	96	80-123

Purgeable Organics by GC/MS

Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5035
Project#:	400582002	Analysis:	EPA 8260B
Field ID:	B2-S-2-1	Diln Fac:	0.9259
Lab ID:	173247-009	Batch#:	92604
Matrix:	Soil	Sampled:	07/06/04
Units:	ug/Kg	Received:	07/06/04
Basis:	dry	Analyzed:	07/07/04

Moisture: 9%

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.1
Acetone	ND	20
Freon 113	ND	5.1
1,1-Dichloroethene	ND	5.1
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.1
MTBE	ND	5.1
trans-1,2-Dichloroethene	ND	5.1
Vinyl Acetate	ND	51
1,1-Dichloroethane	ND	5.1
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.1
2,2-Dichloropropane	ND	5.1
Chloroform	ND	5.1
Bromochloromethane	ND	5.1
1,1,1-Trichloroethane	ND	5.1
1,1-Dichloropropene	ND	5.1
Carbon Tetrachloride	ND	5.1
1,2-Dichloroethane	ND	5.1
Benzene	ND	5.1
Trichloroethene	ND	5.1
1,2-Dichloropropane	ND	5.1
Bromodichloromethane	ND	5.1
Dibromomethane	ND	5.1
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.1
Toluene	ND	5.1
trans-1,3-Dichloropropene	ND	5.1
1,1,2-Trichloroethane	ND	5.1
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.1
Tetrachloroethene	ND	5.1
Dibromochloromethane	ND	5.1
1,2-Dibromoethane	ND	5.1
Chlorobenzene	ND	5.1
1,1,1,2-Tetrachloroethane	ND	5.1
Ethylbenzene	ND	5.1
m,p-Xylenes	ND	5.1
o-Xylene	ND	5.1
Styrene	ND	5.1
Bromoform	ND	5.1
Isopropylbenzene	ND	5.1
1,1,2,2-Tetrachloroethane	ND	5.1
1,2,3-Trichloropropane	ND	5.1
Propylbenzene	ND	5.1
Bromobenzene	ND	5.1
1,3,5-Trimethylbenzene	ND	5.1
2-Chlorotoluene	ND	5.1

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 2

Purgeable Organics by GC/MS

Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5035
Project#:	400582002	Analysis:	EPA 8260B
Field ID:	B2-S-2-1	Diln Fac:	0.9259
Lab ID:	173247-009	Batch#:	92604
Matrix:	Soil	Sampled:	07/06/04
Units:	ug/Kg	Received:	07/06/04
Basis:	dry	Analyzed:	07/07/04

Analyte	Result	RL
4-Chlorotoluene	ND	5.1
tert-Butylbenzene	ND	5.1
1,2,4-Trimethylbenzene	ND	5.1
sec-Butylbenzene	ND	5.1
para-Isopropyl Toluene	ND	5.1
1,3-Dichlorobenzene	ND	5.1
1,4-Dichlorobenzene	ND	5.1
n-Butylbenzene	ND	5.1
1,2-Dichlorobenzene	ND	5.1
1,2-Dibromo-3-Chloropropane	ND	5.1
1,2,4-Trichlorobenzene	ND	5.1
Hexachlorobutadiene	ND	5.1
Naphthalene	ND	5.1
1,2,3-Trichlorobenzene	ND	5.1

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	101	80-120
Toluene-d8	98	80-120
Bromofluorobenzene	99	80-123

Purgeable Organics by GC/MS

Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5035
Project#:	400582002	Analysis:	EPA 8260B
Field ID:	B32-S-5-1	Diln Fac:	0.8929
Lab ID:	173247-013	Batch#:	92604
Matrix:	Soil	Sampled:	07/06/04
Units:	ug/Kg	Received:	07/06/04
Basis:	dry	Analyzed:	07/07/04

Moisture: 12%

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.1
Acetone	ND	20
Freon 113	ND	5.1
1,1-Dichloroethene	ND	5.1
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.1
MTBE	ND	5.1
trans-1,2-Dichloroethene	ND	5.1
Vinyl Acetate	ND	51
1,1-Dichloroethane	ND	5.1
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.1
2,2-Dichloropropane	ND	5.1
Chloroform	ND	5.1
Bromochloromethane	ND	5.1
1,1,1-Trichloroethane	ND	5.1
1,1-Dichloropropene	ND	5.1
Carbon Tetrachloride	ND	5.1
1,2-Dichloroethane	ND	5.1
Benzene	ND	5.1
Trichloroethene	ND	5.1
1,2-Dichloropropane	ND	5.1
Bromodichloromethane	ND	5.1
Dibromomethane	ND	5.1
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.1
Toluene	ND	5.1
trans-1,3-Dichloropropene	ND	5.1
1,1,2-Trichloroethane	ND	5.1
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.1
Tetrachloroethene	ND	5.1
Dibromochloromethane	ND	5.1
1,2-Dibromoethane	ND	5.1
Chlorobenzene	ND	5.1
1,1,1,2-Tetrachloroethane	ND	5.1
Ethylbenzene	ND	5.1
m,p-Xylenes	ND	5.1
o-Xylene	ND	5.1
Styrene	ND	5.1
Bromoform	ND	5.1
Isopropylbenzene	ND	5.1
1,1,2,2-Tetrachloroethane	ND	5.1
1,2,3-Trichloropropane	ND	5.1
Propylbenzene	ND	5.1
Bromobenzene	ND	5.1
1,3,5-Trimethylbenzene	ND	5.1
2-Chlorotoluene	ND	5.1

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 2

Purgeable Organics by GC/MS

Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5035
Project#:	400582002	Analysis:	EPA 8260B
Field ID:	B32-S-5-1	Diln Fac:	0.8929
Lab ID:	173247-013	Batch#:	92604
Matrix:	Soil	Sampled:	07/06/04
Units:	ug/Kg	Received:	07/06/04
Basis:	dry	Analyzed:	07/07/04

Analyte	Result	RL
4-Chlorotoluene	ND	5.1
tert-Butylbenzene	ND	5.1
1,2,4-Trimethylbenzene	ND	5.1
sec-Butylbenzene	ND	5.1
para-Isopropyl Toluene	ND	5.1
1,3-Dichlorobenzene	ND	5.1
1,4-Dichlorobenzene	ND	5.1
n-Butylbenzene	ND	5.1
1,2-Dichlorobenzene	ND	5.1
1,2-Dibromo-3-Chloropropane	ND	5.1
1,2,4-Trichlorobenzene	ND	5.1
Hexachlorobutadiene	ND	5.1
Naphthalene	ND	5.1
1,2,3-Trichlorobenzene	ND	5.1

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-120
1,2-Dichloroethane-d4	101	80-120
Toluene-d8	98	80-120
Bromofluorobenzene	96	80-123

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5035
Project#:	400582002	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC256741	Diln Fac:	1.000
Matrix:	Soil	Batch#:	92604
Units:	ug/Kg	Analyzed:	07/07/04

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	50.72	101	78-120
Benzene	50.00	48.60	97	80-120
Trichloroethene	50.00	53.28	107	80-120
Toluene	50.00	52.60	105	80-120
Chlorobenzene	50.00	50.25	101	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	97	80-120
Toluene-d8	99	80-120
Bromofluorobenzene	100	80-123

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5035
Project#:	400582002	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC256744	Diln Fac:	1.000
Matrix:	Soil	Batch#:	92604
Units:	ug/Kg	Analyzed:	07/07/04

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

Page 1 of 2

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5035
Project#:	400582002	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC256744	Diln Fac:	1.000
Matrix:	Soil	Batch#:	92604
Units:	ug/Kg	Analyzed:	07/07/04

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-120
1,2-Dichloroethane-d4	99	80-120
Toluene-d8	99	80-120
Bromofluorobenzene	101	80-123

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 5035
Project#:	400582002	Analysis:	EPA 8260B
Field ID:	B3-S-2-1	Batch#:	92604
MSS Lab ID:	173247-007	Sampled:	07/06/04
Matrix:	Soil	Received:	07/06/04
Units:	ug/Kg	Analyzed:	07/09/04
Basis:	dry		

Type: MS Moisture: 15%
 Lab ID: QC256782 Diln Fac: 1.042

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.8118	61.27	56.93	93	69-120
Benzene	<0.4824	61.27	51.65	84	67-120
Trichloroethene	<1.294	61.27	46.10	75	62-131
Toluene	2.961	61.27	53.14	82	61-120
Chlorobenzene	<0.4471	61.27	34.63	57 *	58-120

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	106	80-120
Toluene-d8	101	80-120
Bromofluorobenzene	108	80-123

Type: MSD Moisture: 15%
 Lab ID: QC256783 Diln Fac: 0.9259

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	54.47	48.45	89	69-120	4	20
Benzene	54.47	45.69	84	67-120	0	20
Trichloroethene	54.47	38.70	71	62-131	6	20
Toluene	54.47	45.90	79	61-120	3	20
Chlorobenzene	54.47	28.14	52 *	58-120	9	20

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	106	80-120
Toluene-d8	101	80-120
Bromofluorobenzene	107	80-123

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

Semivolatile Organics by GC/MS

Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C
Field ID:	B1-S-2-1	Batch#:	92684
Lab ID:	173247-005	Sampled:	07/06/04
Matrix:	Soil	Received:	07/06/04
Units:	ug/Kg	Prepared:	07/09/04
Basis:	dry	Analyzed:	07/16/04
Diln Fac:	1.000		

Moisture: 18%

Analyte	Result	RL
N-Nitrosodimethylamine	ND	400
Phenol	ND	400
bis(2-Chloroethyl) ether	ND	400
2-Chlorophenol	ND	400
1,3-Dichlorobenzene	ND	400
1,4-Dichlorobenzene	ND	400
Benzyl alcohol	ND	400
1,2-Dichlorobenzene	ND	400
2-Methylphenol	ND	400
bis(2-Chloroisopropyl) ether	ND	400
4-Methylphenol	ND	400
N-Nitroso-di-n-propylamine	ND	400
Hexachloroethane	ND	400
Nitrobenzene	ND	400
Isophorone	ND	400
2-Nitrophenol	ND	800
2,4-Dimethylphenol	ND	400
Benzoic acid	ND	2,000
bis(2-Chloroethoxy)methane	ND	400
2,4-Dichlorophenol	ND	400
1,2,4-Trichlorobenzene	ND	400
Naphthalene	ND	80
4-Chloroaniline	ND	400
Hexachlorobutadiene	ND	400
4-Chloro-3-methylphenol	ND	400
2-Methylnaphthalene	ND	80
Hexachlorocyclopentadiene	ND	2,000
2,4,6-Trichlorophenol	ND	400
2,4,5-Trichlorophenol	ND	400
2-Chloronaphthalene	ND	400
2-Nitroaniline	ND	800
Dimethylphthalate	ND	400
Acenaphthylene	ND	80
2,6-Dinitrotoluene	ND	400
3-Nitroaniline	ND	800
Acenaphthene	ND	80
2,4-Dinitrophenol	ND	2,000
4-Nitrophenol	ND	800
Dibenzofuran	ND	400
2,4-Dinitrotoluene	ND	400
Diethylphthalate	ND	400
Fluorene	ND	80
4-Chlorophenyl-phenylether	ND	400
4-Nitroaniline	ND	800
4,6-Dinitro-2-methylphenol	ND	2,000
N-Nitrosodiphenylamine	ND	400
Azobenzene	ND	400
4-Bromophenyl-phenylether	ND	400
Hexachlorobenzene	ND	400
Pentachlorophenol	ND	800
Phenanthrene	ND	80
Anthracene	ND	80

ND= Not Detected
RL= Reporting Limit
Page 1 of 2

Semivolatile Organics by GC/MS

Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C
Field ID:	B1-S-2-1	Batch#:	92684
Lab ID:	173247-005	Sampled:	07/06/04
Matrix:	Soil	Received:	07/06/04
Units:	ug/Kg	Prepared:	07/09/04
Basis:	dry	Analyzed:	07/16/04
Diln Fac:	1.000		

Analyte	Result	RL
Di-n-butylphthalate	ND	400
Fluoranthene	160	80
Pyrene	190	80
Butylbenzylphthalate	ND	400
3,3'-Dichlorobenzidine	ND	800
Benzo(a)anthracene	ND	80
Chrysene	100	80
bis(2-Ethylhexyl)phthalate	ND	400
Di-n-octylphthalate	ND	400
Benzo(b)fluoranthene	200	80
Benzo(k)fluoranthene	98	80
Benzo(a)pyrene	84	80
Indeno(1,2,3-cd)pyrene	ND	80
Dibenz(a,h)anthracene	ND	80
Benzo(g,h,i)perylene	ND	80

Surrogate	%REC	Limits
2-Fluorophenol	62	41-120
Phenol-d5	49	39-120
2,4,6-Tribromophenol	70	33-120
Nitrobenzene-d5	62	44-120
2-Fluorobiphenyl	76	48-120
Terphenyl-d14	78	37-120

Semivolatile Organics by GC/MS			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C
Field ID:	B1-S-5-1	Batch#:	92684
Lab ID:	173247-006	Sampled:	07/06/04
Matrix:	Soil	Received:	07/06/04
Units:	ug/Kg	Prepared:	07/09/04
Basis:	dry	Analyzed:	07/16/04
Diln Fac:	1.000		

Moisture: 14%

Analyte	Result	RL
N-Nitrosodimethylamine	ND	390
Phenol	ND	390
bis(2-Chloroethyl) ether	ND	390
2-Chlorophenol	ND	390
1,3-Dichlorobenzene	ND	390
1,4-Dichlorobenzene	ND	390
Benzyl alcohol	ND	390
1,2-Dichlorobenzene	ND	390
2-Methylphenol	ND	390
bis(2-Chloroisopropyl) ether	ND	390
4-Methylphenol	ND	390
N-Nitroso-di-n-propylamine	ND	390
Hexachloroethane	ND	390
Nitrobenzene	ND	390
Isophorone	ND	390
2-Nitrophenol	ND	780
2,4-Dimethylphenol	ND	390
Benzoic acid	ND	1,900
bis(2-Chloroethoxy)methane	ND	390
2,4-Dichlorophenol	ND	390
1,2,4-Trichlorobenzene	ND	390
Naphthalene	ND	78
4-Chloroaniline	ND	390
Hexachlorobutadiene	ND	390
4-Chloro-3-methylphenol	ND	390
2-Methylnaphthalene	ND	78
Hexachlorocyclopentadiene	ND	1,900
2,4,6-Trichlorophenol	ND	390
2,4,5-Trichlorophenol	ND	390
2-Chloronaphthalene	ND	390
2-Nitroaniline	ND	780
Dimethylphthalate	ND	390
Acenaphthylene	ND	78
2,6-Dinitrotoluene	ND	390
3-Nitroaniline	ND	780
Acenaphthene	ND	78
2,4-Dinitrophenol	ND	1,900
4-Nitrophenol	ND	780
Dibenzofuran	ND	390
2,4-Dinitrotoluene	ND	390
Diethylphthalate	ND	390
Fluorene	ND	78
4-Chlorophenyl-phenylether	ND	390
4-Nitroaniline	ND	780
4,6-Dinitro-2-methylphenol	ND	1,900
N-Nitrosodiphenylamine	ND	390
Azobenzene	ND	390
4-Bromophenyl-phenylether	ND	390
Hexachlorobenzene	ND	390
Pentachlorophenol	ND	780
Phenanthrene	ND	78
Anthracene	ND	78

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 2

Semivolatile Organics by GC/MS			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C
Field ID:	B1-S-5-1	Batch#:	92684
Lab ID:	173247-006	Sampled:	07/06/04
Matrix:	Soil	Received:	07/06/04
Units:	ug/Kg	Prepared:	07/09/04
Basis:	dry	Analyzed:	07/16/04
Diln Fac:	1.000		

Analyte	Result	RL
Di-n-butylphthalate	ND	390
Fluoranthene	120	78
Pyrene	160	78
Butylbenzylphthalate	ND	390
3,3'-Dichlorobenzidine	ND	780
Benzo(a)anthracene	ND	78
Chrysene	96	78
bis(2-Ethylhexyl)phthalate	ND	390
Di-n-octylphthalate	ND	390
Benzo(b)fluoranthene	200	78
Benzo(k)fluoranthene	94	78
Benzo(a)pyrene	90	78
Indeno(1,2,3-cd)pyrene	ND	78
Dibenz(a,h)anthracene	ND	78
Benzo(g,h,i)perylene	ND	78

Surrogate	%REC	Limits
2-Fluorophenol	56	41-120
Phenol-d5	40	39-120
2,4,6-Tribromophenol	65	33-120
Nitrobenzene-d5	59	44-120
2-Fluorobiphenyl	71	48-120
Terphenyl-d14	69	37-120

Semivolatile Organics by GC/MS

Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C
Field ID:	B2-S-2-1	Batch#:	92684
Lab ID:	173247-009	Sampled:	07/06/04
Matrix:	Soil	Received:	07/06/04
Units:	ug/Kg	Prepared:	07/09/04
Basis:	dry	Analyzed:	07/16/04
Diln Fac:	1.000		

Moisture: 9%

Analyte	Result	RL
N-Nitrosodimethylamine	ND	370
Phenol	ND	370
bis(2-Chloroethyl) ether	ND	370
2-Chlorophenol	ND	370
1,3-Dichlorobenzene	ND	370
1,4-Dichlorobenzene	ND	370
Benzyl alcohol	ND	370
1,2-Dichlorobenzene	ND	370
2-Methylphenol	ND	370
bis(2-Chloroisopropyl) ether	ND	370
4-Methylphenol	ND	370
N-Nitroso-di-n-propylamine	ND	370
Hexachloroethane	ND	370
Nitrobenzene	ND	370
Isophorone	ND	370
2-Nitrophenol	ND	740
2,4-Dimethylphenol	ND	370
Benzoic acid	ND	1,800
bis(2-Chloroethoxy)methane	ND	370
2,4-Dichlorophenol	ND	370
1,2,4-Trichlorobenzene	ND	370
Naphthalene	ND	74
4-Chloroaniline	ND	370
Hexachlorobutadiene	ND	370
4-Chloro-3-methylphenol	ND	370
2-Methylnaphthalene	ND	74
Hexachlorocyclopentadiene	ND	1,800
2,4,6-Trichlorophenol	ND	370
2,4,5-Trichlorophenol	ND	370
2-Chloronaphthalene	ND	370
2-Nitroaniline	ND	740
Dimethylphthalate	ND	370
Acenaphthylene	ND	74
2,6-Dinitrotoluene	ND	370
3-Nitroaniline	ND	740
Acenaphthene	ND	74
2,4-Dinitrophenol	ND	1,800
4-Nitrophenol	ND	740
Dibenzofuran	ND	370
2,4-Dinitrotoluene	ND	370
Diethylphthalate	ND	370
Fluorene	ND	74
4-Chlorophenyl-phenylether	ND	370
4-Nitroaniline	ND	740
4,6-Dinitro-2-methylphenol	ND	1,800
N-Nitrosodiphenylamine	ND	370
Azobenzene	ND	370
4-Bromophenyl-phenylether	ND	370
Hexachlorobenzene	ND	370
Pentachlorophenol	ND	740
Phenanthrene	ND	74
Anthracene	ND	74

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 2

Semivolatile Organics by GC/MS			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C
Field ID:	B2-S-2-1	Batch#:	92684
Lab ID:	173247-009	Sampled:	07/06/04
Matrix:	Soil	Received:	07/06/04
Units:	ug/Kg	Prepared:	07/09/04
Basis:	dry	Analyzed:	07/16/04
Diln Fac:	1.000		

Analyte	Result	RL
Di-n-butylphthalate	ND	370
Fluoranthene	ND	74
Pyrene	ND	74
Butylbenzylphthalate	ND	370
3,3'-Dichlorobenzidine	ND	740
Benzo(a)anthracene	ND	74
Chrysene	ND	74
bis(2-Ethylhexyl)phthalate	ND	370
Di-n-octylphthalate	ND	370
Benzo(b)fluoranthene	ND	74
Benzo(k)fluoranthene	ND	74
Benzo(a)pyrene	ND	74
Indeno(1,2,3-cd)pyrene	ND	74
Dibenz(a,h)anthracene	ND	74
Benzo(g,h,i)perylene	ND	74

Surrogate	%REC	Limits
2-Fluorophenol	77	41-120
Phenol-d5	65	39-120
2,4,6-Tribromophenol	53	33-120
Nitrobenzene-d5	68	44-120
2-Fluorobiphenyl	81	48-120
Terphenyl-d14	101	37-120

Semivolatile Organics by GC/MS

Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C
Field ID:	B32-S-5-1	Batch#:	92684
Lab ID:	173247-013	Sampled:	07/06/04
Matrix:	Soil	Received:	07/06/04
Units:	ug/Kg	Prepared:	07/09/04
Basis:	dry	Analyzed:	07/16/04
Diln Fac:	1.000		

Moisture: 12%

Analyte	Result	RL
N-Nitrosodimethylamine	ND	380
Phenol	ND	380
bis(2-Chloroethyl) ether	ND	380
2-Chlorophenol	ND	380
1,3-Dichlorobenzene	ND	380
1,4-Dichlorobenzene	ND	380
Benzyl alcohol	ND	380
1,2-Dichlorobenzene	ND	380
2-Methylphenol	ND	380
bis(2-Chloroisopropyl) ether	ND	380
4-Methylphenol	ND	380
N-Nitroso-di-n-propylamine	ND	380
Hexachloroethane	ND	380
Nitrobenzene	ND	380
Isophorone	ND	380
2-Nitrophenol	ND	750
2,4-Dimethylphenol	ND	380
Benzoic acid	ND	1,900
bis(2-Chloroethoxy) methane	ND	380
2,4-Dichlorophenol	ND	380
1,2,4-Trichlorobenzene	ND	380
Naphthalene	ND	75
4-Chloroaniline	ND	380
Hexachlorobutadiene	ND	380
4-Chloro-3-methylphenol	ND	380
2-Methylnaphthalene	ND	75
Hexachlorocyclopentadiene	ND	1,900
2,4,6-Trichlorophenol	ND	380
2,4,5-Trichlorophenol	ND	380
2-Chloronaphthalene	ND	380
2-Nitroaniline	ND	750
Dimethylphthalate	ND	380
Acenaphthylene	ND	75
2,6-Dinitrotoluene	ND	380
3-Nitroaniline	ND	750
Acenaphthene	ND	75
2,4-Dinitrophenol	ND	1,900
4-Nitrophenol	ND	750
Dibenzofuran	ND	380
2,4-Dinitrotoluene	ND	380
Diethylphthalate	ND	380
Fluorene	ND	75
4-Chlorophenyl-phenylether	ND	380
4-Nitroaniline	ND	750
4,6-Dinitro-2-methylphenol	ND	1,900
N-Nitrosodiphenylamine	ND	380
Azobenzene	ND	380
4-Bromophenyl-phenylether	ND	380
Hexachlorobenzene	ND	380
Pentachlorophenol	ND	750
Phenanthrene	ND	75
Anthracene	ND	75

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 2

Batch QC Report

Semivolatile Organics by GC/MS			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC257079	Batch#:	92684
Matrix:	Soil	Prepared:	07/09/04
Units:	ug/Kg	Analyzed:	07/14/04
Basis:	as received		

Analyte	Result	RL
N-Nitrosodimethylamine	ND	330
Phenol	ND	330
bis(2-Chloroethyl) ether	ND	330
2-Chlorophenol	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
Benzyl alcohol	ND	330
1,2-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
bis(2-Chloroisopropyl) ether	ND	330
4-Methylphenol	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
2-Nitrophenol	ND	670
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1,700
bis(2-Chloroethoxy)methane	ND	330
2,4-Dichlorophenol	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	67
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
4-Chloro-3-methylphenol	ND	330
2-Methylnaphthalene	ND	67
Hexachlorocyclopentadiene	ND	1,700
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	670
Dimethylphthalate	ND	330
Acenaphthylene	ND	67
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	670
Acenaphthene	ND	67
2,4-Dinitrophenol	ND	1,700
4-Nitrophenol	ND	670
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
Fluorene	ND	67
4-Chlorophenyl-phenylether	ND	330
4-Nitroaniline	ND	670
4,6-Dinitro-2-methylphenol	ND	1,700
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Pentachlorophenol	ND	670
Phenanthrene	ND	67
Anthracene	ND	67
Di-n-butylphthalate	ND	330
Fluoranthene	ND	67

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 2

Semivolatile Organics by GC/MS			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C
Field ID:	B32-S-5-1	Batch#:	92684
Lab ID:	173247-013	Sampled:	07/06/04
Matrix:	Soil	Received:	07/06/04
Units:	ug/Kg	Prepared:	07/09/04
Basis:	dry	Analyzed:	07/16/04
Diln Fac:	1.000		

Analyte	Result	RL
Di-n-butylphthalate	ND	380
Fluoranthene	ND	75
Pyrene	ND	75
Butylbenzylphthalate	ND	380
3,3'-Dichlorobenzidine	ND	750
Benzo(a)anthracene	ND	75
Chrysene	ND	75
bis(2-Ethylhexyl)phthalate	ND	380
Di-n-octylphthalate	ND	380
Benzo(b)fluoranthene	ND	75
Benzo(k)fluoranthene	ND	75
Benzo(a)pyrene	ND	75
Indeno(1,2,3-cd)pyrene	ND	75
Dibenz(a,h)anthracene	ND	75
Benzo(g,h,i)perylene	ND	75

Surrogate	%REC	Limits
2-Fluorophenol	74	41-120
Phenol-d5	66	39-120
2,4,6-Tribromophenol	52	33-120
Nitrobenzene-d5	65	44-120
2-Fluorobiphenyl	72	48-120
Terphenyl-d14	77	37-120

Batch QC Report

Semivolatile Organics by GC/MS			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC257079	Batch#:	92684
Matrix:	Soil	Prepared:	07/09/04
Units:	ug/Kg	Analyzed:	07/14/04
Basis:	as received		

Analyte	Result	RL
Pyrene	ND	67
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	670
Benzo(a)anthracene	ND	67
Chrysene	ND	67
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	67
Benzo(k)fluoranthene	ND	67
Benzo(a)pyrene	ND	67
Indeno(1,2,3-cd)pyrene	ND	67
Dibenz(a,h)anthracene	ND	67
Benzo(g,h,i)perylene	ND	67

Surrogate	%REC	Limits
2-Fluorophenol	76	41-120
Phenol-d5	77	39-120
2,4,6-Tribromophenol	68	33-120
Nitrobenzene-d5	83	44-120
2-Fluorobiphenyl	90	48-120
Terphenyl-d14	89	37-120

Batch QC Report

Semivolatile Organics by GC/MS			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC257080	Batch#:	92684
Matrix:	Soil	Prepared:	07/09/04
Units:	ug/Kg	Analyzed:	07/15/04
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Phenol	3,375	2,078	62	48-120
2-Chlorophenol	3,375	2,478	73	52-120
1,4-Dichlorobenzene	1,687	1,236	73	50-120
N-Nitroso-di-n-propylamine	1,687	1,208	72	48-120
1,2,4-Trichlorobenzene	1,687	1,289	76	51-120
4-Chloro-3-methylphenol	3,375	2,367	70	53-120
Acenaphthene	1,687	1,324	78	50-120
4-Nitrophenol	3,375	2,182	65	40-128
2,4-Dinitrotoluene	1,687	1,384	82	49-120
Pentachlorophenol	3,375	2,312	69	38-120
Pyrene	1,687	1,342	80	46-120

Surrogate	%REC	Limits
2-Fluorophenol	69	41-120
Phenol-d5	61	39-120
2,4,6-Tribromophenol	83	33-120
Nitrobenzene-d5	71	44-120
2-Fluorobiphenyl	82	48-120
Terphenyl-d14	73	37-120

Polychlorinated Biphenyls (PCBs)

Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 3545
Project#:	400582002	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	07/06/04
Units:	ug/Kg	Received:	07/06/04
Diln Fac:	1.000	Prepared:	07/12/04
Batch#:	92734		

Field ID:	B1-S-2-1	Moisture:	18%
Type:	SAMPLE	Analyzed:	07/15/04
Lab ID:	173247-005	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	32	12

Surrogate	%REC	Limits
TCMX	99	63-140
Decachlorobiphenyl	97	46-151

Field ID:	B1-S-5-1	Moisture:	14%
Type:	SAMPLE	Analyzed:	07/15/04
Lab ID:	173247-006	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	11
Aroclor-1221	ND	22
Aroclor-1232	ND	11
Aroclor-1242	ND	11
Aroclor-1248	ND	11
Aroclor-1254	ND	11
Aroclor-1260	51	11

Surrogate	%REC	Limits
TCMX	101	63-140
Decachlorobiphenyl	97	46-151

Batch QC Report

Semivolatile Organics by GC/MS			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C
Field ID:	ZZZZZZZZZZ	Batch#:	92684
MSS Lab ID:	173298-010	Sampled:	06/25/04
Matrix:	Soil	Received:	06/29/04
Units:	ug/Kg	Prepared:	07/09/04
Basis:	as received	Analyzed:	07/14/04
Diln Fac:	1.000		

Type: MS

Lab ID: QC257081

Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	<32.00	3,310	2,315	70	43-120
2-Chlorophenol	<32.00	3,310	2,475	75	45-120
1,4-Dichlorobenzene	<28.00	1,655	1,239	75	44-120
N-Nitroso-di-n-propylamine	<24.00	1,655	1,168	71	43-120
1,2,4-Trichlorobenzene	<20.00	1,655	1,342	81	43-120
4-Chloro-3-methylphenol	<38.00	3,310	2,487	75	45-120
Acenaphthene	<23.00	1,655	1,309	79	45-120
4-Nitrophenol	<25.00	3,310	2,196	66	37-120
2,4-Dinitrotoluene	<28.00	1,655	1,346	81	40-120
Pentachlorophenol	32.76	3,310	2,504	75	25-120
Pyrene	<28.00	1,655	1,334	81	35-120

Surrogate	%REC	Limits
2-Fluorophenol	68	41-120
Phenol-d5	68	39-120
2,4,6-Tribromophenol	81	33-120
Nitrobenzene-d5	76	44-120
2-Fluorobiphenyl	78	48-120
Terphenyl-d14	79	37-120

Type: MSD

Lab ID: QC257082

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	3,330	2,221	67	43-120	5	41
2-Chlorophenol	3,330	2,260	68	45-120	10	38
1,4-Dichlorobenzene	1,665	1,171	70	44-120	6	42
N-Nitroso-di-n-propylamine	1,665	1,087	65	43-120	8	42
1,2,4-Trichlorobenzene	1,665	1,182	71	43-120	13	42
4-Chloro-3-methylphenol	3,330	2,218	67	45-120	12	40
Acenaphthene	1,665	1,217	73	45-120	8	39
4-Nitrophenol	3,330	2,148	65	37-120	3	43
2,4-Dinitrotoluene	1,665	1,177	71	40-120	14	39
Pentachlorophenol	3,330	1,999	59	25-120	23	48
Pyrene	1,665	1,252	75	35-120	7	45

Surrogate	%REC	Limits
2-Fluorophenol	64	41-120
Phenol-d5	64	39-120
2,4,6-Tribromophenol	69	33-120
Nitrobenzene-d5	69	44-120
2-Fluorobiphenyl	73	48-120
Terphenyl-d14	70	37-120

Polychlorinated Biphenyls (PCBs)			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 3545
Project#:	400582002	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	07/06/04
Units:	ug/Kg	Received:	07/06/04
Diln Fac:	1.000	Prepared:	07/12/04
Batch#:	92734		

Field ID:	B2-S-2-1	Moisture:	9%
Type:	SAMPLE	Analyzed:	07/15/04
Lab ID:	173247-009	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	10
Aroclor-1221	ND	21
Aroclor-1232	ND	10
Aroclor-1242	ND	10
Aroclor-1248	ND	10
Aroclor-1254	ND	10
Aroclor-1260	11	10

Surrogate	%REC	Limits
TCMX	78	63-140
Decachlorobiphenyl	69	46-151

Field ID:	B32-S-5-1	Moisture:	12%
Type:	SAMPLE	Analyzed:	07/15/04
Lab ID:	173247-013	Cleanup Method:	EPA 3665A
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	11
Aroclor-1221	ND	22
Aroclor-1232	ND	11
Aroclor-1242	ND	11
Aroclor-1248	ND	11
Aroclor-1254	ND	11
Aroclor-1260	ND	11

Surrogate	%REC	Limits
TCMX	96	63-140
Decachlorobiphenyl	93	46-151

Polychlorinated Biphenyls (PCBs)			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 3545
Project#:	400582002	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	07/06/04
Units:	ug/Kg	Received:	07/06/04
Diln Fac:	1.000	Prepared:	07/12/04
Batch#:	92734		

Type:	BLANK	Analyzed:	07/12/04
Lab ID:	QC257278	Cleanup Method:	EPA 3665A
Basis:	as received		

Analyte	Result	RL
Aroclor-1016	ND	9.6
Aroclor-1221	ND	19
Aroclor-1232	ND	9.6
Aroclor-1242	ND	9.6
Aroclor-1248	ND	9.6
Aroclor-1254	ND	9.6
Aroclor-1260	ND	9.6

Surrogate	%REC	Limits
TCMX	91	63-140
Decachlorobiphenyl	87	46-151

Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 3545
Project#:	400582002	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC257279	Batch#:	92734
Matrix:	Soil	Prepared:	07/12/04
Units:	ug/Kg	Analyzed:	07/12/04
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	164.9	150.8	91	80-129
Aroclor-1260	164.9	158.1	96	80-131

Surrogate	%REC	Limits
TCMX	92	63-140
Decachlorobiphenyl	82	46-151

Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 3545
Project#:	400582002	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	92734
MSS Lab ID:	173302-001	Sampled:	07/07/04
Matrix:	Soil	Received:	07/07/04
Units:	ug/Kg	Prepared:	07/12/04
Basis:	dry	Analyzed:	07/13/04
Diln Fac:	1.000		

Type: MS Moisture: 75%
 Lab ID: QC257280 Cleanup Method: EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<7.200	658.3	485.2	74	65-155
Aroclor-1260	<5.600	658.3	485.6	74	63-127

Surrogate	%REC	Limits
TCMX	70	63-140
Decachlorobiphenyl	51	46-151

Type: MSD Moisture: 75%
 Lab ID: QC257281 Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	656.6	479.0	73	65-155	1	27
Aroclor-1260	656.6	482.9	74	63-127	0	34

Surrogate	%REC	Limits
TCMX	66	63-140
Decachlorobiphenyl	46	46-151

Polynuclear Aromatics by HPLC

Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8310
Field ID:	B1-S-2-1	Batch#:	92857
Lab ID:	173247-005	Sampled:	07/06/04
Matrix:	Soil	Received:	07/06/04
Units:	ug/Kg	Prepared:	07/15/04
Basis:	dry	Analyzed:	07/16/04
Diln Fac:	5.000		

Moisture: 18%

Analyte	Result	RL
Naphthalene	ND	200
Acenaphthylene	ND	400
Acenaphthene	ND	200
Fluorene	ND	40
Phenanthrene	190	20
Anthracene	29	20
Fluoranthene	250	40
Pyrene	270	20
Benzo(a)anthracene	120	20
Chrysene	170	20
Benzo(b)fluoranthene	170	40
Benzo(k)fluoranthene	73	20
Benzo(a)pyrene	160	20
Dibenz(a,h)anthracene	1,400	40
Benzo(g,h,i)perylene	230	40
Indeno(1,2,3-cd)pyrene	160	20

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	139 *	42-124
1-Methylnaphthalene (F)	198 *	44-120

*= Value outside of QC limits; see narrative

ND= Not Detected

RL= Reporting Limit

Page 1 of 1

Polynuclear Aromatics by HPLC

Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8310
Field ID:	B1-S-5-1	Batch#:	92857
Lab ID:	173247-006	Sampled:	07/06/04
Matrix:	Soil	Received:	07/06/04
Units:	ug/Kg	Prepared:	07/15/04
Basis:	dry	Analyzed:	07/16/04
Diln Fac:	5.000		

Moisture: 14%

Analyte	Result	RL
Naphthalene	ND	200
Acenaphthylene	ND	390
Acenaphthene	ND	200
Fluorene	ND	39
Phenanthrene	65	20
Anthracene	ND	20
Fluoranthene	80	39
Pyrene	97	20
Benzo(a)anthracene	42	20
Chrysene	67	20
Benzo(b)fluoranthene	74	39
Benzo(k)fluoranthene	31	20
Benzo(a)pyrene	69	20
Dibenz(a,h)anthracene	710	39
Benzo(g,h,i)perylene	98	39
Indeno(1,2,3-cd)pyrene	68	20

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	118	42-124
1-Methylnaphthalene (F)	160 *	44-120

Polynuclear Aromatics by HPLC

Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8310
Field ID:	B2-S-2-1	Batch#:	92857
Lab ID:	173247-009	Sampled:	07/06/04
Matrix:	Soil	Received:	07/06/04
Units:	ug/Kg	Prepared:	07/15/04
Basis:	dry	Analyzed:	07/17/04
Diln Fac:	4.000		

Moisture: 9%

Analyte	Result	RL
Naphthalene	ND	150
Acenaphthylene	ND	300
Acenaphthene	ND	150
Fluorene	ND	30
Phenanthrene	ND	15
Anthracene	ND	15
Fluoranthene	ND	30
Pyrene	19	15
Benzo(a)anthracene	19	15
Chrysene	56	15
Benzo(b)fluoranthene	70	30
Benzo(k)fluoranthene	22	15
Benzo(a)pyrene	32	15
Dibenz(a,h)anthracene	560	30
Benzo(g,h,i)perylene	88	30
Indeno(1,2,3-cd)pyrene	ND	15

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	80	42-124
1-Methylnaphthalene (F)	75	44-120

Polynuclear Aromatics by HPLC

Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8310
Field ID:	B32-S-5-1	Batch#:	92857
Lab ID:	173247-013	Sampled:	07/06/04
Matrix:	Soil	Received:	07/06/04
Units:	ug/Kg	Prepared:	07/15/04
Basis:	dry	Analyzed:	07/16/04
Diln Fac:	1.000		

Moisture: 12%

Analyte	Result	RL
Naphthalene	ND	38
Acenaphthylene	ND	77
Acenaphthene	ND	38
Fluorene	ND	7.7
Phenanthrene	7.4	3.8
Anthracene	ND	3.8
Fluoranthene	ND	7.7
Pyrene	ND	3.8
Benzo(a)anthracene	ND	3.8
Chrysene	ND	3.8
Benzo(b)fluoranthene	ND	7.7
Benzo(k)fluoranthene	ND	3.8
Benzo(a)pyrene	ND	3.8
Dibenz(a,h)anthracene	26	7.7
Benzo(g,h,i)perylene	ND	7.7
Indeno(1,2,3-cd)pyrene	ND	3.8

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	93	42-124
1-Methylnaphthalene (F)	97	44-120

Batch QC Report

Polynuclear Aromatics by HPLC			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8310
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC257748	Batch#:	92857
Matrix:	Soil	Prepared:	07/15/04
Units:	ug/Kg	Analyzed:	07/16/04
Basis:	as received		

Analyte	Result	RL
Naphthalene	ND	33
Acenaphthylene	ND	67
Acenaphthene	ND	33
Fluorene	ND	6.7
Phenanthrene	ND	3.3
Anthracene	ND	3.3
Fluoranthene	ND	6.7
Pyrene	ND	3.3
Benzo(a)anthracene	ND	3.3
Chrysene	ND	3.3
Benzo(b)fluoranthene	ND	6.7
Benzo(k)fluoranthene	ND	3.3
Benzo(a)pyrene	ND	3.3
Dibenz(a,h)anthracene	ND	6.7
Benzo(g,h,i)perylene	ND	6.7
Indeno(1,2,3-cd)pyrene	ND	3.3

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	113	42-124
1-Methylnaphthalene (F)	109	44-120

Batch QC Report

Polynuclear Aromatics by HPLC			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8310
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC257749	Batch#:	92857
Matrix:	Soil	Prepared:	07/15/04
Units:	ug/Kg	Analyzed:	07/16/04
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Naphthalene	332.0	351.7	106	45-126
Acenaphthylene	664.0	689.6	104	37-120
Acenaphthene	332.0	354.6	107	50-128
Fluorene	66.40	71.35	107	47-128
Phenanthrene	33.20	33.77	102	48-124
Anthracene	33.20	32.69	98	31-120
Benzo(k)fluoranthene	33.20	35.69	108	47-126
Indeno(1,2,3-cd)pyrene	33.20	35.73	108	55-122

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	104	42-124
1-Methylnaphthalene (F)	101	44-120

Batch QC Report

Polynuclear Aromatics by HPLC			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8310
Field ID:	B1-S-5-1	Batch#:	92857
MSS Lab ID:	173247-006	Sampled:	07/06/04
Matrix:	Soil	Received:	07/06/04
Units:	ug/Kg	Prepared:	07/15/04
Basis:	dry	Analyzed:	07/16/04
Diln Fac:	5.000		

 Type: MS
 Lab ID: QC257750

Moisture: 14%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Naphthalene	<44.19	384.5	378.5	98	48-125
Acenaphthylene	<139.5	769.0	823.1	107	42-124
Acenaphthene	<74.42	384.5	478.8	125 *	50-122
Fluorene	<17.44	76.90	92.64	120	52-126
Phenanthrene	65.04	38.45	96.34	81	19-159
Anthracene	<3.372	38.45	46.56	121	28-145
Benzo(k)fluoranthene	31.34	38.45	69.30	99	34-150
Indeno(1,2,3-cd)pyrene	68.23	38.45	106.7	100	24-160

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	125 *	42-124
1-Methylnaphthalene (F)	164 *	44-120

 Type: MSD
 Lab ID: QC257751

Moisture: 14%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Naphthalene	389.4	361.4	93	48-125	6	41
Acenaphthylene	778.8	800.1	103	42-124	4	38
Acenaphthene	389.4	413.4	106	50-122	16	36
Fluorene	77.88	86.99	112	52-126	8	36
Phenanthrene	38.94	99.37	88	19-159	3	50
Anthracene	38.94	44.83	115	28-145	5	47
Benzo(k)fluoranthene	38.94	68.66	96	34-150	2	38
Indeno(1,2,3-cd)pyrene	38.94	119.9	133	24-160	11	41

Surrogate	%REC	Limits
1-Methylnaphthalene (UV)	118	42-124
1-Methylnaphthalene (F)	159 *	44-120

California Title 26 Metals

Lab #:	173247	Project#:	400582002
Client:	Ninyo & Moore	Location:	Dutro
Field ID:	B1-S-2-1	Basis:	dry
Lab ID:	173247-005	Diln Fac:	1.000
Matrix:	Soil	Sampled:	07/06/04
Units:	mg/Kg	Received:	07/06/04

Moisture: 18%

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	2.6	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Arsenic	7.8	0.22	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Barium	180	0.44	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Beryllium	0.61	0.088	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Cadmium	0.91	0.22	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Chromium	69	0.44	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Cobalt	11	0.88	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Copper	36	0.44	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Lead	290	0.13	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Mercury	0.14	0.022	92931	07/19/04	07/19/04	METHOD	EPA 7471A
Molybdenum	0.95	0.88	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Nickel	46	0.88	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Selenium	1.6	0.22	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Silver	ND	0.22	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Thallium	ND	0.22	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Vanadium	37	0.44	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Zinc	130	0.88	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B

California Title 26 Metals

Lab #:	173247	Project#:	400582002
Client:	Ninyo & Moore	Location:	Dutro
Field ID:	B1-S-5-1	Basis:	dry
Lab ID:	173247-006	Diln Fac:	1.000
Matrix:	Soil	Sampled:	07/06/04
Units:	mg/Kg	Received:	07/06/04

Moisture: 14%

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	2.2	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Arsenic	7.3	0.18	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Barium	200	0.36	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Beryllium	0.56	0.073	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Cadmium	0.52	0.18	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Chromium	40	0.36	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Cobalt	11	0.73	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Copper	57	0.36	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Lead	150	0.11	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Mercury	0.079	0.023	92931	07/19/04	07/19/04	METHOD	EPA 7471A
Molybdenum	1.1	0.73	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Nickel	44	0.73	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Selenium	1.4	0.18	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Silver	ND	0.18	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Thallium	ND	0.18	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Vanadium	33	0.36	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Zinc	130	0.73	92584	07/06/04	07/09/04	EPA 3050	EPA 6010B

California Title 26 Metals

Lab #:	173247	Project#:	400582002
Client:	Ninyo & Moore	Location:	Dutro
Field ID:	B2-S-2-1	Basis:	dry
Lab ID:	173247-009	Diln Fac:	1.000
Matrix:	Soil	Sampled:	07/06/04
Units:	mg/Kg	Received:	07/06/04

Moisture: 9%

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	2.2	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Arsenic	3.0	0.18	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Barium	660	0.37	92584	07/06/04	07/09/04	EPA 3050	EPA 6010B
Beryllium	0.34	0.074	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Cadmium	ND	0.18	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Chromium	14	0.37	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Cobalt	0.76	0.74	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Copper	15	0.37	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Lead	7.0	0.11	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Mercury	0.048	0.018	92931	07/19/04	07/19/04	METHOD	EPA 7471A
Molybdenum	ND	0.74	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Nickel	6.4	0.74	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Selenium	1.2	0.18	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Silver	ND	0.18	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Thallium	ND	0.18	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Vanadium	28	0.37	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Zinc	5.8	0.74	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B

California Title 26 Metals

Lab #:	173247	Project#:	400582002
Client:	Ninyo & Moore	Location:	Dutro
Field ID:	B32-S-5-1	Basis:	dry
Lab ID:	173247-013	Diln Fac:	1.000
Matrix:	Soil	Sampled:	07/06/04
Units:	mg/Kg	Received:	07/06/04

Moisture: 12%

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	3.4	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Arsenic	6.3	0.29	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Barium	190	0.57	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Beryllium	0.65	0.11	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Cadmium	ND	0.29	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Chromium	28	0.57	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Cobalt	17	1.1	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Copper	13	0.57	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Lead	6.4	0.17	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Mercury	0.052	0.022	92931	07/19/04	07/19/04	METHOD	EPA 7471A
Molybdenum	ND	1.1	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Nickel	31	1.1	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Selenium	1.7	0.29	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Silver	ND	0.29	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Thallium	ND	0.29	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Vanadium	30	0.57	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B
Zinc	30	1.1	92584	07/06/04	07/08/04	EPA 3050	EPA 6010B

Batch QC Report

California Title 26 Metals			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 3050
Project#:	400582002	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC256664	Batch#:	92584
Matrix:	Soil	Prepared:	07/06/04
Units:	mg/Kg	Analyzed:	07/08/04
Basis:	as received		

Analyte	Result	RL
Antimony	ND	3.0
Arsenic	ND	0.25
Barium	ND	0.50
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.50
Cobalt	ND	1.0
Copper	ND	0.50
Lead	ND	0.15
Molybdenum	ND	1.0
Nickel	ND	1.0
Selenium	ND	0.25
Silver	ND	0.25
Thallium	ND	0.25
Vanadium	ND	0.50
Zinc	ND	1.0

Batch QC Report

California Title 26 Metals			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 3050
Project#:	400582002	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	92584
Units:	mg/Kg	Prepared:	07/06/04
Basis:	as received	Analyzed:	07/08/04
Diln Fac:	1.000		

Type: BS Lab ID: QC256665

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	98.00	98	79-128
Arsenic	50.00	48.70	97	79-120
Barium	100.0	95.50	96	80-120
Beryllium	2.500	2.425	97	80-120
Cadmium	10.00	9.450	95	79-120
Chromium	100.0	95.00	95	80-120
Cobalt	25.00	23.55	94	77-120
Copper	12.50	12.30	98	80-120
Lead	100.0	96.00	96	78-120
Molybdenum	20.00	19.55	98	80-120
Nickel	25.00	23.45	94	79-120
Selenium	50.00	47.65	95	71-120
Silver	10.00	9.650	97	78-120
Thallium	50.00	47.35	95	73-120
Vanadium	25.00	24.15	97	80-120
Zinc	25.00	22.90	92	76-120

Type: BSD Lab ID: QC256666

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	95.50	96	79-128	3	20
Arsenic	50.00	47.05	94	79-120	3	20
Barium	100.0	91.50	92	80-120	4	20
Beryllium	2.500	2.340	94	80-120	4	20
Cadmium	10.00	9.100	91	79-120	4	20
Chromium	100.0	92.00	92	80-120	3	20
Cobalt	25.00	22.75	91	77-120	3	20
Copper	12.50	11.95	96	80-120	3	20
Lead	100.0	93.50	94	78-120	3	20
Molybdenum	20.00	18.90	95	80-120	3	20
Nickel	25.00	22.65	91	79-120	3	20
Selenium	50.00	46.30	93	71-120	3	20
Silver	10.00	9.350	94	78-120	3	20
Thallium	50.00	45.75	92	73-120	3	20
Vanadium	25.00	23.35	93	80-120	3	20
Zinc	25.00	22.10	88	76-120	4	20

Batch QC Report

California Title 26 Metals			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	METHOD
Project#:	400582002	Analysis:	EPA 7471A
Analyte:	Mercury	Basis:	as received
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC258039	Batch#:	92931
Matrix:	Soil	Prepared:	07/19/04
Units:	mg/Kg	Analyzed:	07/19/04

Result	RL
ND	0.020

Batch QC Report

California Title 26 Metals			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	METHOD
Project#:	400582002	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	92931
Units:	mg/Kg	Prepared:	07/19/04
Basis:	as received	Analyzed:	07/19/04

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC258040	0.5000	0.4420	88	80-120		
BSD	QC258041	0.5000	0.4700	94	80-120	6	20

Batch QC Report

California Title 26 Metals			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	METHOD
Project#:	400582002	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	B1-S-2-1	Batch#:	92931
MSS Lab ID:	173247-005	Sampled:	07/06/04
Matrix:	Soil	Received:	07/06/04
Units:	mg/Kg	Prepared:	07/19/04
Basis:	dry	Analyzed:	07/19/04

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Moisture	RPD	Lim
MS	QC258042	0.1372	0.5646	0.6481	91	74-131	18%		
MSD	QC258043		0.5444	0.6304	91	74-131	18%	0	22

California Title 26 Metals

Lab #:	173247	Project#:	400582002
Client:	Ninyo & Moore	Location:	Dutro
Field ID:	B3-GW-1	Diln Fac:	1.000
Lab ID:	173247-001	Sampled:	07/06/04
Matrix:	Filtrate	Received:	07/06/04
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	60	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Arsenic	ND	5.0	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Barium	120	10	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Beryllium	ND	2.0	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Cadmium	ND	5.0	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Chromium	ND	10	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Cobalt	ND	20	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Copper	ND	10	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Lead	ND	3.0	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Mercury	ND	0.20	92849	07/15/04	07/15/04	METHOD	EPA 7470A
Molybdenum	ND	20	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Nickel	22	20	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Selenium	ND	5.0	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Silver	ND	5.0	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Thallium	ND	5.0	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Vanadium	ND	10	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Zinc	ND	20	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B

California Title 26 Metals

Lab #:	173247	Project#:	400582002
Client:	Ninyo & Moore	Location:	Dutro
Field ID:	B33-GW-1	Diln Fac:	1.000
Lab ID:	173247-002	Sampled:	07/06/04
Matrix:	Filtrate	Received:	07/06/04
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	60	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Arsenic	5.2	5.0	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Barium	110	10	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Beryllium	ND	2.0	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Cadmium	ND	5.0	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Chromium	ND	10	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Cobalt	ND	20	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Copper	ND	10	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Lead	ND	3.0	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Mercury	ND	0.20	92849	07/15/04	07/15/04	METHOD	EPA 7470A
Molybdenum	ND	20	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Nickel	21	20	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Selenium	ND	5.0	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Silver	ND	5.0	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Thallium	ND	5.0	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Vanadium	ND	10	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Zinc	ND	20	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B

California Title 26 Metals

Lab #:	173247	Project#:	400582002
Client:	Ninyo & Moore	Location:	Dutro
Field ID:	B35-GW-1	Diln Fac:	1.000
Lab ID:	173247-003	Sampled:	07/06/04
Matrix:	Filtrate	Received:	07/06/04
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	60	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Arsenic	ND	5.0	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Barium	ND	10	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Beryllium	ND	2.0	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Cadmium	ND	5.0	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Chromium	ND	10	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Cobalt	ND	20	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Copper	ND	10	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Lead	ND	3.0	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Mercury	ND	0.20	92849	07/15/04	07/15/04	METHOD	EPA 7470A
Molybdenum	ND	20	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Nickel	ND	20	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Selenium	ND	5.0	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Silver	ND	5.0	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Thallium	ND	5.0	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Vanadium	ND	10	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B
Zinc	ND	20	92577	07/06/04	07/08/04	EPA 3010	EPA 6010B

Batch QC Report

California Title 26 Metals			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 3010
Project#:	400582002	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC256637	Batch#:	92577
Matrix:	Water	Prepared:	07/06/04
Units:	ug/L	Analyzed:	07/08/04

Analyte	Result	RL
Antimony	ND	60
Arsenic	ND	5.0
Barium	ND	10
Beryllium	ND	2.0
Cadmium	ND	5.0
Chromium	ND	10
Cobalt	ND	20
Copper	ND	10
Lead	3.5	3.0
Molybdenum	ND	20
Nickel	ND	20
Selenium	ND	5.0
Silver	ND	5.0
Thallium	ND	5.0
Vanadium	ND	10
Zinc	ND	20

Batch QC Report

California Title 26 Metals			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 3010
Project#:	400582002	Analysis:	EPA 6010B
Matrix:	Water	Batch#:	92577
Units:	ug/L	Prepared:	07/06/04
Diln Fac:	1.000	Analyzed:	07/08/04

Type: BS Lab ID: QC256638

Analyte	Spiked	Result	%REC	Limits
Antimony	500.0	464.0	93	68-133
Arsenic	100.0	92.30	92	69-129
Barium	2,000	1,770	89	80-120
Beryllium	50.00	48.00	96	80-120
Cadmium	50.00	44.90	90	80-120
Chromium	200.0	184.0	92	80-120
Cobalt	500.0	458.0	92	80-120
Copper	250.0	234.0	94	80-120
Lead	100.0	96.00	96	61-131
Molybdenum	400.0	375.0	94	80-120
Nickel	500.0	445.0	89	80-120
Selenium	100.0	92.30	92	57-133
Silver	50.00	48.30	97	80-120
Thallium	100.0	86.40	86	52-137
Vanadium	500.0	472.0	94	80-120
Zinc	500.0	446.0	89	80-120

Type: BSD Lab ID: QC256639

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	467.0	93	68-133	1	21
Arsenic	100.0	93.20	93	69-129	1	24
Barium	2,000	1,770	89	80-120	0	20
Beryllium	50.00	48.60	97	80-120	1	20
Cadmium	50.00	45.30	91	80-120	1	20
Chromium	200.0	186.0	93	80-120	1	20
Cobalt	500.0	464.0	93	80-120	1	20
Copper	250.0	236.0	94	80-120	1	20
Lead	100.0	95.90	96	61-131	0	29
Molybdenum	400.0	382.0	96	80-120	2	20
Nickel	500.0	450.0	90	80-120	1	20
Selenium	100.0	92.90	93	57-133	1	28
Silver	50.00	48.20	96	80-120	0	20
Thallium	100.0	85.50	86	52-137	1	28
Vanadium	500.0	477.0	95	80-120	1	20
Zinc	500.0	450.0	90	80-120	1	20

Batch QC Report

California Title 26 Metals			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	EPA 3010
Project#:	400582002	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	92577
MSS Lab ID:	173221-002	Sampled:	07/01/04
Matrix:	Water	Received:	07/02/04
Units:	ug/L	Prepared:	07/06/04
Diln Fac:	1.000	Analyzed:	07/08/04

Type: MS Lab ID: QC256640

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<12.00	500.0	477.0	95	56-142
Arsenic	<3.300	100.0	98.30	98	58-143
Barium	3.110	2,000	1,800	90	71-120
Beryllium	<0.1300	50.00	49.90	100	73-120
Cadmium	0.2380	50.00	45.70	91	66-120
Chromium	2.020	200.0	191.0	94	69-120
Cobalt	<0.7600	500.0	471.0	94	67-120
Copper	1.820	250.0	243.0	96	73-120
Lead	<1.300	100.0	97.00	97	40-143
Molybdenum	<2.400	400.0	389.0	97	65-120
Nickel	1.240	500.0	452.0	90	65-120
Selenium	<3.200	100.0	93.60	94	46-145
Silver	<0.4300	50.00	49.10	98	51-125
Thallium	<1.300	100.0	86.10	86	32-143
Vanadium	31.20	500.0	519.0	98	72-120
Zinc	3.420	500.0	464.0	92	70-120

Type: MSD Lab ID: QC256641

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	494.0	99	56-142	4	23
Arsenic	100.0	99.10	99	58-143	1	34
Barium	2,000	1,850	92	71-120	3	20
Beryllium	50.00	51.40	103	73-120	3	20
Cadmium	50.00	46.90	93	66-120	3	20
Chromium	200.0	197.0	97	69-120	3	20
Cobalt	500.0	484.0	97	67-120	3	20
Copper	250.0	252.0	100	73-120	4	20
Lead	100.0	99.00	99	40-143	2	34
Molybdenum	400.0	403.0	101	65-120	4	20
Nickel	500.0	463.0	92	65-120	2	20
Selenium	100.0	95.50	96	46-145	2	37
Silver	50.00	51.00	102	51-125	4	20
Thallium	100.0	88.60	89	32-143	3	42
Vanadium	500.0	536.0	101	72-120	3	20
Zinc	500.0	475.0	94	70-120	2	20

Batch QC Report

California Title 26 Metals			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	METHOD
Project#:	400582002	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	92849
Lab ID:	QC257719	Prepared:	07/15/04
Matrix:	Water	Analyzed:	07/15/04
Units:	ug/L		

Result	RL
ND	0.20

Batch QC Report

California Title 26 Metals			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	METHOD
Project#:	400582002	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	92849
Matrix:	Water	Prepared:	07/15/04
Units:	ug/L	Analyzed:	07/15/04
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC257720	5.000	5.080	102	80-120		
BSD	QC257721	5.000	4.890	98	80-120	4	20

Batch QC Report

California Title 26 Metals			
Lab #:	173247	Location:	Dutro
Client:	Ninyo & Moore	Prep:	METHOD
Project#:	400582002	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	92849
Field ID:	ZZZZZZZZZZ	Sampled:	06/29/04
MSS Lab ID:	173212-003	Received:	07/02/04
Matrix:	Water	Prepared:	07/15/04
Units:	ug/L	Analyzed:	07/15/04
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC257722	<0.04600	5.000	5.230	105	77-121		
MSD	QC257723		5.000	5.100	102	77-121	3	20

Moisture			
Lab #:	173247	Project#:	400582002
Client:	Ninyo & Moore	Location:	Dutro
Analyte:	Moisture, Percent	Sampled:	07/06/04
Matrix:	Soil	Received:	07/06/04

Field ID	Lab ID	Result
B1-S-2-1	173247-005	NA
B1-S-5-1	173247-006	NA
B3-S-2-1	173247-007	NA
B3-S-5-1	173247-008	NA
B2-S-2-1	173247-009	NA
B4-S-2-1	173247-011	NA
B4-S-5-1	173247-012	NA
B32-S-5-1	173247-013	NA



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Number 176984

Ninyo & Moore
1956 Webster St.
Oakland, CA 94612

Project#: 400582002
Location: City of Emeryville

<u>Sample ID</u>	<u>Lab ID</u>	<u>Sample ID</u>	<u>Lab ID</u>
B10-S-2.0-1	176984-001	B8-S-3.5-1	176984-021
B10-S-3.5-1	176984-002	B8-S-5.0-1	176984-022
B10-S-5.0-1	176984-003	B12-S-2.0-1	176984-023
B9-S-2.0-1	176984-004	B12-S-3.5-1	176984-024
B9-S-3.5-1	176984-005	B12-S-5.0-1	176984-025
B9-S-5.0-1	176984-006	B11-S-2.0-1	176984-026
B14-S-2.0-1	176984-007	B11-S-3.5-1	176984-027
B34-S-2.0-1	176984-008	B11-S-5.0-1	176984-028
B14-S-3.5-1	176984-009	B6-S-2.0-1	176984-029
B14-S-5.0-1	176984-010	B6-S-5.0-1	176984-030
B15-S-2.0-1	176984-011	B25-S-2.0-1	176984-031
B15-S-3.5-1	176984-012	B5-S-3.5-1	176984-032
B15-S-5.0-1	176984-013	B22-S-3.5-1	176984-033
B5B-S-2.0-1	176984-014	B42-S-3.5-1	176984-034
B5B-S-3.5-1	176984-015	B22-S-5.0-1	176984-035
B5B-S-5.0-1	176984-016	B5B-GW-1	176984-036
B7-S-2.0-1	176984-017	B50-GW-1	176984-037
B7-S-3.5-1	176984-018	B18-S-2.0-1	176984-038
B7-S-5.0-1	176984-019	B18-S-3.5-1	176984-039
B8-S-2.0-1	176984-020	B18-S-5.0-1	176984-040

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis.

Signature: _____

Operations Manager

Date: _____

2/28/05

Signature: _____

Project Manager

Date: _____

2/28/05

CASE NARRATIVE

Laboratory number: 176984
Client: Ninyo & Moore
Project: 400582002
Location: City of Emeryville
Request Date: 01/05/05
Samples Received: 01/05/05

This hardcopy data package contains sample and QC results for thirty eight soil samples and two water samples, requested for the above referenced project on 01/05/05. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Water:

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Soil:

Matrix spikes were not reported for one or more batches because the parent sample required a dilution that would have diluted out the spikes. Response exceeding the instrument's linear range was observed for diesel C10-C24 in the MS/MSD of B5-S-2.0-1 (lab # 176983-001) and the MS of B14-S-2.0-1 (lab # 176984-007). Low surrogate recoveries were observed for hexacosane in the MS/MSD of B5-S-2.0-1 (lab # 176983-001). High surrogate recovery was also observed for hexacosane in B7-S-2.0-1 (lab # 176984-017). No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

Low response was observed for Freon 12 in the ICV analyzed 11/21/04 21:19; this analyte was not detected at or above the RL in the associated samples. Low response was observed for bromomethane in the CCV analyzed 01/06/05 09:26; this analyte met minimum response criteria. No other analytical problems were encountered.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM) Water:

176984-037 was prepared outside of hold time; affected data was qualified with "b". High RPD was observed for acenaphthene and pyrene in the BS/BSD for batch 98284; these analytes were not detected at or above the RL in the associated sample. High surrogate recovery was observed for terphenyl-d14 in the method blank for batch 98284; no target analytes were detected in the sample. No other analytical problems were encountered.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM) Soil:

Matrix spikes were not reported for one or more batches because the parent sample required a dilution that would have diluted out the spikes. Low responses were observed for dibenz(a,h)anthracene and indeno(1,2,3-cd)pyrene in the CCV analyzed 01/10/05 16:34; these analytes met minimum response criteria. High response was observed for pyrene; this analyte was not

CASE NARRATIVE

Laboratory number: 176984
Client: Ninyo & Moore
Project: 400582002
Location: City of Emeryville
Request Date: 01/05/05
Samples Received: 01/05/05

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM) Soil:

detected at or above the RL in the associated sample. Low internal standard response was observed for perylene-d12 in B18-S-2.0-1 (lab # 176984-038). High recoveries were observed for pyrene in the MS/MSD of B14-S-2.0-1 (lab # 176984-007); the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

PCBs (EPA 8082) Water:

No analytical problems were encountered.

PCBs (EPA 8082) Soil:

Matrix spikes were not reported for one or more batches because the parent sample required a dilution that would have diluted out the spikes. High responses were observed for Aroclor-1016 and Aroclor-1260 in the CCV analyzed 01/15/05 13:56; these analytes were not detected at or above the RL in the associated samples. High response was observed for Aroclor-1254 in the CCV analyzed 01/12/05 17:16; this analyte was not detected at or above the RL in the associated sample. High surrogate recovery was observed for decachlorobiphenyl in B8-S-2.0-1 (lab # 176984-020); the corresponding TCMX surrogate recovery was within limits, and no target analytes were detected in the sample. No other analytical problems were encountered.

Metals (EPA 6010B) Water:

No analytical problems were encountered.

Metals (EPA 6010B) Soil:

Response exceeding the instrument's linear range was observed for lead in the MSD of B14-S-2.0-1 (lab # 176984-007). Lead was detected above the RL in the method blank for batch 99199 and the method blank for batch 99246; this analyte was detected in samples at a level at least ten times that of the blank. No other analytical problems were encountered.

Moisture (ASTM D2216/CLP):

No analytical problems were encountered.

Chain of Custody

(510) 486-0532 Fax

SIGNATURE

2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900 Phone
(510) 486-0532 Fax

Page 3 of 5

C & T LOGIN #: 176984

Sampler: KML

Report To: KML

Company: NFM

Telephone: (510) 633-5640

Fax: _____

Project No.: 40582002

Project Name: City of Emeryville

Project P.O.:

Turnaround Time: Normal

Lab No.	Sample ID.	Sampling Date Time	Matrix				# of Containers	Preservative			
			Soil	Water	Waste			HCL	H ₂ SO ₄	HNO ₃	ICE
-14	B5B-S-2.0-1	1/5/05	X								
-15	B5B-S-3.5-1	↓	↓								
-16	B5B-S-5.0-1										
-17	B7-S-2.0-1										
-18	B7-S-3.5-1										
-19	B7-S-5.0-1										
-20	B8-S-2.0-1										
-21	B8-S-3.5-1										
-22	B8-S-5.0-1										
-23	B12-S-2.0-1										
-24	B12-S-3.5-1										
-25	B12-S-5.0-1										

☒ Intact ☐ Cold
☒ On Ice ☐ Ambient

Preservative Correct?

☐ Yes ☐ No ☒ N/A

B B *Builly* 1/5/05 4:18
DATE / TIME

DATE / TIME

DATE / TIME

DATE / TIME

1-5-05 4:18
DATE / TIME

DATE / TIME

DATE / TIME

DATE / TIME

[illegible]

SIGNATURE

(510) 486-0532 Fax

SIGNATURE

2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900 Phone
(510) 486-0532 Fax

CHAIN OF CUSTODY

Analysis

C & T LOGIN #: 176984

Sampler: KML

Report To: KML

Company: NEM

Telephone: (510) 633-5646

Fax: _____

Project No.: 40582067

Project Name: City of Emeryville

Project P.O.:

Turnaround Time: Normal

[illegible]

Notes:

Samples -38, -39 & -40
were logged in on "HOLD".

Added HNO_3 to container for metals. JW 1-5-05 ☐ Yes ☒ No ☐ N

SIGNATURE

SAMPLE RECEIPT

☒ Intact ☐ Cold
☒ On Ice ☐ Ambient

Preservative Correct?

☐ Yes ☒ No ☐ N/A

RELINQUISHED BY:

BB *[Signature]* 1/5/05 4:18
DATE / TIME

DATE / TIME

DATE / TIME

RECEIVED BY:

1-5-05 4:16
DATE / TIME

DATE / TIME

DATE / TIME

Subject: RE: C&T Login Summary for 176956
From: "Kris Larson" <klarson@ninyoandmoore.com>
Date: Thu, 6 Jan 2005 08:48:22 -0800
To: "Lisa Brooker" <lisa@ctberk.com>

Lisa,

I need to make some adjustments to the COC prepared on 1/4 and 1/5 for the City of Emeryville project. Please do NOT RUN analysis for PCBs on any of the samples as of this moment. I need re-evaluate our samples to determine which samples need to be analyzed for PCBs. Sorry for the confusion. If you have already started on some of the samples, go ahead and finish, but please hold up the rest until you hear from me later today.

Thanks,

Kristopher M. Larson
Project Environmental Geologist
Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, California 94610
Ph: 510-633-5640
Fax: 510-633-5646

-----Original Message-----

From: Lisa Brooker [mailto:lisa@ctberk.com]
Sent: Wednesday, January 05, 2005 1:10 PM
To: Kris Larson
Subject: C&T Login Summary for 176956

<< File: C&T Login Summary for 176956.htm >>

20
37.5
275
107.5

37.5
275
9/15

176956
176961
176983
176984

CHAIN OF CUSTODY FORM

Page 1 of 3

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(510)486-0900 Phone
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C&T
LOGIN # _____

Analyses

Project No: 40D582002
Project Name: City of Emeryville
Dutro
Project P.O.:
Turnaround Time: Normal

Sampler: KML
Report To: Kris Larson
Company: Ninjo & Moore
Telephone: 510 633-5640
Fax: 510 633-5646

Laboratory Number	Sample ID.	Sampling Date Time	Matrix			# of Containers	Preservative				Field Notes
			Soil	Water	Waste		HCL	H ₂ SO ₄	HNO ₃	ICE	
176961-009	B19-S-20-1	1/4/05	X			1					
-010	B19-S-35-1	1/4/05				1					
>011	B19-S-50-1	1/4/05				1					
1	B19-S-20-1										Hold *
0-013	B21-S-20-1	1/4/05				1					
1-014	B21-S-35-1	1/4/05				1					
0-015	B21-S-50-1	1/4/05				1					Hold *
1-016	B11-S-20-1	1/5/05				1					
0-027	B11-S-35-1	1/5/05				1					
0-028	B11-S-50-1	1/5/05				1					Hold *
0-029	B8-S-20-1	1/5/05				1					
1-021	B8-S-35-1	1/5/05				1					
0-022	B8-S-50-1	1/5/05	N			1					Hold *

Notes: Please analyze for PCBs in place of COCs submitted for this project on 1/4-1/5
PCB analysis included on

RELINQUISHED BY:		RECEIVED BY:	
<u>K Larson</u>	1/6/05 10:30		
	DATE/TIME		DATE/TIME
	DATE/TIME		DATE/TIME
	DATE/TIME		DATE/TIME

Signature

Page 2 of 3

Curtis & Tompkins, Ltd.

Analytical Laboratory Since 1878
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Berkeley, CA 94710
(510)486-0900 Phone
(510)486-0532 Fax

C&T
LOGIN # _____

Analyses

Project No: 400582002

Sampler: *KW*

Report To: Kris Larsa

Project Name: City of Emeryville - Duth

Company : Novo & More

Project P.O.:

Telephone: (510) 633-5640

Turnaround Time: *Normal*

Fax: (510) 633-5646

[illegible]

Signature

Subject: RE: C&T Login Summary for 176956
From: "Kris Larson" <klarson@ninyoandmoore.com>
Date: Thu, 6 Jan 2005 15:50:09 -0800
To: "Lisa Brooker" <lisa@ctberk.com>

Lisa,

I reviewed all the login reports and everything looks OK except I would like samples B18-S-2.0-1 and B18-S-3.5-1 also analyzed for lead and chromium. By the way why is it that some samples have "HOLD" between 8270-SIM and TEHM (ex. B16-S-5.0-1).

-----Original Message-----

From: Lisa Brooker [<mailto:lisa@ctberk.com>]
Sent: Thursday, January 06, 2005 2:40 PM
To: Kris Larson
Subject: C&T Login Summary for 176956

<< File: C&T Login Summary for 176956.htm >>

HOLD samples for the City of Emeryville

Subject: HOLD samples for the City of Emeryville
From: "Kris Larson" <klarson@ninyoandmoore.com>
Date: Thu, 6 Jan 2005 13:11:48 -0800
To: "Lisa Brooker" <lisa@ctberk.com>
CC: "Blair Bridges" <bbridges@ninyoandmoore.com>

Lisa,

Per our conversation today, please run extractions only for analyses TPH-D/TPH-MO (8015M) and PNAs (8270 SIM) for the samples placed on HOLD submitted on January 4th and 5th, 2005 (City of Emeryville). The samples include B5B-S-5.0-1, B6-S-5.0-1, B7-5.0-1, B8-S-5.0-1, B9-S-5.0-1, B10-S-5.0-1, B11-S-5.0-1, B12-S-5.0-1, B13-S-5.0-1, B14-S-5.0-1, B15-S-5.0-1, B16-S-5.0-1, B17-S-5.0-1, B18-S-5.0-1, B19-S-5.0-1, B21-S-5.0-1, and B22-S-5.0-1. Also, please run an extraction only for PCBs (8082) for HOLD samples B6-S-5.0-1, B8-S-5.0-1, B11-S-5.0-1, and B19-S-5.0-1 and B21-S-5.0-1. Also, please analyze the samples B18-S-2.0 and B18-S-3.5, that were not included on the COC submitted 1/5/05, for TPH-D/TPH-MO (8015M) and PNAs (8270 SIM). Please contact me if you have any further questions.

Regards,

Kristopher M. Larson
Project Environmental Geologist
Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, California 94610
Ph: 510-633-5640
Fax: 510-633-5646

-----Original Message-----

From: Lisa Brooker [mailto:lisa@ctberk.com]
Sent: Thursday, January 06, 2005 11:56 AM
To: Kris Larson
Subject: Re: C&T Login Summary for 176956

Hi Kris,

I have a bunch of questions for you. Please call me asap.

Thanks,

Lisa 510.204.2221

Subject: RE: Extracted samples

From: "Kris Larson" <klarson@ninyoandmoore.com>

Date: Tue, 25 Jan 2005 15:37:40 -0800

To: "Lisa Brooker" <lisa@ctberk.com>

Lisa,

Please analyze the following samples that are currently on hold (and have been extracted) for Ninyo & Moore Project No. 400582002, City of Emeryville, and C & T Project No. 176983 and 176984:

- For PNAs using EPA 8270-SIM: Sample No. B-9-S-5-1, B-13-S-5-1, B-16-S-5.0-1, and B17-S-5-1
- For TPH-D and TPH-MO using EPA Method 8015M: Sample No. B9-S-5-1, B-10-S-5-1, B-11-S-5-1, B-21-S-5-1

Please call me if you have any questions.

Regards,

Kristopher M. Larson
Project Environmental Geologist
Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, California 94610
Ph: 510-633-5640
Fax: 510-633-5646

B-9-S-5-1	176984-006
B-13-S-5-1	176961-003
B-16-S-5.0-1	176961-005
B-17-S-5-1	176961-008
B-9-S-5-1	176984-002
B-10-S-5-1	176984-003
B-11-S-5-1	176984-028
B-21-S-5-1	176961-015

-----Original Message-----

From: Lisa Brooker [mailto:lisa@ctberk.com]

Sent: Thursday, January 20, 2005 11:27 AM

To: Kris Larson

Subject: Re: Extracted samples

Hi Kris,

All extracts have a hold time of 40days.

Kris Larson wrote:

17 Jan

Lisa,

What is the holding time for extracted samples to potentially be analyzed for 8270 SIM?

*Kristopher M. Larson
Project Environmental Geologist
Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, California 94610
Ph: 510-633-5640
Fax: 510-633-5646*

Subject: RE: Extracted samples
From: "Kris Larson" <klarson@ninyoandmoore.com>
Date: Wed, 2 Feb 2005 15:06:01 -0800
To: "Lisa Brooker" <lisa@ctberk.com>

Lisa,
Please analyze sample B12-S-5.0-1, which is currently on hold and has been extracted, for TPH-D and TPH-MO using EPA Method 8015M.
Regards,

Kristopher M. Larson
Project Environmental Geologist
Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, California 94610
Ph: 510-633-5640
Fax: 510-633-5646

-----Original Message-----

From: Kris Larson
Sent: Tuesday, January 25, 2005 3:38 PM
To: 'Lisa Brooker'
Subject: RE: Extracted samples

Lisa,
Please analyze the following samples that are currently on hold (and have been extracted) for Ninyo & Moore Project No. 400582002, City of Emeryville, and C & T Project No. 176983 and 176984:

- For PNAs using EPA 8270-SIM: Sample No. B-9-S-5-1, B-13-S-5-1, B-16-S-5.0-1, and B17-S-5-1
- For TPH-D and TPH-MO using EPA Method 8015M: Sample No. B9-S-5-1, B-10-S-5-1, B-11-S-5-1, B-21-S-5-1

Please call me if you have any questions.

Regards,

Kristopher M. Larson
Project Environmental Geologist
Ninyo & Moore

Subject: RE: Reports for C&T job 176984
From: "Kris Larson" <klarson@ninyoandmoore.com>
Date: Tue, 15 Feb 2005 10:20:38 -0800
To: "Lisa Brooker" <lisa@ctberk.com>

Lisa,
I believe you have some 5-ft soil samples on hold for lab report number 176984. Please analyze samples B8-S-5.0-1 and B9-S-5.0-1 for total lead using EPA method 6010B with a 5-day TOT. Please contact me if you have any questions.
Regards,
Kristopher M. Larson
Project Environmental Geologist
Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, California 94610
Ph: 510-633-5640
Fax: 510-633-5646

-----Original Message-----

From: Lisa Brooker [mailto:lisa@ctberk.com]
Sent: Wednesday, February 09, 2005 10:24 AM
To: Kris Larson
Subject: Reports for C&T job 176984

Attached is a PDF version of the hardcopy reports for C&T job 176984. We added sample -025. Take care, Lisa

Email compiled and sent 02/09/05 10:24 AM.

Total Volatile Hydrocarbons

Total Volatile Hydrocarbons

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 5030B
Project#:	400582002	Analysis:	EPA 8015B
Field ID:	B5B-GW-1	Batch#:	98060
Matrix:	Water	Sampled:	01/05/05
Units:	ug/L	Received:	01/05/05
Diln Fac:	1.000	Analyzed:	01/06/05

Type: SAMPLE Lab ID: 176984-036

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	98	70-141
Bromofluorobenzene (FID)	96	80-143

Type: BLANK Lab ID: QC278522

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	106	70-141
Bromofluorobenzene (FID)	103	80-143

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 5030B
Project#:	400582002	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC278524	Batch#:	98060
Matrix:	Water	Analyzed:	01/06/05
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	2,177	109	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	122	70-141
Bromofluorobenzene (FID)	107	80-143

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 5030B
Project#:	400582002	Analysis:	EPA 8015B
Field ID:	B5B-GW-1	Batch#:	98060
MSS Lab ID:	176984-036	Sampled:	01/05/05
Matrix:	Water	Received:	01/05/05
Units:	ug/L	Analyzed:	01/06/05
Diln Fac:	1.000		

Type: MS Lab ID: QC278545

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	23.02	2,000	1,943	96	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	107	70-141
Bromofluorobenzene (FID)	95	80-143

Type: MSD Lab ID: QC278546

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,987	98	80-120	2	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	115	70-141
Bromofluorobenzene (FID)	100	80-143

INITIAL CALIBRATION REPORT FOR 176984 GCVOA Water
Curtis & Tompkins Laboratories

Instrument: GC19 Gas Chromatograph #19 TVH/BTXE Reviewed By: MCH
Calnum: 344466119001 Name: tvh Type: (normal) Date: 18-NOV-2004 19:46 Inj Vol (uL): 5000

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	323_005	344466119005	tvh1	18-NOV-2004 19:46	04WS1982 (1000X), 04WS1966 (5000X)
2	323_006	344466119006	tvh2	18-NOV-2004 20:20	04WS1983 (1000X), 04WS1966 (5000X)
3	323_007	344466119007	tvh3	18-NOV-2004 20:54	04WS1984 (1000X), 04WS1966 (5000X)
4	323_008	344466119008	tvh4	18-NOV-2004 21:27	04WS1985 (2000X), 04WS1966 (5000X)
5	323_009	344466119009	tvh5	18-NOV-2004 22:02	04WS1985 (1000X), 04WS1966 (5000X)

Analyte	Ch						Type	X				units	avg	r ²			Flags
		L1	L2	L3	L4	L5			a0	a1	a2			%RSD	MnR ²	MxRSD	
Gasoline C7-C12	X	737.22	634.99	621.54	791.38	779.53	AVRG	R	0.001403			ng	712.93	11	0.995	20	

23

Curves: AVRGE: Average response factor

Instrument amount = a0 + response * a1 + response² * a2

INITIAL CALIBRATION REPORT FOR 176984 GCVOA Water
Curtis & Tompkins Laboratories

Instrument: GC19 Gas Chromatograph #19 TVH/BTXE Reviewed By: MCH
Calnum: 344481535001 Name: tft/bfb Type: (normal) Date: 29-NOV-2004 14:45 Inj Vol (uL): 5000

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	334_005	344481535005	tft/bfb 1	29-NOV-2004 14:45	04WS1886 (5000X)
2	334_006	344481535006	tft/bfb 2	29-NOV-2004 15:19	04WS1887 (5000X)
3	334_007	344481535007	tft/bfb 3	29-NOV-2004 15:53	04WS1888 (5000X)
4	334_008	344481535008	tft/bfb 4	29-NOV-2004 16:27	04WS1889 (5000X)
5	334_009	344481535009	tft/bfb 5	29-NOV-2004 17:06	04WS1890 (5000X)

Analyte	Ch						Type	X	a0	a1	a2	units	avg	r^2			MnR^2	MxRSD	Flags
		L1	L2	L3	L4	L5								%RSD					
Trifluorotoluene (FID)	X	753.34	734.07	708.17	614.43	654.75	AVRG	R		0.001443		ng	692.95	8		0.995	20		
Bromofluorobenzene (FID)	X	557.13	625.31	481.18	437.79	447.62	AVRG	R		0.001962		ng	509.81	16		0.995	20		

24

Curves: AVR: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

Page 1 of 1

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176984 GCVOA Water
Curtis & Tompkins Laboratories

Instid : GC19 Calname : tvh
Calnum : 344466119001 Caldate : 18-NOV-2004 Caltype :

ICV 344466119011 (323_011) standards: 04WS2154 (1000X), 04WS1966 (5000X)

Analyte	Ch	ICV	Segnum	Date	Spiked	Quant	Units	%D
Gasoline C7-C12	X	344466119011		18-NOV-2004	10000.0	11032	ng	10

CONTINUING CALIBRATION SUMMARY FOR 176984 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Gasoline C7-C12

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg		SpkAmt	OntAmt	Units	%D	Max	%D	Flags
						RF/CF	RF/CF							
GC19	X	345009149003	06-JAN-2005 09:38	344466119001	18-NOV-2004	712.93	776.13	10000	10886	ng	9	15		u
GC19	X	345009149014	06-JAN-2005 16:13	344466119001	18-NOV-2004	712.93	767.57	15000	16150	ng	8	15		

CONTINUING CALIBRATION SUMMARY FOR 176984 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Trifluorotoluene (FID)

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg		SpkAmt	QntAmt	Units	%D Max	%D	Flags
						RF/CF	RF/CF						
GC19	X	345009149002	06-JAN-2005 09:03	344481535001	29-NOV-2004	692.95	708.58	450.00	460.15	ng	2	15	
GC19	X	345009149003	06-JAN-2005 09:38	344481535001	29-NOV-2004	692.95	842.77	450.00	547.29	ng	22	15	c+ u PAH
GC19	X	345009149013	06-JAN-2005 15:39	344481535001	29-NOV-2004	692.95	688.97	450.00	447.41	ng	-1	15	

Del. m

CONTINUING CALIBRATION SUMMARY FOR 176984 GCVOA Water
Curtis & Tompkins Laboratories

Analyte: Bromofluorobenzene (FID)

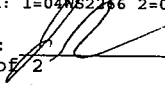
Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg		SpkAmt	OntAmt	Units	%D Max	%D	Flags
						RF/CF	RF/CF						
GC19	X	345009149002	06-JAN-2005 09:03	344481535001	29-NOV-2004	509.81	518.51	450.00	457.69	ng	2	15	
GC19	X	345009149003	06-JAN-2005 09:38	344481535001	29-NOV-2004	509.81	547.86	450.00	483.59	ng	7	15	u
GC19	X	345009149013	06-JAN-2005 15:39	344481535001	29-NOV-2004	509.81	525.49	450.00	463.84	ng	3	15	

SEQUENCE SUMMARY
Curtis & Tompkins LaboratoriesSequence: 345009149 Instrument: GC19
Analytical Method: EPA 8015B
Analytical Method: EPA 8021BGas Chromatograph #19 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 06-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds	Used	>LR
001	006_001	X	IB			06-JAN-2005 08:29	1.0						1		
002	006_002	CCV/BS	QC278523	98060	Water	06-JAN-2005 09:03	1.0			5000			2 1	Pro	
003	006_003	CCV/LCS	QC278524	98060	Water	06-JAN-2005 09:38	1.0			5000			3 1		
004	006_004	BLANK	QC278522	98060	Water	06-JAN-2005 10:12	1.0	4		5000			1	L mac	
005	006_005	MSS	176984-036	98060	Water	06-JAN-2005 10:46	1.0	2		5000			1		
006	006_006	MS	QC278545	98060	Water	06-JAN-2005 11:20	1.0			5000			3 1	Pay	
007	006_007	MSD	QC278546	98060	Water	06-JAN-2005 11:54	1.0			5000			3 1		
008	006_008	SAMPLE	176998-001	98060	Water	06-JAN-2005 12:48	1.0			5000			1		
009	006_009	SAMPLE	176999-001	98060	Water	06-JAN-2005 13:22	5.0	2		5000			1		
010	006_010	SAMPLE	176999-002	98060	Water	06-JAN-2005 13:56	50.0			5000			1		1:GAS:7--52994.5
011	006_011	X	ib			06-JAN-2005 14:30	1.0			5000			1		
012	006_012	BSD	QC278573	98060	Water	06-JAN-2005 15:04	1.0			5000			2 1	Pay	
013	006_013	CCV	mbtxe	98060		06-JAN-2005 15:39	1.0			5000			2 1		
014	006_014	CCV	tvh	98060		06-JAN-2005 16:13	1.0			5000			3 1		
015	006_015	CCV	tvh	98060		06-JAN-2005 16:47	1.0			5000			3 1		
016	006_016	SAMPLE	177001-001	98060	Water	06-JAN-2005 17:21	1.0			5000			1		
017	006_017	SAMPLE	177001-002	98060	Water	06-JAN-2005 17:55	1.0			5000			1		
018	006_018	SAMPLE	177001-003	98060	Water	06-JAN-2005 18:29	1.0			5000			1		
019	006_019	SAMPLE	177001-004	98060	Water	06-JAN-2005 19:03	1.0			5000			1		
020	006_020	SAMPLE	177001-005	98060	Water	06-JAN-2005 19:37	1.0			5000			1		
021	006_021	SAMPLE	177001-006	98060	Water	06-JAN-2005 20:11	1.0			5000			1		
022	006_022	SAMPLE	177001-007	98060	Water	06-JAN-2005 20:45	1.0			5000			1		
023	006_023	SAMPLE	177001-008	98060	Water	06-JAN-2005 21:20	1.0			5000			1		
024	006_024	SAMPLE	177001-009	98060	Water	06-JAN-2005 21:54	1.0			5000			1		
025	006_025	SAMPLE	177001-010	98060	Water	06-JAN-2005 22:29	1.0	3	1	5000			1		4:GAS:7--52007.8
026	006_026	X	ib			06-JAN-2005 23:03	1.0			5000			1		
027	006_027	CCV	mbtxe	98060		06-JAN-2005 23:37	1.0			5000			2 1	Pay	
028	006_028	CCV	mbtxe	98060		07-JAN-2005 00:11	1.0			5000			2 1		
029	006_029	CCV	tvh	98060		07-JAN-2005 00:45	1.0			5000			3 1		
030	006_030	CCV	tvh	98060		07-JAN-2005 01:20	1.0			5000			3 1		

Stds used: 1=04WS2256 2=04WS2416 3=04WS2408

Analyst: 

Date: 1.7.05

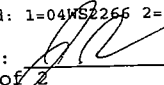
Page 1 of 2

SEQUENCE SUMMARY
Curtis & Tompkins LaboratoriesSequence: 345009149 Instrument: GC19
Analytical Method: EPA 8015B
Analytical Method: EPA 8021BGas Chromatograph #19 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 06-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds	Used	>LR
031	006_031	SAMPLE	177009-001	98060	Water	07-JAN-2005 01:54	1.0			5000			1		
032	006_032	SAMPLE	177009-002	98060	Water	07-JAN-2005 02:28	1.0			5000			1		
033	006_033	SAMPLE	177009-003	98060	Water	07-JAN-2005 03:03	25.0			5000			1		
034	006_034	SAMPLE	177001-013	98060	Water	07-JAN-2005 03:37	1.0			5000			1		
035	006_035	SAMPLE	177001-011	98060	Water	07-JAN-2005 04:12	1.0	9	3	5000			1		12:GAS:6--169910
036	006_036	SAMPLE	177001-012	98060	Water	07-JAN-2005 04:46	1.0	5	1	5000			1		7:GAS:6--60557.3
037	006_037	X	ib			07-JAN-2005 05:21	1.0			5000			1		
038	006_038	CCV	mbtxe	98060		07-JAN-2005 05:54	1.0			5000			2 1	Pay	
039	006_039	CCV	mbtxe	98060		07-JAN-2005 06:29	1.0			5000			2 1		
040	006_040	CCV	tvh	98060		07-JAN-2005 07:03	1.0			5000			3 1		
041	006_041	CCV	tvh	98060		07-JAN-2005 07:37	1.0			5000			3 1		

Stds used: 1=04WS2256 2=04WS2416 3=04WS2408

Analyst: 

Date: 1.7.05

Page 2 of 2

Continued on Page

Read and Understood By

Signed 

Date 1.7.05

29

Signed 

Date 1/7/05

SEQUENCE SUMMARY
Curtis & Tompkins LaboratoriesSequence: 344466119 Instrument: GC19
Analytical Method: EPA 8015B
Analytical Method: EPA 8021BGas Chromatograph #19 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 18-NOV-2004

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK	uL	VL	pH	Stds	Used	>LR
001	323_001	CCV/LCS	QC272899	96649	Water	18-NOV-2004 16:39	1.0						1 2	Pass	
002	323_002	CCV	minsp	96649		18-NOV-2004 17:13	1.0						3 2	Pass	
003	323_003	X	ib			18-NOV-2004 18:38	1.0						2		
004	323_004	X	ib			18-NOV-2004 19:12	1.0						2		
005	323_005	ICAL	tvh1			18-NOV-2004 19:46	1.0						4 2	Pass/USE	
006	323_006	ICAL	tvh2			18-NOV-2004 20:20	1.0						5 2		
007	323_007	ICAL	tvh3			18-NOV-2004 20:54	1.0						6 2		
008	323_008	ICAL	tvh4			18-NOV-2004 21:27	1.0						7 2		
009	323_009	ICAL	tvh5			18-NOV-2004 22:02	1.0						7 2		
010	323_010	X	ib			18-NOV-2004 22:36	1.0						2		
011	323_011	ICV	tvh			18-NOV-2004 23:10	1.0						1 2	Pass	
012	323_012	X	crbmrk			18-NOV-2004 23:44	1.0						8 9 2		
013	323_013	X	ib			19-NOV-2004 00:18	1.0						2		
014	323_014	X				19-NOV-2004 06:53	1.0						2		
015	323_015	ICAL	tft/bfb 1			19-NOV-2004 07:27	1.0						10	Pass/USE	
016	323_016	ICAL	tft/bfb 2			19-NOV-2004 08:05	1.0						11		
017	323_017	ICAL	tft/bfb 3			19-NOV-2004 08:47	1.0						12		
018	323_018	ICAL	tft/bfb 4			19-NOV-2004 09:29	1.0						13		
019	323_019	ICAL	tft/bfb 5			19-NOV-2004 10:16	1.0						14		

Stds used: 1=04WS1154 2=04WS1966 3=04WS1162 4=04WS1982 5=04WS1983 6=04WS1984 7=04WS1985 8=02SS420 9=02SS421 10=04WS1886 11=04WS1887 12=04WS1888 13=04WS1889 14=04WS1890

Analyst: JK
Page 1 of 1Date: 11-19-04

Continued on Page

Signed

Date

Signed

Date

62
PROJECT Calva Sequence by Rock

Notebook No. 51-1461
Continued From Page

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Sequence: 344481535 Instrument: GC19
Analytical Method: EPA 8015B
Analytical Method: EPA 8021B

Gas Chromatograph #19 TVH/BTXE
SOP Version: TVH_BTXE_rv11
SOP Version: TVH_BTXE_rv11

Begun: 29-NOV-2004

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds	Used	>LR
001	334_001	X	ib			29-NOV-2004 09:35	1.0						1		
002	334_002	CCV/LCS	QC274038	96923	Soil	29-NOV-2004 10:08	1.0						2	1 Not used	
003	334_003	CCV/LCS	QC274039	96923	Soil	29-NOV-2004 10:42	1.0						3	1	
004	334_004	X	ib			29-NOV-2004 14:11	1.0						1		
005	334_005	ICAL	tft/bfb 1			29-NOV-2004 14:45	1.0						4	pass / use	
006	334_006	ICAL	tft/bfb 2			29-NOV-2004 15:19	1.0						5		
007	334_007	ICAL	tft/bfb 3			29-NOV-2004 15:53	1.0						6		
008	334_008	ICAL	tft/bfb 4			29-NOV-2004 16:27	1.0						7		
009	334_009	ICAL	tft/bfb 5			29-NOV-2004 17:06	1.0						8		

Stds used: 1=04WS1966 2=04WS2151 3=04WS2235 4=04WS1886 5=04WS1887 6=04WS1888 7=04WS1889 8=04WS1890

Analyst:

Date: 11/30/04

Page 1 of 1

Continued on Page

Read and Understood By

Signed

Date

Signed

Date

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 98060
 Date Started: 06-JAN-2005
 Batched by : Adam Pereira

Analysis : N/A
 Bgroup : TVH
 Department : GC Organics

Sample	Type	Client	Matrix	Analyses	Due Date
176984-036	/	Ninyo & Moore	Water	TVH	17-JAN-2005
176998-001		ConocoPhillips Com	Water	TVH	12-JAN-2005
176999-001		ConocoPhillips Com	Water	BTXE	12-JAN-2005
176999-002		ConocoPhillips Com	Water	BTXE	12-JAN-2005
177001-001		R&M Environmental	Water	MBTXE, TVH	18-JAN-2005
177001-002		R&M Environmental	Water	MBTXE, TVH	18-JAN-2005
177001-003		R&M Environmental	Water	MBTXE, TVH	18-JAN-2005
177001-004		R&M Environmental	Water	MBTXE, TVH	18-JAN-2005
177001-005		R&M Environmental	Water	MBTXE, TVH	18-JAN-2005
177001-006		R&M Environmental	Water	MBTXE, TVH	18-JAN-2005
177001-007		R&M Environmental	Water	MBTXE, TVH	18-JAN-2005
177001-008		R&M Environmental	Water	MBTXE, TVH	18-JAN-2005
177001-009		R&M Environmental	Water	MBTXE, TVH	18-JAN-2005
177001-010		R&M Environmental	Water	MBTXE, TVH	18-JAN-2005
177001-011		R&M Environmental	Water	MBTXE, TVH	18-JAN-2005
177001-012		R&M Environmental	Water	MBTXE, TVH	18-JAN-2005
177001-013		R&M Environmental	Water	MBTXE, TVH	18-JAN-2005
177009-001		SOMA Environmental	Water	MBTXE, TVH	12-JAN-2005
177009-002		SOMA Environmental	Water	MBTXE, TVH	12-JAN-2005
177009-003		SOMA Environmental	Water	MBTXE, TVH	12-JAN-2005
QC278522	MB		Water		
QC278523	BS		Water		
QC278524	LCS		Water		
QC278545	MS	of 176984-036 ,	Water		
QC278546	MSD	of 176984-036	Water		
QC278573	BSD		Water		

20

Total Extractable Hydrocarbons

Total Extractable Hydrocarbons			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3520C
Project#:	400582002	Analysis:	EPA 8015B
Field ID:	B50-GW-1	Sampled:	01/05/05
Matrix:	Water	Received:	01/05/05
Units:	ug/L	Prepared:	01/13/05
Diln Fac:	1.000	Analyzed:	01/14/05
Batch#:	98264		

Type: SAMPLE Lab ID: 176984-037

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

Surrogate	%REC	Limits
Hexacosane	120	53-143

Type: BLANK Cleanup Method: EPA 3630C
Lab ID: QC279281

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

Surrogate	%REC	Limits
Hexacosane	82	53-143

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3520C
Project#:	400582002	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	98264
Units:	ug/L	Prepared:	01/13/05
Diln Fac:	1.000	Analyzed:	01/14/05

Type: BS Cleanup Method: EPA 3630C
Lab ID: QC279282

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,069	83	51-131

Surrogate	%REC	Limits
Hexacosane	82	53-143

Type: BSD Cleanup Method: EPA 3630C
Lab ID: QC279283

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,158	86	51-131	4	42

Surrogate	%REC	Limits
Hexacosane	84	53-143

INITIAL CALIBRATION REPORT FOR 176984 TEHM Water
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: MCH
Calnum: 114442646002 Name: Motor Oil Type: (normal) Date: 02-NOV-2004 17:19 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	307a013	114442646013	mo50	02-NOV-2004 17:19	04WS1208
2	307a014	114442646014	mo250	02-NOV-2004 17:48	04WS1209
3	307a015	114442646015	mo500	02-NOV-2004 18:17	04WS1210
4	307a016	114442646016	mo1000	02-NOV-2004 18:46	04WS1211
5	307a017	114442646017	mo2500	02-NOV-2004 19:16	04WS1212
6	307a018	114442646018	mo5000	02-NOV-2004 19:45	04WS1012

Analyte	L1	L2	L3	L4	L5	L6	Type	X	r^2								
									a0	a1	a2	units	avg	%RSD	MnR^2	McRSD	Flags
Motor Oil C24-C36	15998	18735	18301	18790	19788	17439	AVRG	R		5.502E-5		mg/L	18175	7	0.995	20	

3

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176984 TEHM Water
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: MCH
Calnum: 114491750001 Name: dsl Type: (normal) Date: 06-DEC-2004 12:48 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	341a003	114491750003	dsl10	06-DEC-2004 12:48	04WS1748
2	341a004	114491750004	dsl100	06-DEC-2004 13:18	04WS1747
3	341a005	114491750005	dsl250	06-DEC-2004 13:47	04WS1221
4	341a006	114491750006	dsl500	06-DEC-2004 14:16	04WS1745
5	341a007	114491750007	dsl1000	06-DEC-2004 14:46	04WS1744
6	341a008	114491750008	dsl2500	06-DEC-2004 15:15	04WS1743
7	341a009	114491750009	dsl5000	06-DEC-2004 15:44	04WS1742

Analyte								Type X				units	avg	r^2			MnR^2	MxRSD	Flags
	L1	L2	L3	L4	L5	L6	L7		a0	a1	a2			%RSD					
Diesel C10-C24	20060	28269	32956	30336	29368	28677	27184	AVRG R		3.556E-5		mg/L	28121	14		0.995	20		

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176984 TEHM Water
Curtis & Tompkins Laboratories

Instid : GC11A Calname : dsl
Calnum : 114491750001 Caldate : 06-DEC-2004 Caltype :

ICV 114491750011 (341a011) standards: 04WS2006

Analyte	Ch	ICV	Seqnum	Date	Spiked	Quant	Units	%D
Diesel C10-C24	A	114491750011	06-DEC-2004	500.00	489.94	mg/L	-2	

INITIAL CALIBRATION REPORT FOR 176984 TEHM Water
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: MCH
Calnum: 114506134001 Name: Hexacosane Type: (normal) Date: 16-DEC-2004 12:04 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	351a002	114506134002	hex5	16-DEC-2004 12:04	04WS2042
2	351a003	114506134003	hex10	16-DEC-2004 12:33	04WS2043
3	351a004	114506134004	hex25	16-DEC-2004 13:02	04WS2044
4	351a005	114506134005	hex50	16-DEC-2004 13:31	04WS2045
5	351a006	114506134006	hex75	16-DEC-2004 14:00	04WS2046

Analyte	L1	L2	L3	L4	L5	Type X	a0	a1	a2	units	avg	r^2			Flags
												%RSD	MnR^2	MxRSD	
Hexacosane	29511	28377	29932	29897	29504	AVRG R		3.396E-5		mg/L	29444	2	0.995	20	

39

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176984 TEHM Water
Curtis & Tompkins Laboratories

Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Reviewed By: MMP
Calnum: 165006306001 Name: 004ical Type: (normal) Date: 04-JAN-2005 12:08 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	004b005	165006306005	hex5	04-JAN-2005 12:08	04WS2042
2	004b006	165006306006	hex10	04-JAN-2005 12:37	04WS2043
3	004b007	165006306007	hex25	04-JAN-2005 13:06	04WS2044
4	004b008	165006306008	hex50	04-JAN-2005 13:34	04WS2045
5	004b009	165006306009	hex75	04-JAN-2005 14:03	04WS2046

Analyte						Type X	a0	a1	a2	units	avg	r^2		
	L1	L2	L3	L4	L5							%RSD	MnR^2	MxRSD
Hexacosane	27389	26541	25481	24701	25964	AVRG R		3.844E-5		mg/L	26015	4	0.995	20

40

Curves: AVRGE: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176984 TEHM Water
Curtis & Tompkins Laboratories

Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Reviewed By: MMP
Calnum: 165007836001 Name: dsl Type: (normal) Date: 05-JAN-2005 16:55 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	005b008	165007836008	dsl10	05-JAN-2005 16:55	04WS2298
2	005b009	165007836009	dsl100	05-JAN-2005 17:24	04WS2299
3	005b010	165007836010	dsl250	05-JAN-2005 17:53	04WS2300
4	005b011	165007836011	dsl500	05-JAN-2005 18:22	05WS0019
5	005b012	165007836012	dsl1000	05-JAN-2005 18:51	04WS2302
6	005b013	165007836013	dsl2500	05-JAN-2005 19:19	04WS2303
7	005b014	165007836014	dsl5000	05-JAN-2005 19:48	04WS2297

Analyte								Type X				units	avg	r^2			
	L1	L2	L3	L4	L5	L6	L7		a0	a1	a2			%RSD	MnR^2	MxRSD	Flags
Diesel C10-C24	23318	24894	25697	24281	25048	24627	25228	AVRG R		4.044E-5		mg/L	24727	3	0.995	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176984 TEHM Water
Curtis & Tompkins Laboratories

Instid : GC15B Calname : dsl
Calnum : 165007836001 Caldate : 05-JAN-2005 Caltype :

ICV 165007836023 (005b023) standards: 04WS2006

Analyte	Ch	ICV	Seqnum	Date	Spiked	Quant	Units	%D
Diesel C10-C24	B	165007836023	06-JAN-2005	500.00	488.67	mg/L	-2	

INITIAL CALIBRATION REPORT FOR 176984 TEHM Water
Curtis & Tompkins Laboratories

Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Reviewed By: MMP
Calnum: 165007836002 Name: mo Type: (normal) Date: 05-JAN-2005 20:46 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	005b016	165007836016	mo50	05-JAN-2005 20:46	04WS2172
2	005b017	165007836017	mo250	05-JAN-2005 21:14	04WS2173
3	005b018	165007836018	mo500	05-JAN-2005 21:43	04WS2174
4	005b019	165007836019	mo1000	05-JAN-2005 22:12	04WS2175
5	005b020	165007836020	mo2500	05-JAN-2005 22:41	04WS2176
6	005b021	165007836021	mo5000	05-JAN-2005 23:10	04WS2169

Analyte							Type X				units	avg	r^2			
	L1	L2	L3	L4	L5	L6		a0	a1	a2			%RSD	MnR^2	MxRSD	Flags
Motor Oil C24-C36	17215	16461	16134	14940	12481	10170	AVRG R	6.865E-5			mg/L	14567	19	0.995	20	

43

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

Page 1 of 1

CONTINUING CALIBRATION SUMMARY FOR 176984 TEHM Water
Curtis & Tompkins Laboratories

Analyte: Diesel C10-C24

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg		SpkAmt	QntAmt	Units	%D Max	%D Flags
						RF/CF	RF/CF					
GC11A	A	115020692003	14-JAN-2005 09:49	114491750001	06-DEC-2004	28121	30525	500.00	542.73	mg/L	9	15
GC11A	A	115020692016	14-JAN-2005 18:48	114491750001	06-DEC-2004	28121	30157	1000.0	1072.4	mg/L	7	15
GC15B	B	165020690003	14-JAN-2005 09:47	165007836001	05-JAN-2005	24727	24398	500.00	493.33	mg/L	-1	15
GC15B	B	165020690018	14-JAN-2005 18:53	165007836001	05-JAN-2005	24727	24284	1000.0	982.08	mg/L	-2	15

CONTINUING CALIBRATION SUMMARY FOR 176984 TEHM Water
Curtis & Tompkins Laboratories

Analyte: Motor Oil C24-C36

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg		SpkAmt	QntAmt	Units	%D Max	%D Flags
						RF/CF	RF/CF					
GC11A	A	115020692004	14-JAN-2005 10:19	114442646002	02-NOV-2004	18175	19516	500.00	536.88	mg/L	7	15
GC11A	A	115020692017	14-JAN-2005 19:18	114442646002	02-NOV-2004	18175	19000	500.00	522.71	mg/L	5	15
GC15B	B	165020690004	14-JAN-2005 10:16	165007836002	05-JAN-2005	14567	13242	500.00	454.52	mg/L	-9	15
GC15B	B	165020690019	14-JAN-2005 19:22	165007836002	05-JAN-2005	14567	13167	500.00	451.95	mg/L	-10	15

CONTINUING CALIBRATION SUMMARY FOR 176984 TEHM Water
Curtis & Tompkins Laboratories

Analyte: Hexacosane

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg		SpkAmt	QntAmt	Units	%D	Max	%D	Flags
						RF/CF	RF/CF							
GC11A	A	115020692003	14-JAN-2005 09:49	114506134001	16-DEC-2004	29444	31838	50.000	54.065	mg/L	8	15		
GC11A	A	115020692016	14-JAN-2005 18:48	114506134001	16-DEC-2004	29444	32259	50.000	54.780	mg/L	10	15		
GC15B	B	165020690003	14-JAN-2005 09:47	165006306001	04-JAN-2005	26015	22306	50.000	42.871	mg/L	-14	15		
GC15B	B	165020690018	14-JAN-2005 18:53	165006306001	04-JAN-2005	26015	22553	50.000	43.347	mg/L	-13	15		

SEQUENCE SUMMARY FOR 176984 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 114442646 Instrument: GC11A
Analytical Method: EPA 8015B

Gas Chromatograph #11 (Channel A) TEH
SOP Version: TEH_rv12

Begun: 02-NOV-2004

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds	Used	>LR
001	307a001	X	primer			02-NOV-2004 09:26	1.0								
002	307a002	X	ib			02-NOV-2004 09:55	1.0								
003	307a003	CCV	dsl			02-NOV-2004 10:24	1.0	6		3			1		
004	307a004	CCV	mo			02-NOV-2004 10:54	1.0	4		3			2		
005	307a005	ICAL	dsl10			02-NOV-2004 13:24	1.0						3		
006	307a006	ICAL	dsl100			02-NOV-2004 13:53	1.0						4		
007	307a007	ICAL	dsl250			02-NOV-2004 14:22	1.0						5		
008	307a008	ICAL	dsl500			02-NOV-2004 14:52	1.0						6		
009	307a009	ICAL	dsl1000			02-NOV-2004 15:21	1.0						7		
010	307a010	ICAL	dsl2500			02-NOV-2004 15:50	1.0						8		
011	307a011	ICAL	dsl5000			02-NOV-2004 16:20	1.0						9		
012	307a012	X	ib			02-NOV-2004 16:49	1.0								
013	307a013	ICAL	mo50			02-NOV-2004 17:19	1.0						10		
014	307a014	ICAL	mo250			02-NOV-2004 17:48	1.0						11		
015	307a015	ICAL	mo500			02-NOV-2004 18:17	1.0						12		
016	307a016	ICAL	mo1000			02-NOV-2004 18:46	1.0						13		
017	307a017	ICAL	mo2500			02-NOV-2004 19:16	1.0						14		
018	307a018	ICAL	mo5000			02-NOV-2004 19:45	1.0						15		
019	307a019	X	ib			02-NOV-2004 20:14	1.0								
020	307a020	ICAL	hex5			02-NOV-2004 20:43	1.0						16		
021	307a021	ICAL	hex10			02-NOV-2004 21:13	1.0						17		
022	307a022	ICAL	hex25			02-NOV-2004 21:42	1.0						18		
023	307a023	ICAL	hex50			02-NOV-2004 22:11	1.0						19		
024	307a024	ICAL	hex75			02-NOV-2004 22:40	1.0						20		
025	307a025	X	ib			02-NOV-2004 23:09	1.0								
026	307a026	CCV	dsl			02-NOV-2004 23:39	1.0			3			1		
027	307a027	CCV	mo			03-NOV-2004 00:08	1.0			3			2		
028	307a028	ICV	dsl500			03-NOV-2004 00:38	1.0			3			21		

Stds used: 1=04WS1975 2=04WS2074 3=04WS1748 4=04WS1747 5=04WS1746 6=04WS1745 7=04WS1744 8=04WS1743 9=04WS1742 10=04WS1208 11=04WS1209 12=04WS1210 13=04WS1211 14=04WS1212
15=04WS1012 16=04WS2042 17=04WS2043 18=04WS2044 19=04WS2045 20=04WS2046 21=04WS2006

SEQUENCE SUMMARY FOR 176984 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 114491750 Instrument: GC11A
Analytical Method: EPA 8015B

Gas Chromatograph #11 (Channel A) TEH
SOP Version: TEH_rv12

Begun: 06-DEC-2004

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
001	341a001	X	primer			06-DEC-2004 11:50	1.0						
002	341a002	X	ib			06-DEC-2004 12:19	1.0						
003	341a003	ICAL	dsl110			06-DEC-2004 12:48	1.0	1.0				1	
004	341a004	ICAL	dsl1100			06-DEC-2004 13:18	1.0	1.0				2	
005	341a005	ICAL	dsl1250			06-DEC-2004 13:47	1.0	1.0				3	
006	341a006	ICAL	dsl1500			06-DEC-2004 14:16	1.0	1.0				4	
007	341a007	ICAL	dsl11000			06-DEC-2004 14:46	1.0	1.0				5	
008	341a008	ICAL	dsl12500			06-DEC-2004 15:15	1.0	1.0				6	
009	341a009	ICAL	dsl15000			06-DEC-2004 15:44	1.0	1.0				7	
010	341a010	X	ib			06-DEC-2004 16:14	1.0						
011	341a011	ICV	dsl			06-DEC-2004 16:43	1.0	1.0			3	8	
012	341a012	CCV	dsl			06-DEC-2004 17:13	1.0	1.0			3	9	
013	341a013	CCV	mo			06-DEC-2004 17:42	1.0	1.0			3	10	
014	341a014	SAMPLE	176268-029	97153	Water	06-DEC-2004 18:45	1.0	0.005			3		
015	341a015	SAMPLE	176363-015	S 97153	Water	06-DEC-2004 19:14	1.0	0.005			3		
016	341a016	SAMPLE	176363-012	S 97153	Water	06-DEC-2004 19:43	1.0	0.005			3		
017	341a017	SAMPLE	176363-009	S 97153	Water	06-DEC-2004 20:13	1.0	0.005			3		
018	341a018	SAMPLE	176363-006	S 97153	Water	06-DEC-2004 20:42	1.0	0.005			3		
019	341a019	SAMPLE	176363-003	S 97153	Water	06-DEC-2004 21:11	1.0	0.005			3		
020	341a020	SAMPLE	176268-012	97155	Soil	06-DEC-2004 21:41	1.0	0.1001			3		
021	341a021	SAMPLE	176268-009	97155	Soil	06-DEC-2004 22:10	1.0	0.09915			3		
022	341a022	SAMPLE	176268-015	97155	Soil	06-DEC-2004 22:40	1.0	0.0995			3		
023	341a023	SAMPLE	176341-001	97146	Soil	06-DEC-2004 23:09	50.0	0.1000			3	1:BUNKC:=5196.67	
024	341a024	CCV	dsl			06-DEC-2004 23:38	1.0	1.0			3	11	
025	341a025	CCV	mo			07-DEC-2004 00:07	1.0	1.0			3	12	
026	341a026	X	ccv			07-DEC-2004 00:37	1.0					11	
027	341a027	SAMPLE	176268-010	97155	Soil	07-DEC-2004 01:06	2.0	0.09992			3		
028	341a028	SAMPLE	176268-013	97155	Soil	07-DEC-2004 01:36	1.0	0.09917			3		
029	341a029	SAMPLE	176268-017	97155	Soil	07-DEC-2004 02:06	5.0	0.09976			3		
030	341a030	SAMPLE	176268-002	97146	Soil	07-DEC-2004 02:35	1.0	0.09911			3		
031	341a031	SAMPLE	176268-014	97155	Soil	07-DEC-2004 03:05	3.0	0.0994			3		

Stds used: 1=04WS1748 2=04WS1747 3=04WS1221 4=04WS1745 5=04WS1744 6=04WS1743 7=04WS1742 8=04WS2006 9=04WS2215 10=04WS2074 11=04WS2207 12=04WS2195 13=04WS2258

SEQUENCE SUMMARY FOR 176984 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 114491750 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 06-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	341a032	SAMPLE	176402-001	97155	Soil	07-DEC-2004 03:35	5.0	0.1007	2	1	3	10:BUNKC:=37347.2	
033	341a033	SAMPLE	176268-001	97146	Soil	07-DEC-2004 04:04	2.0	0.1001			3		
034	341a034	SAMPLE	176402-002	97155	Soil	07-DEC-2004 04:34	10.0	0.1008			3	1:BUNKC:=15515.6	
035	341a035	SAMPLE	176268-011	97155	Soil	07-DEC-2004 05:03	20.0	0.1981			3		
036	341a036	SAMPLE	176268-016	97155	Soil	07-DEC-2004 05:33	1.0	0.09968			3		
037	341a037	CCV	dsl			07-DEC-2004 06:02	1.0	1.0			3	13	
038	341a038	CCV	mo			07-DEC-2004 06:32	1.0	1.0			3	12	
039	341a039	X	ccv			07-DEC-2004 07:01	1.0					13	

SEQUENCE SUMMARY FOR 176984 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 114506134 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 16-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
001	351a001	X	ib			16-DEC-2004 11:34	1.0						
002	351a002	ICAL	hex5			16-DEC-2004 12:04	1.0	1.0				1	
003	351a003	ICAL	hex10			16-DEC-2004 12:33	1.0	1.0				2	
004	351a004	ICAL	hex25			16-DEC-2004 13:02	1.0	1.0				3	
005	351a005	ICAL	hex50			16-DEC-2004 13:31	1.0	1.0				4	
006	351a006	ICAL	hex75			16-DEC-2004 14:00	1.0	1.0				5	
007	351a007	X	ib			16-DEC-2004 15:12	1.0						
008	351a008	CCV	dsl			16-DEC-2004 15:41	1.0	1.0			3	6	
009	351a009	CCV	mo			16-DEC-2004 16:10	1.0	1.0			3	7	
010	351a010	SAMPLE	176613-016	97463	Soil	16-DEC-2004 16:44	1.0	0.0994			3		
011	351a011	SAMPLE	176613-014	97463	Soil	16-DEC-2004 17:13	1.0	0.1000			3		
012	351a012	SAMPLE	176613-011	97463	Soil	16-DEC-2004 17:42	1.0	0.09901			3		
013	351a013	SAMPLE	176613-010	97463	Soil	16-DEC-2004 18:12	1.0	0.09994			3		
014	351a014	SAMPLE	176613-008	97463	Soil	16-DEC-2004 18:41	1.0	0.09917			3		
015	351a015	SAMPLE	176613-006	97463	Soil	16-DEC-2004 19:10	1.0	0.09992			3		
016	351a016	SAMPLE	176613-004	97463	Soil	16-DEC-2004 19:39	1.0	0.09944			3		
017	351a017	SAMPLE	176613-003	97463	Soil	16-DEC-2004 20:08	1.0	0.09932			3		
018	351a018	SAMPLE	176613-001	97463	Soil	16-DEC-2004 20:38	1.0	0.09998			3		
019	351a019	LCS	QC276443 S	97521	Soil	16-DEC-2004 21:07	1.0	0.1002			3		
020	351a020	CCV	dsl			16-DEC-2004 21:36	1.0	1.0			3	8	
021	351a021	CCV	mo			16-DEC-2004 22:06	1.0	1.0			3	7	
022	351a022	X	ccv			16-DEC-2004 22:35	1.0					8	

Stds used: 1=04WS2042 2=04WS2043 3=04WS2044 4=04WS2045 5=04WS2046 6=04WS2215 7=04WS2365 8=04WS2207

SEQUENCE SUMMARY FOR 176984 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 165006306 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 04-JAN-2005
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK	uL	VL	pH	Stds	Used	>LR
001	004b001	X	primer			04-JAN-2005 09:06	1.0								
002	004b002	X	ib			04-JAN-2005 09:34	1.0								
003	004b003	X	paint f.p.			04-JAN-2005 10:29	1.0								
004	004b004	X	ib			04-JAN-2005 10:58	1.0								
005	004b005	ICAL	hex5			04-JAN-2005 12:08	1.0						1		
006	004b006	ICAL	hex10			04-JAN-2005 12:37	1.0						2		
007	004b007	ICAL	hex25			04-JAN-2005 13:06	1.0						3		
008	004b008	ICAL	hex50			04-JAN-2005 13:34	1.0						4		
009	004b009	ICAL	hex75			04-JAN-2005 14:03	1.0						5		
010	004b010	X	ib			04-JAN-2005 14:32	1.0								
011	004b011	CCV	dsl			04-JAN-2005 15:01	1.0			3			6		
012	004b012	CCV	mo			04-JAN-2005 15:29	1.0	1		3			7		

51

Stds used: 1=04WS2042 2=04WS2043 3=04WS2044 4=04WS2045 5=04WS2046 6=04WS2406 7=04WS2365

SEQUENCE SUMMARY FOR 176984 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 165007836 Instrument: GC15B
Analytical Method: EPA 8015B

Gas Chromatograph #15 (Channel B) TEH
SOP Version: TEH_rv12

Begun: 05-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds	Used	>LR
003	005b003	CCV	dsl			05-JAN-2005 10:08	1.0	4		3			1		
004	005b004	CCV	mo			05-JAN-2005 10:36	1.0	1		3			2		
005	005b005	X	tank check #			05-JAN-2005 15:21	1.0								
006	005b006	X	tank check 2			05-JAN-2005 15:50	1.0								
007	005b007	X	ib			05-JAN-2005 16:27	1.0								
008	005b008	ICAL	dsl10			05-JAN-2005 16:55	1.0						3		
009	005b009	ICAL	dsl100			05-JAN-2005 17:24	1.0						4		
010	005b010	ICAL	dsl250			05-JAN-2005 17:53	1.0						5		
011	005b011	ICAL	dsl500			05-JAN-2005 18:22	1.0						6		
012	005b012	ICAL	dsl1000			05-JAN-2005 18:51	1.0						7		
013	005b013	ICAL	dsl2500			05-JAN-2005 19:19	1.0						8		
014	005b014	ICAL	dsl5000			05-JAN-2005 19:48	1.0						9		
015	005b015	X	ib			05-JAN-2005 20:17	1.0								
016	005b016	ICAL	mo50			05-JAN-2005 20:46	1.0						10		
017	005b017	ICAL	mo250			05-JAN-2005 21:14	1.0						11		
018	005b018	ICAL	mo500			05-JAN-2005 21:43	1.0						12		
019	005b019	ICAL	mo1000			05-JAN-2005 22:12	1.0						13		
020	005b020	ICAL	mo2500			05-JAN-2005 22:41	1.0						14		
021	005b021	ICAL	mo5000			05-JAN-2005 23:10	1.0						15		
022	005b022	X	ib			05-JAN-2005 23:39	1.0								
023	005b023	ICV	dsl			06-JAN-2005 00:08	1.0			3			16		
024	005b024	X	ib			06-JAN-2005 00:36	1.0								
025	005b025	CCV	dsl			06-JAN-2005 01:05	1.0			3			1		
026	005b026	CCV	mo			06-JAN-2005 01:34	1.0			3			2		

Stds used: 1=04WS2358 2=04WS2365 3=04WS2298 4=04WS2299 5=04WS2300 6=05WS0019 7=04WS2302 8=04WS2303 9=04WS2297 10=04WS2172 11=04WS2173 12=04WS2174 13=04WS2175 14=04WS2176
15=04WS2169 16=04WS2006

SEQUENCE SUMMARY FOR 176984 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 115020692 Instrument: GC11A
Analytical Method: EPA 8015B

Gas Chromatograph #11 (Channel A) TEH
SOP Version: TEH_rv12

Begun: 14-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	014a001	X	primer			14-JAN-2005 08:52	1.0						
002	014a002	X	ib			14-JAN-2005 09:20	1.0						
003	014a003	CCV	dsl			14-JAN-2005 09:49	1.0	1.0			3	1	
004	014a004	CCV	mo			14-JAN-2005 10:19	1.0	1.0			3	2	
005	014a005	SAMPLE	176956-001	98054	Soil	14-JAN-2005 11:13	1.0	0.09948			3		
006	014a006	X	ib			14-JAN-2005 13:26	1.0						
007	014a007	MDL	175695-009	98264	Water	14-JAN-2005 13:55	1.0	0.005			3		
008	014a008	SAMPLE	177071-007	98264	Water	14-JAN-2005 14:24	1.0	0.005			3		
009	014a009	SAMPLE	177074-014	98264	Water	14-JAN-2005 14:54	1.0	0.005208			3		
010	014a010	SAMPLE	177077-001	98264	Water	14-JAN-2005 15:23	1.0	0.005			3		
011	014a011	SAMPLE	177077-002	98264	Water	14-JAN-2005 15:52	1.0	0.005			3		
012	014a012	SAMPLE	177077-003	98264	Water	14-JAN-2005 16:21	1.0	0.005			3		
013	014a013	SAMPLE	177096-002	98264	Water	14-JAN-2005 17:20	1.0	0.005	1		3	1:HXCS=109.183	
014	014a014	SAMPLE	177096-003	98264	Water	14-JAN-2005 17:49	1.0	0.005			3		
015	014a015	SAMPLE	176984-037	98264	Water	14-JAN-2005 18:19	1.0	0.005			3		
016	014a016	CCV	dsl			14-JAN-2005 18:48	1.0	1.0			3	3	
017	014a017	CCV	mo			14-JAN-2005 19:18	1.0	1.0			3	2	
018	014a018	X	ccv			14-JAN-2005 19:47	1.0					3	

Stds used: 1=04WS2358 2=05WS0066 3=04WS2406

SEQUENCE SUMMARY FOR 176984 TEHM Water
Curtis & Tompkins Laboratories

Sequence: 165020690 Instrument: GC15B
Analytical Method: EPA 8015B

Gas Chromatograph #15 (Channel B) TEH
SOP Version: TEH_rv12

Begun: 14-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	014b001	X	primer			14-JAN-2005 08:50	1.0						
002	014b002	X	ib			14-JAN-2005 09:19	1.0						
003	014b003	CCV	dsl			14-JAN-2005 09:47	1.0	1.0			3	1	
004	014b004	CCV	mo			14-JAN-2005 10:16	1.0	1.0			3	2	
005	014b005	CCV	jet			14-JAN-2005 12:34	1.0	1.0			3	3	
006	014b006	BLANK	QC279281 S	98264	Water	14-JAN-2005 13:03	1.0	0.005	7		3		
007	014b007	SAMPLE	177099-002	98264	Water	14-JAN-2005 13:32	1.0	0.005			3		
008	014b008	SAMPLE	177099-003	98264	Water	14-JAN-2005 14:01	1.0	0.005			3		
009	014b009	SAMPLE	177099-004	98264	Water	14-JAN-2005 14:30	1.0	0.005			3		
010	014b010	SAMPLE	177099-005	98264	Water	14-JAN-2005 14:58	1.0	0.005			3		
011	014b011	SAMPLE	177099-001	98264	Water	14-JAN-2005 15:27	1.0	0.005			3		
012	014b012	SAMPLE	177029-019	98264	Water	14-JAN-2005 15:56	1.0	0.005			3		
013	014b013	X	ib			14-JAN-2005 16:25	1.0						
014	014b014	MDL	175695-009	98264	Water	14-JAN-2005 16:57	1.0	0.005			3		
015	014b015	X	ib			14-JAN-2005 17:26	1.0						
016	014b016	BS	QC279282 S	98264	Water	14-JAN-2005 17:55	1.0	0.005			3		
017	014b017	BSD	QC279283 S	98264	Water	14-JAN-2005 18:24	1.0	0.005			3		
018	014b018	CCV	dsl			14-JAN-2005 18:53	1.0	1.0			3	4	
019	014b019	CCV	mo			14-JAN-2005 19:22	1.0	1.0			3	2	
020	014b020	X	ccv			14-JAN-2005 19:50	1.0					4	
021	014b021	CCV	jet			14-JAN-2005 20:19	1.0	1.0			3	3	

Stds used: 1=04WS2358 2=05WS0066 3=04WS2272 4=04WS2406

Curtis & Tompkins Laboratories Sample Preparation Summary

14-JAN-2005 11:01

Batch Number : 98264
 Date Extracted: 13-JAN-2005
 Extracted by : Jennifer R Dell
 Prep Method : 3520C

Analysis : N/A
 Bgroup : TEH
 Units : ml
 Clean-up :

Spike #1 ID : 04WS2345D
 Spike #2 ID : 04WS2342D
 Spike #3 ID : 04WS2299A

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
175695-009		MDL Studies	Water	1000	ml	5	0.005000	1		1	0	.3	TEH		MDL Check
176984-037		Ninyo & Moore	Water	500	ml	2.5	0.005000	1	7	.5	0	0	TEHM		
177029-019		Weiss Associates	Water	500	ml	2.5	0.005000	1	1	.5	0	0	TEHM		preserved w HCl
177071-007		Tetra Tech, Inc.	Water	500	ml	2.5	0.005000	1	7	.5	0	0	TEH		
177074-014		URS Corporation	Water	480	ml	2.5	0.005208	1	7	.5	0	0	TEH		comp 10,11,12,13,15,16,
177077-001		SOMA Environmental Engineering	Water	500	ml	2.5	0.005000	1	7	.5	0	0	TEHM		
177077-002		SOMA Environmental Engineering	Water	500	ml	2.5	0.005000	1	7	.5	0	0	TEHM		
177077-003		SOMA Environmental Engineering	Water	500	ml	2.5	0.005000	1	7	.5	0	0	TEHM		
177096-001		SOMA Environmental Engineering	Water	500	ml	2.5	0.005000	1	7	.5	0	0	TEH	3630C	sg
177096-002		SOMA Environmental Engineering	Water	500	ml	2.5	0.005000	1	7	.5	0	0	TEH		
177096-003		SOMA Environmental Engineering	Water	500	ml	2.5	0.005000	1	7	.5	0	0	TEH		
177099-001		Burns & McDonnell	Water	500	ml	2.5	0.005000	1	7	.5	0	0	TEH		sg if hit
177099-002		Burns & McDonnell	Water	500	ml	2.5	0.005000	1	7	.5	0	0	TEH		sg if hit
177099-003		Burns & McDonnell	Water	500	ml	2.5	0.005000	1	7	.5	0	0	TEH		sg if hit
177099-004		Burns & McDonnell	Water	500	ml	2.5	0.005000	1	7	.5	0	0	TEH		sg if hit
177099-005		Burns & McDonnell	Water	500	ml	2.5	0.005000	1	7	.5	0	0	TEH		sg if hit
QC279281	MB		Water	1000	ml	5	0.005000	1		1	0	0	TEH	3630C	sg
QC279282	BS		Water	1000	ml	5	0.005000	1		1	1	0	TEH	3630C	sg
QC279283	BSD		Water	1000	ml	5	0.005000	1		1	1	0	TEH	3630C	sg

Prep Chemist:

Jennifer Dell

Reviewed By:

K. Rey

Date: 14 JAN 05

Relinquished By:

K. Rey

Received By:

MS

Date: 1/14/05

LIMS Batch No: 98204
 LIMS Analysis: TEH
 Extracted by: JD
 Date Extracted: 1/13/05

Extraction Method:

☐ mod. EPA 3510 sep. funnel

☒ mod. EPA 3520 cont. L/L

☐

Page 78

Cleanup Method (if needed):

☒ EPA 3630 Silica Gel

☐ Other

Sample # & letter	Volume of Sample (ml)	Sample pH	Final Volume (ml)	Cleanup (x if needed)	Comments
175645-009	1000	N/A	5.0		MDL check
170984-037	500	7	2.5		
177029-019	↓	↓			preserved with HCl
177071-007	↓	7			
177044-014	450				comp. with 175645/177029
177071-001	500				
↓ -002					
↓ -003					
177096-001				X	
↓ -002					
↓ -003					
177094-001					89.1 f/ml
↓ -002					
↓ -003					
↓ -N/A					
↓ -005					
MB 01279281	1000	N/A	5.0	X	
BS ↓ 82	↓	↓	↓	X	
BSD ↓ 83	↓	↓	↓	X	
20					
K2					
W SAN 85					

- 1000 mL of TEH SURR was added to all samples
 10/10.3 mL of TEH SP was added to all spikes
 pH of all samples adjusted to pH ≤ 2 with H₂SO₄
☒ Samples were continually extracted about 450 mL of CH₂Cl₂
 Extraction Start Time: 1030
 Extraction End Time: 0730
☐ Samples were extracted 3 times with 60 mL of CH₂Cl₂
 Extracts filtered through baked, CH₂Cl₂-rinsed granular Na₂SO₄
 Concentrated to volumes as noted above

Mfg & Lot / LIMS # / Time Date / Initials

1401523450	10/1/05
140523420/10452299A	
116/10030	
0114244	
1030	✓
0730	1/13/05 JD
NA	
EM49135439	
✓	↓

Jennifer Allen 1/13/05

L. Rogers

14 JAN 05

Page 77

☒ Extracts were cleaned up using C-18 assembled 10 g columns

☐ Extracts were cleaned up using 2 g cartridges

Extracts were eluted with 40 ml CH₂Cl₂

Concentrated to volume, as noted above

Mfg. & Lot #/Time / Program	Initials / Date
JTB 103332	SA B JAN 05
NR	
EM42-14 EM 94244	
F	Y

Reviewed by: _____ Date: _____

Total Extractable Hydrocarbons

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	SHAKER TABLE
Project#:	400582002	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	01/05/05
Units:	mg/Kg	Received:	01/05/05

Field ID:	B10-S-2.0-1	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	98090
Lab ID:	176984-001	Prepared:	01/07/05
Basis:	dry	Analyzed:	01/08/05
Moisture:	16%		

Analyte	Result	RL
Diesel C10-C24	200 H Y	1.2
Motor Oil C24-C36	260 L	6.0

Surrogate	%REC	Limits
Hexacosane	101	55-134

Field ID:	B10-S-3.5-1	Diln Fac:	10.00
Type:	SAMPLE	Batch#:	98090
Lab ID:	176984-002	Prepared:	01/07/05
Basis:	dry	Analyzed:	01/11/05
Moisture:	15%		

Analyte	Result	RL
Diesel C10-C24	4,600 H Y	12
Motor Oil C24-C36	3,800 L	59

Surrogate	%REC	Limits
Hexacosane	DO	55-134

Field ID:	B10-S-5.0-1	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	98181
Lab ID:	176984-003	Prepared:	01/11/05
Basis:	dry	Analyzed:	01/11/05
Moisture:	16%		

Analyte	Result	RL
Diesel C10-C24	90 H Y	1.2
Motor Oil C24-C36	130 L	6.0

Surrogate	%REC	Limits
Hexacosane	113	55-134

*= Value outside of QC limits; see narrative

H= Heavier hydrocarbons contributed to the quantitation

L= Lighter hydrocarbons contributed to the quantitation

Y= Sample exhibits chromatographic pattern which does not resemble standard

DO= Diluted Out

NA= Not Analyzed

ND= Not Detected

RL= Reporting Limit

Page 1 of 14

Total Extractable Hydrocarbons

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	SHAKER TABLE
Project#:	400582002	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	01/05/05
Units:	mg/Kg	Received:	01/05/05

Field ID:	B9-S-2.0-1	Diln Fac:	3.000
Type:	SAMPLE	Batch#:	98090
Lab ID:	176984-004	Prepared:	01/07/05
Basis:	dry	Analyzed:	01/11/05
Moisture:	8%		

Analyte	Result	RL
Diesel C10-C24	920 H Y	3.3
Motor Oil C24-C36	330 L	16

Surrogate	%REC	Limits
Hexacosane	105	55-134

Field ID:	B9-S-3.5-1	Diln Fac:	2.000
Type:	SAMPLE	Batch#:	98090
Lab ID:	176984-005	Prepared:	01/07/05
Basis:	dry	Analyzed:	01/11/05
Moisture:	15%		

Analyte	Result	RL
Diesel C10-C24	440 H Y	2.4
Motor Oil C24-C36	770 L	12

Surrogate	%REC	Limits
Hexacosane	105	55-134

Field ID:	B9-S-5.0-1	Diln Fac:	50.00
Type:	SAMPLE	Batch#:	98181
Lab ID:	176984-006	Prepared:	01/11/05
Basis:	dry	Analyzed:	01/12/05
Moisture:	18%		

Analyte	Result	RL
Diesel C10-C24	2,100 H Y	61
Motor Oil C24-C36	2,100 L	310

Surrogate	%REC	Limits
Hexacosane	DO	55-134

*= Value outside of QC limits; see narrative
 H= Heavier hydrocarbons contributed to the quantitation
 L= Lighter hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
 Page 2 of 14

**Total Extractable Hydrocarbons**

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	SHAKER TABLE
Project#:	400582002	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	01/05/05
Units:	mg/Kg	Received:	01/05/05

Field ID:	B14-S-2.0-1	Diln Fac:	3.000
Type:	SAMPLE	Batch#:	98086
Lab ID:	176984-007	Prepared:	01/07/05
Basis:	dry	Analyzed:	01/07/05
Moisture:	26%		

Analyte	Result	RL
Diesel C10-C24	460 H Y	4.0
Motor Oil C24-C36	850 L	20

Surrogate	%REC	Limits
Hexacosane	113	55-134

Field ID:	B34-S-2.0-1	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	98090
Lab ID:	176984-008	Prepared:	01/07/05
Basis:	dry	Analyzed:	01/08/05
Moisture:	12%		

Analyte	Result	RL
Diesel C10-C24	470 H Y	1.1
Motor Oil C24-C36	380 L	5.6

Surrogate	%REC	Limits
Hexacosane	91	55-134

Field ID:	B14-S-3.5-1	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	98090
Lab ID:	176984-009	Prepared:	01/07/05
Basis:	dry	Analyzed:	01/08/05
Moisture:	15%		

Analyte	Result	RL
Diesel C10-C24	13 H L Y	1.2
Motor Oil C24-C36	64	5.9

Surrogate	%REC	Limits
Hexacosane	110	55-134

*= Value outside of QC limits; see narrative
 H= Heavier hydrocarbons contributed to the quantitation
 L= Lighter hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
 Page 3 of 14

Total Extractable Hydrocarbons

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	SHAKER TABLE
Project#:	400582002	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	01/05/05
Units:	mg/Kg	Received:	01/05/05

Field ID:	B14-S-5.0-1	Basis:	as received
Type:	SAMPLE	Moisture:	** MISSING MOISTURE DATA **
Lab ID:	176984-010		

Analyte	Result
Diesel C10-C24	NA
Motor Oil C24-C36	NA

Surrogate	Result
Hexacosane	NA

Field ID:	B15-S-2.0-1	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	98086
Lab ID:	176984-011	Prepared:	01/07/05
Basis:	dry	Analyzed:	01/07/05
Moisture:	13%		

Analyte	Result	RL
Diesel C10-C24	16 H Y	1.1
Motor Oil C24-C36	30	5.7

Surrogate	%REC	Limits
Hexacosane	104	55-134

Field ID:	B15-S-3.5-1	Diln Fac:	2.000
Type:	SAMPLE	Batch#:	98086
Lab ID:	176984-012	Prepared:	01/07/05
Basis:	dry	Analyzed:	01/07/05
Moisture:	16%		

Analyte	Result	RL
Diesel C10-C24	ND	2.4
Motor Oil C24-C36	16	12

Surrogate	%REC	Limits
Hexacosane	89	55-134

*= Value outside of QC limits; see narrative
 H= Heavier hydrocarbons contributed to the quantitation
 L= Lighter hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
 Page 4 of 14

Total Extractable Hydrocarbons

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	SHAKER TABLE
Project#:	400582002	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	01/05/05
Units:	mg/Kg	Received:	01/05/05

Field ID: B15-S-5.0-1 Basis: as received
Type: SAMPLE Moisture: ** MISSING MOISTURE DATA **
Lab ID: 176984-013

Analyte	Result
Diesel C10-C24	NA
Motor Oil C24-C36	NA

Surrogate	Result
Hexacosane	NA

Field ID: B5B-S-2.0-1 Diln Fac: 1.000
Type: SAMPLE Batch#: 98086
Lab ID: 176984-014 Prepared: 01/07/05
Basis: dry Analyzed: 01/07/05
Moisture: 17%

Analyte	Result	RL
Diesel C10-C24	21 H Y	1.2
Motor Oil C24-C36	45	6.0

Surrogate	%REC	Limits
Hexacosane	100	55-134

Field ID: B5B-S-3.5-1 Diln Fac: 1.000
Type: SAMPLE Batch#: 98086
Lab ID: 176984-015 Prepared: 01/07/05
Basis: dry Analyzed: 01/07/05
Moisture: 18%

Analyte	Result	RL
Diesel C10-C24	50 H Y	1.2
Motor Oil C24-C36	200	6.1

Surrogate	%REC	Limits
Hexacosane	131	55-134

*= Value outside of QC limits; see narrative
H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
NA= Not Analyzed
ND= Not Detected
RL= Reporting Limit
Page 5 of 14

Total Extractable Hydrocarbons

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	SHAKER TABLE
Project#:	400582002	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	01/05/05
Units:	mg/Kg	Received:	01/05/05

Field ID: B5B-S-5.0-1 Basis: as received
 Type: SAMPLE Moisture: ** MISSING MOISTURE DATA **
 Lab ID: 176984-016

Analyte	Result
Diesel C10-C24	NA
Motor Oil C24-C36	NA

Surrogate	Result
Hexacosane	NA

Field ID: B7-S-2.0-1 Diln Fac: 2.000
 Type: SAMPLE Batch#: 98086
 Lab ID: 176984-017 Prepared: 01/07/05
 Basis: dry Analyzed: 01/11/05
 Moisture: 11%

Analyte	Result	RL
Diesel C10-C24	630 H Y	2.3
Motor Oil C24-C36	340 L	11

Surrogate	%REC	Limits
Hexacosane	179 *	55-134

Field ID: B7-S-3.5-1 Diln Fac: 1.000
 Type: SAMPLE Batch#: 98086
 Lab ID: 176984-018 Prepared: 01/07/05
 Basis: dry Analyzed: 01/07/05
 Moisture: 15%

Analyte	Result	RL
Diesel C10-C24	8.0 H Y	1.2
Motor Oil C24-C36	20	5.8

Surrogate	%REC	Limits
Hexacosane	113	55-134

*= Value outside of QC limits; see narrative
 H= Heavier hydrocarbons contributed to the quantitation
 L= Lighter hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
 Page 6 of 14

Total Extractable Hydrocarbons

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	SHAKER TABLE
Project#:	400582002	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	01/05/05
Units:	mg/Kg	Received:	01/05/05

Field ID: B7-S-5.0-1 Basis: as received
Type: SAMPLE Moisture: ** MISSING MOISTURE DATA **
Lab ID: 176984-019

Analyte	Result
Diesel C10-C24	NA
Motor Oil C24-C36	NA

Surrogate	Result
Hexacosane	NA

Field ID: B8-S-2.0-1 Diln Fac: 1.000
Type: SAMPLE Batch#: 98086
Lab ID: 176984-020 Prepared: 01/07/05
Basis: dry Analyzed: 01/07/05
Moisture: 11%

Analyte	Result	RL
Diesel C10-C24	9.9 H Y	1.1
Motor Oil C24-C36	44	5.6

Surrogate	%REC	Limits
Hexacosane	104	55-134

Field ID: B8-S-3.5-1 Diln Fac: 1.000
Type: SAMPLE Batch#: 98086
Lab ID: 176984-021 Prepared: 01/07/05
Basis: dry Analyzed: 01/07/05
Moisture: 19%

Analyte	Result	RL
Diesel C10-C24	15 H Y	1.2
Motor Oil C24-C36	75	6.1

Surrogate	%REC	Limits
Hexacosane	105	55-134

*= Value outside of QC limits; see narrative
H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
NA= Not Analyzed
ND= Not Detected
RL= Reporting Limit
Page 7 of 14

Total Extractable Hydrocarbons

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	SHAKER TABLE
Project#:	400582002	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	01/05/05
Units:	mg/Kg	Received:	01/05/05

Field ID:	B8-S-5.0-1	Basis:	dry
Type:	SAMPLE	Moisture:	18%
Lab ID:	176984-022		

Analyte	Result
Diesel C10-C24	NA
Motor Oil C24-C36	NA

Surrogate	Result
Hexacosane	NA

Field ID:	B12-S-2.0-1	Diln Fac:	20.00
Type:	SAMPLE	Batch#:	98086
Lab ID:	176984-023	Prepared:	01/07/05
Basis:	dry	Analyzed:	01/10/05
Moisture:	18%		

Analyte	Result	RL
Diesel C10-C24	3,700 H Y	24
Motor Oil C24-C36	650 L	120

Surrogate	%REC	Limits
Hexacosane	DO	55-134

Field ID:	B12-S-3.5-1	Diln Fac:	10.00
Type:	SAMPLE	Batch#:	98090
Lab ID:	176984-024	Prepared:	01/07/05
Basis:	dry	Analyzed:	01/10/05
Moisture:	14%		

Analyte	Result	RL
Diesel C10-C24	1,600 H Y	12
Motor Oil C24-C36	660 L	58

Surrogate	%REC	Limits
Hexacosane	DO	55-134

*= Value outside of QC limits; see narrative
H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
NA= Not Analyzed
ND= Not Detected
RL= Reporting Limit
Page 8 of 14

Total Extractable Hydrocarbons

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	SHAKER TABLE
Project#:	400582002	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	01/05/05
Units:	mg/Kg	Received:	01/05/05

Field ID:	B12-S-5.0-1	Diln Fac:	3.000
Type:	SAMPLE	Batch#:	98181
Lab ID:	176984-025	Prepared:	01/11/05
Basis:	dry	Analyzed:	01/12/05
Moisture:	15%		

Analyte	Result	RL
Diesel C10-C24	710	3.5
Motor Oil C24-C36	100 L Y	18

Surrogate	%REC	Limits
Hexacosane	97	55-134

Field ID:	B11-S-2.0-1	Diln Fac:	100.0
Type:	SAMPLE	Batch#:	98090
Lab ID:	176984-026	Prepared:	01/07/05
Basis:	dry	Analyzed:	01/10/05
Moisture:	9%		

Analyte	Result	RL
Diesel C10-C24	5,500 H Y	110
Motor Oil C24-C36	6,400 L	550

Surrogate	%REC	Limits
Hexacosane	DO	55-134

Field ID:	B11-S-3.5-1	Diln Fac:	3.000
Type:	SAMPLE	Batch#:	98090
Lab ID:	176984-027	Prepared:	01/07/05
Basis:	dry	Analyzed:	01/11/05
Moisture:	11%		

Analyte	Result	RL
Diesel C10-C24	1,400 H Y	3.4
Motor Oil C24-C36	1,100 L	17

Surrogate	%REC	Limits
Hexacosane	83	55-134

*= Value outside of QC limits; see narrative

H= Heavier hydrocarbons contributed to the quantitation

L= Lighter hydrocarbons contributed to the quantitation

Y= Sample exhibits chromatographic pattern which does not resemble standard

DO= Diluted Out

NA= Not Analyzed

ND= Not Detected

RL= Reporting Limit

Page 9 of 14

Total Extractable Hydrocarbons

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	SHAKER TABLE
Project#:	400582002	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	01/05/05
Units:	mg/Kg	Received:	01/05/05

Field ID:	B11-S-5.0-1	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	98181
Lab ID:	176984-028	Prepared:	01/11/05
Basis:	dry	Analyzed:	01/11/05
Moisture:	23%		

Analyte	Result	RL
Diesel C10-C24	190 H Y	1.3
Motor Oil C24-C36	240	6.5

Surrogate	%REC	Limits
Hexacosane	106	55-134

Field ID:	B6-S-2.0-1	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	98090
Lab ID:	176984-029	Prepared:	01/07/05
Basis:	dry	Analyzed:	01/08/05
Moisture:	6%		

Analyte	Result	RL
Diesel C10-C24	25 H Y	1.1
Motor Oil C24-C36	94	5.3

Surrogate	%REC	Limits
Hexacosane	101	55-134

Field ID:	B6-S-5.0-1	Basis:	as received
Type:	SAMPLE	Moisture:	** MISSING MOISTURE DATA **
Lab ID:	176984-030		

Analyte	Result
Diesel C10-C24	NA
Motor Oil C24-C36	NA

Surrogate	Result
Hexacosane	NA

*= Value outside of QC limits; see narrative
H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
NA= Not Analyzed
ND= Not Detected
RL= Reporting Limit
Page 10 of 14

Total Extractable Hydrocarbons

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	SHAKER TABLE
Project#:	400582002	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	01/05/05
Units:	mg/Kg	Received:	01/05/05

Field ID:	B25-S-2.0-1	Diln Fac:	50.00
Type:	SAMPLE	Batch#:	98090
Lab ID:	176984-031	Prepared:	01/07/05
Basis:	dry	Analyzed:	01/11/05
Moisture:	13%		

Analyte	Result	RL
Diesel C10-C24	9,200 H Y	58
Motor Oil C24-C36	4,600 L	290

Surrogate	%REC	Limits
Hexacosane	DO	55-134

Field ID:	B5-S-3.5-1	Diln Fac:	5.000
Type:	SAMPLE	Batch#:	98090
Lab ID:	176984-032	Prepared:	01/07/05
Basis:	dry	Analyzed:	01/11/05
Moisture:	18%		

Analyte	Result	RL
Diesel C10-C24	1,600 H Y	6.1
Motor Oil C24-C36	750 L	31

Surrogate	%REC	Limits
Hexacosane	113	55-134

Field ID:	B22-S-3.5-1	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	98090
Lab ID:	176984-033	Prepared:	01/07/05
Basis:	dry	Analyzed:	01/11/05
Moisture:	14%		

Analyte	Result	RL
Diesel C10-C24	8.2 H Y	1.2
Motor Oil C24-C36	24	5.8

Surrogate	%REC	Limits
Hexacosane	105	55-134

*= Value outside of QC limits; see narrative
 H= Heavier hydrocarbons contributed to the quantitation
 L= Lighter hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
 Page 11 of 14

Total Extractable Hydrocarbons

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	SHAKER TABLE
Project#:	400582002	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	01/05/05
Units:	mg/Kg	Received:	01/05/05

Field ID:	B42-S-3.5-1	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	98090
Lab ID:	176984-034	Prepared:	01/07/05
Basis:	dry	Analyzed:	01/11/05
Moisture:	18%		

Analyte	Result	RL
Diesel C10-C24	4.0 H Y	1.2
Motor Oil C24-C36	21	6.1

Surrogate	%REC	Limits
Hexacosane	103	55-134

Field ID:	B22-S-5.0-1	Basis:	as received
Type:	SAMPLE	Moisture:	** MISSING MOISTURE DATA **
Lab ID:	176984-035		

Analyte	Result
Diesel C10-C24	NA
Motor Oil C24-C36	NA

Surrogate	Result
Hexacosane	NA

Field ID:	B18-S-2.0-1	Diln Fac:	10.00
Type:	SAMPLE	Batch#:	98338
Lab ID:	176984-038	Prepared:	01/15/05
Basis:	dry	Analyzed:	01/17/05
Moisture:	5%		

Analyte	Result	RL
Diesel C10-C24	220 H Y	11
Motor Oil C24-C36	1,500	53

Surrogate	%REC	Limits
Hexacosane	DO	55-134

*= Value outside of QC limits; see narrative
H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
NA= Not Analyzed
ND= Not Detected
RL= Reporting Limit
Page 12 of 14

Total Extractable Hydrocarbons

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	SHAKER TABLE
Project#:	400582002	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	01/05/05
Units:	mq/Kg	Received:	01/05/05

Field ID:	B18-S-3.5-1	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	98338
Lab ID:	176984-039	Prepared:	01/15/05
Basis:	dry	Analyzed:	01/17/05
Moisture:	14%		

Analyte	Result	RL
Diesel C10-C24	3.7 H Y	1.2
Motor Oil C24-C36	27	5.9

Surrogate	%REC	Limits
Hexacosane	95	55-134

Field ID:	B18-S-5.0-1	Basis:	as received
Type:	SAMPLE	Moisture:	** MISSING MOISTURE DATA **
Lab ID:	176984-040		

Analyte	Result
Diesel C10-C24	NA
Motor Oil C24-C36	NA

Surrogate	Result
Hexacosane	NA

Type:	BLANK	Batch#:	98086
Lab ID:	QC278624	Prepared:	01/07/05
Basis:	as received	Analyzed:	01/10/05
Diln Fac:	1.000		

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

Surrogate	%REC	Limits
Hexacosane	102	55-134

*= Value outside of QC limits; see narrative
 H= Heavier hydrocarbons contributed to the quantitation
 L= Lighter hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
 Page 13 of 14

Total Extractable Hydrocarbons

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	SHAKER TABLE
Project#:	400582002	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	01/05/05
Units:	mg/Kg	Received:	01/05/05

Type:	BLANK	Batch#:	98090
Lab ID:	QC278648	Prepared:	01/07/05
Basis:	as received	Analyzed:	01/10/05
Diln Fac:	1.000		

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

Surrogate	%REC	Limits
Hexacosane	98	55-134

Type:	BLANK	Batch#:	98181
Lab ID:	QC278945	Prepared:	01/11/05
Basis:	as received	Analyzed:	01/11/05
Diln Fac:	1.000		

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

Surrogate	%REC	Limits
Hexacosane	104	55-134

Type:	BLANK	Batch#:	98338
Lab ID:	QC279554	Prepared:	01/15/05
Basis:	as received	Analyzed:	01/17/05
Diln Fac:	1.000	Cleanup Method:	EPA 3630C

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

Surrogate	%REC	Limits
Hexacosane	92	55-134

*= Value outside of QC limits; see narrative
 H= Heavier hydrocarbons contributed to the quantitation
 L= Lighter hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
 Page 14 of 14

Chromatogram

Sample Name : 176984-001,98090

FileName : G:\GC15\CHB\007B051.RAW

Method : BTEH005S.MTH

Start Time : 0.01 min

Scale Factor: 0.0

End Time : 19.96 min

Plot Offset: 19 mV

Sample #: 98090

Date : 1/10/05 11:18 AM

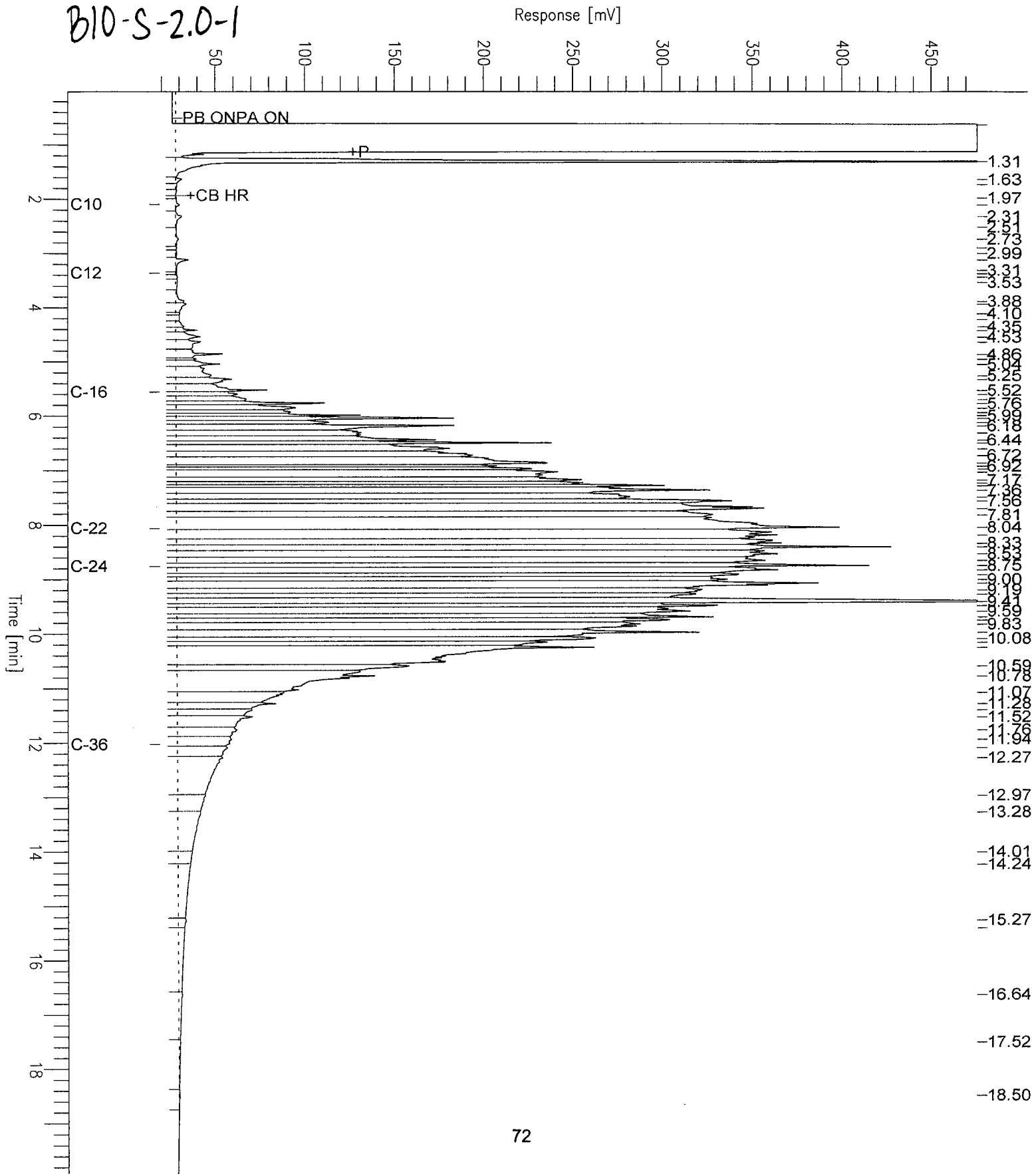
Time of Injection: 1/8/05 04:00 PM

Low Point : 19.02 mV

Plot Scale: 457.1 mV

Page 1 of 1

High Point : 476.13 mV



Chromatogram

Sample Name : 176984-002,98090

FileName : G:\GC17\CHA\011A006.RAW

Method : ATEH011.MTH

Start Time : 0.01 min

Scale Factor: 0.0

End Time : 19.99 min

Plot Offset: 26 mV

Sample #: 98090

Date : 1/11/05 01:21 PM

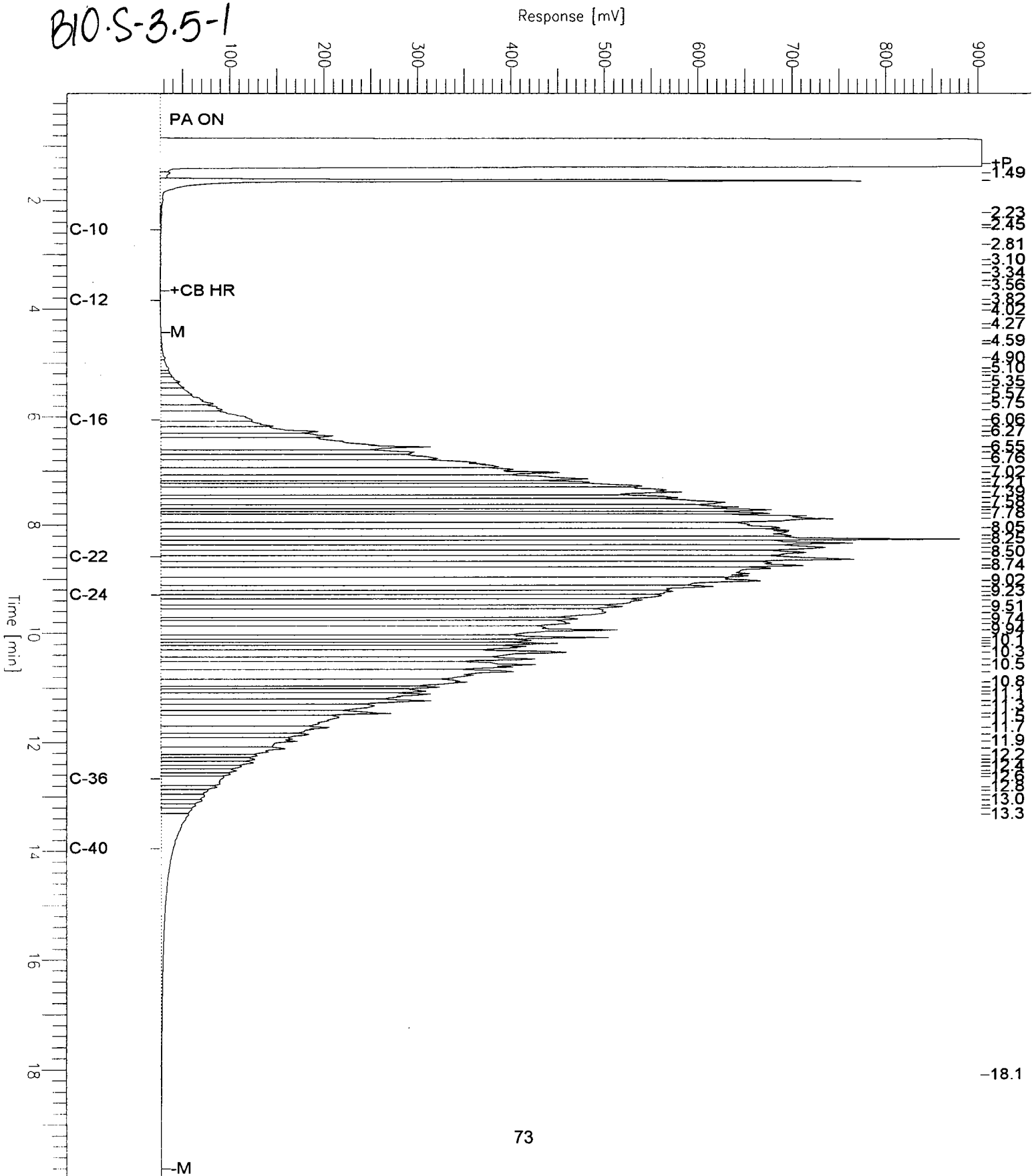
Time of Injection: 1/11/05 12:59 PM

Low Point : 26.08 mV

Plot Scale: 877.8 mV

Page 1 of 1

High Point : 903.85 mV



Chromatogram

Sample Name : 176984-003,98181
 FileName : G:\GC11\CHA\011A014.RAW
 Method : ATEH003S.MTH
 Start Time : 0.01 min
 Scale Factor: 0.0

End Time : 20.45 min
 Plot Offset: 18 mV

Sample #: 98181

Date : 1/12/05 08:27 AM

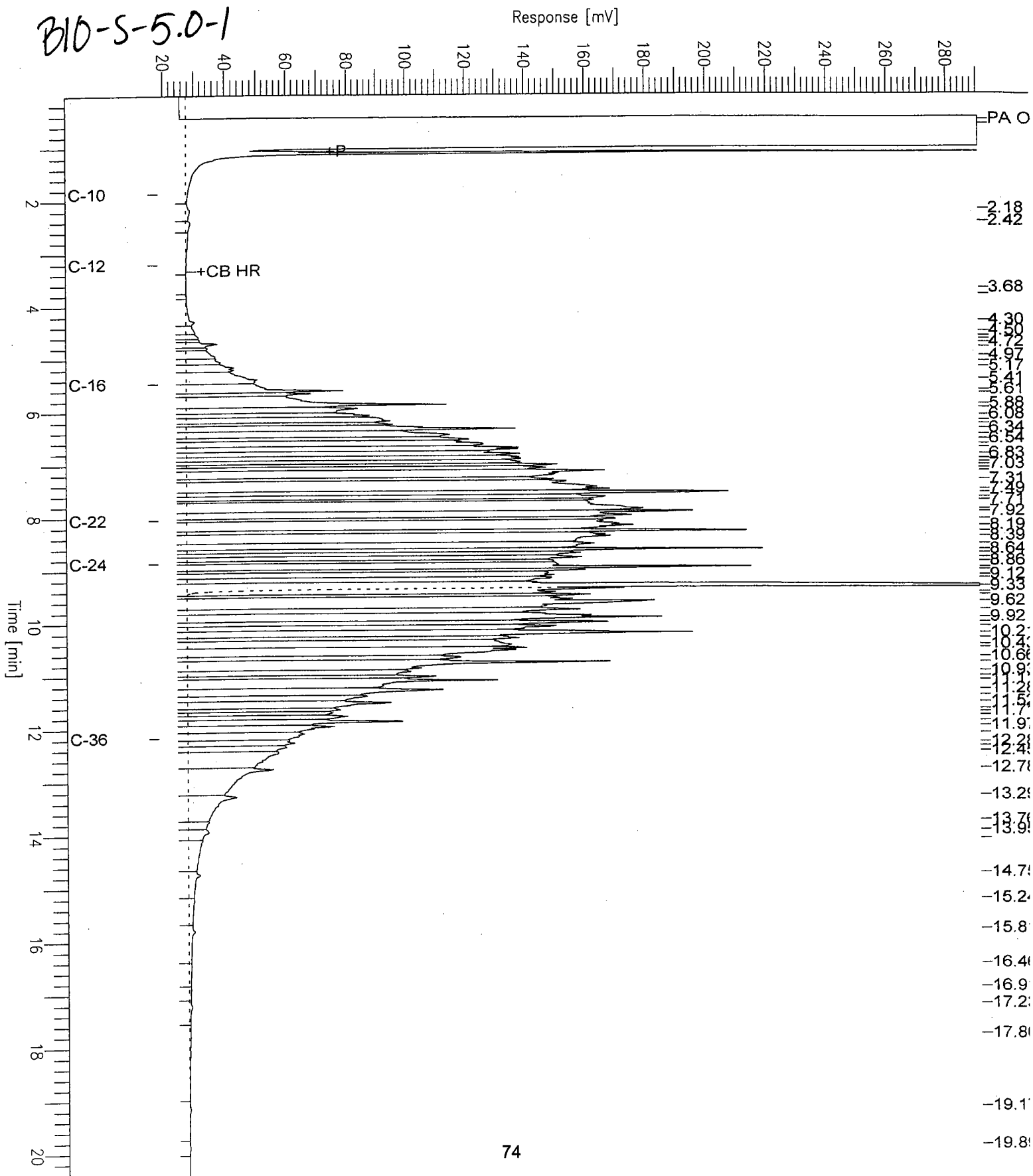
Time of Injection: 1/11/05 06:17 PM

Low Point : 18.42 mV

Plot Scale: 272.1 mV

Page 1 of 1

High Point : 290.55 mV



Chromatogram

Sample Name : 176984-004,98090

FileName : G:\GC15\CHB\010B032.RAW

Method : BTEH005S.MTH

Start Time : 0.00 min

Scale Factor: 0.0

End Time : 19.99 min

Plot Offset: -27 mV

Sample #: 98090

Date : 1/11/05 09:24 AM

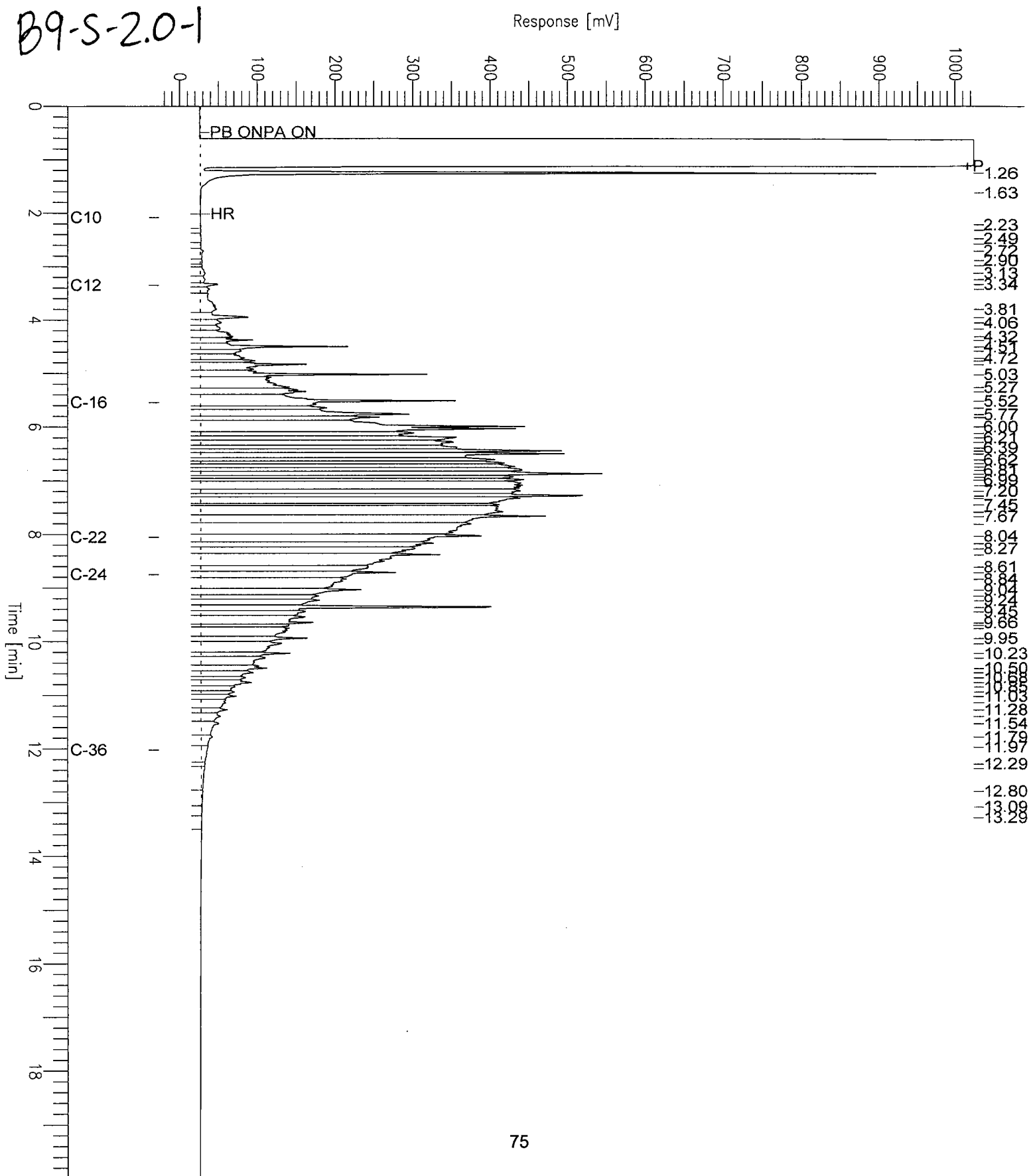
Time of Injection: 1/11/05 04:25 AM

Low Point : -26.55 mV

Plot Scale: 1050.5 mV

Page 1 of 1

High Point : 1024.00 mV



Chromatogram

Sample Name : 176984-005,98090

FileName : G:\GC15\CHB\010B037.RAW

Method : BTEH005S.MTH

Start Time : 0.00 min

Scale Factor: 0.0

End Time : 19.99 min

Plot Offset: -27 mV

Sample #: 98090

Date : 1/11/05 09:28 AM

Time of Injection: 1/11/05 06:50 AM

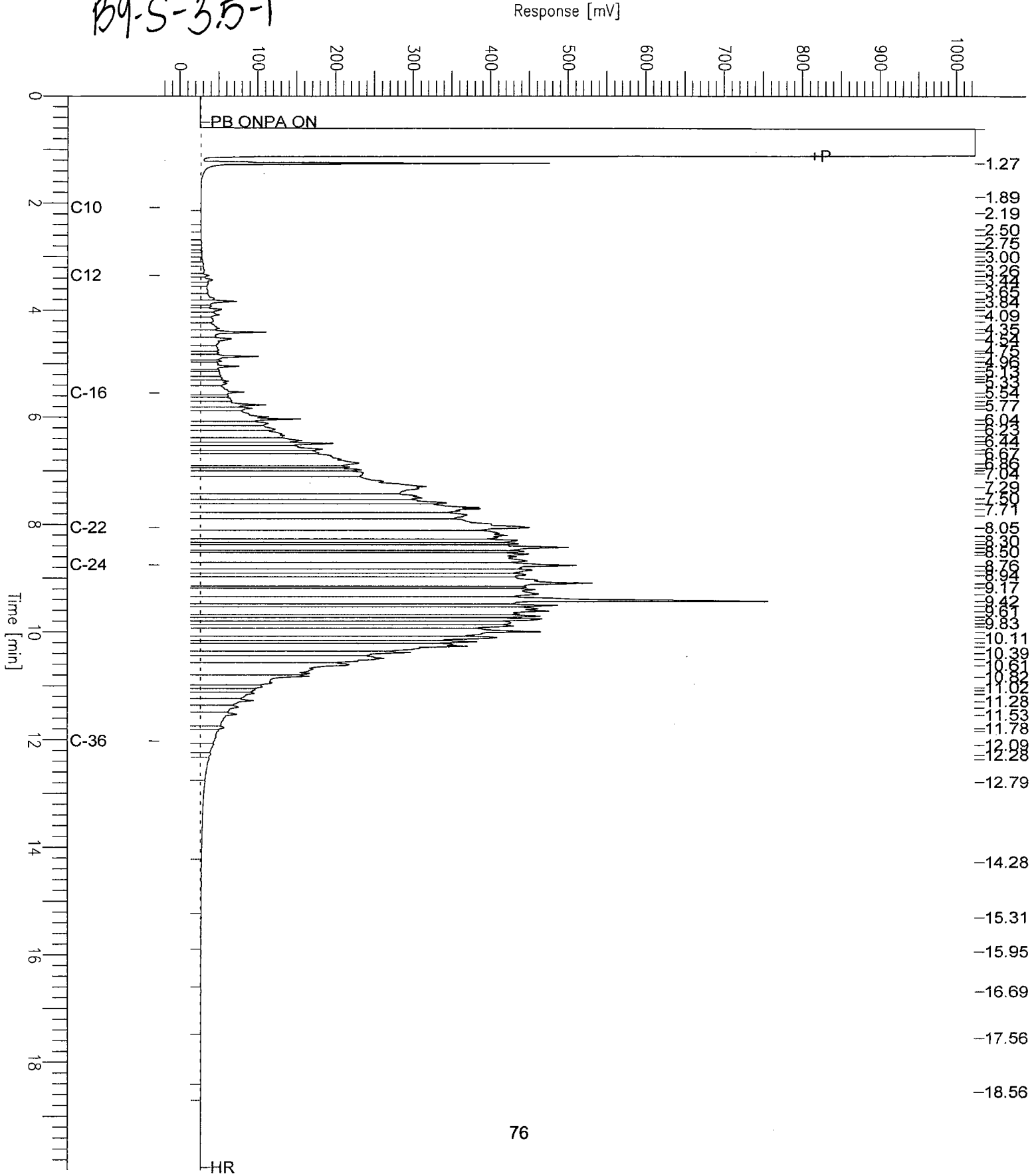
Low Point : -26.65 mV

Plot Scale: 1050.7 mV

Page 1 of 1

High Point : 1024.00 mV

B9-S-35-1



Chromatogram

Sample Name : 176984-006,98181
 FileName : G:\GC11\CHA\012A006.RAW
 Method : ATEH003S.MTH
 Start Time : 0.01 min
 Scale Factor: 0.0

End Time : 20.45 min
 Plot Offset: 15 mV

Sample #: 98181

Page 1 of 1

Date : 1/12/05 12:46 PM

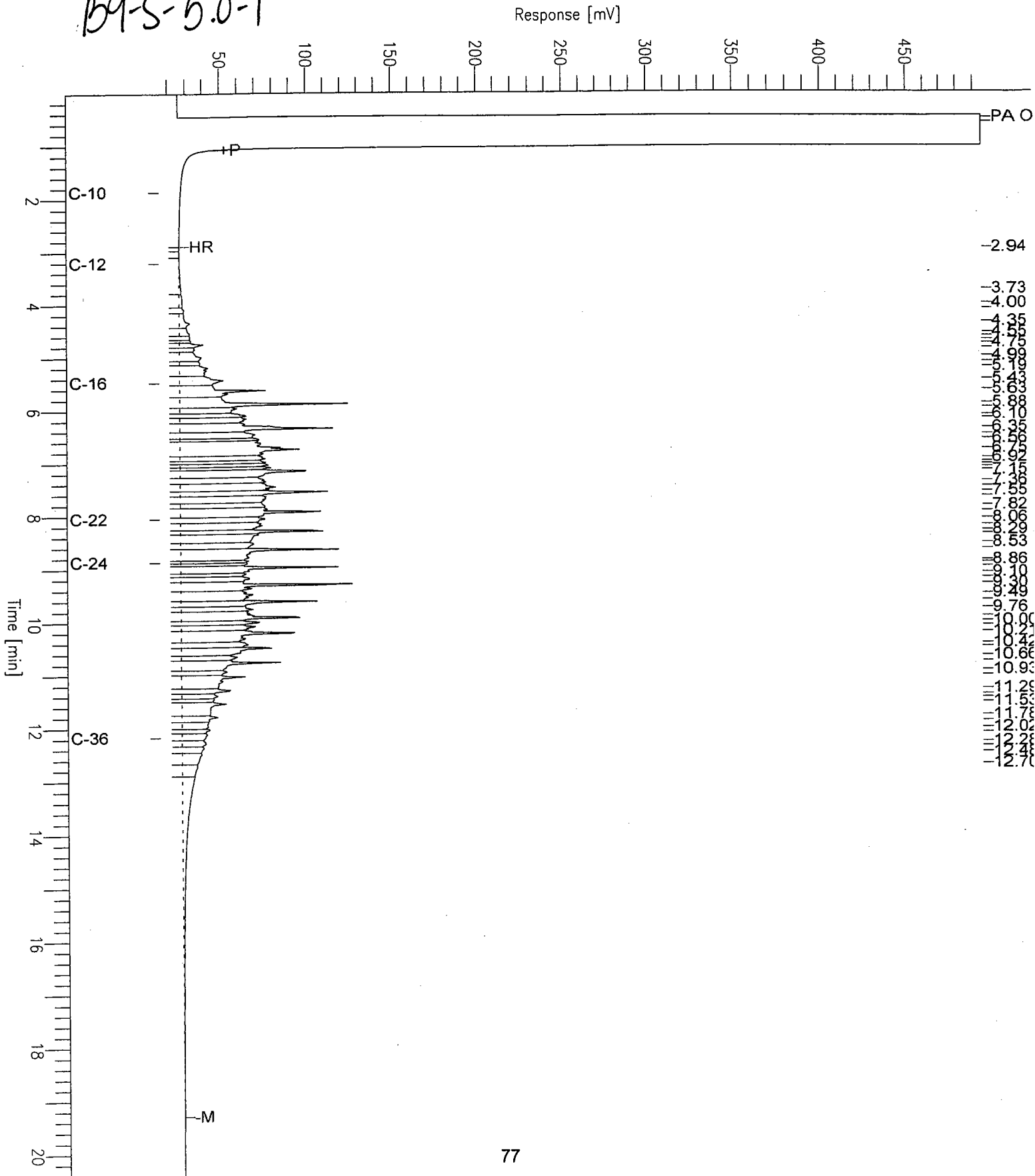
Time of Injection: 1/12/05 12:02 PM

Low Point : 15.15 mV

High Point : 494.93 mV

Plot Scale: 479.8 mV

B9-S-5.0-1



Chromatogram

Sample Name : 176984-007,98086

FileName : G:\GC11\CHA\007A025.RAW

Method : ATEH003S.MTH

Start Time : 0.01 min

Scale Factor: 0.0

End Time : 20.35 min

Plot Offset: 7 mV

Sample #: 98086

Date : 1/10/05 11:27 AM

Time of Injection: 1/7/05 10:58 PM

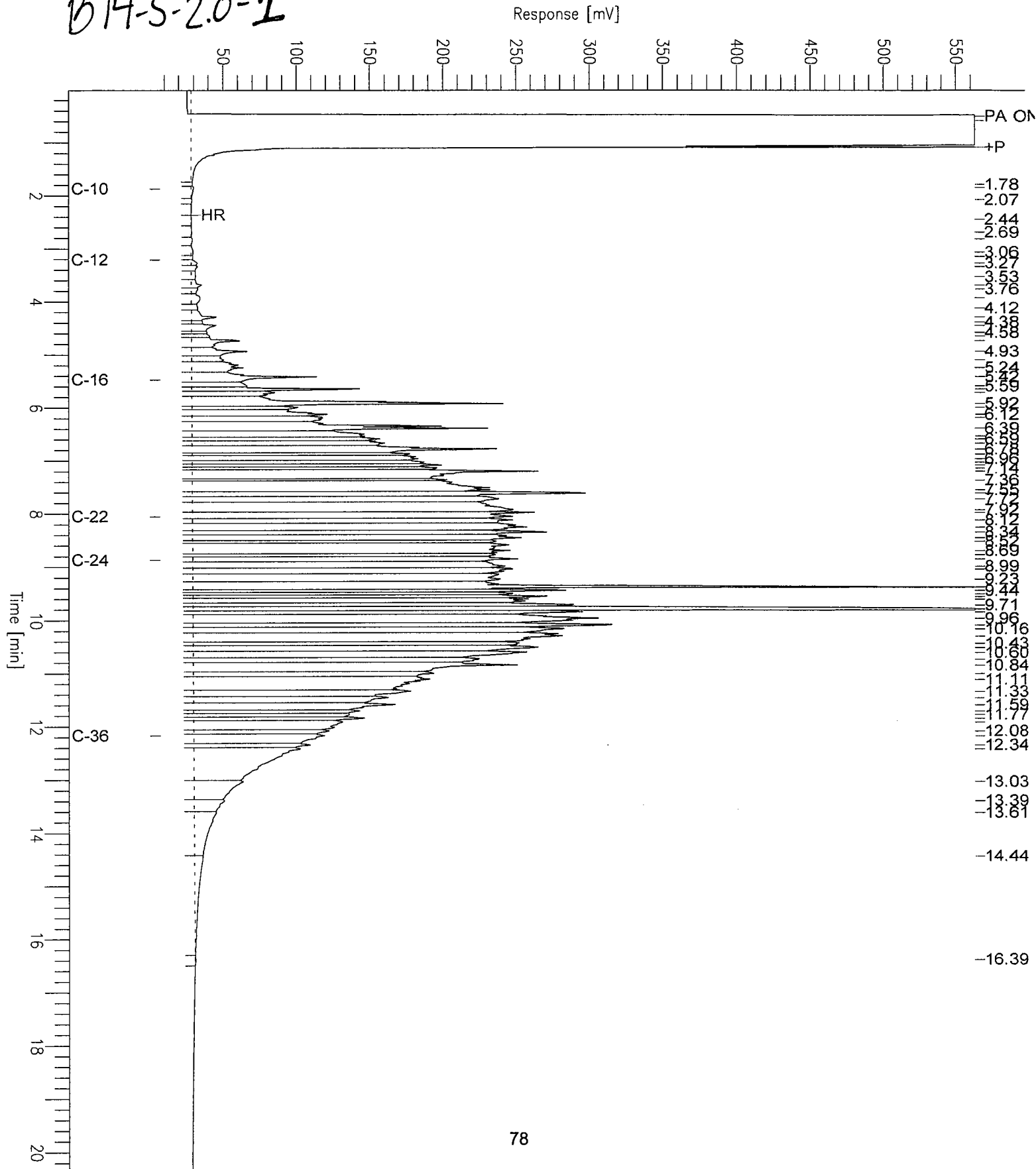
Low Point : 7.07 mV

Plot Scale: 555.7 mV

Page 1 of 1

High Point : 562.80 mV

B14-S-2.0-1



Chromatogram

Sample Name : 176984-008,98090

FileName : G:\GC15\CHB\007B029.RAW

Method : BTEH005S.MTH

Start Time : 0.00 min

Scale Factor: 0.0

End Time : 19.99 min

Plot Offset: -27 mV

Sample #: 98090

Date : 1/10/05 10:42 AM

Time of Injection: 1/8/05 05:22 AM

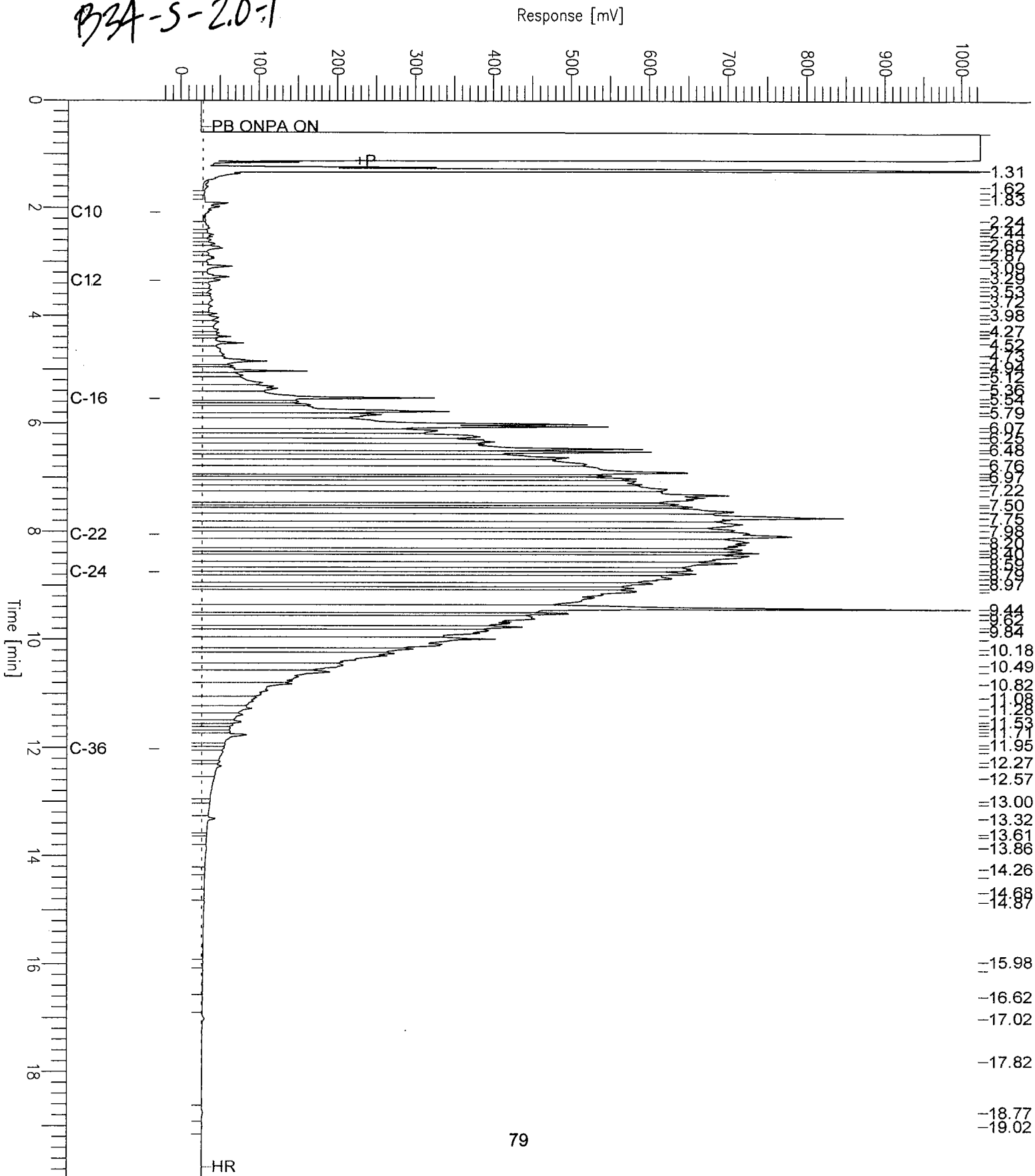
Low Point : -26.61 mV

Plot Scale: 1050.6 mV

Page 1 of 1

High Point : 1024.00 mV

B3A-S-2.0-1



Chromatogram

Sample Name : 176984-009,98090

FileName : G:\GC15\CHB\007B030.RAW

Method : BTEH005S.MTH

Start Time : 0.01 min

Scale Factor: 0.0

End Time : 19.99 min

Plot Offset: 23 mV

Sample #: 98090

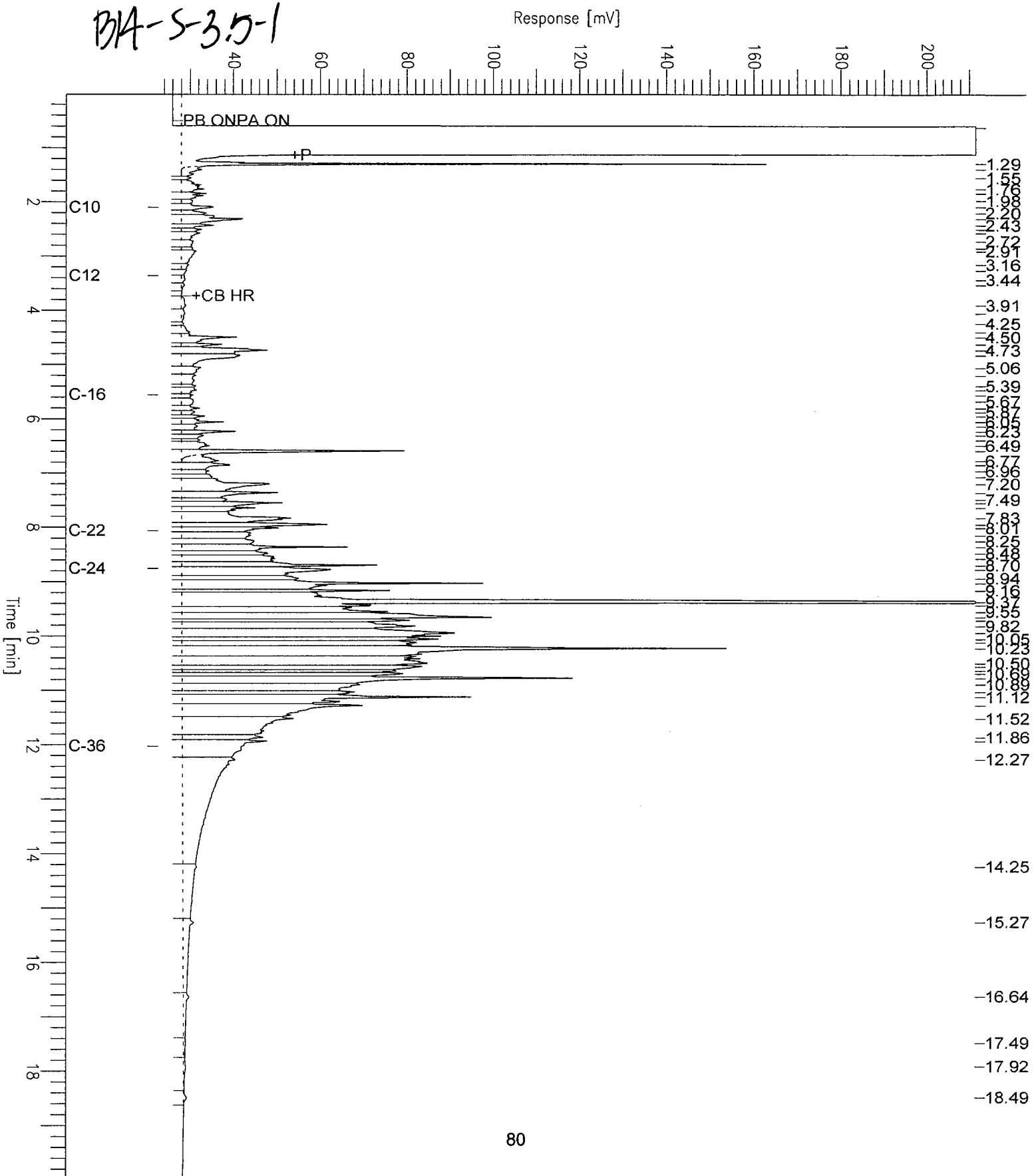
Date : 1/10/05 10:43 AM

Time of Injection: 1/8/05 05:51 AM

Low Point : 22.59 mV

Plot Scale: 188.9 mV

Page 1 of 1



Chromatogram

Sample Name : 176984-011,98086

FileName : G:\GC11\CHA\007A024.RAW

Method : ATEH003S.MTH

Start Time : 0.01 min

Scale Factor: 0.0

End Time : 20.45 min

Plot Offset: 11 mV

Sample #: 98086

Date : 1/10/05 10:03 AM

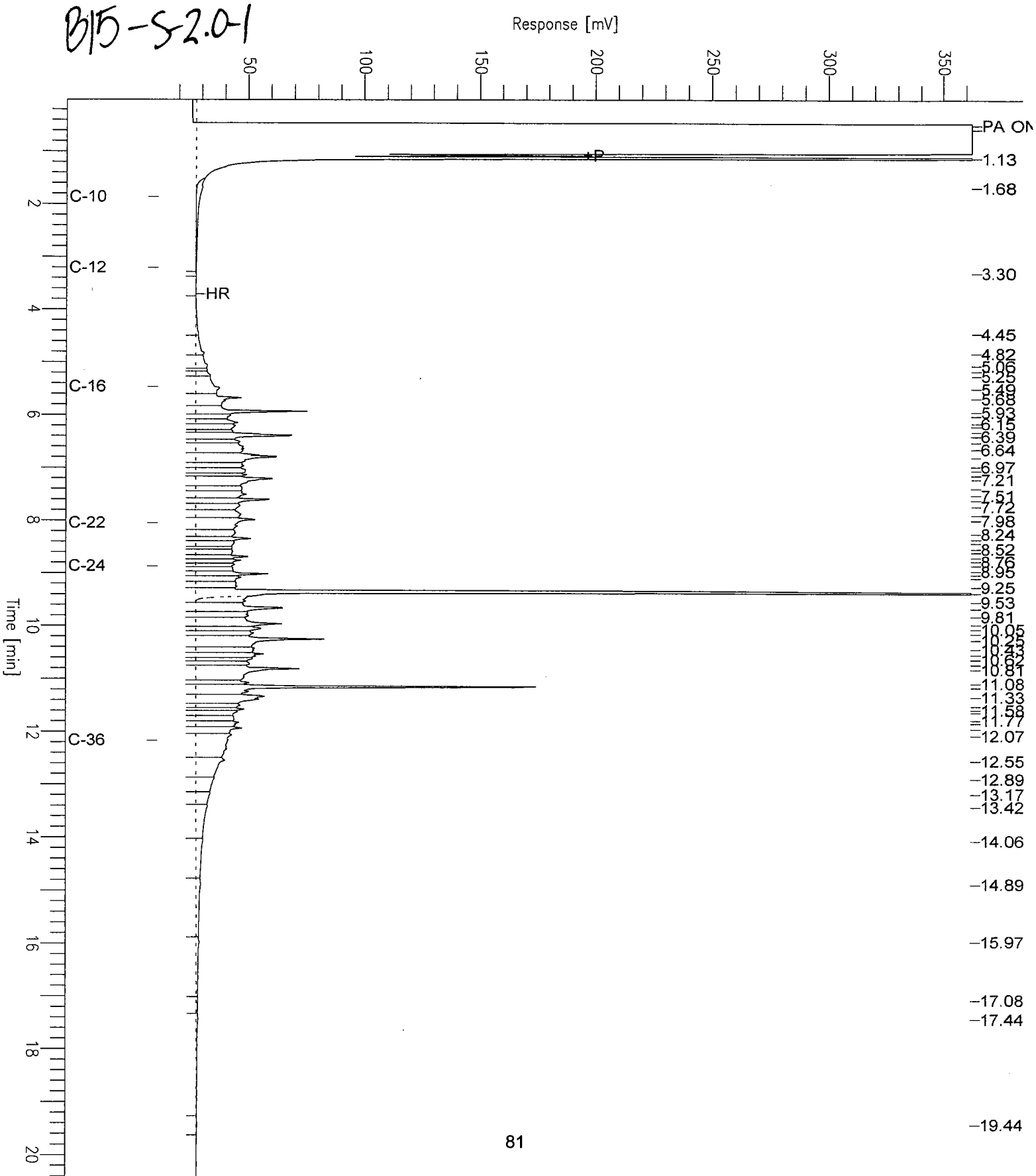
Time of Injection: 1/7/05 10:29 PM

Low Point : 10.92 mV

Plot Scale: 351.5 mV

Page 1 of 1

High Point : 362.38 mV



Chromatogram

Sample Name : 176984-012,98086

FileName : G:\GC11\CHA\007A027.RAW

Method : ATEH003S.MTH

Start Time : 0.01 min

Scale Factor: 0.0

End Time : 20.45 min

Plot Offset: 11 mV

Sample #: 98086

Date : 1/10/05 10:09 AM

Time of Injection: 1/7/05 11:57 PM

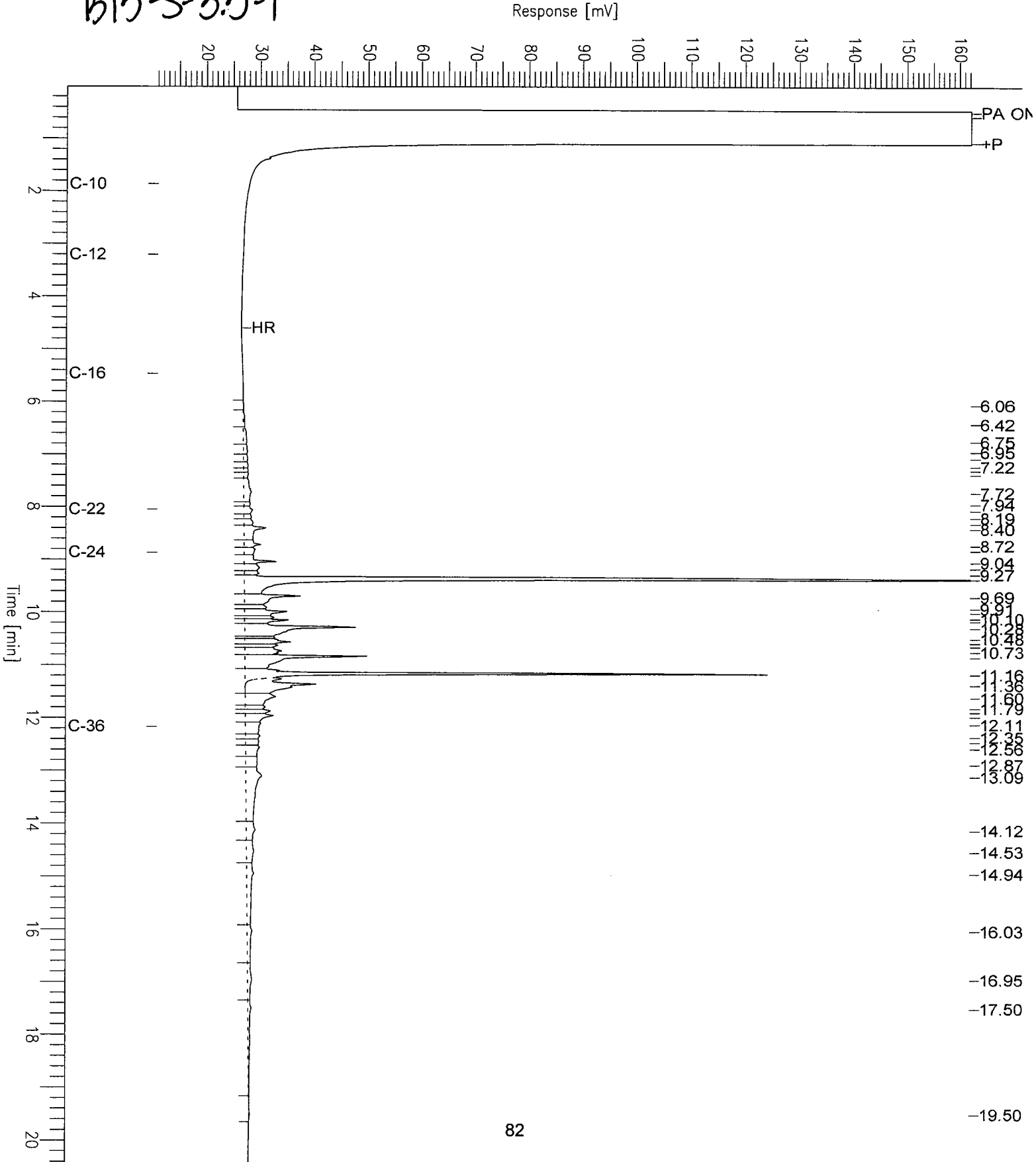
Low Point : 10.97 mV

Plot Scale: 151.2 mV

Page 1 of 1

High Point : 162.14 mV

B15-S-3.5-1



Chromatogram

Sample Name : 176984-014,98086

FileName : G:\GC11\CHA\007A021.RAW

Method : ATEH003S.MTH

Start Time : 0.01 min

Scale Factor: 0.0

End Time : 20.45 min

Plot Offset: 11 mV

Sample #: 98086

Date : 1/10/05 09:56 AM

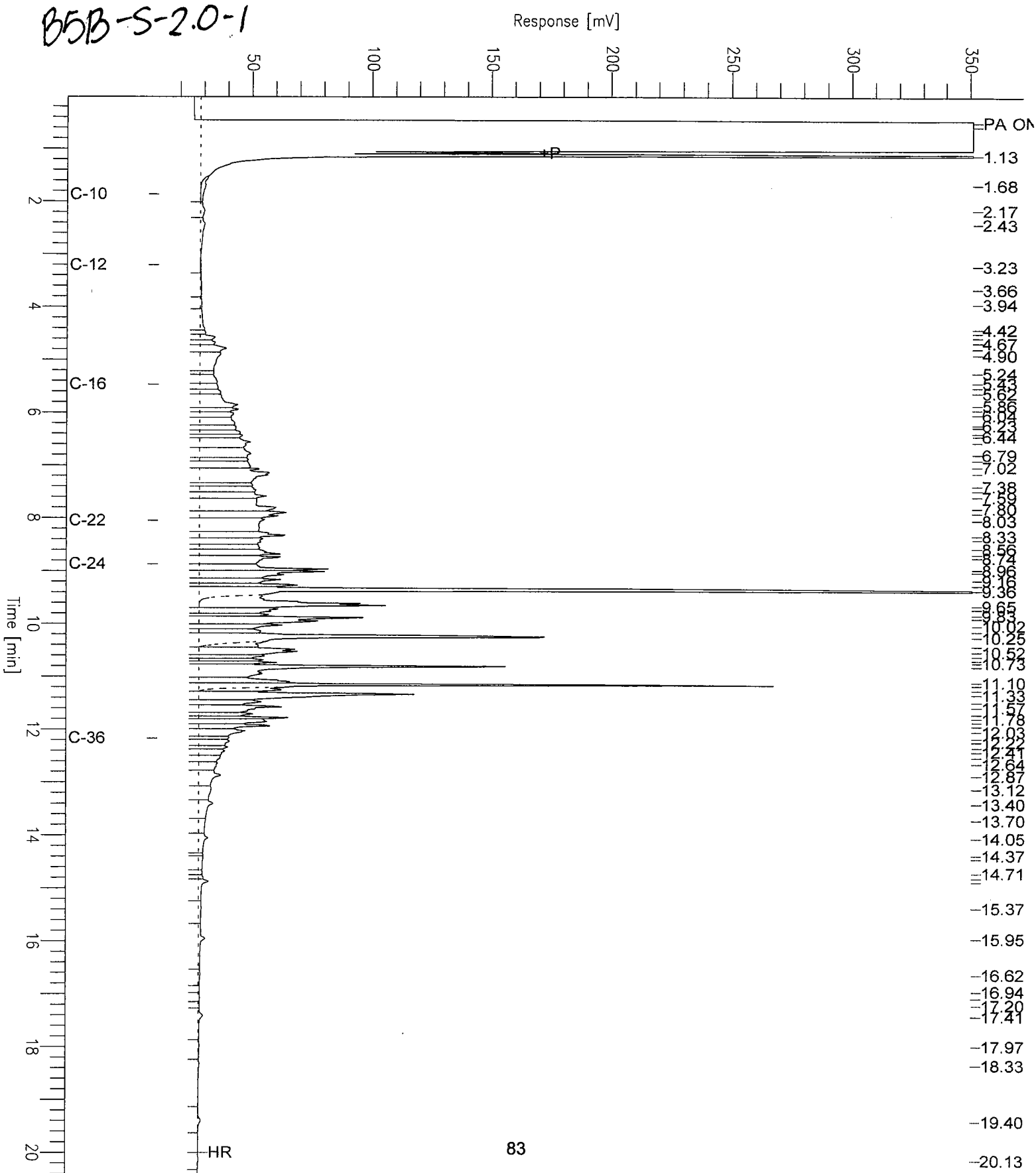
Time of Injection: 1/7/05 09:01 PM

Low Point : 10.86 mV

Plot Scale: 340.2 mV

Page 1 of 1

High Point : 351.08 mV



Chromatogram

Sample Name : 176984-015,98086

FileName : G:\GC11\CHA\007A018.RAW

Method : ATEH003S.MTH

Start Time : 0.01 min

Scale Factor: 0.0

End Time : 20.45 min

Plot Offset: 11 mV

Sample #: 98086

Date : 1/10/05 09:51 AM

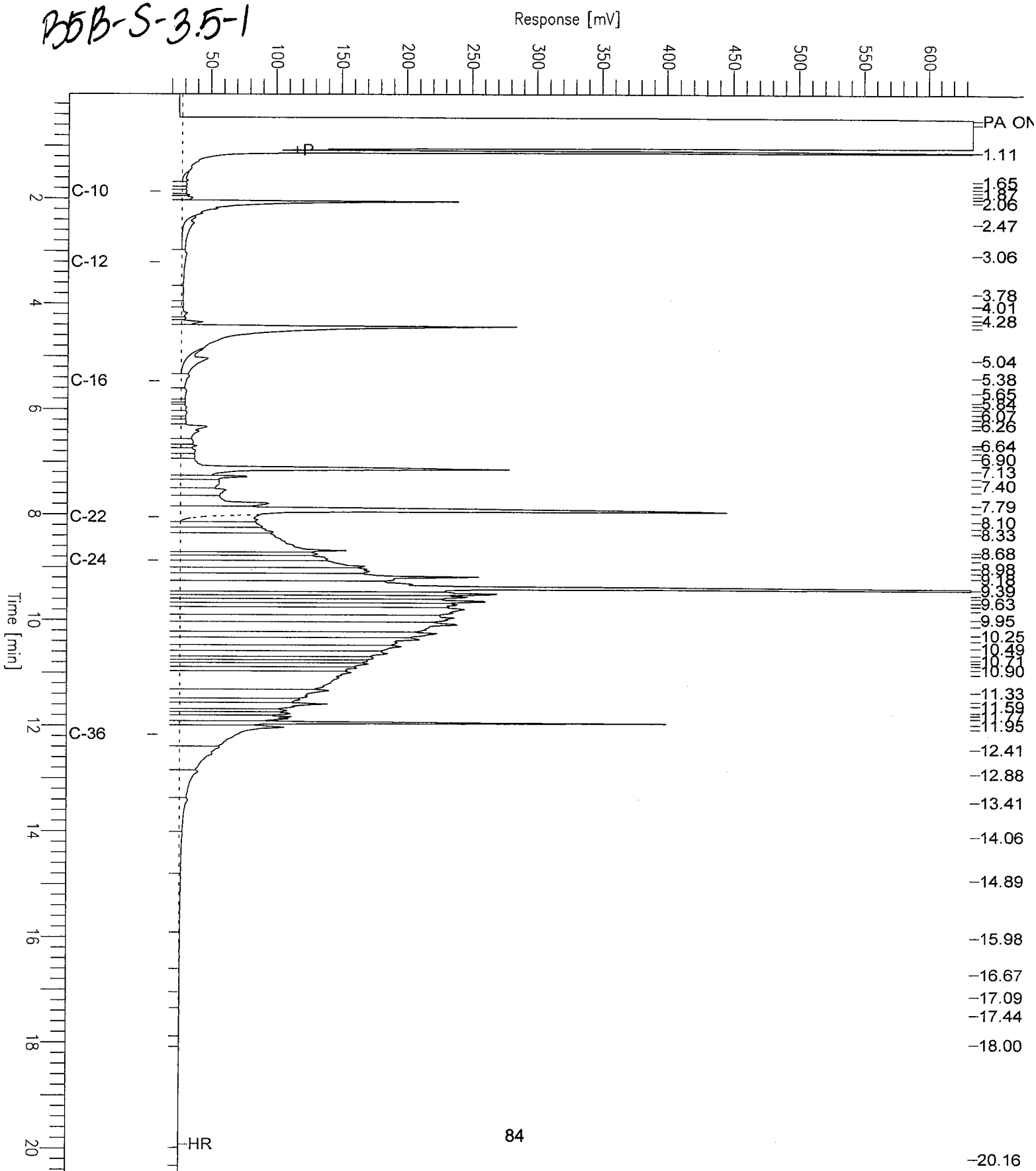
Time of Injection: 1/7/05 07:33 PM

Low Point : 10.72 mV

Plot Scale: 623.8 mV

Page 1 of 1

High Point : 634.49 mV



Chromatogram

Sample Name : 176984-017,98086

FileName : G:\GC17\CHA\011A007.RAW

Method : ATEH011.MTH

Start Time : 0.01 min

Scale Factor: 0.0

End Time : 19.99 min

Plot Offset: -27 mV

Sample #: 98086

Date : 1/11/05 02:10 PM

Time of Injection: 1/11/05 01:27 PM

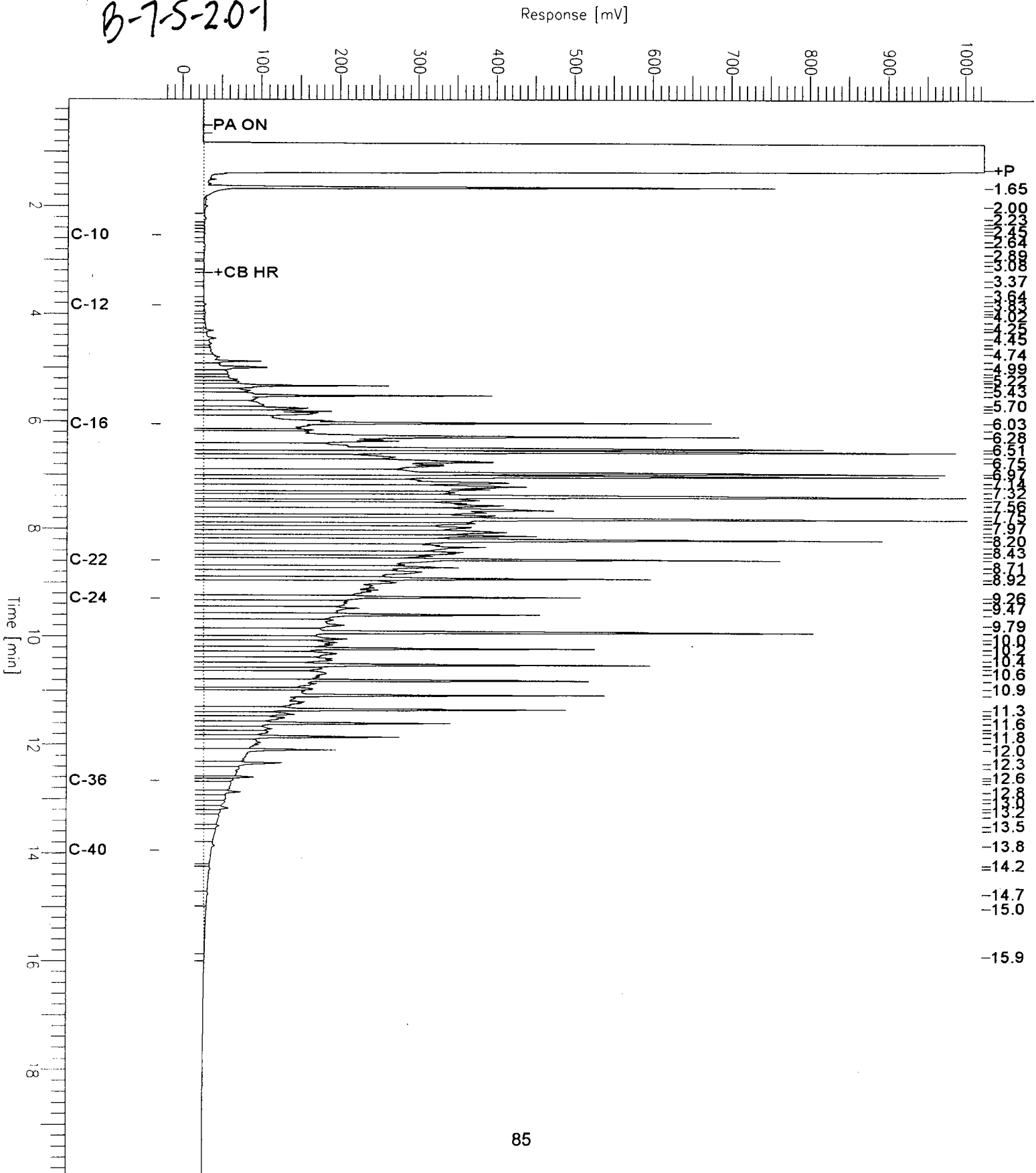
Low Point : -26.97 mV

Plot Scale: 1051.0 mV

Page 1 of 1

High Point : 1024.00 mV

B-7-5-20-1



Chromatogram

Sample Name : 176984-018,98086

FileName : G:\GC11\CHA\007A022.RAW

Method : ATEH003S.MTH

Start Time : 0.01 min

Scale Factor: 0.0

End Time : 20.45 min

Plot Offset: 11 mV

Sample #: 98086

Date : 1/10/05 10:00 AM

Time of Injection: 1/7/05 09:31 PM

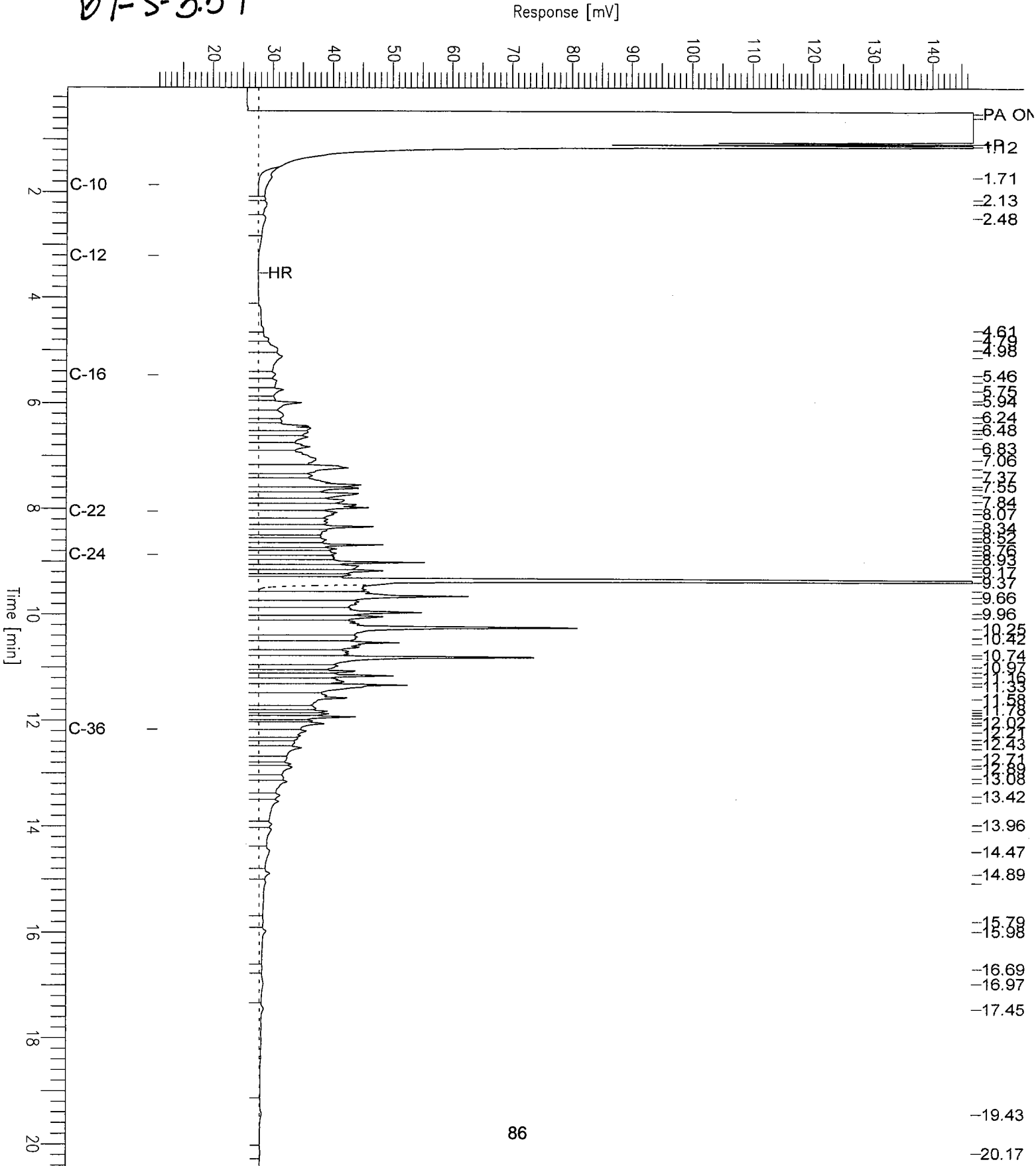
Low Point : 10.93 mV

Plot Scale: 136.0 mV

Page 1 of 1

High Point : 146.93 mV

07-S-3.5-1



Chromatogram

Sample Name : 176984-020,98086

FileName : G:\GC11\CHA\007A020.RAW

Method : ATEH003S.MTH

Start Time : 0.01 min

Scale Factor: 0.0

End Time : 20.45 min

Plot Offset: 3 mV

Sample #: 98086

Date : 1/10/05 09:54 AM

Time of Injection: 1/7/05 08:32 PM

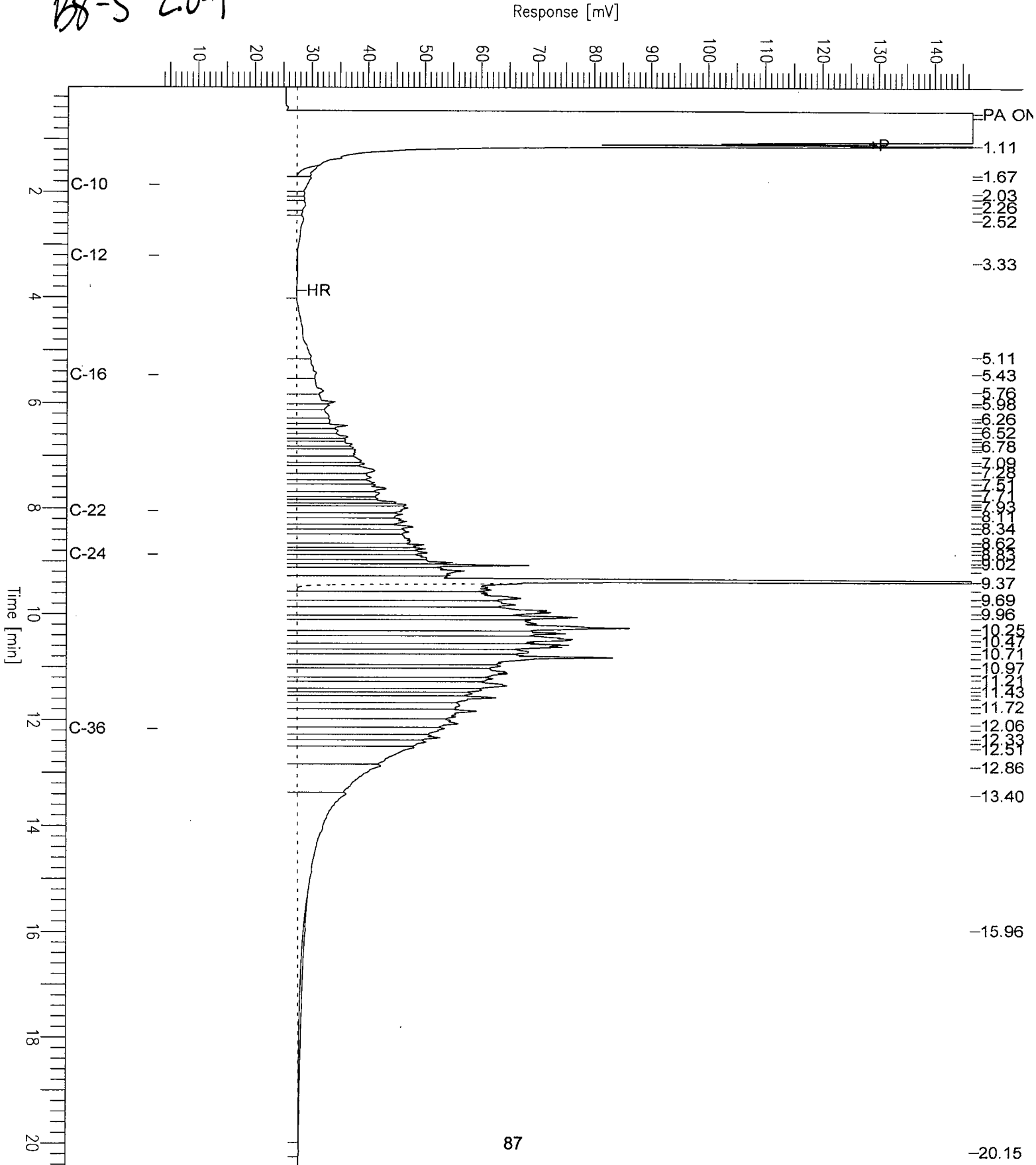
Low Point : 3.06 mV

Plot Scale: 143.7 mV

Page 1 of 1

High Point : 146.71 mV

B8-S-2.0-1



Chromatogram

Sample Name : 176984-021,98086

FileName : G:\GC11\CHA\007A026.RAW

Method : ATEH003S.MTH

Start Time : 0.01 min

Scale Factor: 0.0

End Time : 20.45 min

Plot Offset: 22 mV

Sample #: 98086

Date : 1/10/05 10:07 AM

Time of Injection: 1/7/05 11:27 PM

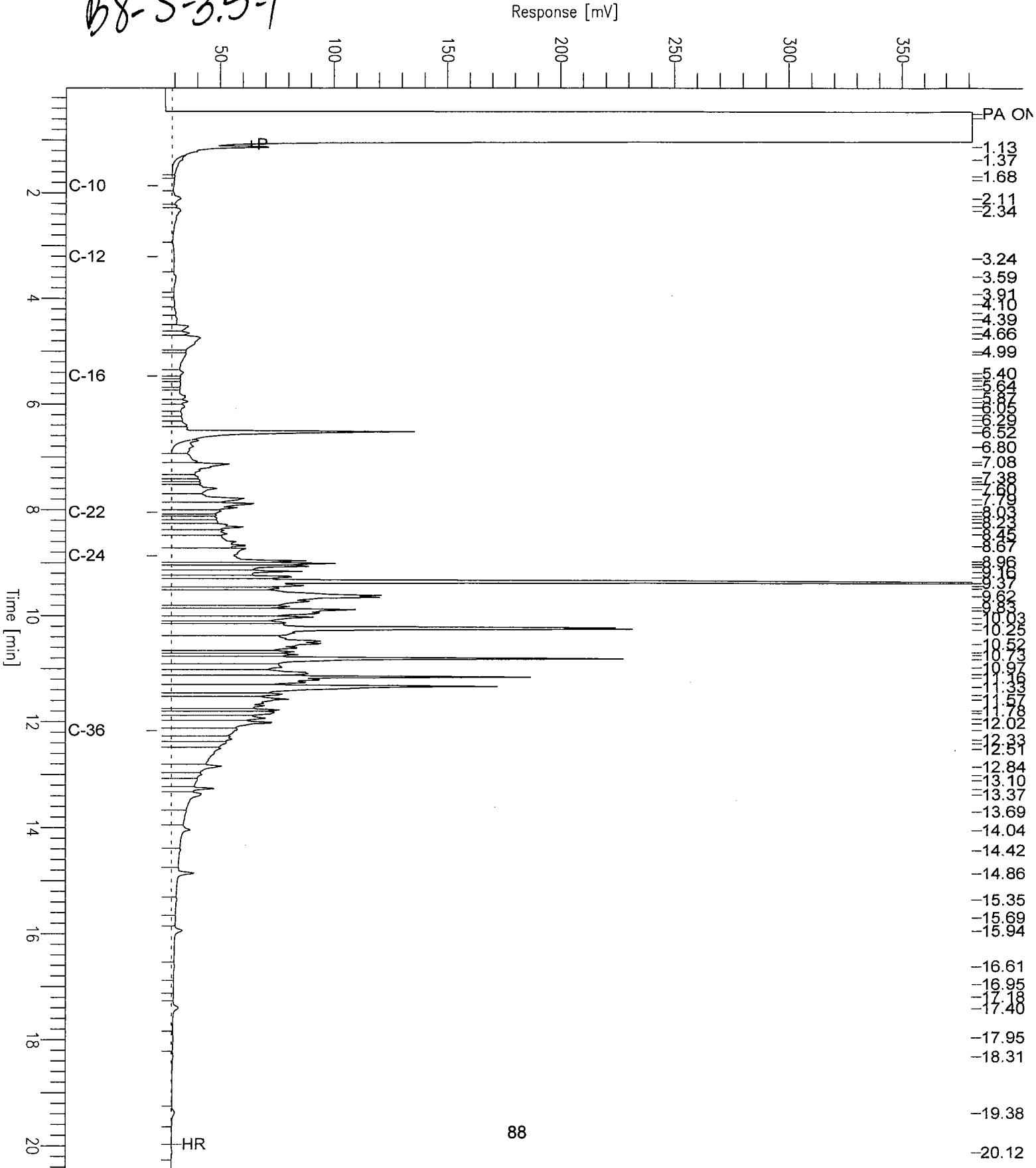
Low Point : 22.23 mV

Plot Scale: 359.2 mV

Page 1 of 1

High Point : 381.40 mV

B8-S-3.5-1



Chromatogram

Sample Name : 176984-023,98086

FileName : G:\GC15\CHB\010B008.RAW

Method : BTEH005S.MTH

Start Time : 0.01 min

Scale Factor: 0.0

End Time : 19.99 min

Plot Offset: 18 mV

Sample #: 98086

Date : 1/10/05 05:19 PM

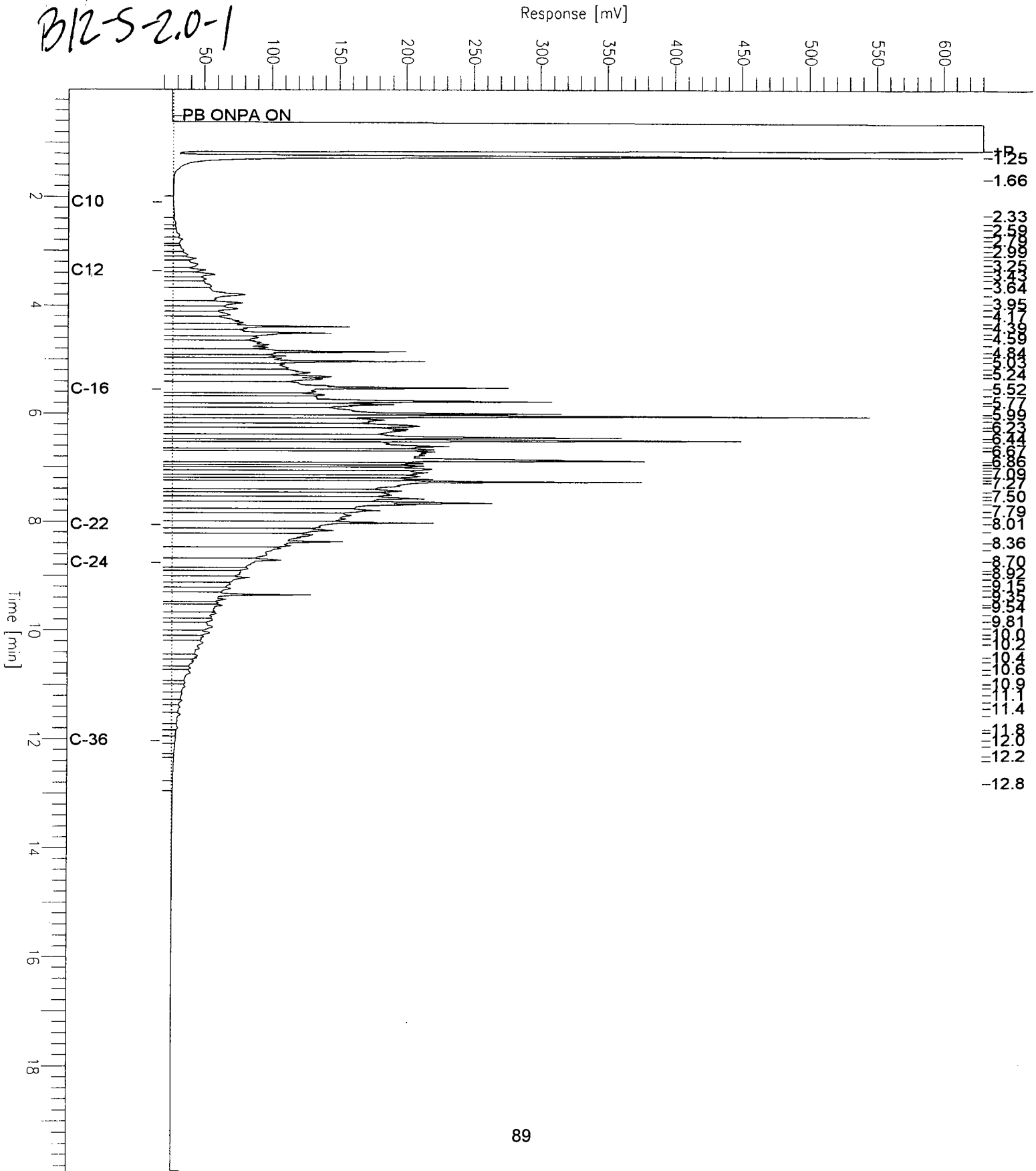
Time of Injection: 1/10/05 04:49 PM

Low Point : 18.34 mV

Plot Scale: 611.7 mV

Page 1 of 1

High Point : 630.06 mV



Chromatogram

Sample Name : 176984-024,98090

FileName : G:\GC15\CHB\010B014.RAW

Method : BTEH005S.MTH

Start Time : 0.01 min

Scale Factor: 0.0

End Time : 19.99 min

Plot Offset: 19 mV

Sample #: 98090

Date : 1/11/05 09:13 AM

Time of Injection: 1/10/05 07:43 PM

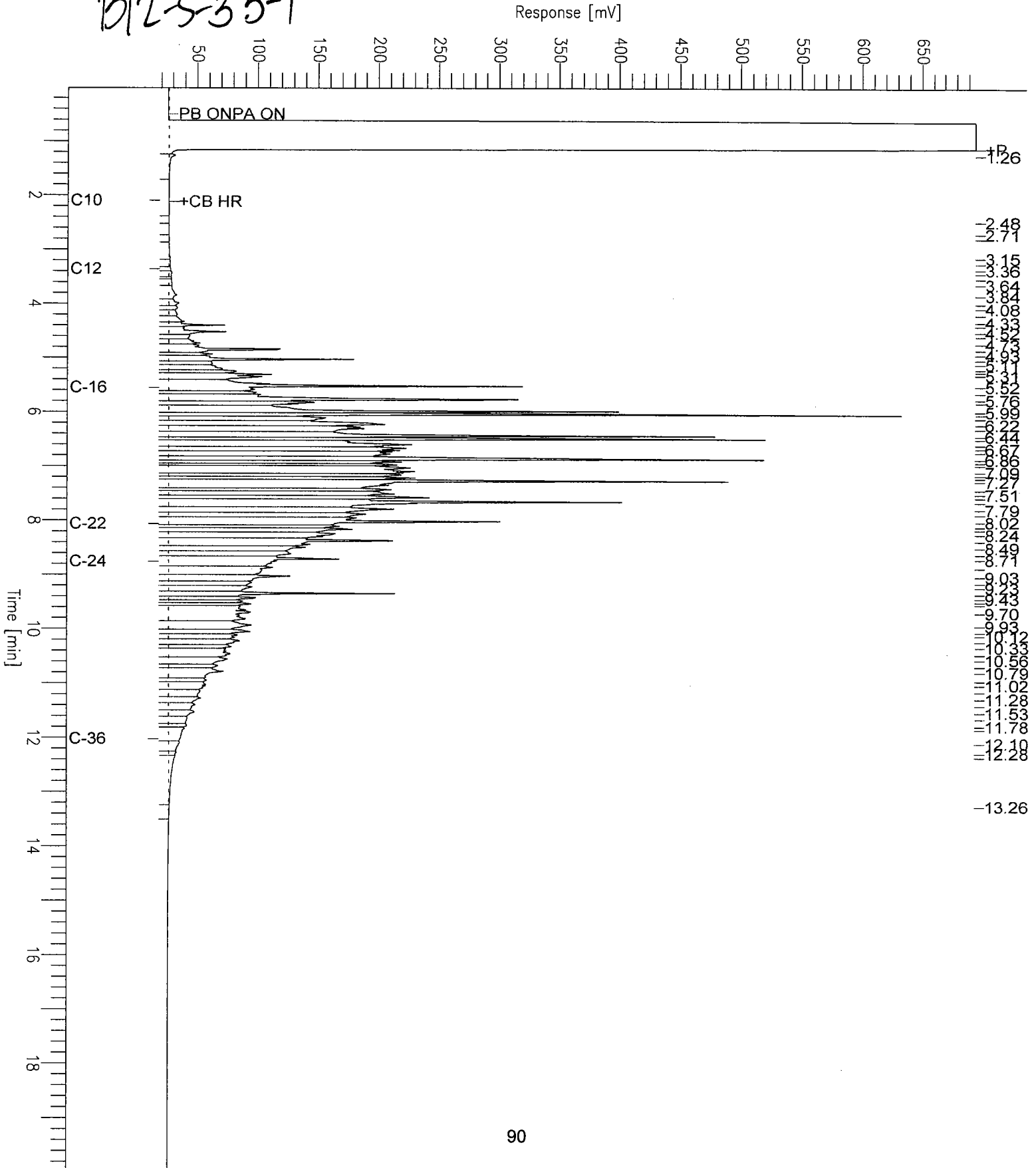
Low Point : 18.67 mV

Plot Scale: 676.5 mV

Page 1 of 1

High Point : 695.20 mV

B12535-1



Chromatogram

Sample Name : 176984-025,98181

FileName : G:\GC11\CHA\012A005.RAW

Method : ATEH003S.MTH

Start Time : 0.00 min

Scale Factor: 0.0

End Time : 20.46 min

Plot Offset: -26 mV

Sample #: 98181

Date : 1/12/05 12:05 PM

Time of Injection: 1/12/05 11:33 AM

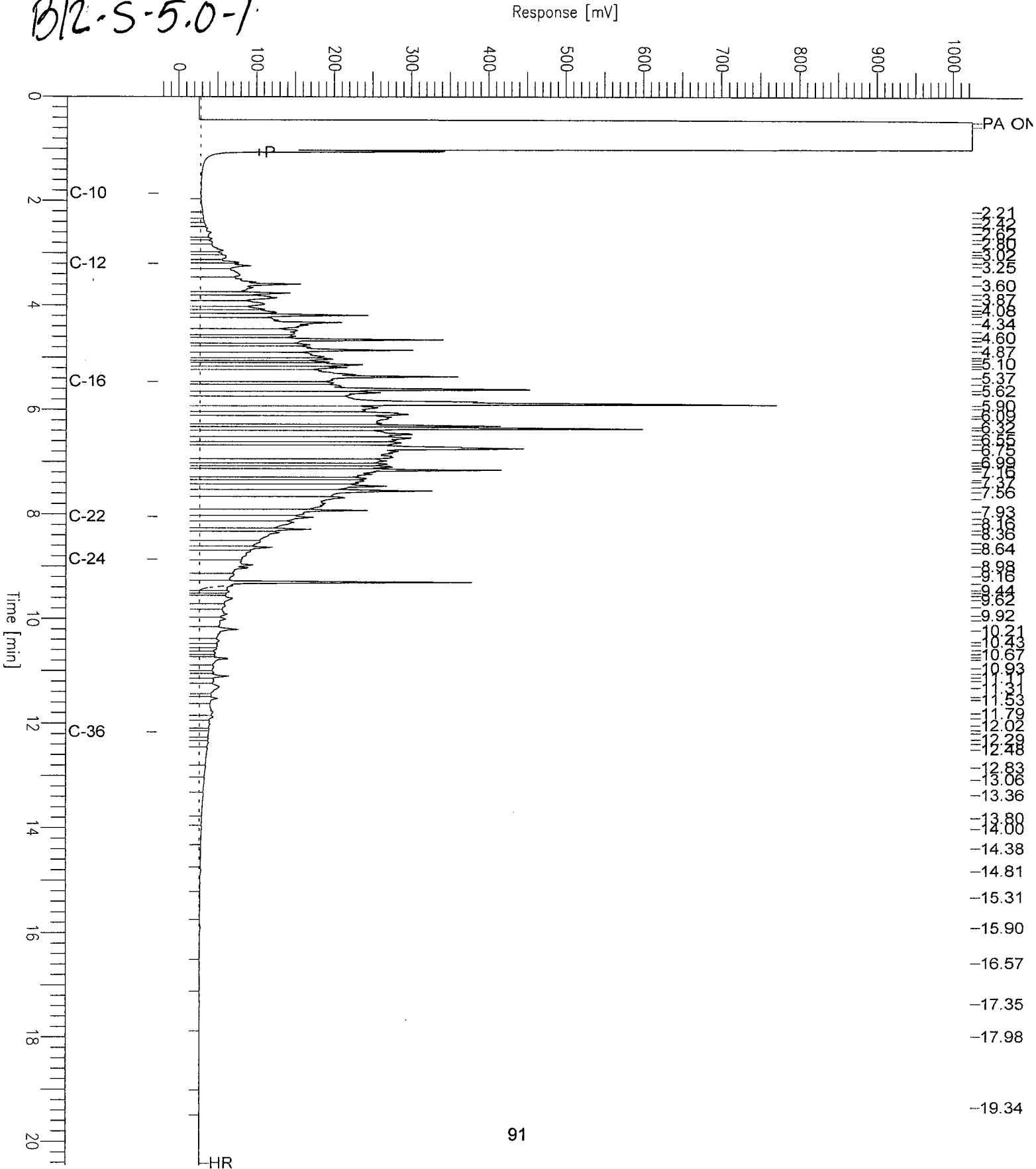
Low Point : -26.48 mV

Plot Scale: 1050.5 mV

Page 1 of 1

High Point : 1024.00 mV

B12-S-5.0-1



Chromatogram

Sample Name : 176984-026,98090

FileName : G:\GC15\CHB\010B013.RAW

Method : BTEH005S.MTH

Start Time : 0.01 min

Scale Factor: 0.0

End Time : 19.99 min

Plot Offset: 19 mV

Sample #: 98090

Date : 1/11/05 09:12 AM

Time of Injection: 1/10/05 07:14 PM

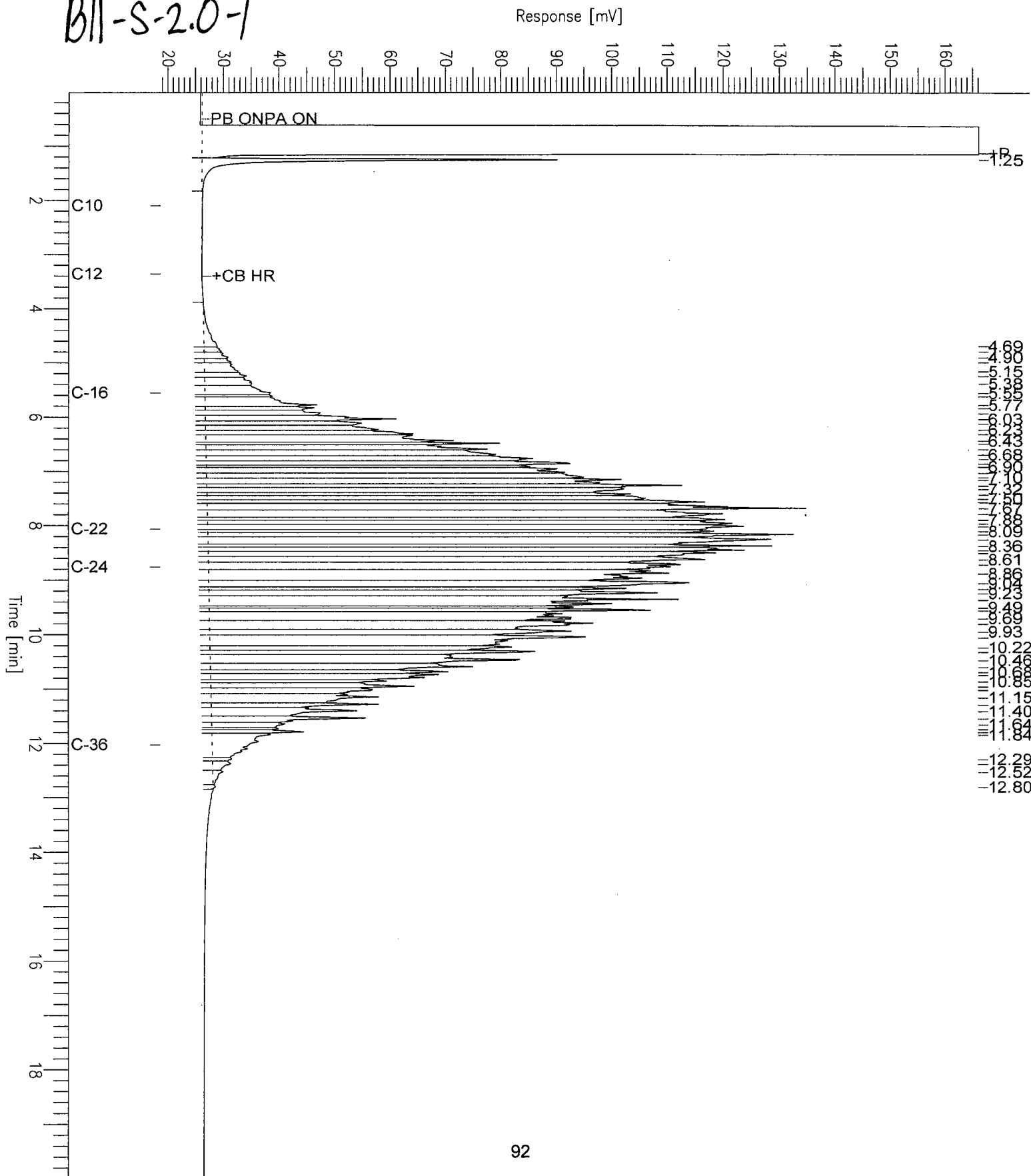
Low Point : 18.70 mV

Plot Scale: 147.4 mV

Page 1 of 1

High Point : 166.11 mV

B11-S-2.0-1



Chromatogram

Sample Name : 176984-027,98090

FileName : G:\GC15\CHB\010B033.RAW

Method : BTEH005S.MTH

Start Time : 0.00 min

Scale Factor: 0.0

End Time : 19.99 min

Plot Offset: -27 mV

Sample #: 98090

Date : 1/11/05 09:25 AM

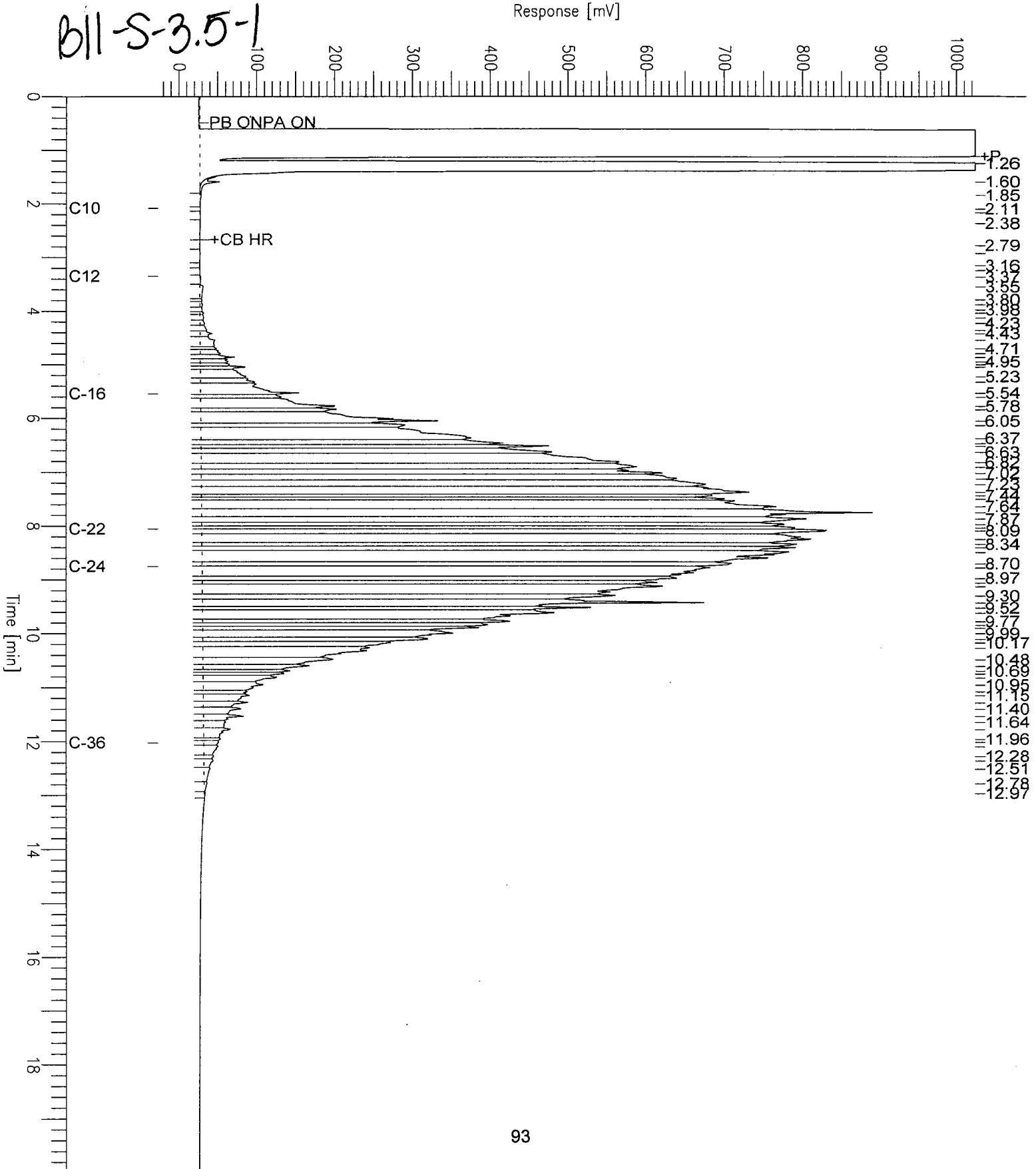
Time of Injection: 1/11/05 04:54 AM

Low Point : -26.70 mV

Plot Scale: 1050.7 mV

Page 1 of 1

High Point : 1024.00 mV



Chromatogram

Sample Name : 176984-028,98181
 FileName : G:\GQ17\CHA\011A019.RAW
 Method : ATEH011.MTH
 Start Time : 0.01 min
 Scale Factor: 0.0

End Time : 19.99 min
 Plot Offset: 18 mV

Sample #: 98181

Date : 1/12/05 08:39 AM

Time of Injection: 1/11/05 07:41 PM

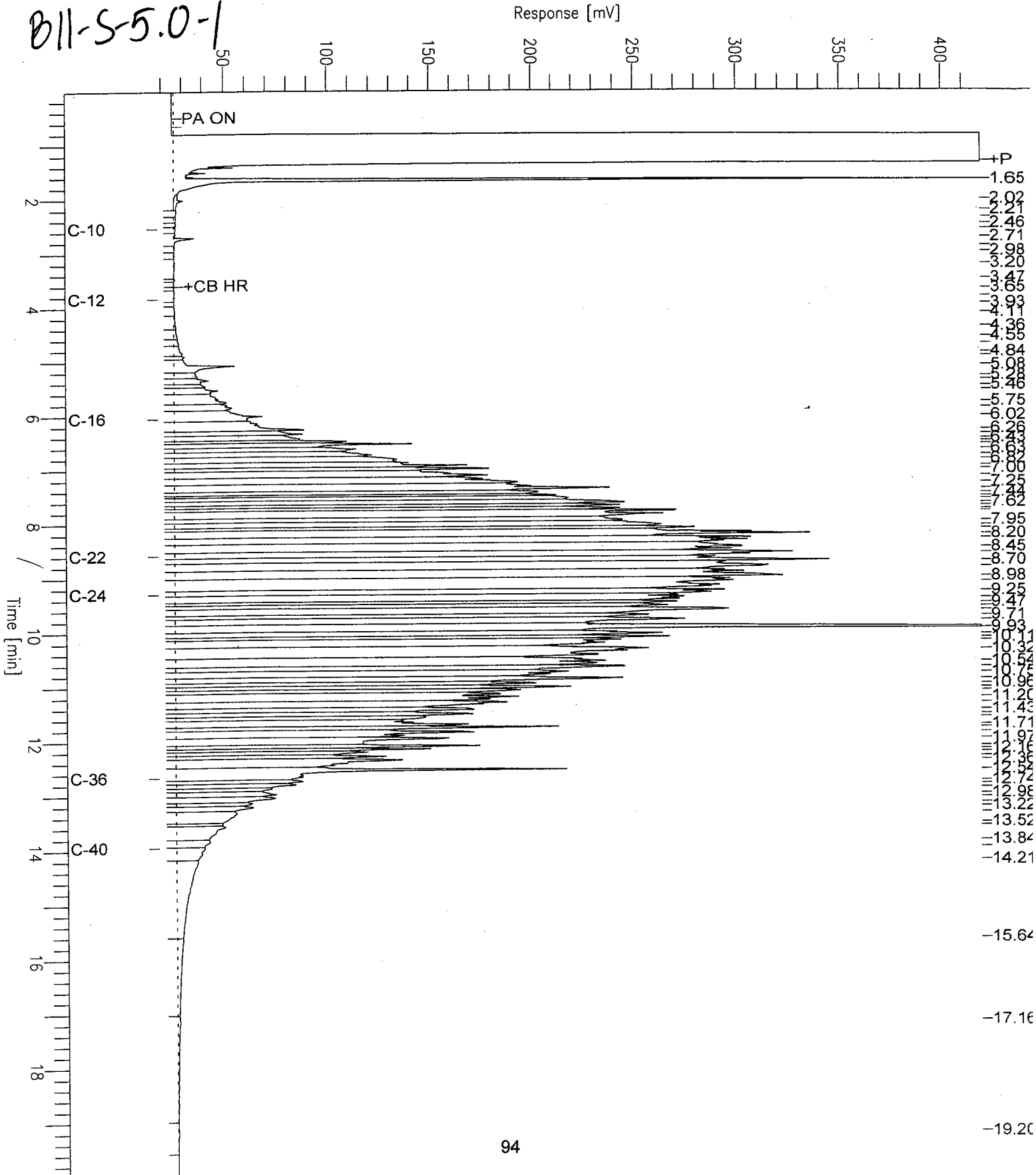
Low Point : 18.23 mV

Plot Scale: 400.8 mV

Page 1 of 1

High Point : 419.00 mV

B11-S-5.0-1



Chromatogram

Sample Name : 176984-029,98090

FileName : G:\GC15\CHB\007B028.RAW

Method : BTEH005S.MTH

Start Time : 0.01 min

Scale Factor: 0.0

End Time : 19.99 min

Plot Offset: 19 mV

Sample #: 98090

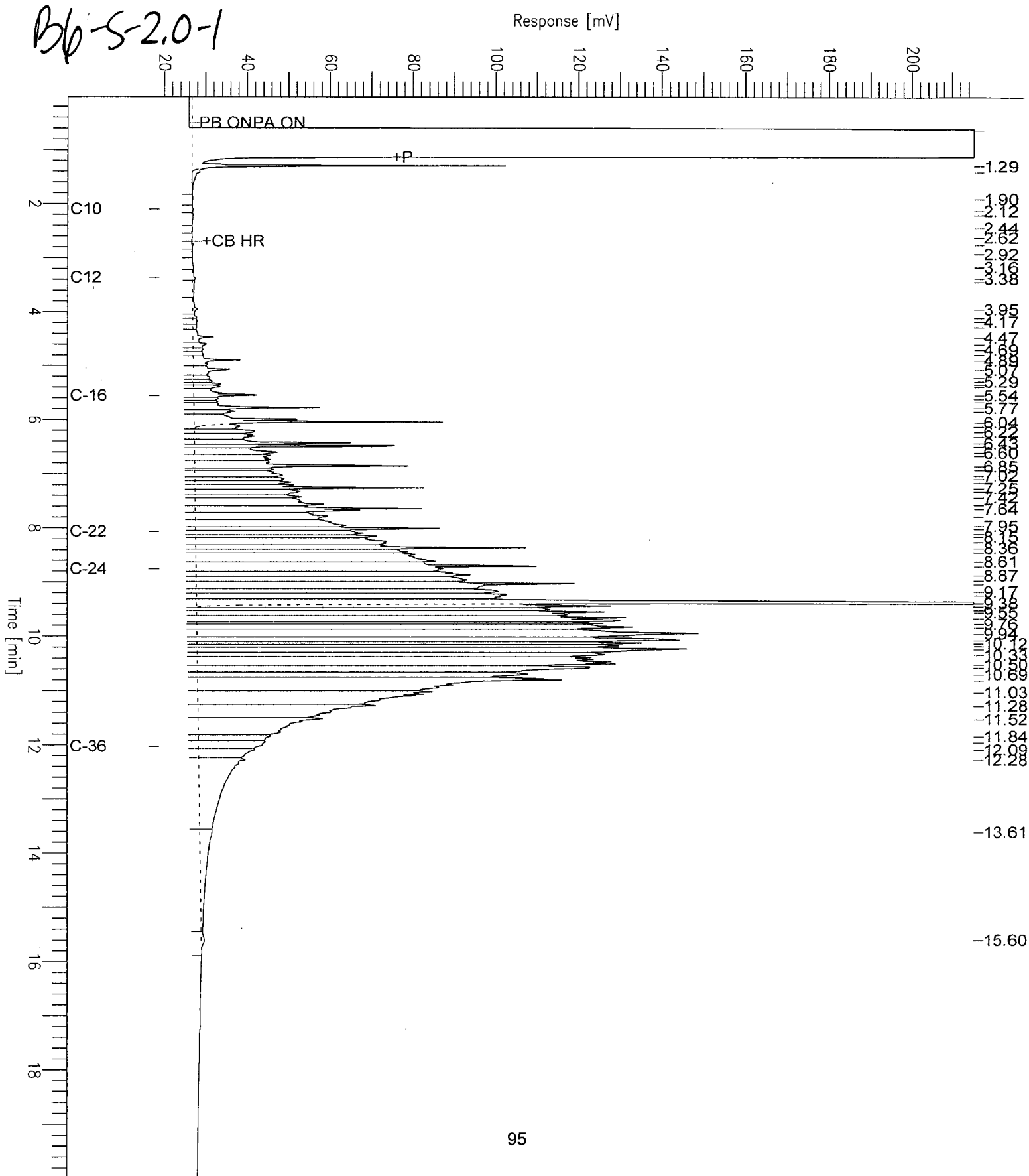
Date : 1/10/05 10:40 AM

Time of Injection: 1/8/05 04:53 AM

Low Point : 18.79 mV

Plot Scale: 196.4 mV

Page 1 of 1



Chromatogram

Sample Name : 176984-031,98090

FileName : G:\GC15\CHB\010B025.RAW

Method : BTEH005S.MTH

Start Time : 0.01 min

Scale Factor: 0.0

End Time : 19.99 min

Plot Offset: 19 mV

Sample #: 98090

Date : 1/11/05 09:20 AM

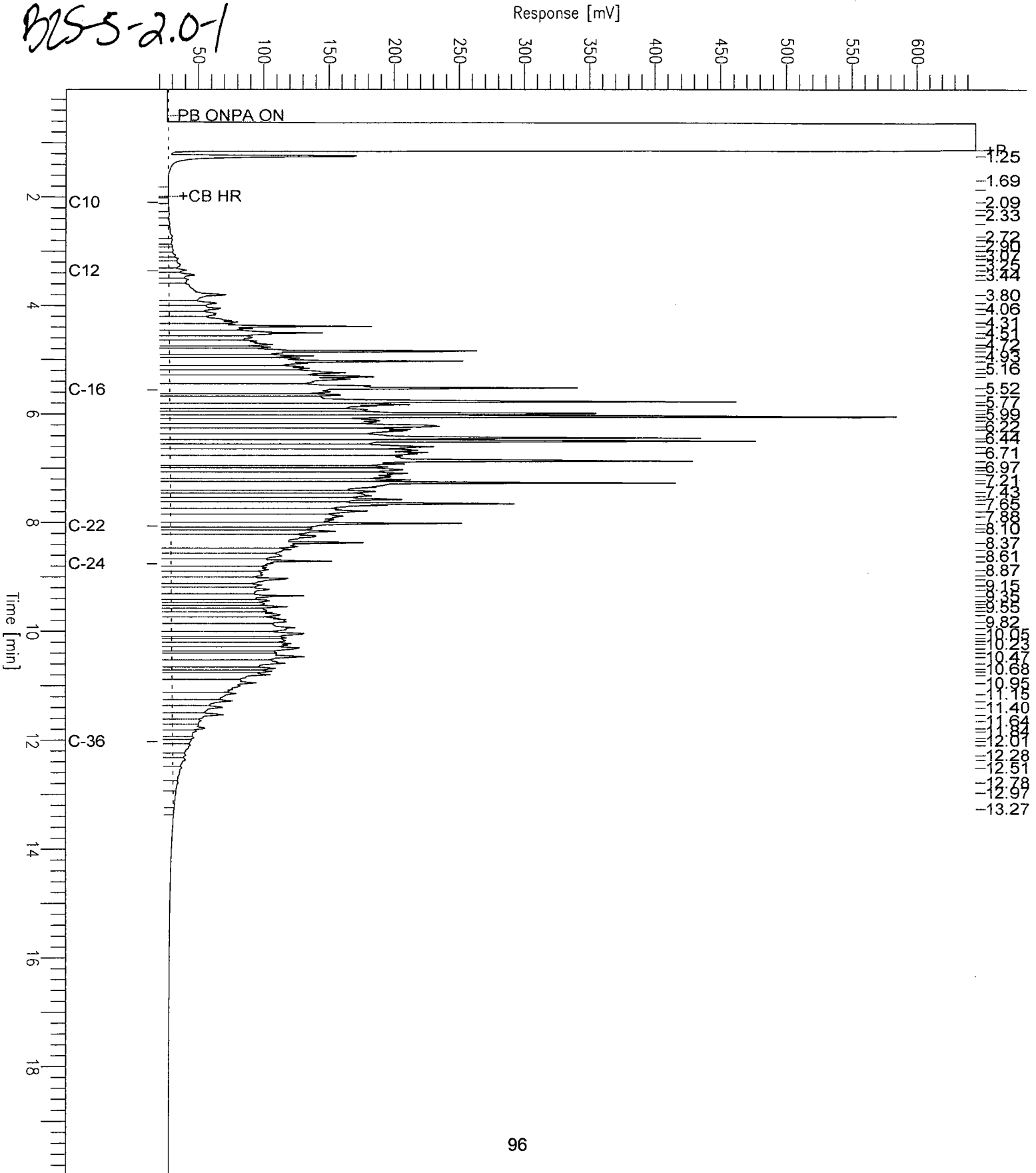
Time of Injection: 1/11/05 01:02 AM

Low Point : 18.88 mV

Plot Scale: 627.2 mV

Page 1 of 1

High Point : 646.08 mV



Chromatogram

Sample Name : 176984-032,98090

FileName : G:\GC15\CHB\010B024.RAW

Method : BTEH005S.MTH

Start Time : 0.00 min

Scale Factor: 0.0

End Time : 19.99 min

Plot Offset: -26 mV

Sample #: 98090

Date : 1/11/05 09:19 AM

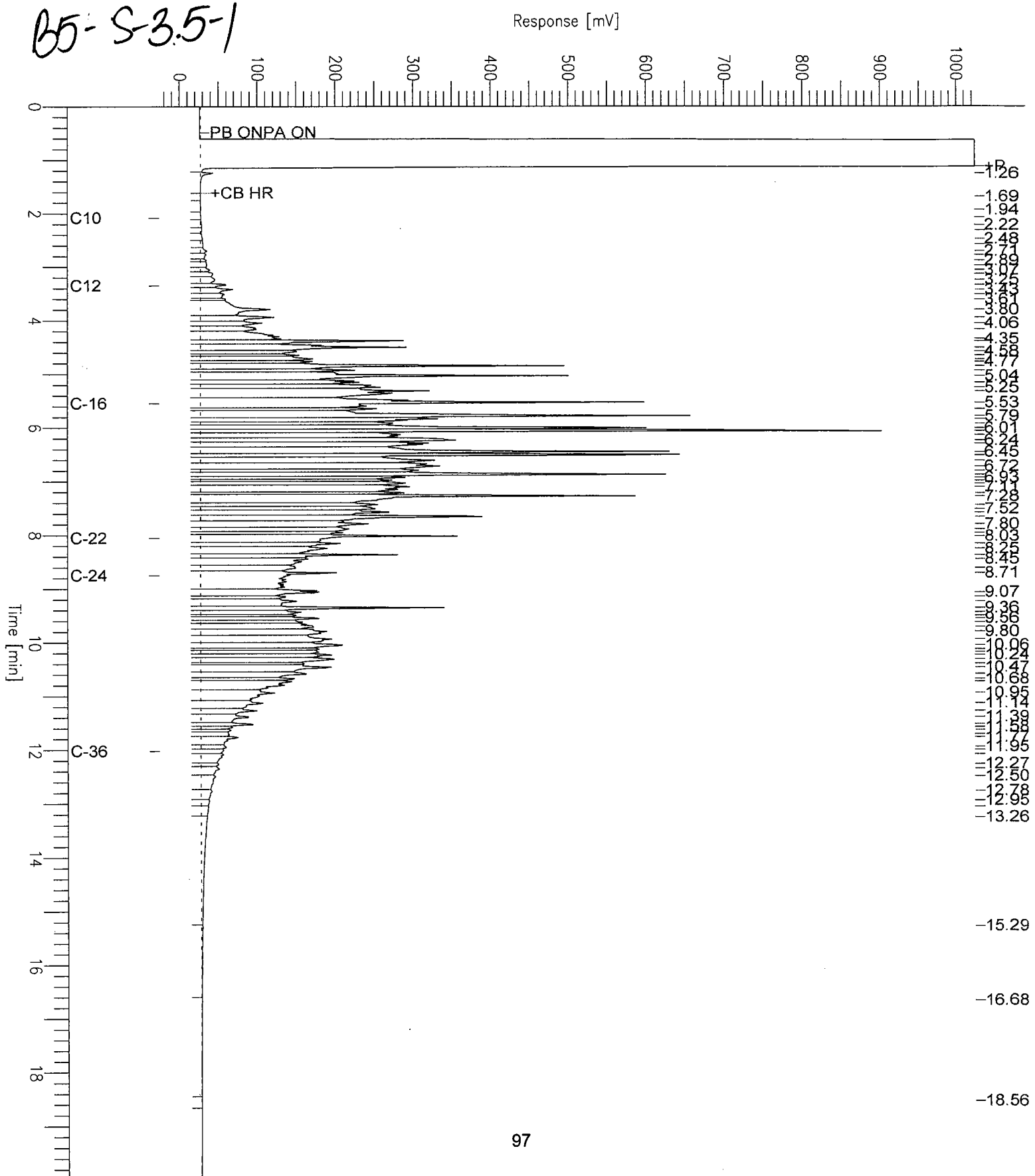
Time of Injection: 1/11/05 12:33 AM

Low Point : -26.40 mV

Plot Scale: 1050.4 mV

Page 1 of 1

High Point : 1024.00 mV



Chromatogram

Sample Name : 176984-033,98090

FileName : G:\GC15\CHB\010B034.RAW

Method : BTEH005S.MTH

Start Time : 0.01 min

Scale Factor: 0.0

End Time : 19.99 min

Plot Offset: 15 mV

Sample #: 98090

Date : 1/11/05 09:26 AM

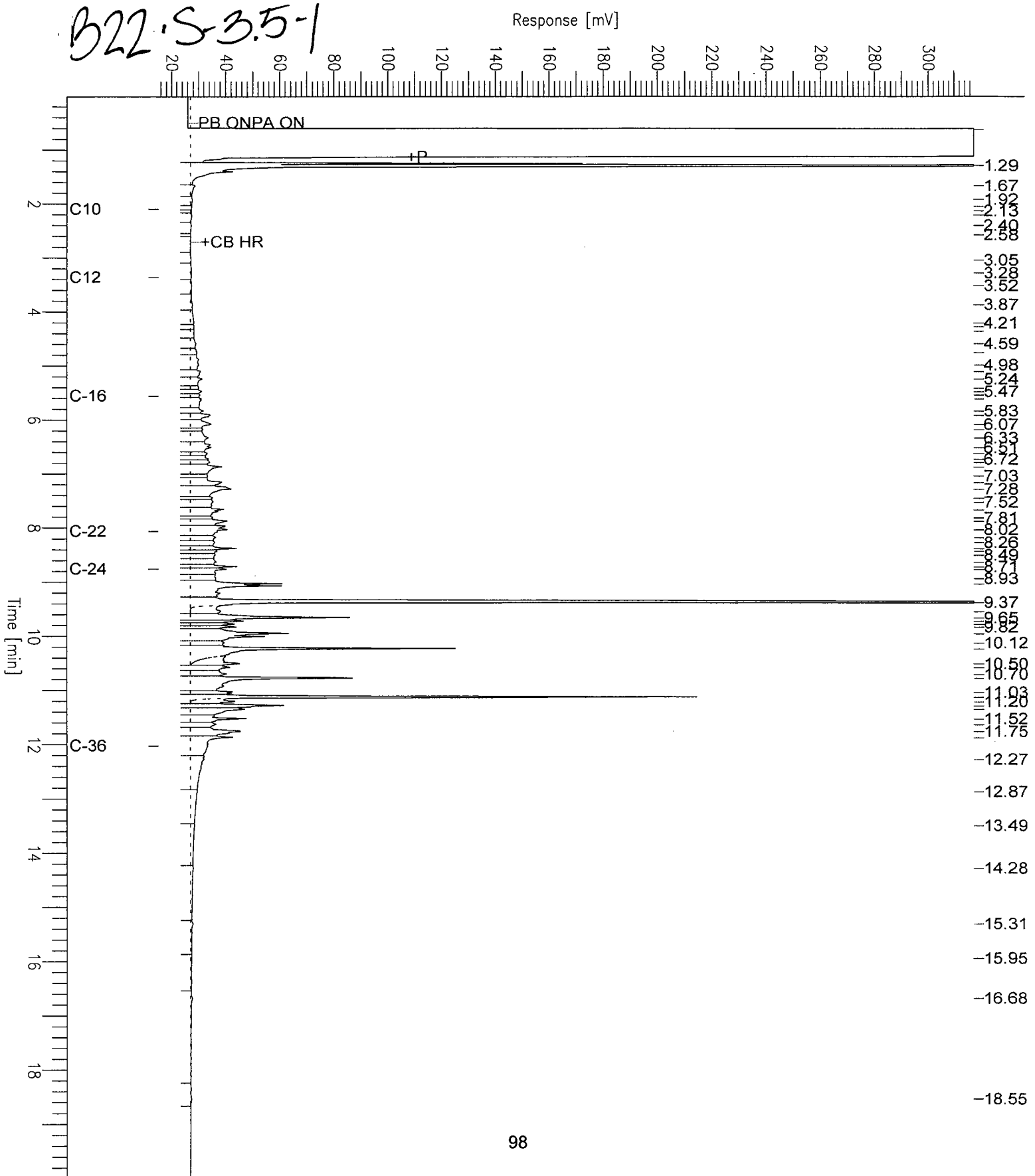
Time of Injection: 1/11/05 05:23 AM

Low Point : 15.12 mV

Plot Scale: 302.2 mV

Page 1 of 1

High Point : 317.29 mV



Chromatogram

Sample Name : 176984-034,98090

FileName : G:\GC15\CHB\010B027.RAW

Method : BTEH005S.MTH

Start Time : 0.01 min

Scale Factor: 0.0

End Time : 19.99 min

Plot Offset: 23 mV

Sample #: 98090

Date : 1/11/05 09:23 AM

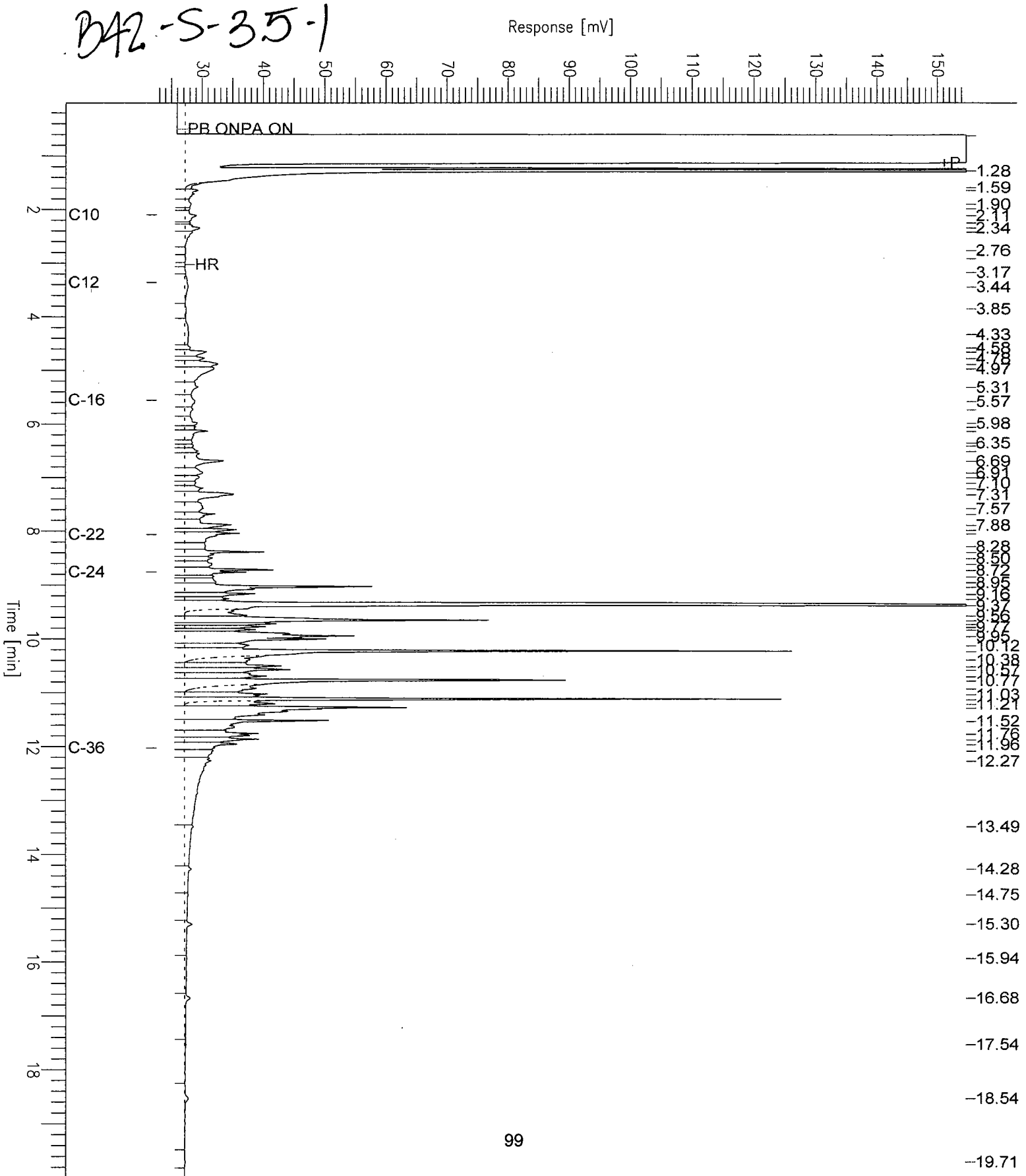
Time of Injection: 1/11/05 02:00 AM

Low Point : 22.55 mV

Plot Scale: 132.2 mV

Page 1 of 1

High Point : 154.79 mV



Chromatogram

Sample Name : 176984-038,98338

FileName : G:\GC17\CHA\017A017.RAW

Method : ATEH011.MTH

Start Time : 0.01 min

Scale Factor: 0.0

End Time : 19.99 min

Plot Offset: 21 mV

Sample #: 98338

Date : 1/18/05 02:53 PM

Time of Injection: 1/17/05 06:24 PM

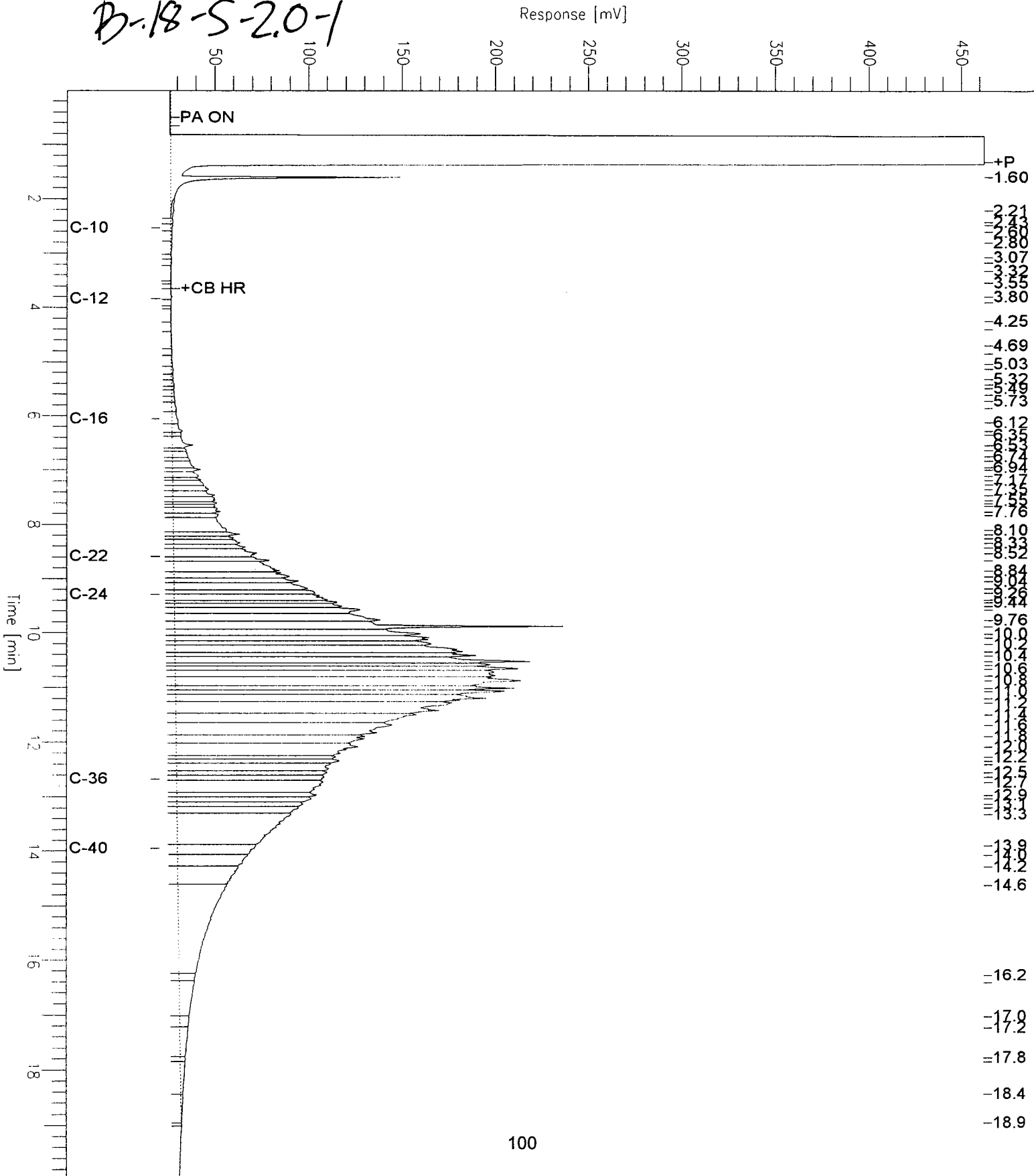
Low Point : 20.98 mV

Plot Scale: 441.4 mV

Page 1 of 1

High Point : 462.42 mV

B-18-S-2.0-1



Chromatogram

Sample Name : 176984-039,98338

FileName : G:\GC17\CHA\017A013.RAW

Method : ATEH011.MTH

Start Time : 0.01 min

Scale Factor: 0.0

End Time : 19.99 min

Plot Offset: 21 mV

Sample #: 98338

Date : 1/18/05 02:51 PM

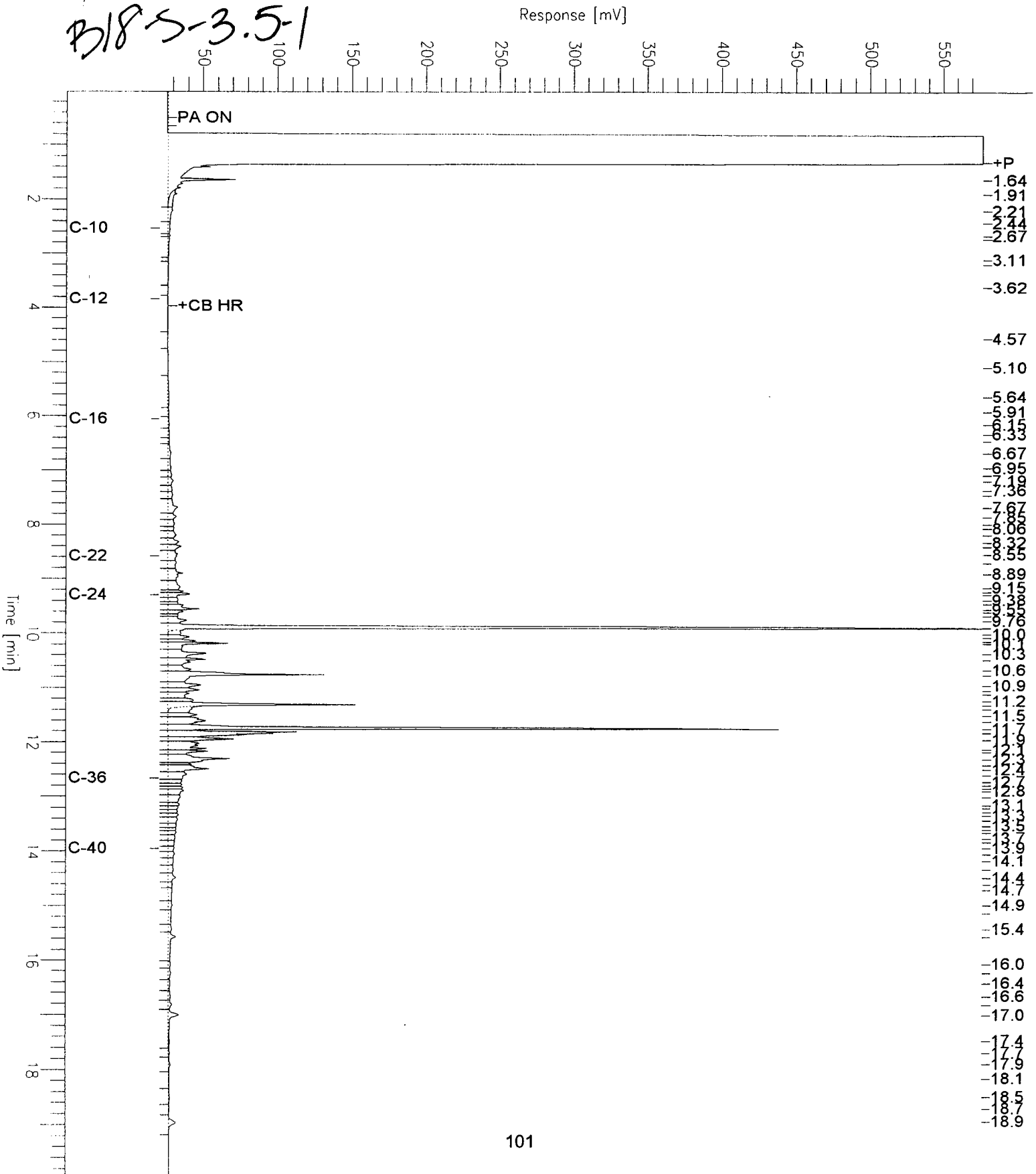
Time of Injection: 1/17/05 04:31 PM

Low Point : 20.94 mV

Plot Scale: 556.1 mV

Page 1 of 1

High Point : 577.00 mV



Chromatogram

Sample Name : ccv,04ws2358,ds1

FileName : G:\GC15\CHB\010B003.RAW

Method : BTEH005S.MTH

Start Time : 0.01 min

End Time : 19.99 min

Plot Offset: 21 mV

Sample #: 500mg/L

Date : 1/10/05 11:06 AM

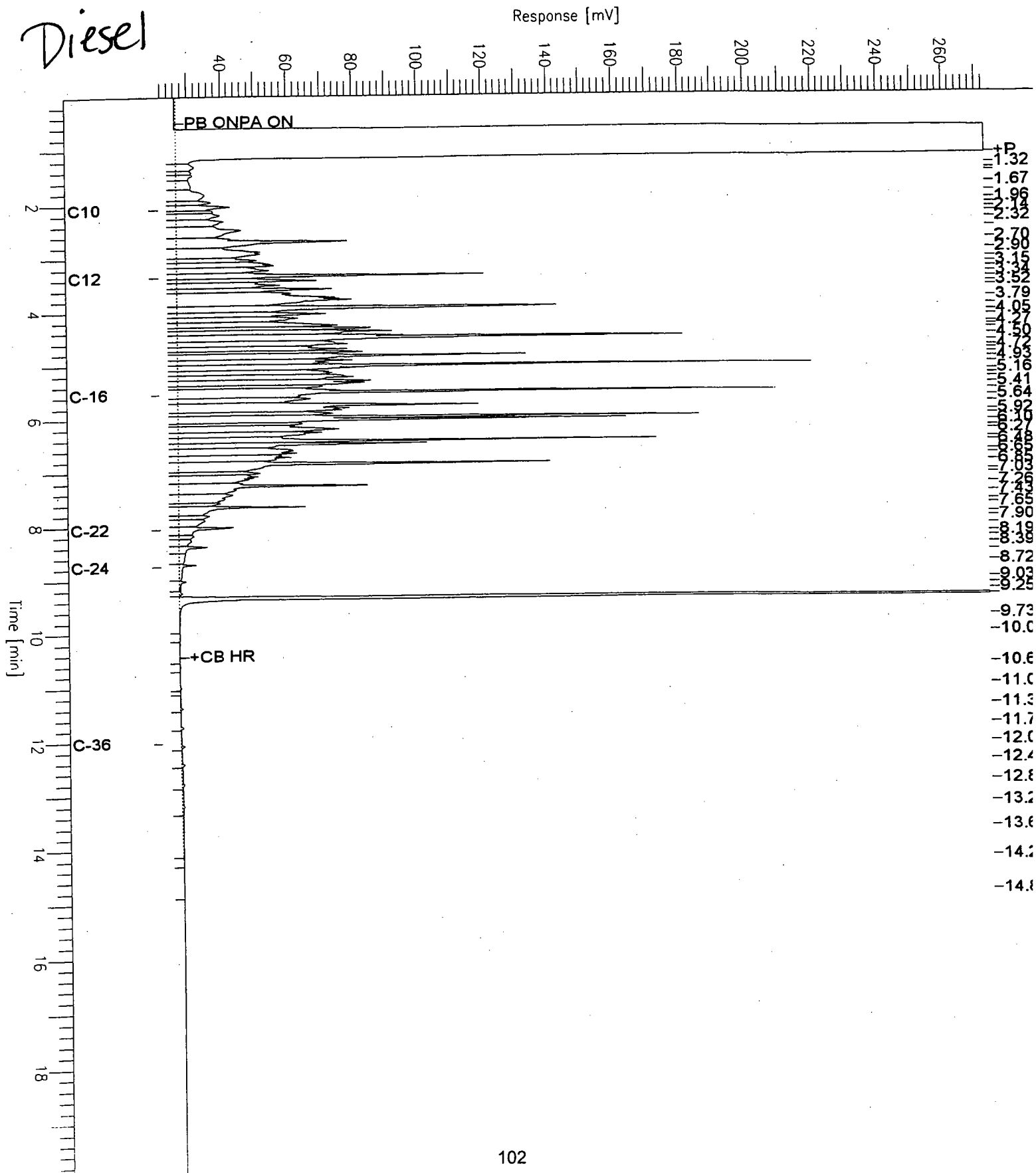
Time of Injection: 1/10/05 10:25 AM

Low Point : 21.42 mV

High Point : 272.67 mV

Plot Scale: 251.3 mV

Page 1 of 1



Chromatogram

Sample Name : ccv,04ws2365,mo
FileName : G:\GC15\CHB\010B004.RAW
Method : BTEH005S.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 19.99 min
Plot Offset: 24 mV

Sample #: 500mg/L

Page 1 of 1

Date : 1/10/05 11:22 AM

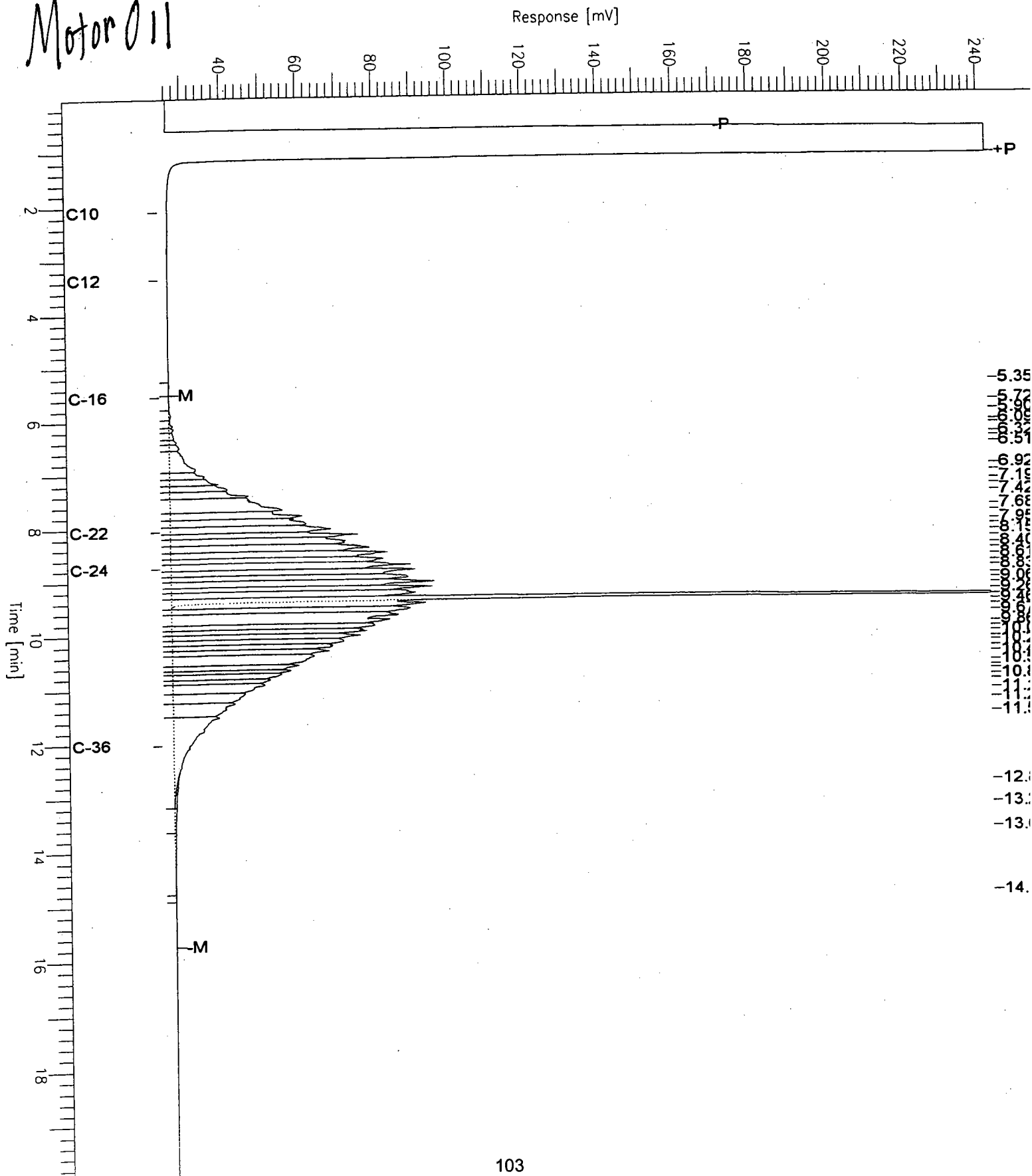
Time of Injection: 1/10/05 10:54 AM

Low Point : 24.17 mV

High Point : 241.97 mV

Plot Scale: 217.8 mV

Motor Oil



Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	SHAKER TABLE
Project#:	400582002	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC278625	Batch#:	98086
Matrix:	Soil	Prepared:	01/07/05
Units:	mg/Kg	Analyzed:	01/07/05
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.20	54.35	108	56-134

Surrogate	%REC	Limits
Hexacosane	111	55-134

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	SHAKER TABLE
Project#:	400582002	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC278649	Batch#:	98090
Matrix:	Soil	Prepared:	01/07/05
Units:	mg/Kg	Analyzed:	01/07/05
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.10	56.70	113	56-134

Surrogate	%REC	Limits
Hexacosane	107	55-134

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	SHAKER TABLE
Project#:	400582002	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC278946	Batch#:	98181
Matrix:	Soil	Prepared:	01/11/05
Units:	mg/Kg	Analyzed:	01/11/05
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.68	54.82	110	56-134

Surrogate	%REC	Limits
Hexacosane	101	55-134

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	SHAKER TABLE
Project#:	400582002	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC279555	Batch#:	98338
Matrix:	Soil	Prepared:	01/15/05
Units:	mg/Kg	Analyzed:	01/17/05
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.18	43.83	87	56-134

Surrogate	%REC	Limits
Hexacosane	91	55-134

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	SHAKER TABLE
Project#:	400582002	Analysis:	EPA 8015B
Field ID:	B14-S-2.0-1	Batch#:	98086
MSS Lab ID:	176984-007	Sampled:	01/05/05
Matrix:	Soil	Received:	01/05/05
Units:	mg/Kg	Prepared:	01/07/05
Basis:	dry	Analyzed:	01/08/05
Diln Fac:	1.000		

Type: MS Moisture: 26%
Lab ID: QC278626

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	464.2	67.65	729.7 >LR	392 NM	13-165

Surrogate	%REC	Limits
Hexacosane	101	55-134

Type: MSD Moisture: 26%
Lab ID: QC278627

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	67.88	630.4	245 NM	13-165	NC	49

Surrogate	%REC	Limits
Hexacosane	90	55-134

NC= Not Calculated

NM= Not Meaningful: Sample concentration > 4X spike concentration

>LR= Response exceeds instrument's linear range

RPD= Relative Percent Difference

Page 1 of 1

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	SHAKER TABLE
Project#:	400582002	Analysis:	EPA 8015B
Field ID:	B5-S-2.0-1	Batch#:	98090
MSS Lab ID:	176983-001	Sampled:	01/05/05
Matrix:	Soil	Received:	01/05/05
Units:	mg/Kg	Prepared:	01/07/05
Basis:	dry	Analyzed:	01/07/05
Diln Fac:	1.000		

Type: MS Moisture: 17%
Lab ID: QC278650

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	4,055	60.52	1,478 >LR	-4258	NM 13-165

Surrogate	%REC	Limits
Hexacosane	44 *	55-134

Type: MSD Moisture: 17%
Lab ID: QC278651

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	60.04	1,554 >LR	-4166	NM 13-165	NC	49

Surrogate	%REC	Limits
Hexacosane	40 *	55-134

*= Value outside of QC limits; see narrative

NC= Not Calculated

NM= Not Meaningful: Sample concentration > 4X spike concentration

>LR= Response exceeds instrument's linear range

RPD= Relative Percent Difference

Page 1 of 1

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	SHAKER TABLE
Project#:	400582002	Analysis:	EPA 8015B
Field ID:	B14-S-5.0-1	Batch#:	98181
MSS Lab ID:	176984-010	Sampled:	01/05/05
Matrix:	Soil	Received:	01/05/05
Units:	mg/Kg	Prepared:	01/11/05
Basis:	as received	Analyzed:	01/11/05
Diln Fac:	1.000		

Type: MS Lab ID: QC278947

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	10.19	49.96	63.04	106	13-165

Surrogate	%REC	Limits
Hexacosane	113	55-134

Type: MSD Lab ID: QC278948

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.79	62.22	104	13-165	1	49

Surrogate	%REC	Limits
Hexacosane	112	55-134

INITIAL CALIBRATION REPORT FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: MCH
Calnum: 114442646002 Name: Motor Oil Type: (normal) Date: 02-NOV-2004 17:19 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	307a013	114442646013	mo50	02-NOV-2004 17:19	04WS1208
2	307a014	114442646014	mo250	02-NOV-2004 17:48	04WS1209
3	307a015	114442646015	mo500	02-NOV-2004 18:17	04WS1210
4	307a016	114442646016	mo1000	02-NOV-2004 18:46	04WS1211
5	307a017	114442646017	mo2500	02-NOV-2004 19:16	04WS1212
6	307a018	114442646018	mo5000	02-NOV-2004 19:45	04WS1012

													r^2			
Analyte	L1	L2	L3	L4	L5	L6	Type X	a0	a1	a2	units	avg	%RSD	MnR^2	MxRSD	Flags
Motor Oil C24-C36	15998	18735	18301	18790	19788	17439	AVRG R		5.502E-5		mg/L	18175	7	0.995	20	

111

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: MCH
Calnum: 114491750001 Name: dsl Type: (normal) Date: 06-DEC-2004 12:48 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	341a003	114491750003	dsl110	06-DEC-2004 12:48	04WS1748
2	341a004	114491750004	dsl1100	06-DEC-2004 13:18	04WS1747
3	341a005	114491750005	dsl1250	06-DEC-2004 13:47	04WS1221
4	341a006	114491750006	dsl1500	06-DEC-2004 14:16	04WS1745
5	341a007	114491750007	dsl11000	06-DEC-2004 14:46	04WS1744
6	341a008	114491750008	dsl12500	06-DEC-2004 15:15	04WS1743
7	341a009	114491750009	dsl15000	06-DEC-2004 15:44	04WS1742

Analyte								Type X				units	avg	r^2			
	L1	L2	L3	L4	L5	L6	L7		a0	a1	a2			%RSD	MnR^2	MxRSD	Flags
Diesel C10-C24	20060	28269	32956	30336	29368	28677	27184	AVRG R		3.556E-5		mg/L	28121	14	0.995	20	

11
21

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Instid : GC11A Calname : dsl
Calnum : 114491750001 Caldate : 06-DEC-2004 Caltype :

ICV 114491750011 (341a011) standards: 04WS2006

Analyte	Ch	ICV	Seqnum	Date	Spiked Quant	Units	%D
Diesel C10-C24	A	114491750011	06-DEC-2004	500.00	489.94	mg/L	-2

INITIAL CALIBRATION REPORT FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Reviewed By: MCH
Calnum: 114506134001 Name: Hexacosane Type: (normal) Date: 16-DEC-2004 12:04 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	351a002	114506134002	hex5	16-DEC-2004 12:04	04WS2042
2	351a003	114506134003	hex10	16-DEC-2004 12:33	04WS2043
3	351a004	114506134004	hex25	16-DEC-2004 13:02	04WS2044
4	351a005	114506134005	hex50	16-DEC-2004 13:31	04WS2045
5	351a006	114506134006	hex75	16-DEC-2004 14:00	04WS2046

Analyte						Type X	a0	a1	a2	units	avg	r^2			
	L1	L2	L3	L4	L5							%RSD	MnR^2	MxRSD	Flags
Hexacosane	29511	28377	29932	29897	29504	AVRG R		3.396E-5		mg/L	29444	2	0.995	20	

114

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

Page 1 of 1

INITIAL CALIBRATION REPORT FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Reviewed By: MMP
Calnum: 165006306001 Name: 004ical Type: (normal) Date: 04-JAN-2005 12:08 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	004b005	165006306005	hex5	04-JAN-2005 12:08	04WS2042
2	004b006	165006306006	hex10	04-JAN-2005 12:37	04WS2043
3	004b007	165006306007	hex25	04-JAN-2005 13:06	04WS2044
4	004b008	165006306008	hex50	04-JAN-2005 13:34	04WS2045
5	004b009	165006306009	hex75	04-JAN-2005 14:03	04WS2046

Analyte						Type X				r^2				
	L1	L2	L3	L4	L5		a0	a1	a2	units	avg	%RSD	MnR^2	MxRSD
Hexacosane	27389	26541	25481	24701	25964	AVRG R		3.844E-5		mg/L	26015	4	0.995	20

115

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

Page 1 of 1

INITIAL CALIBRATION REPORT FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Reviewed By: MMP
Calnum: 165007836001 Name: dsl Type: (normal) Date: 05-JAN-2005 16:55 Inj Vol (uL): 3

Calibration levels:

#	Filename	Segnum	Samplenum	Analyzed	Standards
1	005b008	165007836008	dsl110	05-JAN-2005 16:55	04WS2298
2	005b009	165007836009	dsl1100	05-JAN-2005 17:24	04WS2299
3	005b010	165007836010	dsl1250	05-JAN-2005 17:53	04WS2300
4	005b011	165007836011	dsl1500	05-JAN-2005 18:22	05WS0019
5	005b012	165007836012	dsl11000	05-JAN-2005 18:51	04WS2302
6	005b013	165007836013	dsl12500	05-JAN-2005 19:19	04WS2303
7	005b014	165007836014	dsl15000	05-JAN-2005 19:48	04WS2297

Analyte								Type X				r^2				
	L1	L2	L3	L4	L5	L6	L7		a0	a1	a2	units	avg	%RSD	MnR^2	MxRSD
Diesel C10-C24	23318	24894	25697	24281	25048	24627	25228	AVRG R		4.044E-5		mg/L	24727	3	0.995	20

116

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

Page 1 of 1

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Instid : GC15B Calname : dsl
Calnum : 165007836001 Caldate : 05-JAN-2005 Caltype :

ICV 165007836023 (005b023) standards: 04WS2006

Analyte	Ch	ICV	Seqnum	Date	Spiked	Quant	Units	%D
Diesel C10-C24	B	165007836023	06-JAN-2005	500.00	488.67	mg/L	-2	

INITIAL CALIBRATION REPORT FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Reviewed By: MMP
Calnum: 165007836002 Name: mo Type: (normal) Date: 05-JAN-2005 20:46 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	005b016	165007836016	mo50	05-JAN-2005 20:46	04WS2172
2	005b017	165007836017	mo250	05-JAN-2005 21:14	04WS2173
3	005b018	165007836018	mo500	05-JAN-2005 21:43	04WS2174
4	005b019	165007836019	mo1000	05-JAN-2005 22:12	04WS2175
5	005b020	165007836020	mo2500	05-JAN-2005 22:41	04WS2176
6	005b021	165007836021	mo5000	05-JAN-2005 23:10	04WS2169

Analyte	L1	L2	L3	L4	L5	L6	Type	X	a0	a1	a2	units	avg	r^2			
														%RSD	MnR^2	MxRSD	Flags
Motor Oil C24-C36	17215	16461	16134	14940	12481	10170	AVRG	R		6.865E-5		mg/L	14567	19	0.995	20	

118

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

Page 1 of 1

INITIAL CALIBRATION REPORT FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Reviewed By: MMP
Calnum: 175006590001 Name: dslcal Type: (normal) Date: 04-JAN-2005 19:51 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	004a007	175006590007	dsl110	04-JAN-2005 19:51	04WS2298
2	004a008	175006590008	dsl1100	04-JAN-2005 20:20	04WS2299
3	004a009	175006590009	dsl250	04-JAN-2005 20:48	04WS2300
4	004a010	175006590010	dsl	04-JAN-2005 21:17	05WS0019
5	004a011	175006590011	dsl11000	04-JAN-2005 21:45	04WS2302
6	004a012	175006590012	dsl2500	04-JAN-2005 22:14	04WS2303
7	004a013	175006590013	dsl5000	04-JAN-2005 22:42	04WS2297

Analyte								Type X				r^2				
	L1	L2	L3	L4	L5	L6	L7		a0	a1	a2	units	avg	%RSD	MnR^2	MxRSD
Diesel C10-C24	17127	24737	26432	26049	26372	26707	27390	AVRG R		4.004E-5		mg/L	24973	14	0.995	20

110

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Instid : GC17A Calname : dslcal
Calnum : 175006590001 Caldate : 04-JAN-2005 Caltype :

ICV 175006590028 (004a028) standards: 04WS2006

Analyte	Ch	ICV	Seqnum	Date	Spiked	Quant	Units	%D
Diesel C10-C24	A	175006590028	05-JAN-2005	500.00	508.22	mg/L	2	

INITIAL CALIBRATION REPORT FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Reviewed By: MMP
Calnum: 175006590003 Name: 17hexical004 Type: (normal) Date: 05-JAN-2005 02:57 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	004a022	175006590022	hex5	05-JAN-2005 02:57	04WS2042
2	004a023	175006590023	hex10	05-JAN-2005 03:25	04WS2043
3	004a024	175006590024	hex25	05-JAN-2005 03:53	04WS2044
4	004a025	175006590025	hex50	05-JAN-2005 04:22	04WS2045
5	004a026	175006590026	hex75	05-JAN-2005 04:50	04WS2046

Analyte												r^2			
	L1	L2	L3	L4	L5	Type	X	a0	a1	a2	units	avg	%RSD	MnR^2	MxRSD
Hexacosane	26304	28912	30122	28892	29727	AVRG	R		3.473E-5		mg/L	28791	5	0.995	20

121

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

Page 1 of 1

INITIAL CALIBRATION REPORT FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Reviewed By: MCH
Calnum: 175014967001 Name: Motor Oil Type: (normal) Date: 11-JAN-2005 03:34 Inj Vol (uL): 3

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	010a023	175014967023	m050	11-JAN-2005 03:34	04WS2172
2	010a024	175014967024	mo250	11-JAN-2005 04:03	04WS2173
3	010a025	175014967025	mo500	11-JAN-2005 04:31	04WS2174
4	010a026	175014967026	mo1000	11-JAN-2005 05:00	04WS2175
5	010a027	175014967027	mo2500	11-JAN-2005 05:28	04WS2176
6	010a028	175014967028	mo5000	11-JAN-2005 05:57	04WS2169

Analyte	L1	L2	L3	L4	L5	L6	Type	X	r^2								
									a0	a1	a2	units	avg	%RSD	MnR^2	MxRSD	Flags
Motor Oil C24-C36	16055	17028	17348	18179	19525	18579	AVRG	R	5.623E-5			mg/L	17786	7	0.995	20	

122

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

Page 1 of 1

CONTINUING CALIBRATION SUMMARY FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Analyte: Diesel C10-C24

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg		SpkAmt	QntAmt	Units	%D	Max	%D	Flags
						RF/CF	RF/CF							
GC11A	A	115010745016	07-JAN-2005 18:35	114491750001	06-DEC-2004	28121	29661	1000.0	1054.7	mg/L	5	15		
GC11A	A	115010745029	08-JAN-2005 00:55	114491750001	06-DEC-2004	28121	28628	250.00	254.51	mg/L	2	15		
GC11A	A	115016427003	11-JAN-2005 10:45	114491750001	06-DEC-2004	28121	29044	500.00	516.41	mg/L	3	15		
GC11A	A	115016427017	11-JAN-2005 19:46	114491750001	06-DEC-2004	28121	29613	1000.0	1053.0	mg/L	5	15		
GC11A	A	115017823003	12-JAN-2005 10:01	114491750001	06-DEC-2004	28121	30406	500.00	540.62	mg/L	8	15		
GC11A	A	115017823017	12-JAN-2005 20:33	114491750001	06-DEC-2004	28121	29617	1000.0	1053.2	mg/L	5	15		
GC11A	A	115025030003	17-JAN-2005 10:09	114491750001	06-DEC-2004	28121	29696	500.00	527.99	mg/L	6	15		
GC11A	A	115025030017	17-JAN-2005 16:42	114491750001	06-DEC-2004	28121	30405	1000.0	1081.2	mg/L	8	15		
GC11A	A	115025030032	18-JAN-2005 00:02	114491750001	06-DEC-2004	28121	29515	250.00	262.39	mg/L	5	15		
GC15B	B	165011008003	07-JAN-2005 16:26	165007836001	05-JAN-2005	24727	25220	500.00	509.95	mg/L	2	15		
GC15B	B	165011008016	07-JAN-2005 23:06	165007836001	05-JAN-2005	24727	25237	1000.0	1020.6	mg/L	2	15		
GC15B	B	165011008032	08-JAN-2005 06:49	165007836001	05-JAN-2005	24727	24622	250.00	248.94	mg/L	0	15		
GC15B	B	165011008048	08-JAN-2005 14:33	165007836001	05-JAN-2005	24727	25864	500.00	522.98	mg/L	5	15		
GC15B	B	165011008058	08-JAN-2005 19:23	165007836001	05-JAN-2005	24727	26250	1000.0	1061.6	mg/L	6	15		
GC15B	B	165014967003	10-JAN-2005 10:25	165007836001	05-JAN-2005	24727	25002	500.00	505.55	mg/L	1	15		
GC15B	B	165014967015	10-JAN-2005 20:12	165007836001	05-JAN-2005	24727	24360	1000.0	985.15	mg/L	-1	15		
GC15B	B	165014967028	11-JAN-2005 02:29	165007836001	05-JAN-2005	24727	25598	250.00	258.80	mg/L	4	15		
GC15B	B	165014967041	11-JAN-2005 08:47	165007836001	05-JAN-2005	24727	25326	500.00	512.10	mg/L	2	15		
GC17A	A	175010762003	07-JAN-2005 12:19	175006590001	04-JAN-2005	24973	25984	500.00	520.24	mg/L	4	15		
GC17A	A	175010762016	07-JAN-2005 22:01	175006590001	04-JAN-2005	24973	26922	1000.0	1078.0	mg/L	8	15		
GC17A	A	175010762029	08-JAN-2005 04:12	175006590001	04-JAN-2005	24973	25925	250.00	259.53	mg/L	4	15		
GC17A	A	175010762042	08-JAN-2005 10:24	175006590001	04-JAN-2005	24973	27855	500.00	557.70	mg/L	12	15		
GC17A	A	175016397003	11-JAN-2005 10:14	175006590001	04-JAN-2005	24973	27895	500.00	558.49	mg/L	12	15		
GC17A	A	175016397016	11-JAN-2005 18:14	175006590001	04-JAN-2005	24973	25872	250.00	259.00	mg/L	4	15		
GC17A	A	175016397025	11-JAN-2005 22:32	175006590001	04-JAN-2005	24973	26420	250.00	264.49	mg/L	6	15		
GC17A	A	175025057008	17-JAN-2005 14:04	175006590001	04-JAN-2005	24973	23842	500.00	477.35	mg/L	-5	15		
GC17A	A	175025057019	17-JAN-2005 19:21	175006590001	04-JAN-2005	24973	24964	1000.0	999.63	mg/L	0	15		

CONTINUING CALIBRATION SUMMARY FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Analyte: Motor Oil C24-C36

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg		SpkAmt	QntAmt	Units	%D Max	%D	Flags
						RF/CF	RF/CF						
GC11A	A	115010745017	07-JAN-2005 19:04	114442646002	02-NOV-2004	18175	18292	500.00	503.22	mg/L	1	15	
GC11A	A	115010745030	08-JAN-2005 01:25	114442646002	02-NOV-2004	18175	17778	500.00	489.07	mg/L	-2	15	
GC11A	A	115016427004	11-JAN-2005 11:14	114442646002	02-NOV-2004	18175	18907	500.00	520.14	mg/L	4	15	
GC11A	A	115016427018	11-JAN-2005 20:15	114442646002	02-NOV-2004	18175	18338	500.00	504.48	mg/L	1	15	
GC11A	A	115017823004	12-JAN-2005 10:30	114442646002	02-NOV-2004	18175	19220	500.00	528.74	mg/L	6	15	
GC11A	A	115017823018	12-JAN-2005 21:02	114442646002	02-NOV-2004	18175	18753	500.00	515.89	mg/L	3	15	
GC11A	A	115025030004	17-JAN-2005 10:38	114442646002	02-NOV-2004	18175	19687	500.00	541.60	mg/L	8	15	
GC11A	A	115025030018	17-JAN-2005 17:11	114442646002	02-NOV-2004	18175	18673	500.00	513.70	mg/L	3	15	
GC15B	B	165011008017	07-JAN-2005 23:35	165007836002	05-JAN-2005	14567	14696	500.00	504.42	mg/L	1	15	
GC15B	B	165011008033	08-JAN-2005 07:18	165007836002	05-JAN-2005	14567	14659	500.00	503.15	mg/L	1	15	
GC15B	B	165011008049	08-JAN-2005 15:02	165007836002	05-JAN-2005	14567	13733	500.00	471.38	mg/L	-6	15	
GC15B	B	165011008059	08-JAN-2005 19:52	165007836002	05-JAN-2005	14567	13404	500.00	460.08	mg/L	-8	15	
GC15B	B	165014967004	10-JAN-2005 10:54	165007836002	05-JAN-2005	14567	13945	500.00	478.66	mg/L	-4	15	
GC15B	B	165014967016	10-JAN-2005 20:41	165007836002	05-JAN-2005	14567	13528	500.00	464.33	mg/L	-7	15	
GC15B	B	165014967029	11-JAN-2005 02:58	165007836002	05-JAN-2005	14567	13932	500.00	478.20	mg/L	-4	15	
GC15B	B	165014967042	11-JAN-2005 09:16	165007836002	05-JAN-2005	14567	13296	500.00	456.37	mg/L	-9	15	
GC17A	A	175016397004	11-JAN-2005 10:42	175014967001	11-JAN-2005	17786	17664	500.00	496.57	mg/L	-1	15	
GC17A	A	175016397017	11-JAN-2005 18:43	175014967001	11-JAN-2005	17786	17965	500.00	505.06	mg/L	1	15	
GC17A	A	175016397026	11-JAN-2005 23:01	175014967001	11-JAN-2005	17786	17357	500.00	487.95	mg/L	-2	15	
GC17A	A	175025057007	17-JAN-2005 13:25	175014967001	11-JAN-2005	17786	16801	500.00	472.33	mg/L	-6	15	
GC17A	A	175025057020	17-JAN-2005 19:49	175014967001	11-JAN-2005	17786	20165	500.00	566.90	mg/L	13	15	

CONTINUING CALIBRATION SUMMARY FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Analyte: Hexacosane

Instid	Ch	Seqnum	Injected	Catnum	Caldate	Avg		SpkAmt	QntAmt	Units	%D	Max	%D	Flags
						RF/CF	RF/CF							
GC11A	A	115010745016	07-JAN-2005 18:35	114506134001	16-DEC-2004	29444	30850	50.000	52.387	mg/L	5	15		
GC11A	A	115010745029	08-JAN-2005 00:55	114506134001	16-DEC-2004	29444	30047	50.000	51.024	mg/L	2	15		
GC11A	A	115016427007	11-JAN-2005 14:51	114506134001	16-DEC-2004	29444	31819	50.000	54.033	mg/L	8	15		
GC11A	A	115016427017	11-JAN-2005 19:46	114506134001	16-DEC-2004	29444	32386	50.000	54.995	mg/L	10	15		
GC11A	A	115017823003	12-JAN-2005 10:01	114506134001	16-DEC-2004	29444	32724	50.000	55.570	mg/L	11	15		
GC11A	A	115017823017	12-JAN-2005 20:33	114506134001	16-DEC-2004	29444	32073	50.000	54.465	mg/L	9	15		
GC11A	A	115025030003	17-JAN-2005 10:09	114506134001	16-DEC-2004	29444	30910	50.000	52.490	mg/L	5	15		
GC11A	A	115025030017	17-JAN-2005 16:42	114506134001	16-DEC-2004	29444	32324	50.000	54.891	mg/L	10	15		
GC11A	A	115025030032	18-JAN-2005 00:02	114506134001	16-DEC-2004	29444	33160	50.000	56.311	mg/L	13	15		
GC15B	B	165011008003	07-JAN-2005 16:26	165006306001	04-JAN-2005	26015	26385	50.000	50.711	mg/L	1	15		
GC15B	B	165011008016	07-JAN-2005 23:06	165006306001	04-JAN-2005	26015	26762	50.000	51.435	mg/L	3	15		
GC15B	B	165011008032	08-JAN-2005 06:49	165006306001	04-JAN-2005	26015	27467	50.000	52.791	mg/L	6	15		
GC15B	B	165011008048	08-JAN-2005 14:33	165006306001	04-JAN-2005	26015	26195	50.000	50.345	mg/L	1	15		
GC15B	B	165011008058	08-JAN-2005 19:23	165006306001	04-JAN-2005	26015	26540	50.000	51.009	mg/L	2	15		
GC15B	B	165014967003	10-JAN-2005 10:25	165006306001	04-JAN-2005	26015	24643	50.000	47.362	mg/L	-5	15		
GC15B	B	165014967015	10-JAN-2005 20:12	165006306001	04-JAN-2005	26015	24365	50.000	46.829	mg/L	-6	15		
GC15B	B	165014967028	11-JAN-2005 02:29	165006306001	04-JAN-2005	26015	26917	50.000	51.733	mg/L	3	15		
GC15B	B	165014967041	11-JAN-2005 08:47	165006306001	04-JAN-2005	26015	24735	50.000	47.539	mg/L	-5	15		
GC17A	A	175010762003	07-JAN-2005 12:19	175006590003	05-JAN-2005	28791	29565	50.000	51.343	mg/L	3	15		
GC17A	A	175010762016	07-JAN-2005 22:01	175006590003	05-JAN-2005	28791	30731	50.000	53.369	mg/L	7	15		
GC17A	A	175010762029	08-JAN-2005 04:12	175006590003	05-JAN-2005	28791	30385	50.000	52.767	mg/L	6	15		
GC17A	A	175010762042	08-JAN-2005 10:24	175006590003	05-JAN-2005	28791	30700	50.000	53.315	mg/L	7	15		
GC17A	A	175016397003	11-JAN-2005 10:14	175006590003	05-JAN-2005	28791	28582	50.000	49.636	mg/L	-1	15		
GC17A	A	175016397016	11-JAN-2005 18:14	175006590003	05-JAN-2005	28791	30178	50.000	52.408	mg/L	5	15		
GC17A	A	175016397025	11-JAN-2005 22:32	175006590003	05-JAN-2005	28791	31833	50.000	55.282	mg/L	11	15		
GC17A	A	175025057007	17-JAN-2005 13:25	175006590003	05-JAN-2005	28791	27864	50.000	48.389	mg/L	-3	15		
GC17A	A	175025057019	17-JAN-2005 19:21	175006590003	05-JAN-2005	28791	28529	50.000	49.544	mg/L	-1	15		

SEQUENCE SUMMARY FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 114442646 Instrument: GC11A
Analytical Method: EPA 8015B

Gas Chromatograph #11 (Channel A) TEH
SOP Version: TEH_rv12

Begun: 02-NOV-2004

#	Filename	Type	Samplenum	Batch	Matrix Analyzed	IDF	IOC	SPK	uL	VL	pH	Stds Used	>LR
001	307a001	X	primer		02-NOV-2004	09:26	1.0						
002	307a002	X	ib		02-NOV-2004	09:55	1.0						
003	307a003	CCV	dsl		02-NOV-2004	10:24	1.0	6	3			1	
004	307a004	CCV	mo		02-NOV-2004	10:54	1.0	4	3			2	
005	307a005	ICAL	dsl110		02-NOV-2004	13:24	1.0					3	
006	307a006	ICAL	dsl1100		02-NOV-2004	13:53	1.0					4	
007	307a007	ICAL	dsl250		02-NOV-2004	14:22	1.0					5	
008	307a008	ICAL	dsl500		02-NOV-2004	14:52	1.0					6	
009	307a009	ICAL	dsl1000		02-NOV-2004	15:21	1.0					7	
010	307a010	ICAL	dsl2500		02-NOV-2004	15:50	1.0					8	
011	307a011	ICAL	dsl5000		02-NOV-2004	16:20	1.0					9	
012	307a012	X	ib		02-NOV-2004	16:49	1.0						
013	307a013	ICAL	mo50		02-NOV-2004	17:19	1.0					10	
014	307a014	ICAL	mo250		02-NOV-2004	17:48	1.0					11	
015	307a015	ICAL	mo500		02-NOV-2004	18:17	1.0					12	
016	307a016	ICAL	mo1000		02-NOV-2004	18:46	1.0					13	
017	307a017	ICAL	mo2500		02-NOV-2004	19:16	1.0					14	
018	307a018	ICAL	mo5000		02-NOV-2004	19:45	1.0					15	
019	307a019	X	ib		02-NOV-2004	20:14	1.0						
020	307a020	ICAL	hex5		02-NOV-2004	20:43	1.0					16	
021	307a021	ICAL	hex10		02-NOV-2004	21:13	1.0					17	
022	307a022	ICAL	hex25		02-NOV-2004	21:42	1.0					18	
023	307a023	ICAL	hex50		02-NOV-2004	22:11	1.0					19	
024	307a024	ICAL	hex75		02-NOV-2004	22:40	1.0					20	
025	307a025	X	ib		02-NOV-2004	23:09	1.0						
026	307a026	CCV	dsl		02-NOV-2004	23:39	1.0		3			1	
027	307a027	CCV	mo		03-NOV-2004	00:08	1.0		3			2	
028	307a028	ICV	dsl500		03-NOV-2004	00:38	1.0		3			21	

Stds used: 1=04WS1975 2=04WS2074 3=04WS1748 4=04WS1747 5=04WS1746 6=04WS1745 7=04WS1744 8=04WS1743 9=04WS1742 10=04WS1208 11=04WS1209 12=04WS1210 13=04WS1211 14=04WS1212
15=04WS1012 16=04WS2042 17=04WS2043 18=04WS2044 19=04WS2045 20=04WS2046 21=04WS2006

SEQUENCE SUMMARY FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 114491750 Instrument: GC11A
Analytical Method: EPA 8015B

Gas Chromatograph #11 (Channel A) TEH
SOP Version: TEH_rv12

Begun: 06-DEC-2004

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	341a001	X	primer			06-DEC-2004 11:50	1.0						
002	341a002	X	ib			06-DEC-2004 12:19	1.0						
003	341a003	ICAL	dsl10			06-DEC-2004 12:48	1.0	1.0				1	
004	341a004	ICAL	dsl100			06-DEC-2004 13:18	1.0	1.0				2	
005	341a005	ICAL	dsl250			06-DEC-2004 13:47	1.0	1.0				3	
006	341a006	ICAL	dsl500			06-DEC-2004 14:16	1.0	1.0				4	
007	341a007	ICAL	dsl1000			06-DEC-2004 14:46	1.0	1.0				5	
008	341a008	ICAL	dsl2500			06-DEC-2004 15:15	1.0	1.0				6	
009	341a009	ICAL	dsl5000			06-DEC-2004 15:44	1.0	1.0				7	
010	341a010	X	ib			06-DEC-2004 16:14	1.0						
011	341a011	ICV	dsl			06-DEC-2004 16:43	1.0	1.0			3	8	
012	341a012	CCV	dsl			06-DEC-2004 17:13	1.0	1.0			3	9	
013	341a013	CCV	mo			06-DEC-2004 17:42	1.0	1.0			3	10	
014	341a014	SAMPLE	176268-029	97153	Water	06-DEC-2004 18:45	1.0	0.005			3		
015	341a015	SAMPLE	176363-015	S 97153	Water	06-DEC-2004 19:14	1.0	0.005			3		
016	341a016	SAMPLE	176363-012	S 97153	Water	06-DEC-2004 19:43	1.0	0.005			3		
017	341a017	SAMPLE	176363-009	S 97153	Water	06-DEC-2004 20:13	1.0	0.005			3		
018	341a018	SAMPLE	176363-006	S 97153	Water	06-DEC-2004 20:42	1.0	0.005			3		
019	341a019	SAMPLE	176363-003	S 97153	Water	06-DEC-2004 21:11	1.0	0.005			3		
020	341a020	SAMPLE	176268-012	97155	Soil	06-DEC-2004 21:41	1.0	0.1001			3		
021	341a021	SAMPLE	176268-009	97155	Soil	06-DEC-2004 22:10	1.0	0.09915			3		
022	341a022	SAMPLE	176268-015	97155	Soil	06-DEC-2004 22:40	1.0	0.0995			3		
023	341a023	SAMPLE	176341-001	97146	Soil	06-DEC-2004 23:09	50.0	0.1000			3	1:BUNKC:=5196.67	
024	341a024	CCV	dsl			06-DEC-2004 23:38	1.0	1.0			3	11	
025	341a025	CCV	mo			07-DEC-2004 00:07	1.0	1.0			3	12	
026	341a026	X	ccv			07-DEC-2004 00:37	1.0					11	
027	341a027	SAMPLE	176268-010	97155	Soil	07-DEC-2004 01:06	2.0	0.09992			3		
028	341a028	SAMPLE	176268-013	97155	Soil	07-DEC-2004 01:36	1.0	0.09917			3		
029	341a029	SAMPLE	176268-017	97155	Soil	07-DEC-2004 02:06	5.0	0.09976			3		
030	341a030	SAMPLE	176268-002	97146	Soil	07-DEC-2004 02:35	1.0	0.09911			3		
031	341a031	SAMPLE	176268-014	97155	Soil	07-DEC-2004 03:05	3.0	0.0994			3		

Stds used: 1=04WS1748 2=04WS1747 3=04WS1221 4=04WS1745 5=04WS1744 6=04WS1743 7=04WS1742 8=04WS2006 9=04WS2215 10=04WS2074 11=04WS2207 12=04WS2195 13=04WS2258

SEQUENCE SUMMARY FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 114491750 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 06-DEC-2004
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
032	341a032	SAMPLE	176402-001	97155	Soil	07-DEC-2004 03:35	5.0	0.1007	2	1	3	10:BUNKC:=37347.2	
033	341a033	SAMPLE	176268-001	97146	Soil	07-DEC-2004 04:04	2.0	0.1001			3		
034	341a034	SAMPLE	176402-002	97155	Soil	07-DEC-2004 04:34	10.0	0.1008			3	1:BUNKC:=15515.6	
035	341a035	SAMPLE	176268-011	97155	Soil	07-DEC-2004 05:03	20.0	0.1981			3		
036	341a036	SAMPLE	176268-016	97155	Soil	07-DEC-2004 05:33	1.0	0.09968			3		
037	341a037	CCV	dsl			07-DEC-2004 06:02	1.0	1.0			3	13	
038	341a038	CCV	mo			07-DEC-2004 06:32	1.0	1.0			3	12	
039	341a039	X	ccv			07-DEC-2004 07:01	1.0					13	

128

Stds used: 1=04WS1748 2=04WS1747 3=04WS1221 4=04WS1745 5=04WS1744 6=04WS1743 7=04WS1742 8=04WS2006 9=04WS2215 10=04WS2074 11=04WS2207 12=04WS2195 13=04WS2258

SEQUENCE SUMMARY FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 114506134 Instrument: GC11A
Analytical Method: EPA 8015B

Gas Chromatograph #11 (Channel A) TEH
SOP Version: TEH_rv12

Begun: 16-DEC-2004

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
001	351a001	X	ib			16-DEC-2004 11:34	1.0						
002	351a002	ICAL	hex5			16-DEC-2004 12:04	1.0	1.0				1	
003	351a003	ICAL	hex10			16-DEC-2004 12:33	1.0	1.0				2	
004	351a004	ICAL	hex25			16-DEC-2004 13:02	1.0	1.0				3	
005	351a005	ICAL	hex50			16-DEC-2004 13:31	1.0	1.0				4	
006	351a006	ICAL	hex75			16-DEC-2004 14:00	1.0	1.0				5	
007	351a007	X	ib			16-DEC-2004 15:12	1.0						
008	351a008	CCV	dsl			16-DEC-2004 15:41	1.0	1.0			3	6	
009	351a009	CCV	mo			16-DEC-2004 16:10	1.0	1.0			3	7	
010	351a010	SAMPLE	176613-016	97463	Soil	16-DEC-2004 16:44	1.0	0.0994			3		
011	351a011	SAMPLE	176613-014	97463	Soil	16-DEC-2004 17:13	1.0	0.1000			3		
012	351a012	SAMPLE	176613-011	97463	Soil	16-DEC-2004 17:42	1.0	0.09901			3		
013	351a013	SAMPLE	176613-010	97463	Soil	16-DEC-2004 18:12	1.0	0.09994			3		
014	351a014	SAMPLE	176613-008	97463	Soil	16-DEC-2004 18:41	1.0	0.09917			3		
015	351a015	SAMPLE	176613-006	97463	Soil	16-DEC-2004 19:10	1.0	0.09992			3		
016	351a016	SAMPLE	176613-004	97463	Soil	16-DEC-2004 19:39	1.0	0.09944			3		
017	351a017	SAMPLE	176613-003	97463	Soil	16-DEC-2004 20:08	1.0	0.09932			3		
018	351a018	SAMPLE	176613-001	97463	Soil	16-DEC-2004 20:38	1.0	0.09998			3		
019	351a019	LCS	QC276443 S	97521	Soil	16-DEC-2004 21:07	1.0	0.1002			3		
020	351a020	CCV	dsl			16-DEC-2004 21:36	1.0	1.0			3	8	
021	351a021	CCV	mo			16-DEC-2004 22:06	1.0	1.0			3	7	
022	351a022	X	ccv			16-DEC-2004 22:35	1.0					8	

Stds used: 1=04WS2042 2=04WS2043 3=04WS2044 4=04WS2045 5=04WS2046 6=04WS2215 7=04WS2365 8=04WS2207

SEQUENCE SUMMARY FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 165006306 Instrument: GC15B
Analytical Method: EPA 8015B

Gas Chromatograph #15 (Channel B) TEH
SOP Version: TEH_rv12

Begun: 04-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds	Used	>LR
001	004b001	X	primer			04-JAN-2005 09:06	1.0								
002	004b002	X	ib			04-JAN-2005 09:34	1.0								
003	004b003	X	paint f.p.			04-JAN-2005 10:29	1.0								
004	004b004	X	ib			04-JAN-2005 10:58	1.0								
005	004b005	ICAL	hex5			04-JAN-2005 12:08	1.0						1		
006	004b006	ICAL	hex10			04-JAN-2005 12:37	1.0						2		
007	004b007	ICAL	hex25			04-JAN-2005 13:06	1.0						3		
008	004b008	ICAL	hex50			04-JAN-2005 13:34	1.0						4		
009	004b009	ICAL	hex75			04-JAN-2005 14:03	1.0						5		
010	004b010	X	ib			04-JAN-2005 14:32	1.0								
011	004b011	CCV	dsl			04-JAN-2005 15:01	1.0			3			6		
012	004b012	CCV	mo			04-JAN-2005 15:29	1.0	1		3			7		

130

Stds used: 1=04WS2042 2=04WS2043 3=04WS2044 4=04WS2045 5=04WS2046 6=04WS2406 7=04WS2365

SEQUENCE SUMMARY FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 175006590 Instrument: GC17A
Analytical Method: EPA 8015B

Gas Chromatograph #17 (Channel A) TEH
SOP Version: TEH_rv12

Begun: 04-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK	uL	VL	pH	Stds	Used	>LR
001	004a001	X	C-50			04-JAN-2005 13:50	1.0								
002	004a002	X				04-JAN-2005 14:20	1.0								
003	004a003	X	C12 - C60			04-JAN-2005 14:51	1.0								
004	004a004	X	C12 - C60			04-JAN-2005 15:40	1.0								
005	004a005	ICAL	hex75			04-JAN-2005 16:41	1.0						1		
006	004a006	X	ib			04-JAN-2005 19:23	1.0								
007	004a007	ICAL	dsl110			04-JAN-2005 19:51	1.0						2		
008	004a008	ICAL	dsl1100			04-JAN-2005 20:20	1.0						3		
009	004a009	ICAL	dsl250			04-JAN-2005 20:48	1.0						4		
010	004a010	ICAL	dsl			04-JAN-2005 21:17	1.0						5		
011	004a011	ICAL	dsl11000			04-JAN-2005 21:45	1.0						6		
012	004a012	ICAL	dsl2500			04-JAN-2005 22:14	1.0						7		
013	004a013	ICAL	dsl5000			04-JAN-2005 22:42	1.0						8		
014	004a014	X	ib			04-JAN-2005 23:11	1.0								
015	004a015	ICAL	mo50			04-JAN-2005 23:39	1.0						9		
016	004a016	ICAL	mo250			05-JAN-2005 00:07	1.0						10		
017	004a017	ICAL	mo500			05-JAN-2005 00:36	1.0						11		
018	004a018	ICAL	mo1000			05-JAN-2005 01:04	1.0						12		
019	004a019	ICAL	mo2500			05-JAN-2005 01:32	1.0						13		
020	004a020	ICAL	mo5000			05-JAN-2005 02:00	1.0						14		
021	004a021	X	ib			05-JAN-2005 02:29	1.0								
022	004a022	ICAL	hex5			05-JAN-2005 02:57	1.0						15		
023	004a023	ICAL	hex10			05-JAN-2005 03:25	1.0						16		
024	004a024	ICAL	hex25			05-JAN-2005 03:53	1.0						17		
025	004a025	ICAL	hex50			05-JAN-2005 04:22	1.0						18		
026	004a026	ICAL	hex75			05-JAN-2005 04:50	1.0						1		
027	004a027	X	ib			05-JAN-2005 05:18	1.0								
028	004a028	ICV	icv			05-JAN-2005 05:46	1.0			3			19		
029	004a029	X	ib			05-JAN-2005 06:15	1.0								
030	004a030	CCV	dsl			05-JAN-2005 06:43	1.0			3			20		

Stds used: 1=04WS2046 2=04WS2298 3=04WS2299 4=04WS2300 5=05WS0019 6=04WS2302 7=04WS2303 8=04WS2297 9=04WS2172 10=04WS2173 11=04WS2174 12=04WS2175 13=04WS2176 14=04WS2169
15=04WS2042 16=04WS2043 17=04WS2044 18=04WS2045 19=04WS2006 20=04WS2358 21=04WS2365

SEQUENCE SUMMARY FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 175006590 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 04-JAN-2005
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds Used	>LR
031	004a031	CCV	mo		05-JAN-2005 07:11	1.0			3			21	

132

Stds used: 1=04WS2046 2=04WS2298 3=04WS2299 4=04WS2300 5=05WS0019 6=04WS2302 7=04WS2303 8=04WS2297 9=04WS2172 10=04WS2173 11=04WS2174 12=04WS2175 13=04WS2176 14=04WS2169
15=04WS2042 16=04WS2043 17=04WS2044 18=04WS2045 19=04WS2006 20=04WS2358 21=04WS2365

SEQUENCE SUMMARY FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 165007836 Instrument: GC15B
Analytical Method: EPA 8015B

Gas Chromatograph #15 (Channel B) TEH
SOP Version: TEH_rv12

Begun: 05-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK	uL	VL	pH	Stds	Used	>LR
003	005b003	CCV	dsl			05-JAN-2005 10:08	1.0	4		3			1		
004	005b004	CCV	mo			05-JAN-2005 10:36	1.0	1		3			2		
005	005b005	X	tank check #			05-JAN-2005 15:21	1.0								
006	005b006	X	tank check 2			05-JAN-2005 15:50	1.0								
007	005b007	X	ib			05-JAN-2005 16:27	1.0								
008	005b008	ICAL	dsl110			05-JAN-2005 16:55	1.0						3		
009	005b009	ICAL	dsl1100			05-JAN-2005 17:24	1.0						4		
010	005b010	ICAL	dsl250			05-JAN-2005 17:53	1.0						5		
011	005b011	ICAL	dsl500			05-JAN-2005 18:22	1.0						6		
012	005b012	ICAL	dsl11000			05-JAN-2005 18:51	1.0						7		
013	005b013	ICAL	dsl2500			05-JAN-2005 19:19	1.0						8		
014	005b014	ICAL	dsl5000			05-JAN-2005 19:48	1.0						9		
015	005b015	X	ib			05-JAN-2005 20:17	1.0								
016	005b016	ICAL	mo50			05-JAN-2005 20:46	1.0						10		
017	005b017	ICAL	mo250			05-JAN-2005 21:14	1.0						11		
018	005b018	ICAL	mo500			05-JAN-2005 21:43	1.0						12		
019	005b019	ICAL	mo1000			05-JAN-2005 22:12	1.0						13		
020	005b020	ICAL	mo2500			05-JAN-2005 22:41	1.0						14		
021	005b021	ICAL	mo5000			05-JAN-2005 23:10	1.0						15		
022	005b022	X	ib			05-JAN-2005 23:39	1.0								
023	005b023	ICV	dsl			06-JAN-2005 00:08	1.0			3			16		
024	005b024	X	ib			06-JAN-2005 00:36	1.0								
025	005b025	CCV	dsl			06-JAN-2005 01:05	1.0			3			1		
026	005b026	CCV	mo			06-JAN-2005 01:34	1.0			3			2		

Stds used: 1=04WS2358 2=04WS2365 3=04WS2298 4=04WS2299 5=04WS2300 6=05WS0019 7=04WS2302 8=04WS2303 9=04WS2297 10=04WS2172 11=04WS2173 12=04WS2174 13=04WS2175 14=04WS2176
15=04WS2169 16=04WS2006

SEQUENCE SUMMARY FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 115010745 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 07-JAN-2005
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
001	007a001	X	primer			07-JAN-2005 11:05	1.0						
002	007a002	X	ib			07-JAN-2005 11:34	1.0						
003	007a003	CCV	dsl			07-JAN-2005 12:03	1.0	1.0			3	1	
004	007a004	CCV	mo			07-JAN-2005 12:32	1.0	1.0			3	2	
005	007a005	SAMPLE	176970-001	98056	Water	07-JAN-2005 13:12	2.0	0.005			3	3:BUNKC:=16799.0	
006	007a006	SAMPLE	176952-013	S 98039	Soil	07-JAN-2005 13:41	1.0	0.1005			3		
007	007a007	SAMPLE	176952-009	S 98039	Soil	07-JAN-2005 14:11	1.0	0.09934			3		
008	007a008	SAMPLE	176952-008	S 98039	Soil	07-JAN-2005 14:40	2.0	0.1006	1		3	5:BUNKC:=22922.0	
009	007a009	SAMPLE	176952-011	S 98039	Soil	07-JAN-2005 15:09	1.0	0.0995			3		
010	007a010	SAMPLE	176952-012	S 98039	Soil	07-JAN-2005 15:38	1.0	0.09978			3		
011	007a011	SAMPLE	176952-014	S 98039	Soil	07-JAN-2005 16:08	1.0	0.09952			3		
012	007a012	SAMPLE	176952-016	S 98039	Soil	07-JAN-2005 16:37	1.0	0.1004			3		
013	007a013	SAMPLE	176952-017	S 98039	Soil	07-JAN-2005 17:07	1.0	0.1007			3		
014	007a014	MS	QC278447	S 98039	Soil	07-JAN-2005 17:36	1.0	0.1005			3	5:BUNKC:=20753.0	
015	007a015	X	ib			07-JAN-2005 18:05	1.0						
016	007a016	CCV	dsl			07-JAN-2005 18:35	1.0	1.0			3	3	
017	007a017	CCV	mo			07-JAN-2005 19:04	1.0	1.0			3	2	
018	007a018	SAMPLE	176984-015	98086	Soil	07-JAN-2005 19:33	1.0	0.0997			3	1:BUNKC:=5322.12	
019	007a019	SAMPLE	176984-023	98086	Soil	07-JAN-2005 20:03	1.0	0.1000	1	1	3	7:BUNKC:=57541.7	
020	007a020	SAMPLE	176984-020	98086	Soil	07-JAN-2005 20:32	1.0	0.1002			3		
021	007a021	SAMPLE	176984-014	98086	Soil	07-JAN-2005 21:01	1.0	0.1004			3		
022	007a022	SAMPLE	176984-018	98086	Soil	07-JAN-2005 21:31	1.0	0.0993			3		
023	007a023	SAMPLE	176984-017	98086	Soil	07-JAN-2005 22:00	1.0	0.1001	1	1	3	5:BUNKC:=26837.6	
024	007a024	SAMPLE	176984-011	98086	Soil	07-JAN-2005 22:29	1.0	0.0998			3		
025	007a025	MSS	176984-007	98086	Soil	07-JAN-2005 22:58	3.0	0.09952	7		3	1:BUNKC:=9589.57	
026	007a026	SAMPLE	176984-021	98086	Soil	07-JAN-2005 23:27	1.0	0.09917			3		
027	007a027	SAMPLE	176984-012	98086	Soil	07-JAN-2005 23:57	2.0	0.1001			3		
028	007a028	X	ib			08-JAN-2005 00:26	1.0						
029	007a029	CCV	dsl			08-JAN-2005 00:55	1.0	1.0			3	4	
030	007a030	CCV	mo			08-JAN-2005 01:25	1.0	1.0			3	5	
031	007a031	X	ccv			08-JAN-2005 01:54	1.0					4	

Stds used: 1=04WS2358 2=04WS2365 3=04WS2406 4=04WS2258 5=05WS0066

SEQUENCE SUMMARY FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 165011008 Instrument: GC15B
Analytical Method: EPA 8015B

Gas Chromatograph #15 (Channel B) TEH
SOP Version: TEH_rv12

Begun: 07-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
001	007b001	X	primer			07-JAN-2005 15:28	1.0						
002	007b002	X	ib			07-JAN-2005 15:57	1.0						
003	007b003	CCV	dsl			07-JAN-2005 16:26	1.0	1.0			3	1	
004	007b004	CCV	mo			07-JAN-2005 16:55	1.0	1.0			3	2	
005	007b005	X	tchk 1-7-05			07-JAN-2005 17:24	1.0						
006	007b006	SAMPLE	176952-010	S 98039	Soil	07-JAN-2005 18:17	1.0	0.1007			3		
007	007b007	SAMPLE	176984-002	98090	Soil	07-JAN-2005 18:46	1.0	0.1004	1	1	3	7:DSL:12=14099.7	
008	007b008	SAMPLE	176984-005	98090	Soil	07-JAN-2005 19:15	1.0	0.1002	1		3	6:DSL:12=7745.03	
009	007b009	X	176983-001	98090	Soil	07-JAN-2005 19:44	1.0	0.09962			3	10:DSL:12=17386.8	
010	007b010	SAMPLE	176961-013	98054	Soil	07-JAN-2005 20:13	1.0	0.09919			3		
011	007b011	SAMPLE	176961-010	98054	Soil	07-JAN-2005 20:42	1.0	0.09954			3		
012	007b012	MS	QC278650	98090	Soil	07-JAN-2005 21:11	1.0	0.1005		1	3	10:DSL:12=16694.0	
013	007b013	MSD	QC278651	98090	Soil	07-JAN-2005 21:40	1.0	0.09966		1	3	10:DSL:12=17501.7	
014	007b014	MS	QC278493	S 98054	Soil	07-JAN-2005 22:09	1.0	0.09984			3		
015	007b015	MSD	QC278494	S 98054	Soil	07-JAN-2005 22:37	1.0	0.09948			3		
016	007b016	CCV	dsl			07-JAN-2005 23:06	1.0	1.0			3	3	
017	007b017	CCV	mo			07-JAN-2005 23:35	1.0	1.0			3	2	
018	007b018	X	ccv			08-JAN-2005 00:04	1.0					3	
019	007b019	SAMPLE	176961-012	98054	Soil	08-JAN-2005 00:33	1.0	0.09956		1	3		
020	007b020	MSS	176952-006	S 98054	Soil	08-JAN-2005 01:01	1.0	0.09923	8		3		
021	007b021	SAMPLE	176952-001	S 98039	Soil	08-JAN-2005 01:30	1.0	0.1006			3		
022	007b022	X	ib			08-JAN-2005 01:59	1.0						
023	007b023	SAMPLE	176952-021	S 98039	Soil	08-JAN-2005 02:28	1.0	0.1007			3		
024	007b024	SAMPLE	176961-001	98054	Soil	08-JAN-2005 02:57	1.0	0.09956	1		3	4:DSL:12=7426.25	
025	007b025	SAMPLE	176984-026	98090	Soil	08-JAN-2005 03:26	1.0	0.1002		1	3		
026	007b026	X	ib			08-JAN-2005 03:55	1.0						
027	007b027	SAMPLE	176961-007	98054	Soil	08-JAN-2005 04:24	1.0	0.09929			3		
028	007b028	SAMPLE	176984-029	98090	Soil	08-JAN-2005 04:53	1.0	0.0996			3		
029	007b029	SAMPLE	176984-008	98090	Soil	08-JAN-2005 05:22	1.0	0.09936			3	3:DSL:12=6782.70	
030	007b030	SAMPLE	176984-009	98090	Soil	08-JAN-2005 05:51	1.0	0.09998			3		
031	007b031	X	ib			08-JAN-2005 06:20	1.0						

Stds used: 1=04WS2358 2=05WS0066 3=04WS2406 4=05WS0021

SEQUENCE SUMMARY FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 165011008 Instrument: GC15B
Analytical Method: EPA 8015B

Gas Chromatograph #15 (Channel B) TEH
SOP Version: TEH_rv12

Begun: 07-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
032	007b032	CCV	dsl			08-JAN-2005 06:49	1.0	1.0			3	4	
033	007b033	CCV	mo			08-JAN-2005 07:18	1.0	1.0			3	2	
034	007b034	X	ccv			08-JAN-2005 07:47	1.0					4	
035	007b035	SAMPLE	176984-031	98090	Soil	08-JAN-2005 08:16	1.0	0.1003	2	1	3	11:DSL:12=19344.3	
036	007b036	SAMPLE	176961-002	98054	Soil	08-JAN-2005 08:45	1.0	0.09944			3		
037	007b037	SAMPLE	176961-014	98054	Soil	08-JAN-2005 09:14	1.0	0.1002			3		
038	007b038	X	ib			08-JAN-2005 09:43	1.0						
039	007b039	SAMPLE	176953-014	98086	Soil	08-JAN-2005 10:12	3.0	0.09992			3		
040	007b040	SAMPLE	176953-020	98086	Soil	08-JAN-2005 10:41	3.0	0.0997			3		
041	007b041	SAMPLE	176953-013	98086	Soil	08-JAN-2005 11:10	100.0	0.2000			3		
042	007b042	X	ib			08-JAN-2005 11:39	1.0						
043	007b043	SAMPLE	176953-012	98053	Soil	08-JAN-2005 12:08	1.0	0.09998			3		
044	007b044	SAMPLE	176953-006	98053	Soil	08-JAN-2005 12:37	1.0	0.09934			3		
045	007b045	SAMPLE	176953-021	98086	Soil	08-JAN-2005 13:06	100.0	0.2006			3		
046	007b046	SAMPLE	176971-001	98054	Miscel	08-JAN-2005 13:35	1.0	0.1004		1	3		
047	007b047	X	ib			08-JAN-2005 14:04	1.0						
048	007b048	CCV	dsl			08-JAN-2005 14:33	1.0	1.0			3	1	
049	007b049	CCV	mo			08-JAN-2005 15:02	1.0	1.0			3	2	
050	007b050	X	ccv			08-JAN-2005 15:31	1.0					1	
051	007b051	SAMPLE	176984-001	98090	Soil	08-JAN-2005 16:00	1.0	0.1003			3		
052	007b052	SAMPLE	176952-018 S	98039	Soil	08-JAN-2005 16:29	1.0	0.09962			3		
053	007b053	X	ib			08-JAN-2005 16:58	1.0						
054	007b054	SAMPLE	176989-001	98086	Soil	08-JAN-2005 17:27	2.0	0.1002			3		
055	007b055	MSS	176952-019 S	98039	Soil	08-JAN-2005 17:56	1.0	0.09996	8		3		
056	007b056	X	ib			08-JAN-2005 18:25	1.0						
057	007b057	X	ib			08-JAN-2005 18:54	1.0						
058	007b058	CCV	dsl			08-JAN-2005 19:23	1.0	1.0			3	3	
059	007b059	CCV	mo			08-JAN-2005 19:52	1.0	1.0			3	2	
060	007b060	X	ccv			08-JAN-2005 20:21	1.0					3	
061	007b061	BLANK	QC278303	98004	Water	08-JAN-2005 20:50	1.0	0.005	8		3		
062	007b062	MDL	175695-001	98004	Water	08-JAN-2005 21:19	1.0	0.005			3		

Stds used: 1=04WS2358 2=05WS0066 3=04WS2406 4=05WS0021

SEQUENCE SUMMARY FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 165011008 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 07-JAN-2005
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
063	007b063	MDL	175695-002	98004	Water	08-JAN-2005 21:48	1.0	0.005			3		
064	007b064	MDL	175695-003	98004	Water	08-JAN-2005 22:17	1.0	0.005			3		
065	007b065	MDL	175695-004	98004	Water	08-JAN-2005 22:46	1.0	0.005			3		
066	007b066	MDL	175695-005	98004	Water	08-JAN-2005 23:15	1.0	0.005			3		
067	007b067	MDL	175695-006	98004	Water	08-JAN-2005 23:44	1.0	0.005			3		
068	007b068	MDL	175695-007	98004	Water	09-JAN-2005 00:13	1.0	0.005			3		
069	007b069	MDL	175695-008	98004	Water	09-JAN-2005 00:42	1.0	0.005			3		
070	007b070	CCV	dsl			09-JAN-2005 01:11	1.0	1.0			3	4	
071	007b071	X	ccv			09-JAN-2005 01:40	1.0					4	

137

Stds used: 1=04WS2358 2=05WS0066 3=04WS2406 4=05WS0021

SEQUENCE SUMMARY FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 175010762 Instrument: GC17A
Analytical Method: EPA 8015B

Gas Chromatograph #17 (Channel A) TEH
SOP Version: TEH_rv12

Begun: 07-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
001	007a001	X	primer			07-JAN-2005 11:22	1.0						
002	007a002	X	ib			07-JAN-2005 11:50	1.0						
003	007a003	CCV	dsl			07-JAN-2005 12:19	1.0	1.0			3	1	
004	007a004	CCV	mo			07-JAN-2005 12:48	1.0	1.0			3	2	
005	007a005	X	ccv			07-JAN-2005 14:54	1.0	1.0			3	3	
006	007a006	LCS	QC278625	98086	Soil	07-JAN-2005 17:15	1.0	0.1004			3		
007	007a007	BLANK	QC278624	98086	Soil	07-JAN-2005 17:44	1.0	0.09966	9		3		
008	007a008	BLANK	QC278648	98090	Soil	07-JAN-2005 18:12	1.0	0.0998	9		3		
009	007a009	LCS	QC278649	98090	Soil	07-JAN-2005 18:41	1.0	0.1002			3		
010	007a010	BLANK	QC278491 S	98054	Soil	07-JAN-2005 19:10	1.0	0.09988	9	1	3		
011	007a011	LCS	QC278492 S	98054	Soil	07-JAN-2005 19:38	1.0	0.1001			3		
012	007a012	SAMPLE	176898-002 S	98054	Soil	07-JAN-2005 20:07	1.0	0.1003	1		3		
013	007a013	SAMPLE	176898-003 S	98054	Soil	07-JAN-2005 20:35	1.0	0.1001	1		3		
014	007a014	SAMPLE	176898-004 S	98054	Soil	07-JAN-2005 21:04	1.0	0.1005	1		3		
015	007a015	SAMPLE	176952-008 S	98039	Soil	07-JAN-2005 21:32	3.0	0.1006	1		3	1:BUNKC:=8994.82	
016	007a016	CCV	dsl			07-JAN-2005 22:01	1.0	1.0			3	4	
017	007a017	CCV	mo			07-JAN-2005 22:29	1.0	1.0			3	3	
018	007a018	X	ccv			07-JAN-2005 22:58	1.0					4	
019	007a019	SAMPLE	176953-016	98086	Soil	07-JAN-2005 23:26	1.0	0.09952	1		3		
020	007a020	SAMPLE	176983-002	98090	Soil	07-JAN-2005 23:55	1.0	0.0998	1		3		
021	007a021	SAMPLE	176961-016	98054	Soil	08-JAN-2005 00:23	1.0	0.09994	2		3	8:BUNKC:=20942.3	
022	007a022	SAMPLE	176961-004	98054	Soil	08-JAN-2005 00:52	1.0	0.1006	1		3		
023	007a023	SAMPLE	176961-006	98054	Soil	08-JAN-2005 01:21	1.0	0.09929		1	3		
024	007a024	SAMPLE	176984-027	98090	Soil	08-JAN-2005 01:49	1.0	0.1003	2	1	3	8:BUNKC:=32540.4	
025	007a025	SAMPLE	176984-032	98090	Soil	08-JAN-2005 02:18	1.0	0.1001	2		3	12:BUNKC:=38026.3	
026	007a026	SAMPLE	176953-015	98086	Soil	08-JAN-2005 02:46	1.0	0.1002	1		3		
027	007a027	SAMPLE	176953-018	98086	Soil	08-JAN-2005 03:15	50.0	0.1006	1		3		
028	007a028	SAMPLE	176984-004	98090	Soil	08-JAN-2005 03:44	1.0	0.1003	2		3	8:BUNKC:=25165.0	
029	007a029	CCV	dsl			08-JAN-2005 04:12	1.0	1.0			3	5	
030	007a030	CCV	mo			08-JAN-2005 04:41	1.0	1.0	1		3	3	
031	007a031	X	ccv			08-JAN-2005 05:10	1.0					5	

Stds used: 1=04WS2358 2=04WS2365 3=05WS0066 4=04WS2406 5=04WS2258

SEQUENCE SUMMARY FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 175010762 Instrument: GC17A
Analytical Method: EPA 8015B

Gas Chromatograph #17 (Channel A) TEH
SOP Version: TEH_rv12

Begun: 07-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
032	007a032	SAMPLE	176984-034	98090	Soil	08-JAN-2005 05:38	1.0	0.1002	1		3		
033	007a033	SAMPLE	176984-033	98090	Soil	08-JAN-2005 06:07	1.0	0.09932	1		3		
034	007a034	SAMPLE	176956-001	98054	Soil	08-JAN-2005 06:36	1.0	0.09948	1		3		
035	007a035	SAMPLE	176961-009	98054	Soil	08-JAN-2005 07:04	1.0	0.1001	1		3		
036	007a036	SAMPLE	176953-017	98086	Soil	08-JAN-2005 07:33	50.0	0.09905	1		3		
037	007a037	SAMPLE	176953-019	98086	Soil	08-JAN-2005 08:01	50.0	0.2007	1		3		
038	007a038	SAMPLE	176984-024	98090	Soil	08-JAN-2005 08:30	1.0	0.09996	2		3		9:BUNKC:=31024.1
039	007a039	MS	QC278626	98086	Soil	08-JAN-2005 08:58	1.0	0.1001			3		5:BUNKC:=17654.2
040	007a040	MSD	QC278627	98086	Soil	08-JAN-2005 09:27	1.0	0.1005			3		5:BUNKC:=18537.1
041	007a041	X	ib			08-JAN-2005 09:55	1.0						
042	007a042	CCV	dsl			08-JAN-2005 10:24	1.0	1.0			3		1
043	007a043	CCV	mo			08-JAN-2005 10:53	1.0	1.0	2		3		3
044	007a044	X	ccv			08-JAN-2005 11:21	1.0						1

139

Stds used: 1=04WS2358 2=04WS2365 3=05WS0066 4=04WS2406 5=04WS2258

SEQUENCE SUMMARY FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 165014967 Instrument: GC15B
Analytical Method: EPA 8015B

Gas Chromatograph #15 (Channel B) TEH
SOP Version: TEH_rv12

Begun: 10-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
001	010b001	X	primer			10-JAN-2005 09:27	1.0						
002	010b002	X	ib			10-JAN-2005 09:56	1.0						
003	010b003	CCV	dsl			10-JAN-2005 10:25	1.0	1.0			3	1	
004	010b004	CCV	mo			10-JAN-2005 10:54	1.0	1.0			3	2	
005	010b005	BLANK	QC278624	98086	Soil	10-JAN-2005 15:22	1.0	0.09966	8		3		
006	010b006	BLANK	QC278491 S	98054	Soil	10-JAN-2005 15:51	1.0	0.09988	8		3		
007	010b007	BLANK	QC278648	98090	Soil	10-JAN-2005 16:20	1.0	0.0998	8		3		
008	010b008	SAMPLE	176984-023	98086	Soil	10-JAN-2005 16:49	20.0	0.1000			3		
009	010b009	SAMPLE	176961-006	98054	Soil	10-JAN-2005 17:18	50.0	0.09929			3		
010	010b010	SAMPLE	176898-004 S	98054	Soil	10-JAN-2005 17:47	1.0	0.1005			3		
011	010b011	SAMPLE	176898-003 S	98054	Soil	10-JAN-2005 18:16	1.0	0.1001			3		
012	010b012	SAMPLE	176898-002 S	98054	Soil	10-JAN-2005 18:45	1.0	0.1003			3		
013	010b013	SAMPLE	176984-026	98090	Soil	10-JAN-2005 19:14	100.0	0.1002			3		
014	010b014	SAMPLE	176984-024	98090	Soil	10-JAN-2005 19:43	10.0	0.09996			3		
015	010b015	CCV	dsl			10-JAN-2005 20:12	1.0	1.0			3	3	
016	010b016	CCV	mo			10-JAN-2005 20:41	1.0	1.0			3	2	
017	010b017	X	ccv			10-JAN-2005 21:10	1.0					3	
018	010b018	SAMPLE	176971-001	98054	Miscel	10-JAN-2005 21:39	50.0	0.1004			3		
019	010b019	SAMPLE	176953-016	98086	Soil	10-JAN-2005 22:08	1.0	0.09952			3		
020	010b020	SAMPLE	176961-012	98054	Soil	10-JAN-2005 22:37	50.0	0.09956			3		
021	010b021	SAMPLE	176952-008 S	98039	Soil	10-JAN-2005 23:06	3.0	0.1006			3		
022	010b022	SAMPLE	176983-002	98090	Soil	10-JAN-2005 23:36	1.0	0.0998			3		
023	010b023	MSS	176983-001	98090	Soil	11-JAN-2005 00:05	20.0	0.09962	8		3		
024	010b024	SAMPLE	176984-032	98090	Soil	11-JAN-2005 00:33	5.0	0.1001			3		
025	010b025	SAMPLE	176984-031	98090	Soil	11-JAN-2005 01:02	50.0	0.1003			3		
026	010b026	SAMPLE	176961-004	98054	Soil	11-JAN-2005 01:31	1.0	0.1006			3		
027	010b027	SAMPLE	176984-034	98090	Soil	11-JAN-2005 02:00	1.0	0.1002			3		
028	010b028	CCV	dsl			11-JAN-2005 02:29	1.0	1.0			3	4	
029	010b029	CCV	mo			11-JAN-2005 02:58	1.0	1.0			3	2	
030	010b030	X	ccv			11-JAN-2005 03:27	1.0					4	
031	010b031	SAMPLE	176953-015	98086	Soil	11-JAN-2005 03:56	1.0	0.1002			3		

Stds used: 1=04WS2358 2=05WS0066 3=04WS2406 4=05WS0021

SEQUENCE SUMMARY FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 165014967 Instrument: GC15B Gas Chromatograph #15 (Channel B) TEH Begun: 10-JAN-2005
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	010b032	SAMPLE	176984-004	98090	Soil	11-JAN-2005 04:25	3.0	0.1003			3		
033	010b033	SAMPLE	176984-027	98090	Soil	11-JAN-2005 04:54	3.0	0.1003			3	3:DSL:12=6831.85	
034	010b034	SAMPLE	176984-033	98090	Soil	11-JAN-2005 05:23	1.0	0.09932			3		
035	010b035	SAMPLE	176984-002	98090	Soil	11-JAN-2005 05:52	5.0	0.1004	1		3	7:DSL:12=9744.58	
036	010b036	SAMPLE	176961-009	98054	Soil	11-JAN-2005 06:21	1.0	0.1001			3		
037	010b037	SAMPLE	176984-005	98090	Soil	11-JAN-2005 06:50	2.0	0.1002			3		
038	010b038	SAMPLE	176953-017	98086	Soil	11-JAN-2005 07:20	50.0	0.09905			3		
039	010b039	SAMPLE	176984-017	98086	Soil	11-JAN-2005 07:49	2.0	0.1001		1	3		
040	010b040	SAMPLE	176953-018	98086	Soil	11-JAN-2005 08:18	50.0	0.1006			3		
041	010b041	CCV	dsl			11-JAN-2005 08:47	1.0	1.0			3	1	
042	010b042	CCV	mo			11-JAN-2005 09:16	1.0	1.0			3	2	

141

Stds used: 1=04WS2358 2=05WS0066 3=04WS2406 4=05WS0021

SEQUENCE SUMMARY FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 175014967 Instrument: GC17A Gas Chromatograph #17 (Channel A) TEH Begun: 10-JAN-2005
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
001	010a001	X	primer			10-JAN-2005 09:27	1.0						
002	010a002	X	ib			10-JAN-2005 09:55	1.0						
003	010a003	CCV	dsl			10-JAN-2005 10:24	1.0	1.0			3	1	
004	010a004	CCV	mo			10-JAN-2005 10:52	1.0	1.0	3		3	2	
005	010a005	X	ib			10-JAN-2005 18:59	1.0						
006	010a006	BS	QC278816 S	98143	Water	10-JAN-2005 19:28	1.0	0.005			3		
007	010a007	BSD	QC278817 S	98143	Water	10-JAN-2005 19:57	1.0	0.005			3		
008	010a008	SAMPLE	176909-001	98143	Water	10-JAN-2005 20:25	1.0	0.005			3		
009	010a009	SAMPLE	177045-001	98143	Water	10-JAN-2005 20:54	1.0	0.005			3		
010	010a010	SAMPLE	177045-002	98143	Water	10-JAN-2005 21:22	1.0	0.005			3		
011	010a011	SAMPLE	177046-001	98143	Water	10-JAN-2005 21:51	1.0	0.005			3		
012	010a012	SAMPLE	177046-002	98143	Water	10-JAN-2005 22:20	1.0	0.005			3		
013	010a013	SAMPLE	177045-003 S	98143	Water	10-JAN-2005 22:48	1.0	0.005			3		
014	010a014	SAMPLE	177008-001 S	98143	Water	10-JAN-2005 23:17	1.0	0.005			3		
015	010a015	SAMPLE	176998-001 S	98143	Water	10-JAN-2005 23:45	1.0	0.005			3		
016	010a016	CCV	dsl			11-JAN-2005 00:14	1.0	1.0			3	3	
017	010a017	X	ccv			11-JAN-2005 00:43	1.0					3	
018	010a018	SAMPLE	177009-001	98143	Water	11-JAN-2005 01:11	1.0	0.005			3		
019	010a019	SAMPLE	177009-003	98143	Water	11-JAN-2005 01:40	1.0	0.005			3		
020	010a020	CCV	dsl			11-JAN-2005 02:08	1.0	1.0			3	4	
021	010a021	X	ccv			11-JAN-2005 02:37	1.0					4	
022	010a022	X	ib			11-JAN-2005 03:06	1.0						
023	010a023	ICAL	m050			11-JAN-2005 03:34	1.0	1.0				5	
024	010a024	ICAL	mo250			11-JAN-2005 04:03	1.0	1.0				6	
025	010a025	ICAL	mo500			11-JAN-2005 04:31	1.0	1.0				7	
026	010a026	ICAL	mo1000			11-JAN-2005 05:00	1.0	1.0				8	
027	010a027	ICAL	mo2500			11-JAN-2005 05:28	1.0	1.0				9	
028	010a028	ICAL	mo5000			11-JAN-2005 05:57	1.0	1.0				10	
029	010a029	X	ib			11-JAN-2005 06:25	1.0						
030	010a030	CCV	mo			11-JAN-2005 06:54	1.0	1.0			3	2	

Stds used: 1=04WS2358 2=05WS0066 3=04WS2406 4=05WS0021 5=04WS2172 6=04WS2173 7=04WS2174 8=04WS2175 9=04WS2176 10=04WS2169

SEQUENCE SUMMARY FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 115016427 Instrument: GC11A
Analytical Method: EPA 8015B

Gas Chromatograph #11 (Channel A) TEH
SOP Version: TEH_rv12

Begun: 11-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
001	011a001	X	primer			11-JAN-2005 09:47	1.0						
002	011a002	X	ib			11-JAN-2005 10:16	1.0						
003	011a003	CCV	dsl			11-JAN-2005 10:45	1.0	1.0			3	1	
004	011a004	CCV	mo			11-JAN-2005 11:14	1.0	1.0			3	2	
005	011a005	CCV	jet			11-JAN-2005 13:52	1.0	1.0			3	3	
006	011a006	SAMPLE	177029-007	98143	Water	11-JAN-2005 14:22	1.0	0.005	1		3	1:HXCS=81.6117	
007	011a007	CCV	jet			11-JAN-2005 14:51	1.0	1.0			3	3	
008	011a008	MS	QC278947	98181	Soil	11-JAN-2005 15:20	1.0	0.09992			3		
009	011a009	MSD	QC278948	98181	Soil	11-JAN-2005 15:50	1.0	0.09958			3		
010	011a010	SAMPLE	176961-003	98181	Soil	11-JAN-2005 16:19	1.0	0.1008			3		
011	011a011	SAMPLE	176961-005	98181	Soil	11-JAN-2005 16:49	1.0	0.1004			3		
012	011a012	SAMPLE	176961-008	98181	Soil	11-JAN-2005 17:18	1.0	0.1001			3		
013	011a013	SAMPLE	176961-015	98181	Soil	11-JAN-2005 17:48	1.0	0.1008			3		
014	011a014	SAMPLE	176984-003	98181	Soil	11-JAN-2005 18:17	1.0	0.1002			3	1:BUNKC:=5423.54	
015	011a015	SAMPLE	176984-013	98181	Soil	11-JAN-2005 18:47	1.0	0.09992			3		
016	011a016	MSS	176984-010	98181	Soil	11-JAN-2005 19:16	1.0	0.09964	6		3		
017	011a017	CCV	dsl			11-JAN-2005 19:46	1.0	1.0			3	4	
018	011a018	CCV	mo			11-JAN-2005 20:15	1.0	1.0			3	2	
019	011a019	X	ccv			11-JAN-2005 20:45	1.0					4	

Stds used: 1=04WS2358 2=05WS0066 3=04WS2272 4=04WS2406

SEQUENCE SUMMARY FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 175016397 Instrument: GC17A
Analytical Method: EPA 8015B

Gas Chromatograph #17 (Channel A) TEH
SOP Version: TEH_rv12

Begun: 11-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
001	011a001	X	primer			11-JAN-2005 09:17	1.0						
002	011a002	X	ib			11-JAN-2005 09:45	1.0						
003	011a003	CCV	dsl			11-JAN-2005 10:14	1.0	1.0			3	1	
004	011a004	CCV	mo			11-JAN-2005 10:42	1.0	1.0			3	2	
005	011a005	SAMPLE	176961-016	98054	Soil	11-JAN-2005 12:30	3.0	0.09994		1	3	1:BUNKC:=6412.15	
006	011a006	SAMPLE	176984-002	98090	Soil	11-JAN-2005 12:59	10.0	0.1004			3	3:BUNKC:=13617.3	
007	011a007	SAMPLE	176984-017	98086	Soil	11-JAN-2005 13:27	2.0	0.1001		1	3	1:BUNKC:=8494.74	
008	011a008	X	ib			11-JAN-2005 14:26	1.0						
009	011a009	LCS	QC278946	98181	Soil	11-JAN-2005 14:54	1.0	0.09936			3		
010	011a010	BLANK	QC278945	98181	Soil	11-JAN-2005 15:23	1.0	0.1000	8		3		
011	011a011	SAMPLE	176984-016	98181	Soil	11-JAN-2005 15:51	1.0	0.09966			3		
012	011a012	SAMPLE	176984-019	98181	Soil	11-JAN-2005 16:20	1.0	0.09982			3		
013	011a013	SAMPLE	176984-022	98181	Soil	11-JAN-2005 16:49	1.0	0.1006			3		
014	011a014	SAMPLE	176984-035	98181	Soil	11-JAN-2005 17:17	1.0	0.1004			3		
015	011a015	SAMPLE	176984-030	98181	Soil	11-JAN-2005 17:46	1.0	0.1004			3		
016	011a016	CCV	dsl			11-JAN-2005 18:14	1.0	1.0			3	3	
017	011a017	CCV	mo			11-JAN-2005 18:43	1.0	1.0			3	2	
018	011a018	X	ccv			11-JAN-2005 19:12	1.0					4	
019	011a019	SAMPLE	176984-028	98181	Soil	11-JAN-2005 19:41	1.0	0.1002			3	1:BUNKC:=6242.75	
020	011a020	SAMPLE	176984-025	98181	Soil	11-JAN-2005 20:09	1.0	0.09925	1		3	8:BUNKC:=16669.3	
021	011a021	SAMPLE	176984-040	98181	Soil	11-JAN-2005 20:38	1.0	0.1001			3		
022	011a022	SAMPLE	176984-006	98181	Soil	11-JAN-2005 21:07	1.0	0.1001	1	1	3	8:BUNKC:=36061.4	
023	011a023	SAMPLE	176961-011	98181	Soil	11-JAN-2005 21:35	1.0	0.09978			3		
024	011a024	X	ib			11-JAN-2005 22:04	1.0						
025	011a025	CCV	dsl			11-JAN-2005 22:32	1.0	1.0			3	3	
026	011a026	CCV	mo			11-JAN-2005 23:01	1.0	1.0			3	2	
027	011a027	X	ccv			11-JAN-2005 23:30	1.0					3	

Stds used: 1=04WS2358 2=05WS0066 3=05WS0021 4=04WS2406

SEQUENCE SUMMARY FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 115017823 Instrument: GC11A
Analytical Method: EPA 8015B

Gas Chromatograph #11 (Channel A) TEH
SOP Version: TEH_rv12

Begun: 12-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
001	012a001	X	primer			12-JAN-2005 09:03	1.0						
002	012a002	X	ib			12-JAN-2005 09:32	1.0						
003	012a003	CCV	dsl			12-JAN-2005 10:01	1.0	1.0		3		1	
004	012a004	CCV	mo			12-JAN-2005 10:30	1.0	1.0		3		2	
005	012a005	SAMPLE	176984-025	98181	Soil	12-JAN-2005 11:33	3.0	0.09925		3		1:BUNKC:=7997.51	
006	012a006	SAMPLE	176984-006	98181	Soil	12-JAN-2005 12:02	50.0	0.1001		3			
007	012a007	X	ib			12-JAN-2005 15:36	1.0						
008	012a008	BLANK	QC279080	98219	Soil	12-JAN-2005 16:05	1.0	0.09992	7	3			
009	012a009	LCS	QC279081	98219	Soil	12-JAN-2005 16:35	1.0	0.1000		3			
010	012a010	SAMPLE	177068-024	98219	Soil	12-JAN-2005 17:04	1.0	0.09938		3			
011	012a011	SAMPLE	177068-026	98219	Soil	12-JAN-2005 17:37	1.0	0.1006		3			
012	012a012	SAMPLE	177068-023	98219	Soil	12-JAN-2005 18:06	1.0	0.09903		3			
013	012a013	SAMPLE	177068-025	98219	Soil	12-JAN-2005 18:35	1.0	0.1001		3			
014	012a014	SAMPLE	177068-021	98219	Soil	12-JAN-2005 19:04	1.0	0.1001		3			
015	012a015	SAMPLE	177068-022	98219	Soil	12-JAN-2005 19:34	1.0	0.09942		3		1:BUNKC:=7473.40	
016	012a016	X	ib			12-JAN-2005 20:03	1.0						
017	012a017	CCV	dsl			12-JAN-2005 20:33	1.0	1.0		3		3	
018	012a018	CCV	mo			12-JAN-2005 21:02	1.0	1.0		3		2	
019	012a019	X	ccv			12-JAN-2005 21:32	1.0					3	
020	012a020	SAMPLE	177068-027	98219	Soil	12-JAN-2005 22:01	1.0	0.1001		3			
021	012a021	SAMPLE	177054-001	98219	Soil	12-JAN-2005 22:30	5.0	0.09921		3			
022	012a022	SAMPLE	177054-002	98219	Soil	12-JAN-2005 23:00	1.0	0.09976		3		1:BUNKC:=10124.4	
023	012a023	MSS	177056-001	98219	Soil	12-JAN-2005 23:29	5.0	0.0999	7	3		1:BUNKC:=7913.26	
024	012a024	SAMPLE	177056-002	98219	Soil	12-JAN-2005 23:58	5.0	0.09952	2	3		7:BUNKC:=27266.8	
025	012a025	SAMPLE	177056-003	98219	Soil	13-JAN-2005 00:27	5.0	0.1002		3		1:BUNKC:=6942.40	
026	012a026	SAMPLE	177056-004	98219	Soil	13-JAN-2005 00:57	10.0	0.1000		3			
027	012a027	X	ib			13-JAN-2005 01:26	1.0						
028	012a028	X	dsl			13-JAN-2005 01:55	1.0	1.0		3		4	
029	012a029	CCV	mo			13-JAN-2005 02:24	1.0	1.0		3		2	
030	012a030	CCV	ccv			13-JAN-2005 02:53	1.0	1.0		3		4	
031	012a031	CCV	hyfl			13-JAN-2005 03:22	1.0	1.0		3		5	

Stds used: 1=04WS2358 2=05WS0066 3=04WS2406 4=05WS0021 5=04WS2418

SEQUENCE SUMMARY FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 115017823 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 12-JAN-2005
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
032	012a032	BLANK	QC278994 S	98195	Water	13-JAN-2005 03:51	1.0	0.005	5		3		
033	012a033	SAMPLE	177044-013 S	98195	Water	13-JAN-2005 04:20	1.0	0.005			3		
034	012a034	SAMPLE	177044-014 S	98195	Water	13-JAN-2005 04:49	1.0	0.005			3		
035	012a035	SAMPLE	177044-015 S	98195	Water	13-JAN-2005 05:18	1.0	0.005			3		
036	012a036	SAMPLE	177044-016 S	98195	Water	13-JAN-2005 05:47	1.0	0.005			3		
037	012a037	CCV	dsl			13-JAN-2005 06:16	1.0	1.0			3	1	
038	012a038	CCV	mo			13-JAN-2005 06:45	1.0	1.0			3	2	
039	012a039	X	ccv			13-JAN-2005 07:14	1.0					1	
040	012a040	CCV	hyfl			13-JAN-2005 07:43	1.0	1.0			3	5	

146

Stds used: 1=04WS2358 2=05WS0066 3=04WS2406 4=05WS0021 5=04WS2418

SEQUENCE SUMMARY FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 115025030 Instrument: GC11A
Analytical Method: EPA 8015B

Gas Chromatograph #11 (Channel A) TEH
SOP Version: TEH_rv12

Begun: 17-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
001	017a001	X	primer			17-JAN-2005 09:10	1.0						
002	017a002	X	ib			17-JAN-2005 09:39	1.0						
003	017a003	CCV	dsl			17-JAN-2005 10:09	1.0	1.0		3		1	
004	017a004	CCV	mo			17-JAN-2005 10:38	1.0	1.0		3		2	
005	017a005	CCV	jet			17-JAN-2005 11:07	1.0	1.0		3		3	
006	017a006	BLANK	QC279554 S	98338	Soil	17-JAN-2005 11:50	1.0	0.1006	6	3			
007	017a007	SAMPLE	177130-005 S	98338	Soil	17-JAN-2005 12:19	1.0	0.0999		3		1:BUNKC:=7390.91	
008	017a008	SAMPLE	177174-002 S	98338	Soil	17-JAN-2005 12:49	1.0	0.1001		3			
009	017a009	SAMPLE	177173-007 S	98338	Soil	17-JAN-2005 13:18	1.0	0.1000		3			
010	017a010	SAMPLE	177173-005 S	98338	Soil	17-JAN-2005 13:47	1.0	0.09982		3			
011	017a011	SAMPLE	177173-003 S	98338	Soil	17-JAN-2005 14:16	1.0	0.0993		3			
012	017a012	SAMPLE	177173-004 S	98338	Soil	17-JAN-2005 14:46	1.0	0.09962		3			
013	017a013	SAMPLE	177174-001 S	98338	Soil	17-JAN-2005 15:15	1.0	0.09974		3			
014	017a014	SAMPLE	177173-006 S	98338	Soil	17-JAN-2005 15:44	1.0	0.1001		3			
015	017a015	SAMPLE	177173-002 S	98338	Soil	17-JAN-2005 16:13	1.0	0.09994		3			
017	017a017	CCV	dsl			17-JAN-2005 16:42	1.0	1.0		3		4	
018	017a018	CCV	mo			17-JAN-2005 17:11	1.0	1.0		3		2	
019	017a019	CCV	jet			17-JAN-2005 17:41	1.0	1.0		3		3	
020	017a020	X	ccv			17-JAN-2005 18:10	1.0	1.0		3		5	
021	017a021	SAMPLE	177174-004 S	98338	Soil	17-JAN-2005 18:39	1.0	0.1008		3			
022	017a022	SAMPLE	177174-003 S	98338	Soil	17-JAN-2005 19:09	1.0	0.09925		3			
023	017a023	SAMPLE	177173-001 S	98338	Soil	17-JAN-2005 19:38	1.0	0.1000		3			
024	017a024	SAMPLE	177176-001 S	98338	Soil	17-JAN-2005 20:07	1.0	0.09958		3			
025	017a025	X	ib			17-JAN-2005 20:36	1.0						
026	017a026	LCS	QC279555 S	98338	Soil	17-JAN-2005 21:05	1.0	0.1004		3			
027	017a027	SAMPLE	177023-001	98339	Water	17-JAN-2005 21:35	1.0	0.005		3			
028	017a028	SAMPLE	177122-016	98339	Water	17-JAN-2005 22:04	1.0	0.005		3			
029	017a029	SAMPLE	177086-008	98339	Water	17-JAN-2005 22:34	1.0	0.005		3			
030	017a030	SAMPLE	177086-009	98339	Water	17-JAN-2005 23:03	1.0	0.005		3			
031	017a031	MSS	177086-010	98339	Water	17-JAN-2005 23:32	1.0	0.005	6	3			
032	017a032	CCV	dsl			18-JAN-2005 00:02	1.0	1.0		3		6	

Stds used: 1=04WS2358 2=05WS0066 3=04WS2272 4=04WS2406 5=05WS0114 6=04WS2258

SEQUENCE SUMMARY FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 115025030 Instrument: GC11A Gas Chromatograph #11 (Channel A) TEH Begun: 17-JAN-2005
Analytical Method: EPA 8015B SOP Version: TEH_rv12

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
033	017a033	CCV	mo			18-JAN-2005 00:31	1.0	1.0			3	2	
034	017a034	X	ccv			18-JAN-2005 01:01	1.0					6	

148

Stds used: 1=04WS2358 2=05WS0066 3=04WS2272 4=04WS2406 5=05WS0114 6=04WS2258

SEQUENCE SUMMARY FOR 176984 TEHM Soil
Curtis & Tompkins Laboratories

Sequence: 175025057 Instrument: GC17A
Analytical Method: EPA 8015B

Gas Chromatograph #17 (Channel A) TEH
SOP Version: TEH_rv12

Begun: 17-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
001	017a001	X	primer			17-JAN-2005 09:37	1.0						
002	017a002	X	ib			17-JAN-2005 10:05	1.0						
003	017a003	CCV	dsl			17-JAN-2005 10:34	1.0					1	
005	017a005	X	ib			17-JAN-2005 12:28	1.0						
006	017a006	X	ccv			17-JAN-2005 12:56	1.0	1.0			3	1	
007	017a007	CCV	mo			17-JAN-2005 13:25	1.0	1.0			3	2	
008	017a008	CCV	dsl			17-JAN-2005 14:04	1.0	1.0			3	1	
009	017a009	SAMPLE	177124-004	98338	Soil	17-JAN-2005 14:38	1.0	0.09994			3		
010	017a010	SAMPLE	177124-003	98338	Soil	17-JAN-2005 15:06	1.0	0.09998			3		
011	017a011	SAMPLE	177124-002	98338	Soil	17-JAN-2005 15:34	1.0	0.1001			3		
012	017a012	SAMPLE	177124-001	98338	Soil	17-JAN-2005 16:02	1.0	0.0999			3		
013	017a013	SAMPLE	176984-039	98338	Soil	17-JAN-2005 16:31	1.0	0.1008			3		
014	017a014	MS	QC279613	98350	Soil	17-JAN-2005 16:59	1.0	0.09994			3		
015	017a015	MSD	QC279614	98350	Soil	17-JAN-2005 17:27	1.0	0.1001			3		
016	017a016	SAMPLE	177074-009	98338	Soil	17-JAN-2005 17:55	1.0	0.1000			3		
017	017a017	MSS	176984-038	98338	Soil	17-JAN-2005 18:24	10.0	0.1002	8		3		
018	017a018	SAMPLE	177175-002	98350	Soil	17-JAN-2005 18:52	1.0	0.09998			3		
019	017a019	CCV	dsl			17-JAN-2005 19:21	1.0	1.0			3	3	
020	017a020	CCV	mo			17-JAN-2005 19:49	1.0	1.0			3	2	
021	017a021	X	ccv			17-JAN-2005 20:17	1.0					3	

Stds used: 1=04WS2358 2=05WS0066 3=04WS2406

Curtis & Tompkins Laboratories

Sample Preparation Summary

07-JAN-2005 11:47

Batch Number : 98086
 Date Extracted: 07-JAN-2005
 Extracted by : Brook N. Buswell
 Prep Method : SHAKER TABLE

Analysis : TEHM
 Bgroup : N/A
 Units : g
 Clean-up :

Spike #1 ID : 04WS2345D
 Spike #2 ID : 04WS2342F
 Spike #3 ID :
 SOP Version :

Sample	Type	Client	Matrix	Init Units W/V	Final Prep Vol D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176953-013		LFR Levine Fricke	Soil	49.99 g	10	0.200040	1	0		TEHM		
176953-014		LFR Levine Fricke	Soil	50.04 g	5	0.099920	1	0		TEHM		
176953-015		LFR Levine Fricke	Soil	49.88 g	5	0.100241	1	0		TEHM		
176953-016		LFR Levine Fricke	Soil	50.24 g	5	0.099522	1	0		TEHM		
176953-017		LFR Levine Fricke	Soil	50.48 g	5	0.099049	1	0		TEHM		
176953-018		LFR Levine Fricke	Soil	49.68 g	5	0.100644	1	0		TEHM		
176953-019		LFR Levine Fricke	Soil	49.82 g	10	0.200723	1	0		TEHM		
176953-020		LFR Levine Fricke	Soil	50.15 g	5	0.099701	1	0		TEHM		
176953-021		LFR Levine Fricke	Soil	49.85 g	10	0.200602	1	0		TEHM		
176984-007		Ninyo & Moore	Soil	50.24 g	5	0.099522	1	0		TEHM		mss
176984-011		Ninyo & Moore	Soil	50.1 g	5	0.099800	1	0		TEHM		
176984-012		Ninyo & Moore	Soil	49.96 g	5	0.100080	1	0		TEHM		
176984-014		Ninyo & Moore	Soil	49.82 g	5	0.100361	1	0		TEHM		
176984-015		Ninyo & Moore	Soil	50.15 g	5	0.099701	1	0		TEHM		
176984-017		Ninyo & Moore	Soil	49.93 g	5	0.100140	1	0		TEHM		
176984-018		Ninyo & Moore	Soil	50.35 g	5	0.099305	1	0		TEHM		
176984-020		Ninyo & Moore	Soil	49.92 g	5	0.100160	1	0		TEHM		
176984-021		Ninyo & Moore	Soil	50.42 g	5	0.099167	1	0		TEHM		
176984-023		Ninyo & Moore	Soil	49.98 g	5	0.100040	1	0		TEHM		
176989-001		LFR Levine Fricke	Soil	49.88 g	5	0.100241	1	0		TEHM		
QC278624	MB		Soil	50.17 g	5	0.099661	1	0		TEHM		
QC278625	LCS		Soil	49.8 g	5	0.100402	1	1		TEHM		
QC278626	MS	of 176984-007	Soil	49.94 g	5	0.100120	1	1		TEHM		
QC278627	MSD	of 176984-007	Soil	49.77 g	5	0.100462	1	1		TEHM		

Prep Chemist:

Reviewed By:

Date:

Relinquished By:

Received By:

Date:

LIMS Batch No: 98086
 LIMS Analysis: TEHM
 Extracted by: 203
 Date Extracted: 1/7/05

Extraction Method:

- ☒ Mechanical Shaker Table
☐ EPA 3550 Sonication
☐ Other _____

Cleanup Method (if necessary):

- ☐ EPA 3630 Silica Gel
☐ Other _____

Sample # & letter	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
MB 2C 278624	50.17	5.0		
LC5	49.80			
MS	49.94			
MSD	49.77			
5 176953-013	49.99	10.0	+	
-14	50.04	5.0		
-15	49.88			
-16	50.24			
-17	50.48			
10 -18	49.68			
-19	49.82	10.0	+	
-20	50.15	5.0		
-21	49.85	10.0	+	
176984-007	50.24	5.0	MSS	
15 -011	50.10			
-12	49.96			
-14	49.82			
-15	50.15			
-17	49.93			
20 -18	50.35			
-20	49.92			
-11	50.42			
-13	49.98			
176989-001	49.88			

+ BLACK SLUDGE WOULD NOT CONCEN. PB 1/7/05

Sand weighed out for QC samples
 Samples were dried with CH₂Cl₂-rinsed granular Na₂SO₄
 1.0 mL of TEH_SURR surrogate solution was added to all samples
 1.0 mL of TEH_SP matrix spiking solution was added to all spikes
 ≥ 75 mL of 1+1 (CH₂Cl₂+Acetone) was added to all

CH₂Cl₂
 Acetone

Samples were: ☐ sonicated 3 times ☒ placed on shaker table at:
 taken off shaker table at:

Extracts filtered through baked, rinsed powdered Na₂SO₄
 Concentrated to volumes as noted above

Mfg & Lot # / LIMS # / Time Date/Initials

EM 44258	1/7/05
EM 44135433	
04WS2345D	
04WS2342F	
EM 44302	
EM 44233	
0740	
0940	
EM 44135434	
✓	✓

Extraction Chemist / Date

Continued from page
 Continued on page

Reviewed by / Date

Number	Weight (g)	Height (cm)	Comments
10	50.7	14.0	Good
11	49.80	14.0	Good
12	50.10	14.0	Good
13	49.90	14.0	Good

Soil Hgubot

BK 2030

Sample ID	Weight (g)	Analysis	Comments
176953-013 A	49.99	PEHM	
-014	50.04		
-015	49.88		
-016	50.24		
-017	50.48		
-018	49.68		
-019	49.82		
-020	50.15		
-021 ✓	49.85		
176989-001	49.88	✓	Aliquot 176953-0334

See 4/06/05

Continued on Page

Read and Understood By

153

Signed

Date

01/06/05

Curtis & Tompkins Laboratories

Sample Preparation Summary

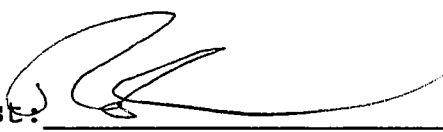
07-JAN-2005 14:59

Batch Number : 98090
 Date Extracted: 07-JAN-2005
 Extracted by : Brook N. Buswell
 Prep Method : SHAKER TABLE

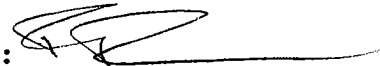
Analysis : TEHM
 Bgroup : N/A
 Units : g
 Clean-up :

Spike #1 ID : 04WS2345D
 Spike #2 ID : 04WS2342F
 Spike #3 ID :
 SOP Version :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176983-001		Ninyo & Moore	Soil	50.19	g	5	0.099621	1	1	0		TEHM		mss
176983-002		Ninyo & Moore	Soil	50.1	g	5	0.099800	1	1	0		TEHM		
176984-001		Ninyo & Moore	Soil	49.83	g	5	0.100341	1	1	0		TEHM		
176984-002		Ninyo & Moore	Soil	49.82	g	5	0.100361	1	1	0		TEHM		
176984-004		Ninyo & Moore	Soil	49.87	g	5	0.100261	1	1	0		TEHM		
176984-005		Ninyo & Moore	Soil	49.89	g	5	0.100220	1	1	0		TEHM		
176984-008		Ninyo & Moore	Soil	50.32	g	5	0.099364	1	1	0		TEHM		
176984-009		Ninyo & Moore	Soil	50.01	g	5	0.099980	1	1	0		TEHM		
176984-024		Ninyo & Moore	Soil	50.02	g	5	0.099960	1	1	0		TEHM		
176984-026		Ninyo & Moore	Soil	49.9	g	5	0.100200	1	1	0		TEHM		
176984-027		Ninyo & Moore	Soil	49.83	g	5	0.100341	1	1	0		TEHM		
176984-029		Ninyo & Moore	Soil	50.2	g	5	0.099602	1	1	0		TEHM		
176984-031		Ninyo & Moore	Soil	49.84	g	5	0.100321	1	1	0		TEHM		
176984-032		Ninyo & Moore	Soil	49.96	g	5	0.100080	1	1	0		TEHM		
176984-033		Ninyo & Moore	Soil	50.34	g	5	0.099325	1	1	0		TEHM		
176984-034		Ninyo & Moore	Soil	49.89	g	5	0.100220	1	1	0		TEHM		
QC278648	MB		Soil	50.1	g	5	0.099800	1	1	0		TEHM		
QC278649	LCS		Soil	49.9	g	5	0.100200	1	1	1		TEHM		
QC278650	MS	of 176983-001	Soil	49.77	g	5	0.100462	1	1	1		TEHM		
QC278651	MSD	of 176983-001	Soil	50.17	g	5	0.099661	1	1	1		TEHM		

Prep Chemist: Reviewed By: 

Date: 7 Jan 05

Relinquished By: 

Received By: MSB

Date: 11/7/05

LIMS Batch No: 94090
 LIMS Analysis TEHM
 Extracted by: RS
 Date Extracted: 1/7/05

Extraction Method:
☒ Mechanical Shaker Table
☐ EPA 3550 Sonication
☐ Other _____

Cleanup Method (if necessary):
☐ EPA 3630 Silica Gel
☐ Other _____

Sample # & letter	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
MP QC 218648	50.10	5.0		
LOS 1 9	49.90			
MS 1 50	49.77			
MSD 1 51	50.17			
5 176983-001A	50.19			MJS
↓ -002	50.10			
176984-001	49.83			
↓ -112	49.82			
↓ -114	49.87			
10 ↓ -115	49.89			
↓ -008	50.32			
↓ -009	50.01			
↓ -024	50.02			
↓ -116	49.90			
15 ↓ -117	49.83			
↓ -119	50.20			
↓ -031	49.84			
↓ -112	49.86			
↓ -113	50.34			
20 176984-034 ↓	49.89			
<i>[Handwritten signature and date 1/7/05 across the bottom of the table]</i>				

Sand weighed out for QC samples
 Samples were dried with CH₂Cl₂-rinsed granular Na₂SO₄
1.0 mL of TEH_SURR surrogate solution was added to all samples
1.0 mL of TEH_SP matrix spiking solution was added to all spikes
 ≥ 75 mL of 1+1 (CH₂Cl₂+Acetone) was added to all

Samples were: ☐ sonicated 3 times ☐ placed on shaker table at:
 taken off shaker table at:

Extracts filtered through baked, rinsed powdered Na₂SO₄
 Concentrated to volumes as noted above

Mfg & Lot # / LIMS # / Time	Date/Initials
EM 44258	1/7/05
EM 44135433	
CHWS23450	
CHWS2342F	
EM 44302	
EM 44237	
0900	
1100	
EM 4425434	

Extraction Chemist / Date

Continued from page 155
 Continued on page

Reviewed by / Date

Sample ID	Weight (g)	Analyses	Comments
MB	50.17	TEH m	Em 44258
LCS	49.80		↓
MB	50.10		↓
LCS	49.90		↓
176983-001A	50.19		MSS
↓ -002↓	50.10		
MS	49.77		
MSD	50.17		176983-001
176984-001A	49.83		↓
-003	49.82		
-004	49.87		
-005	49.89		
-007↓	50.24		MSS
MS	49.94		176984-007
MSD	49.77		↓
176984-008A	50.32		
-009	50.01		
-011	50.10		
-012	49.96		
-014	49.82		
-015	50.15		
-017	49.93		
-018	50.35		
-020	49.92		
-021	50.42		
-023	49.98		
-024	50.02		
-026	49.90		
-027	49.83		
-029	50.20		
-031	49.84		
-032	49.96		
-033↓	50.34		MSS
MS	49.99		176984-033
MSD	49.89		↓
176984-034A	49.89		

Not
in
batch

11/7/05
11/6/05

[Signature]

Signed

Date

Read and Understood By

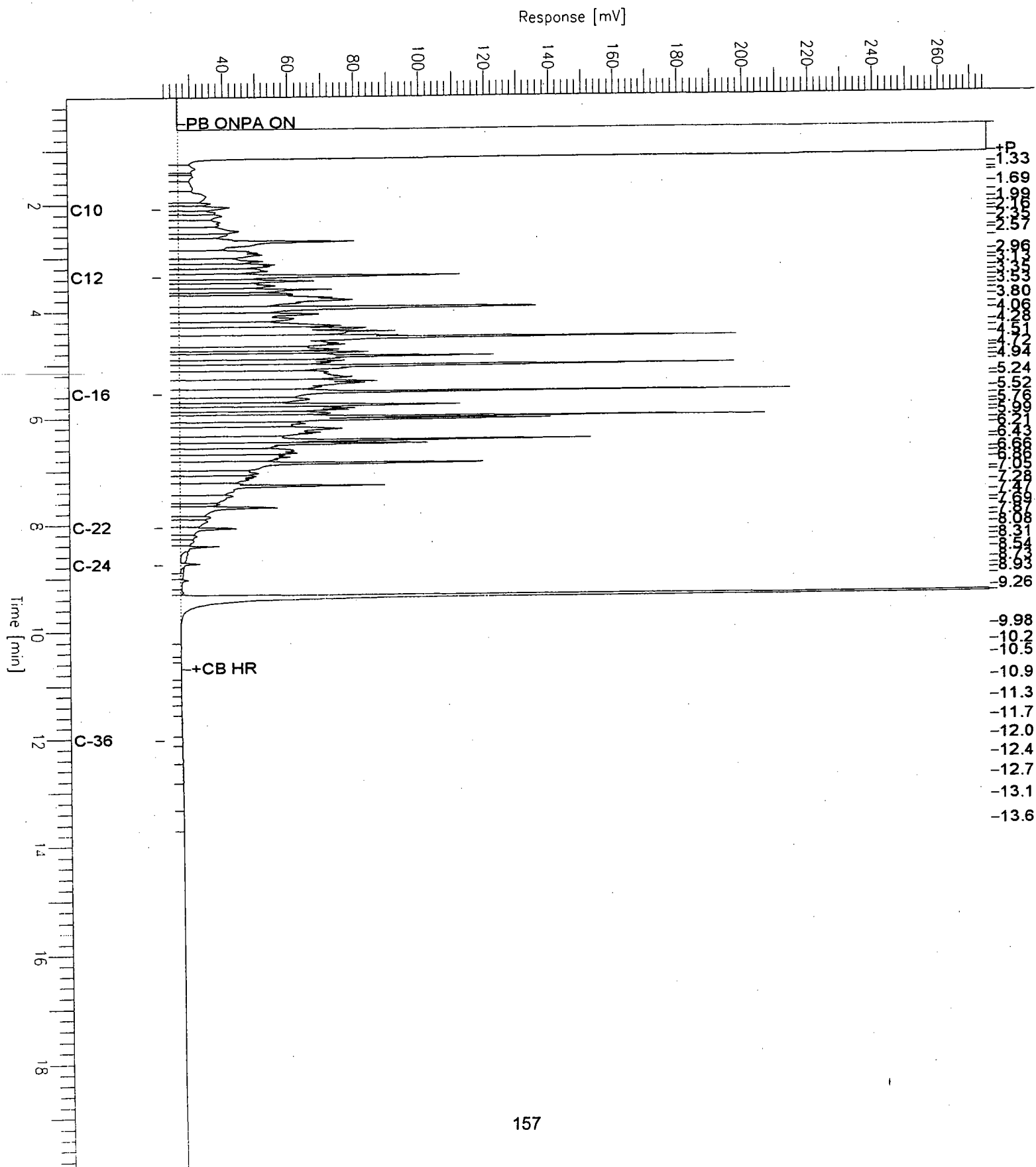
Chromatogram

Sample Name : ccv,04ws2358,ds1
 FileName : G:\GC15\CHB\007B003.RAW
 Method : BTEH005S.MTH
 Start Time : 0.01 min
 Scale Factor: 0.0

End Time : 19.99 min
 Plot Offset: 21 mV

Sample #: 500mg/L
 Date : 1/7/05 05:14 PM
 Time of Injection: 1/7/05 04:26 PM
 Low Point : 20.94 mV
 Plot Scale: 254.2 mV

Page 1 of 1



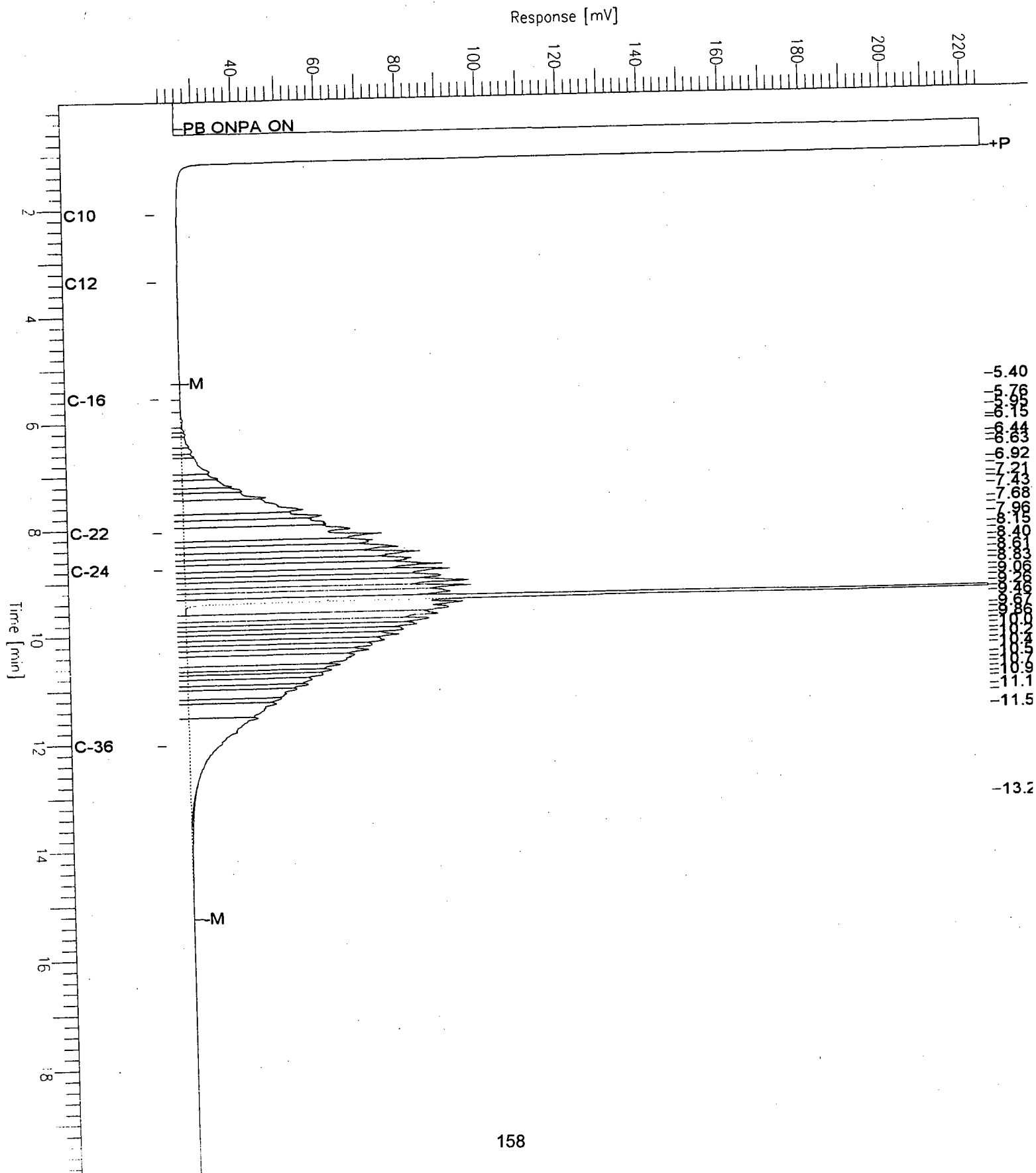
Chromatogram

Sample Name : ccv,05ws0066,mo
 FileName : G:\GC15\CHB\007B004.RAW
 Method : BTEH005S.MTH
 Start Time : 0.01 min
 Scale Factor: 0.0

End Time : 19.99 min
 Plot Offset: 21 mV

Sample #: 500mg/L
 Date : 1/7/05 05:18 PM
 Time of Injection: 1/7/05 04:55 PM
 Low Point : 20.78 mV
 Plot Scale: 204.1 mV

Page 1 of 1



Curtis & Tompkins Laboratories

Sample Preparation Summary

11-JAN-2005 12:28

Batch Number : 98181
 Date Extracted: 11-JAN-2005
 Extracted by : Brook N. Buswell
 Prep Method : SHAKER TABLE

Analysis : TEHM
 Bgroup : N/A
 Units : g
 Clean-up :

Spike #1 ID : 04WS2345D
 Spike #2 ID : 04WS2342D
 Spike #3 ID :
 SOP Version :

Sample	Type	Client	Matrix	Init Units W/V	Final Prep Vol	D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176961-003		Ninyo & Moore	Soil	49.59 g	5	0.100827	1	1	0		TEHM		
176961-005		Ninyo & Moore	Soil	49.8 g	5	0.100402	1	1	0		TEHM		
176961-008		Ninyo & Moore	Soil	49.94 g	5	0.100120	1	1	0		TEHM		
176961-011		Ninyo & Moore	Soil	50.11 g	5	0.099780	1	1	0		TEHM		
176961-015		Ninyo & Moore	Soil	49.62 g	5	0.100766	1	1	0		TEHM		
176984-003		Ninyo & Moore	Soil	49.91 g	5	0.100180	1	1	0		TEHM		
176984-006		Ninyo & Moore	Soil	49.96 g	5	0.100080	1	1	0		TEHM		
176984-010		Ninyo & Moore	Soil	50.18 g	5	0.099641	1	1	0		TEHM		mss
176984-013		Ninyo & Moore	Soil	50.04 g	5	0.099920	1	1	0		TEHM		
176984-016		Ninyo & Moore	Soil	50.17 g	5	0.099661	1	1	0		TEHM		
176984-019		Ninyo & Moore	Soil	50.09 g	5	0.099820	1	1	0		TEHM		
176984-022		Ninyo & Moore	Soil	49.71 g	5	0.100583	1	1	0		TEHM		
176984-025		Ninyo & Moore	Soil	50.38 g	5	0.099246	1	1	0		TEHM		
176984-028		Ninyo & Moore	Soil	49.89 g	5	0.100220	1	1	0		TEHM		
176984-030		Ninyo & Moore	Soil	49.81 g	5	0.100381	1	1	0		TEHM		
176984-035		Ninyo & Moore	Soil	49.79 g	5	0.100422	1	1	0		TEHM		
176984-040		Ninyo & Moore	Soil	49.95 g	5	0.100100	1	1	0		TEHM		
QC278945	MB		Soil	49.99 g	5	0.100020	1	1	0		TEHM		
QC278946	LCS		Soil	50.32 g	5	0.099364	1	1	1		TEHM		
QC278947	MS	of 176984-010	Soil	50.04 g	5	0.099920	1	1	1		TEHM		
QC278948	MSD	of 176984-010	Soil	50.21 g	5	0.099582	1	1	1		TEHM		

Prep Chemist: Reviewed By: Date: 4/11/05Relinquished By: Received By: Date: 1/11/05

2046

Page 25

LIMS Batch No: 98181

Extraction Method:

Cleanup Method (if necessary):

LIMS Analysis: TEH M☒ Mechanical Shaker Table☐ EPA 3630 Silica GelExtracted by: RS☐ EPA 3550 Sonication☐ Other _____Date Extracted: 1/11/05☐ Other _____

Sample # & letter	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
M3 Q27445	49.94	5.0		
MS LCS 0	50.32			
MS 7	50.04			
MSD 8	50.21			
176961-003	49.59			
-005	49.80			
-008	49.94			
-011	50.11			
-015	49.62			
176984-003	49.91			
-006	49.96			
-010	50.18			MS
-013	50.04			
-016	50.17			
-019	50.09			
-022	49.71 49.17			MS 1/11/05
-025	50.38			
-028	49.89			
-030	49.81			
-035	49.79			
-040	49.95			
RS 1/11/05				

/Initials

1/11/05

Sand weighed out for QC samples

Samples were dried with CH₂Cl₂-rinsed granular Na₂SO₄

1.0 mL of TEH_SURR surrogate solution was added to all samples

1.0 mL of TEH_SP matrix spiking solution was added to all spikes

≥ 75 mL of 1+1 (CH₂Cl₂+Acetone) was added to allCH₂Cl₂

Acetone

Samples were: ☐ sonicated 3 times ☒ placed on shaker table at:

taken off shaker table at:

Extracts filtered through baked, rinsed powdered Na₂SO₄

Concentrated to volumes as noted above

Mfg & Lot # / LIMS # / Time Date/Initials

EM 44258

RS 1/11/05

EM 44135433

EM 4423450

EM 4423420

EM 44302

EM 44233

0815

1015

EM 44135434

Extraction Chemist / Date

Continued from page

Continued page

Reviewed by / Date

sample ID	Weight (g)	Analyses	Comments
176984-020 A	15.02	PCB	
-021	15.01		
-022	15.11		
-026	14.94		
-027	14.95		
-028	14.89		
-029	14.85		
↓ -030 ↓	15.16		
176986-001	15.20		comp A-D
MB	15.17		
LCS	15.10		
MS	15.05		176983-002A
MSD	14.99	↓	↓
176961-003 A	49.59	TEH	
-005	49.80		
-008	49.94		
-011	50.11		
↓ -015 ↓	49.62		
176984-003 A	49.91		
-006	49.96		
-010	50.18		
-013	50.04		
-016	50.17		
-019	50.09		
-022	49.71		
-025	50.38		
-028	49.89		
-030	49.81		
-035	49.79		
↓ -040 ↓	49.95		
MB	49.99		
LCS	50.32		

AMS 1/7/05

Continued on Page

Read and Understood By

161

Aphewberg

Signed

1/7/05

Date

Signed

Date

Sample ID	Weight (g)	Analysis	Comments
177024-004	14.95	808	Comp A-D
174024-004	15.08	PCB	↓
176772-017	30.17		alaxed 176772-007
↓ -018	30.50		alaxed 176772-008
MB	29.63		
LS	29.53		
MS	30.04		176772-007
MSD	29.74	↓	↓
176772-019	30.31	PCB	alaxed 176772-010
176984-010	50.18	TEA	Rel
MS	50.04	↓	of 176984-010 ed
MSD	50.21	✓	↓

Continued on Pa

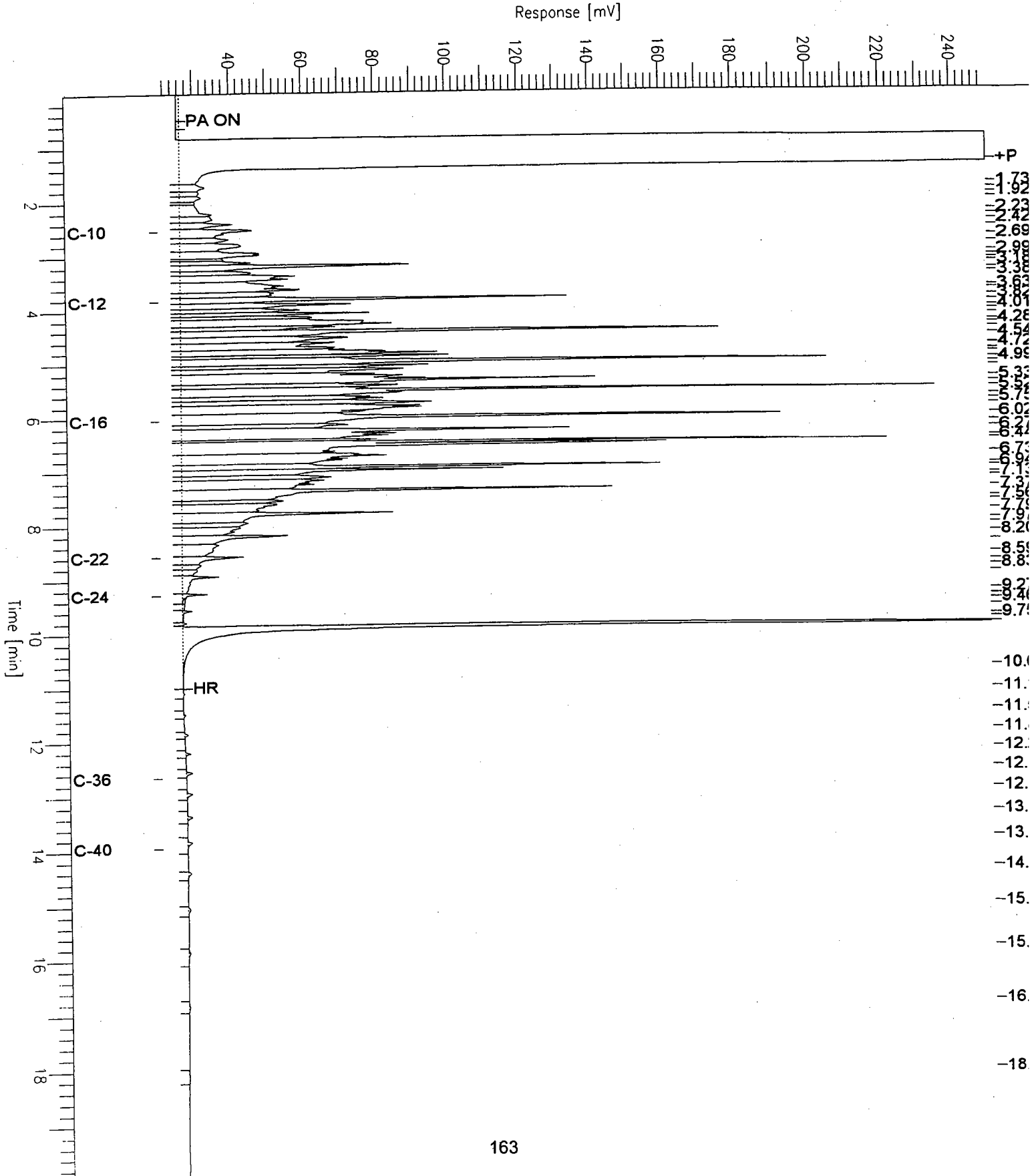
Chromatogram

Sample Name : ccv,04ws2358,ds1
 FileName : G:\GC17\CHA\011A003.RAW
 Method : ATEH005.MTH
 Start Time : 0.01 min
 Scale Factor: 0.0

End Time : 19.99 min
 Plot Offset: 21 mV

Sample #: 500mg/L
 Date : 1/11/05 10:38 AM
 Time of Injection: 1/11/05 10:14 AM
 Low Point : 20.66 mV
 Plot Scale: 229.2 mV
 High Point : 249.87 mV

Page 1 of 1



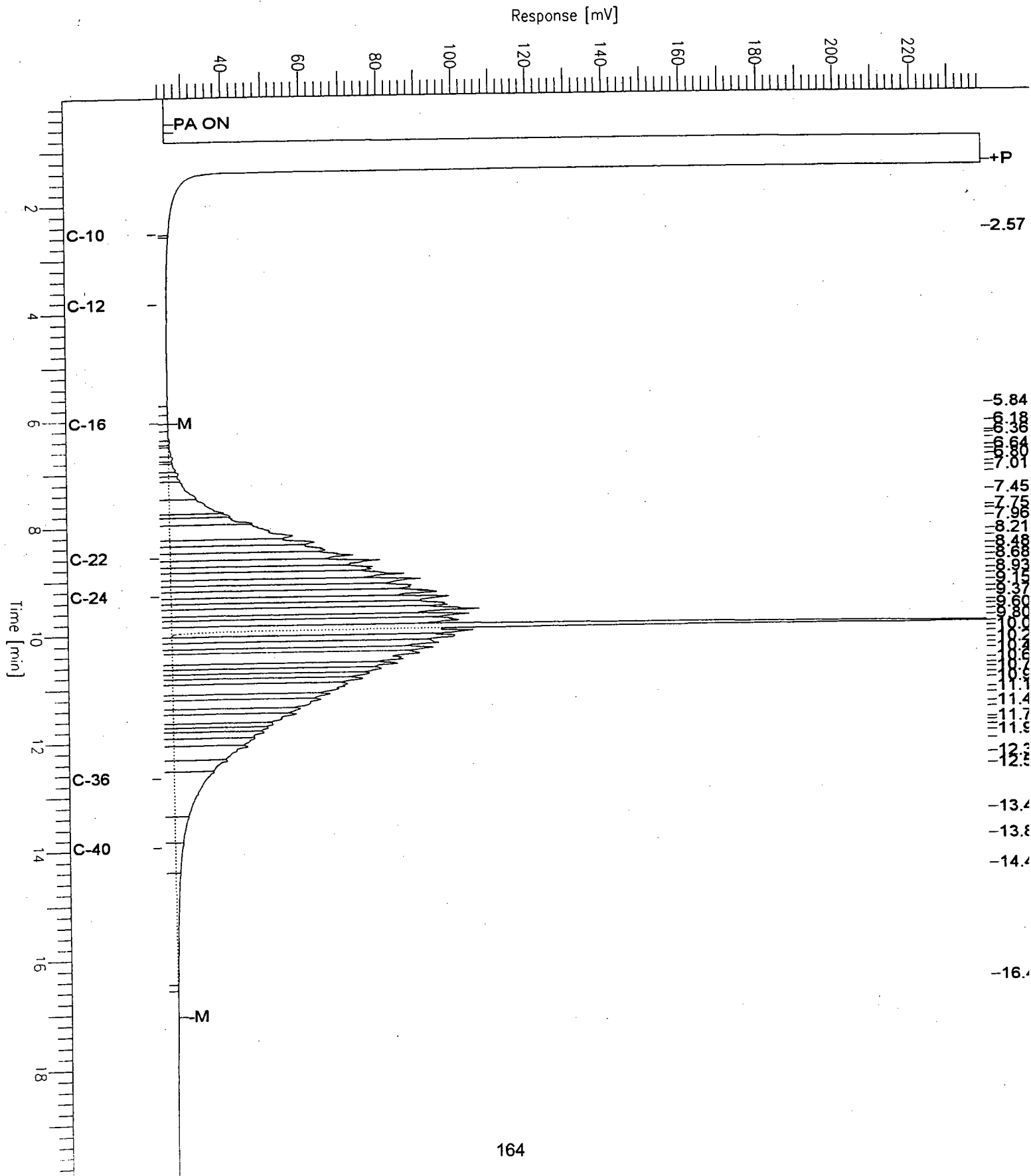
Chromatogram

Sample Name : ccv,05ws0066,mo
 FileName : G:\GD17\CHA\011A004.RAW
 Method : ATEH005.MTH
 Start Time : 0.01 min
 Scale Factor: 0.0

End Time : 19.99 min
 Plot Offset: 23 mV

Sample #: 500mg/L
 Date : 1/11/05 11:18 AM
 Time of Injection: 1/11/05 10:42 AM
 Low Point : 23.44 mV
 Plot Scale: 215.2 mV

Page 1 of 1



Curtis & Tompkins Laboratories

Sample Preparation Summary

15-JAN-2005 12:28

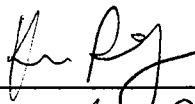
Batch Number : 98338
Date Extracted: 15-JAN-2005
Extracted by : Kevin Riley
Prep Method : SHAKER TABLE

Analysis : TEH
Bgroup : N/A
Units : g
Clean-up :

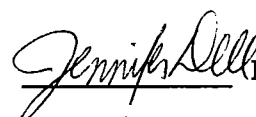
Spike #1 ID : 04WS2345E
Spike #2 ID : 04WS2342C
Spike #3 ID :
SOP Version : TEH1_rv9

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176984-038		Ninyo & Moore	Soil	49.9 g	✓	5	0.100200	1	1	0		TEHM		mss
176984-039		Ninyo & Moore	Soil	49.58 g	✓	5	0.100847	1	1	0		TEHM		
177074-009		URS Corporation	Soil	49.98 g	✓	5	0.100040	1	1	0		TEH		
177124-001		R&M Environmental	Soil	50.05 g	✓	5	0.099900	1	1	0		TEH		
177124-002		R&M Environmental	Soil	49.96 g	✓	5	0.100080	1	1	0		TEH		
177124-003		R&M Environmental	Soil	50.01 g	✓	5	0.099980	1	1	0		TEH		
177124-004		R&M Environmental	Soil	50.03 g	✓	5	0.099940	1	1	0		TEH		
177130-005		Port of Oakland	Soil	50.05 g	✓	5	0.099900	1	1	0		TEHM	3630C	
177173-001		SAIC	Soil	49.99 g	✓	5	0.100020	1	1	0		TEHM	3630C	
177173-002		SAIC	Soil	50.03 g	✓	5	0.099940	1	1	0		TEHM	3630C	
177173-003		SAIC	Soil	50.35 g	✓	5	0.099305	1	1	0		TEHM	3630C	
177173-004		SAIC	Soil	50.19 g	✓	5	0.099621	1	1	0		TEHM	3630C	
177173-005		SAIC	Soil	50.09 g	✓	5	0.099820	1	1	0		TEHM	3630C	
177173-006		SAIC	Soil	49.93 g	✓	5	0.100140	1	1	0		TEHM	3630C	
177173-007		SAIC	Soil	50 g	✓	5	0.100000	1	1	0		TEHM	3630C	
177174-001		SAIC	Soil	50.13 g	✓	5	0.099741	1	1	0		TEHM	3630C	
177174-002		SAIC	Soil	49.93 g	✓	5	0.100140	1	1	0		TEHM	3630C	
177174-003		SAIC	Soil	50.38 g	✓	5	0.099246	1	1	0		TEHM	3630C	
177174-004		SAIC	Soil	49.62 g	✓	5	0.100766	1	1	0		TEHM	3630C	
177176-001		SAIC	Soil	50.21 g	✓	5	0.099582	1	1	0		TEHM	3630C	
QC279554	MB		Soil	49.68 g	✓	5	0.100644	1	1	0		TEHM	3630C	
QC279555	LCS		Soil	49.82 g	✓	5	0.100361	1	1	1		TEHM	3630C	
QC279556	MS	of 176984-038	Soil	49.52 g	✓	5	0.100969	1	1	1		TEHM		
QC279557	MSD	of 176984-038	Soil	49.54 g	✓	5	0.100929	1	1	1		TEHM		

Prep Chemist:



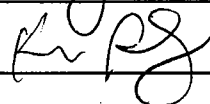
Reviewed By:



Date:

1/16/05

Relinquished By:



Received By:



Date:

01-17-05

LIMS Batch No: 98338

Extraction Method:

Cleanup Method (if necessary):

LIMS Analysis TEH/M☒ Mechanical Shaker Table☒ EPA 3630 Silica GelExtracted by: KR☐ EPA 3550 Sonication☐ Other _____Date Extracted: 15 JAN 05☐ Other _____

Sample # & letter	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
MB QC279554	49.68	5.0	X	
LCS 55	49.82		X	
MS 56	49.52			
MSD 57	49.54			
5 176984-038: A	49.90			MS
↓ 39 ↓	49.58			
177074-009: comp	49.98			
177124-001	50.05			
↓ 2	49.96			
10 ↓ 3	50.01			
↓ 4	50.03			
177130-005: comp 1-4	50.05		X	
177173-001: comp A-D	49.99		X	
↓ 2	50.03		X	
15 ↓ 3	50.35		X	
↓ 4	50.19		X	
↓ 5	50.09		X	
↓ 6	49.93		X	
↓ 7 ↓	50.00		X	
20 177174-001: comp A-D	50.13		X	
↓ 2	49.93		X	
↓ 3	50.38		X	
↓ 4 ↓	49.62		X	
177176-001: comp A-D	50.21	↓	X	
KR 15 JAN 05				

Sand weighed out for QC samples
 Samples were dried with CH₂Cl₂-rinsed granular Na₂SO₄
1.0 mL of TEH_SURR surrogate solution was added to all samples
1.0 mL of TEH_SP matrix spiking solution was added to all spikes
 ≥ 75 mL of 1+1 (CH₂Cl₂+Acetone) was added to all

CH₂Cl₂
 Acetone

Samples were: ☐ sonicated 3 times ☒ placed on shaker table at:
 taken off shaker table at:

Extracts filtered through baked, rinsed powdered Na₂SO₄
 Concentrated to volumes as noted above

Mfg & Lot # / LIMS # / Time Date/Initials

EM44258	15 JAN 05 KR
EM44135433	
04WS2345E	
04WS2342C	
EM44244	
EM44281	
103S	
123S	
EM44135433	
↓	

KR 15 JAN 05
 Extraction Chemist / Date

Continued from page 166
 Continued on page 167

Jennifer Deep 1/16/05
 Reviewed by / Date

Prep Chemist: KR
 Cleanup Date: 15 JAN 05

Benchbook # **BK 2028**
 Page 78

Sample #	Batch#	Initial Volume (mL)	Final Volume (mL)	Comments
MB 06279554	98338	1.0	1.0	
LC5 ↓ 59				
177130-005				
177173-001				
↓ 2				
↓ 3				
↓ 4				
↓ 5				
↓ 6				
↓ 7				
177174-001				
↓ 2				
↓ 3				
↓ 4				
177176-001				
<div style="position: relative; height: 100px;"> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid black; transform: rotate(45deg);"></div> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%);"> KR 15 JAN 05 </div> </div>				

<input checked="" type="checkbox"/> Extracts were cleaned up using C&T assembled <u>1.0</u> g columns <input type="checkbox"/> Extracts were cleaned up using <u>-</u> g cartridges Extracts were eluted with <u>4.0</u> mL CH ₂ Cl ₂ Concentrated to volumes as noted above	Mfg & Lot # / Time / Program <u>JTB V3333Z</u> <u>NA</u> <u>EM44294</u> <u>✓</u>	Initials / Date <u>KR 15 JAN 05</u> <u>✓</u>
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KR 15 JAN 05
 Extraction Chemist / Date

Continued from page 77
 Continued on page 78

Jennifer Bell 1/16/05
 Reviewed by / Date

SAMPLE ID	WEIGHT (G)	ANALYSIS	COMMENTS
177105-001A	49.85	TEHM	MSS
-002A	50.00		
-003A	49.96		
-004A	50.00		MSS
-005A	50.01		
-006A	49.98		
-007A	49.98		
-008A	49.97		
-009A	50.01		
-010A	49.99		
-011A	49.99		
-012A	50.00		
-013A	50.01		
-014A	49.98		
-015A	50.00		
-016A	50.01		
-017A	49.99		
-018A	50.02		
-019A	49.98		
-020A	50.02		
-021A	50.04		
-022A	49.98		
-023A	49.97		
-024A	49.96		
MSD	49.77		177105-001A
MS	49.61		EM44258
LCS	50.00		177105-001A
MB	49.97		
MSD	49.90		177105-004A
MS	49.90		EM44258
LCS	50.04		
MB	50.04		COMP-001, 2, 3A, 5, 6, 7B
177107A-009	49.98		
176956-001	29.99	0270-S/M	
176961-D10	29.95		

Continued on Page



Signed

11/13

Date

Read and Understood By

168

Signed

Date

SAMPLE ID	WEIGHT (G)	ANALYSIS	COMMENTS
177048-001	29.98	BZ70	COMP ABCD
177121-001	15.04	SIM 8080 8081 ^{SFL 1/13} 8081	COMP ABUD
177121-001	29.99	SIM	↓
177130-005	50.05	TEHM	COMP 001, 002, 005, 009
177124-001	50.05	TEHM	
-002	49.96		
-003	50.01		
-004	50.03		
-005	50.00		MSD SFL 1/13
-006	49.97		
-007	49.99		
-008	50.01		MSD
-MS	49.95		177124-008
-MS	50.03		↓
-LCS	50.03		EMM 44258
-MB	50.01		↓
177118-001	49.95		
-002	49.99		
-003	49.97		

SFL 1/13

Continued on Page

Signed

1/13/05

Date

Read and Understood By

169

Signed

Date

Sample ID	Weight (g)	Analysis	Comments
MB	49.82	TEHM	EM44258
LCS	49.73		↓
MS	49.51		177118-002:C
MSD	49.70		↓
177118-002:C	50.27		MSS
176984-038:A	49.90		MSS
↓ 039 ↓	49.58		
177173-001: comp A-D	49.99		
1	50.03		
2	50.35		
3	50.19		
4	50.09		
5	49.93		
6	50.60		
7	50.13		
177174-001: comp A-D	49.93		
1	50.38		
2	49.62		
3	50.21		
4	49.68	TEHM	EM44258
177176-001: comp A-D	49.82		↓
MB	49.52		176984-038:A
LCS	49.54		↓
MS			
MSD			

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for by
Signed

15 JAN 05
Date

Read and Understood By

170

Signed

Date

Chromatogram

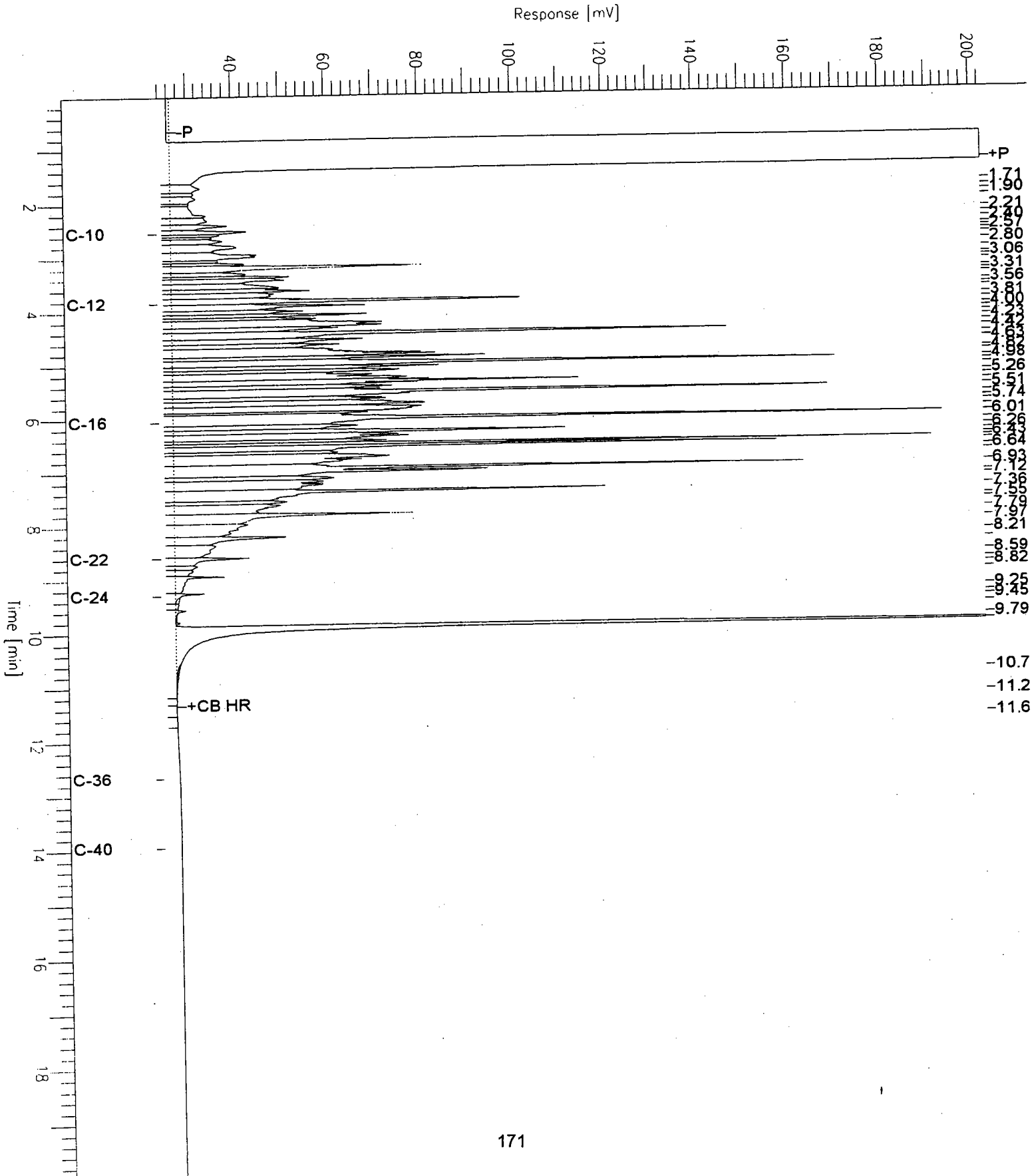
158117105

Sample Name : A,ccv,04ws2358,ds1
 FileName : G:\GC17\CHA\017A008.RAW
 Method : ATEH011.MTH
 Start Time : 0.01 min
 Scale Factor: 0.0

End Time : 19.99 min
 Plot Offset: 24 mV

Sample #: 500mg/L
 Date : 1/17/05 02:27 PM
 Time of Injection: 1/17/05 02:04 PM
 Low Point : 23.76 mV
 Plot Scale: 178.8 mV
 High Point : 202.52 mV

Page 1 of 1

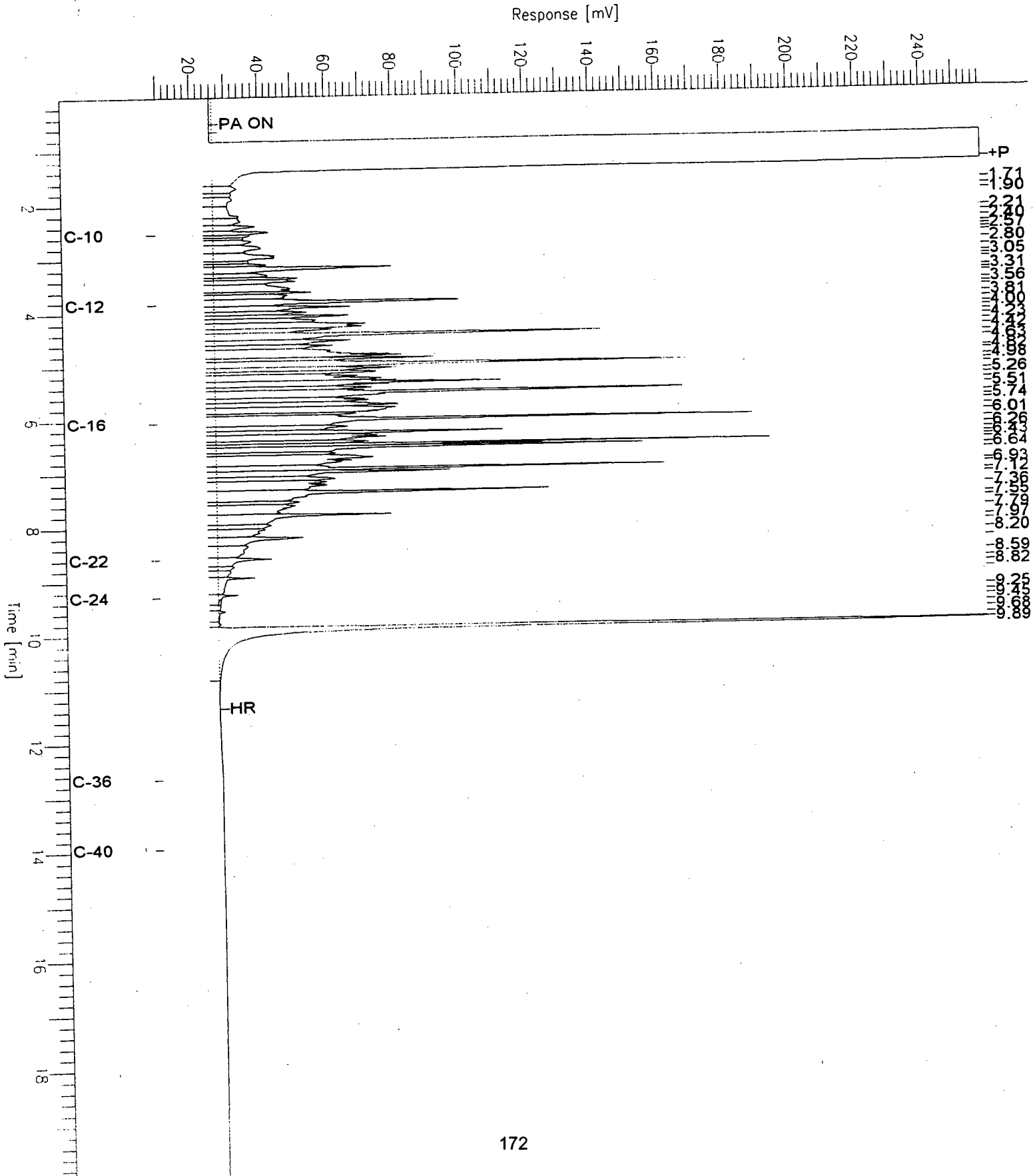


Chromatogram

Sample Name : ccv,04ws2358,ds1
 FileName : G:\GC17\CHA\017A006.RAW
 Method : ATEH011.MTH
 Start Time : 0.01 min
 Scale Factor: 0.0

End Time : 19.99 min
 Plot Offset: 10 mV

Sample #: 500mg/L
 Date : 1/17/05 01:34 PM
 Time of Injection: 1/17/05 12:56 PM
 Low Point : 9.67 mV
 Plot Scale: 248.8 mV
 High Point : 258.48 mV



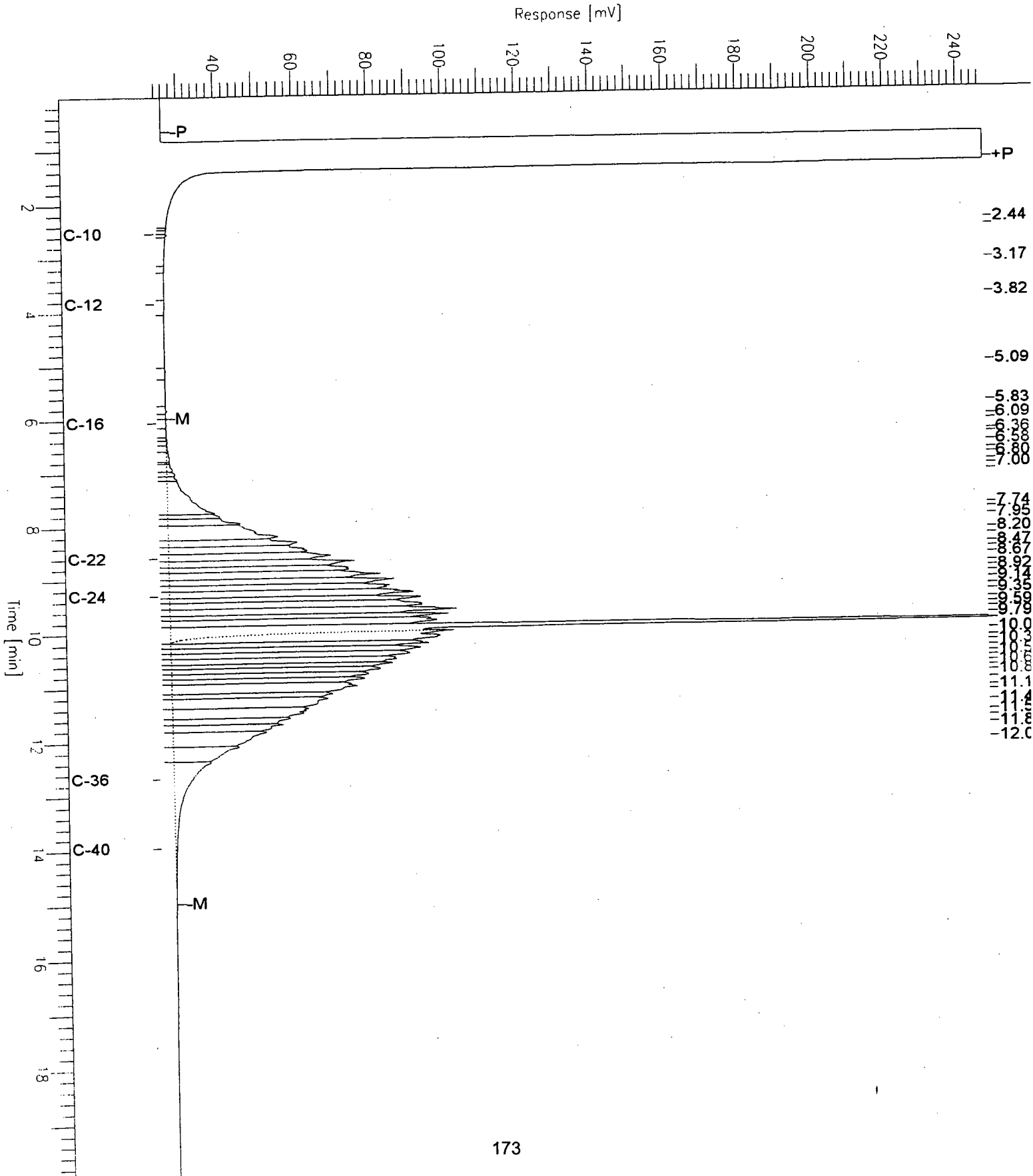
Chromatogram

Sample Name : ccv,05ws0066,mo
 FileName : G:\GC17\CHA\017A007.RAW
 Method : ATEH011.MTH
 Start Time : 0.01 min
 Scale Factor: 0.0

End Time : 19.99 min
 Plot Offset: 24 mV

Sample #: 500mg/L
 Date : 1/17/05 01:57 PM
 Time of Injection: 1/17/05 01:25 PM
 Low Point : 23.73 mV
 Plot Scale: 223.5 mV

Page 1 of 1



Volatile Organic Compounds

Purgeable Organics by GC/MS

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 5030B
Project#:	400582002	Analysis:	EPA 8260B
Field ID:	B5B-GW-1	Batch#:	98065
Lab ID:	176984-036	Sampled:	01/05/05
Matrix:	Water	Received:	01/05/05
Units:	ug/L	Analyzed:	01/06/05
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	18	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

Page 1 of 2

Purgeable Organics by GC/MS

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 5030B
Project#:	400582002	Analysis:	EPA 8260B
Field ID:	B5B-GW-1	Batch#:	98065
Lab ID:	176984-036	Sampled:	01/05/05
Matrix:	Water	Received:	01/05/05
Units:	ug/L	Analyzed:	01/06/05
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	92	80-120
1,2-Dichloroethane-d4	103	80-120
Toluene-d8	98	80-120
Bromofluorobenzene	97	80-122

ND= Not Detected
 RL= Reporting Limit
 Page 2 of 2

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 5030B
Project#:	400582002	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC278544	Batch#:	98065
Matrix:	Water	Analyzed:	01/06/05
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

Page 1 of 2

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 5030B
Project#:	400582002	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC278544	Batch#:	98065
Matrix:	Water	Analyzed:	01/06/05
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-120
1,2-Dichloroethane-d4	107	80-120
Toluene-d8	108	80-120
Bromofluorobenzene	95	80-122

ND= Not Detected

RL= Reporting Limit

Page 2 of 2

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 5030B
Project#:	400582002	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	98065
Units:	ug/L	Analyzed:	01/06/05
Diln Fac:	1.000		

Type: BS Lab ID: QC278542

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	47.29	95	75-120
Benzene	50.00	43.64	87	79-120
Trichloroethene	50.00	43.70	87	79-120
Toluene	50.00	45.54	91	80-120
Chlorobenzene	50.00	45.10	90	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-120
1,2-Dichloroethane-d4	104	80-120
Toluene-d8	103	80-120
Bromofluorobenzene	97	80-122

Type: BSD Lab ID: QC278543

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	46.55	93	75-120	2	20
Benzene	50.00	45.24	90	79-120	4	20
Trichloroethene	50.00	43.05	86	79-120	1	20
Toluene	50.00	44.84	90	80-120	2	20
Chlorobenzene	50.00	45.45	91	80-120	1	20

Surrogate	%REC	Limits
Dibromofluoromethane	90	80-120
1,2-Dichloroethane-d4	104	80-120
Toluene-d8	98	80-120
Bromofluorobenzene	91	80-122

8260W (A)
Data File: \\GCMSSERVER\DD\chem\MSV0A09.i\112104.b\IKL04.I

Date : 21-NOV-2004 15:29

Client ID: bfb tune std

Sample Info: BFB,04WS1238

Volume Injected (uL): 1.0

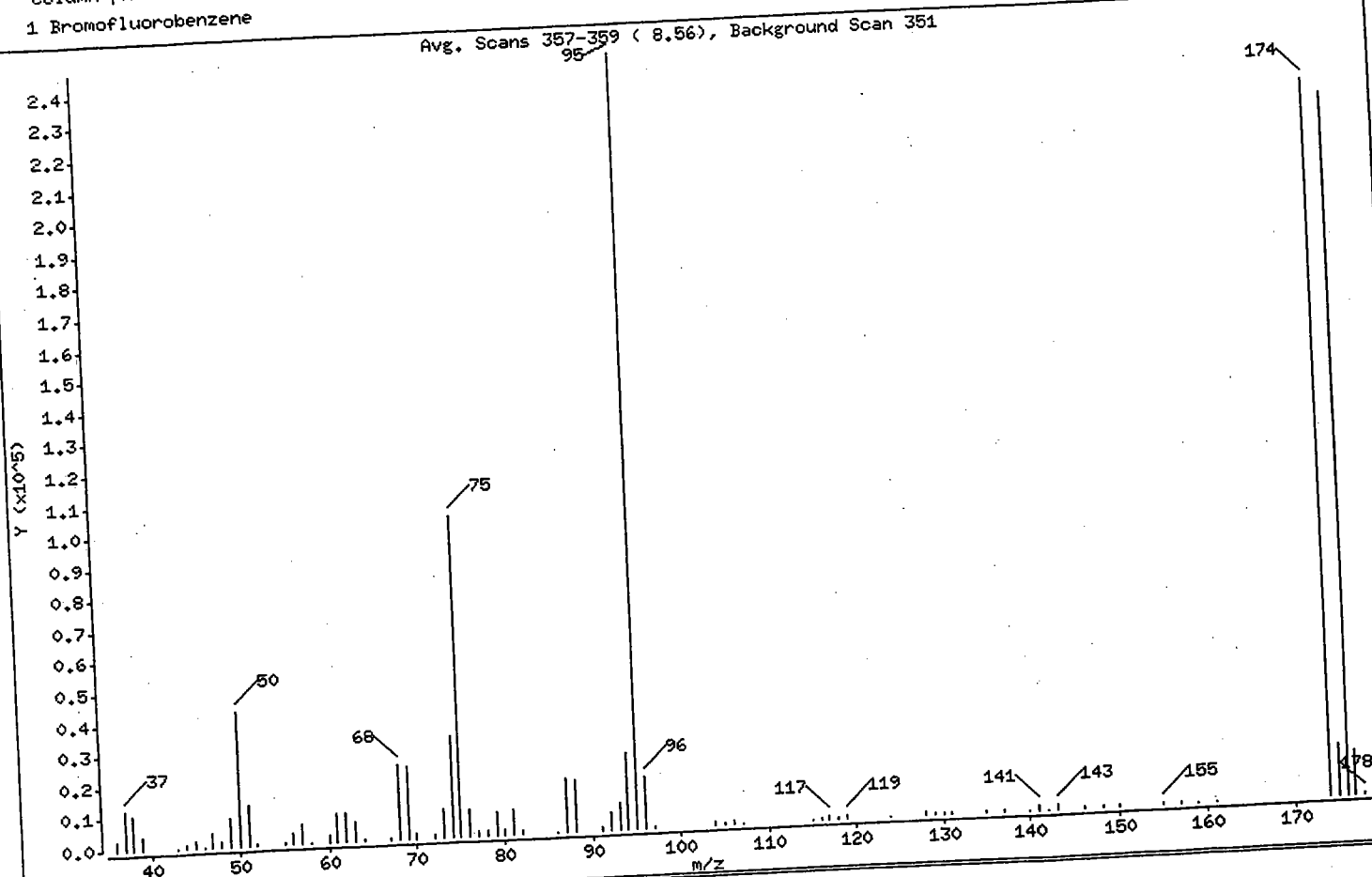
Column phase:

1 Bromofluorobenzene

Instrument: MSV0A09.i

Operator: BO

Column diameter: 2.00



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.59
75	30.00 - 60.00% of mass 95	41.55
96	5.00 - 9.00% of mass 95	6.69
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	92.38
175	5.00 - 9.00% of mass 174	6.66 (7.21)
176	95.01 - 100.99% of mass 174	90.67 (98.15)
177	5.00 - 9.00% of mass 176	5.78 (6.38)

1122607

1122604

Date : 06-JAN-2005 09:09

Client ID: bfb tune std

Instrument: MSV0A09.i

Sample Info: BFB,04MS2425

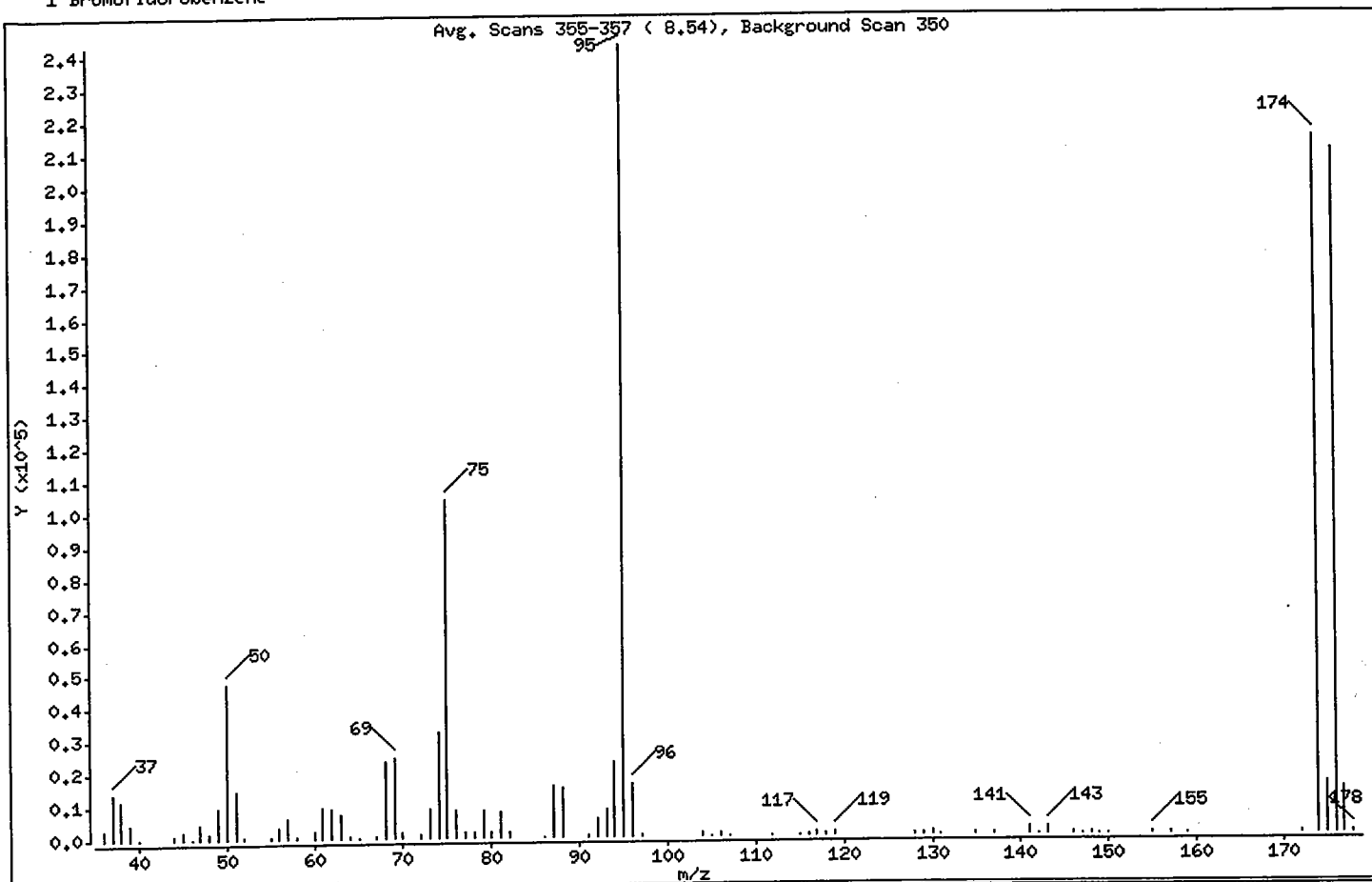
Volume Injected (uL): 1.0

Operator: BO

Column phase:

Column diameter: 2.00

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.56
75	30.00 - 60.00% of mass 95	42.86
96	5.00 - 9.00% of mass 95	6.75
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	88.11
175	5.00 - 9.00% of mass 174	6.53 (7.41)
176	95.01 - 100.99% of mass 174	86.35 (98.00)
177	5.00 - 9.00% of mass 176	5.75 (6.66)

177.5

R
2/10/05

8260W ICA
INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA09
Calnum: 484470109001

HP GCMS VOA 09
Name: I9M826W

Type: WATER

Reviewed By:
Date: 21-NOV-2004 17:13 Inj Vol (uL): 5000

Calibration levels:

Filename	Segnum	Samplenum	Analyzed	Standards
ikl07	484470109007	0.5/1PPB	21-NOV-2004 17:13	04SS393 (500000X), 04WS2167A (500000X), 04WS2204A (1000000X), 04WS2096 (5000X)
ikl08	484470109008	5PPB	21-NOV-2004 17:48	04SS393 (100000X), 04WS2167A (50000X), 04WS2204A (200000X), 04WS2096 (5000X)
ikl09	484470109009	10PPB	21-NOV-2004 18:22	04SS393 (50000X), 04WS2167A (25000X), 04WS2204A (100000X), 04WS2096 (5000X)
ikl10	484470109010	20PPB	21-NOV-2004 18:57	04SS393 (25000X), 04WS2167A (12500X), 04WS2204A (50000X), 04WS2096 (5000X)
ikl11	484470109011	50PPB	21-NOV-2004 19:31	04SS393 (10000X), 04WS2167A (5000X), 04WS2204A (20000X), 04WS2096 (5000X)
ikl12	484470109012	75PPB	21-NOV-2004 20:06	04SS393 (6667X), 04WS2167A (3333X), 04WS2204A (13333X), 04WS2096 (5000X)
ikl13	484470109013	100PPB	21-NOV-2004 20:40	04SS393 (5000X), 04WS2167A (2500X), 04WS2204A (10000X), 04WS2096 (5000X)

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	MinRF	MinR^2	MaxRSD	Flags
Freon 12	0.3466	0.4055	0.3536	0.4576	0.4435	0.4307	0.4051	AVRG	R		2.462567		ug/L	0.4061	11	0.0500	0.99	15	
Chloromethane	0.5484m	0.5383	0.5128	0.5055	0.4534	0.4412	0.4005	AVRG	R		2.058765		ug/L	0.4857	11	0.1000	0.99	15	
Vinyl Chloride	0.3204	0.3416	0.3027	0.3113	0.2726	0.2460		AVRG	R		3.343299		ug/L	0.2991	12	0.0500	0.99	15	
Bromomethane	0.2248	0.1629m	0.1701	0.1829	0.1881	0.2265	0.2287	AVRG	R		5.057831		ug/L	0.1977	14	0.0500	0.99	15	
Chloroethane	0.2144	0.2338	0.2102m	0.2281	0.2004	0.2078	0.1738	AVRG	R		4.766932		ug/L	0.2098	9	0.0500	0.99	15	
Trichlorofluoromethane	0.5056	0.5896	0.5235	0.6032	0.6174	0.6042	0.5522	AVRG	R		1.751893		ug/L	0.5708	8	0.0500	0.99	15	
Acetone		0.1415	0.1519	0.1338	0.1205	0.1244	0.1199	AVRG	R		7.575668		ug/L	0.1320	10	0.0500	0.99	15	
Freon 113	0.2973	0.3511	0.3150	0.3626	0.3517	0.3895	0.3752	AVRG	R		2.865867		ug/L	0.3489	9	0.0500	0.99	15	
1,1-Dichloroethene	0.3545	0.3681	0.3680	0.3601	0.3705	0.3995	0.3653	AVRG	R		2.706916		ug/L	0.3694	4	0.0500	0.99	15	
Methylene Chloride		0.5611	0.5690	0.5399	0.4949	0.4795	0.4396	AVRG	R		1.945558		ug/L	0.5140	10	0.0500	0.99	15	
Carbon Disulfide	1.7320	1.5661	1.5273	1.5514	1.4552	1.5154	1.4206	AVRG	R		0.650073		ug/L	1.5383	6	0.0500	0.99	15	
MTBE	0.9565	0.9604	1.0219	0.9856	0.9688	0.9433	0.9221	AVRG	R		1.035712		ug/L	0.9655	3	0.0500	0.99	15	
trans-1,2-Dichloroethene	0.4464	0.4668	0.4604	0.4343	0.4291	0.4312	0.4157	AVRG	R		2.269791		ug/L	0.4406	4	0.0500	0.99	15	
Vinyl Acetate		0.8660	0.9479	0.9904	0.9251	0.9341	0.8089	AVRG	R		1.096411		ug/L	0.9121	7	0.0500	0.99	15	
1,1-Dichloroethane	0.9195	0.8731	0.9210	0.8711	0.8264	0.8101	0.7369	AVRG	R		1.174847		ug/L	0.8512	8	0.1000	0.99	15	
2-Butanone		0.2068	0.2261	0.2153	0.2074	0.2185	0.1955	AVRG	R		4.726073		ug/L	0.2116	5	0.0500	0.99	15	
2,2-Dichloropropane	0.5245	0.5501	0.5178	0.5536	0.5089	0.5043	0.4834	AVRG	R		1.921712		ug/L	0.5204	5	0.0500	0.99	15	
cis-1,2-Dichloroethene	0.5041	0.5181	0.5111	0.5314	0.4743	0.4600	0.4470	AVRG	R		2.031355		ug/L	0.4923	6	0.0500	0.99	15	

Flags used: m=manual integration for incomplete integration in Target

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

Page 1 of 3

* ICA - OK

- VC to 75ppb

- 3rd con missing for 1112 PCE, Brfm @ 0.5 ppb

* ICA - Fr126, 2CLEVEL, USMS - CIME, CS26

#0111226-1

[Handwritten signature]
11/22/04

8260 W 104E
INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA09
Calnum: 484470109001

HP GCMS VOA 09
Name: I9M826W

Type: WATER

Reviewed By:
Date: 21-NOV-2004 17:13 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type X	a0	a1	a2	units	avg	%RSD	MinRF	MnR^2	MxRSD	Flags
Chloroform	0.9907	0.8460	0.8917	0.8643	0.8197	0.7833	0.7296	AVRG R		1.181367		ug/L	0.8465	10	0.0500	0.99	15	
Bromochloromethane	0.3065	0.2985	0.3178	0.3067	0.3046	0.2945	0.2876	AVRG R		3.308051		ug/L	0.3023	3	0.0500	0.99	15	
1,1,1-Trichloroethane	0.5242	0.5224	0.5238	0.5587	0.5323	0.5539	0.5280	AVRG R		1.870007		ug/L	0.5348	3	0.0500	0.99	15	
1,1-Dichloropropene	0.3357	0.3581	0.3574	0.3372	0.3733	0.3941	0.3698	AVRG R		2.771765		ug/L	0.3608	6	0.0500	0.99	15	
Carbon Tetrachloride	0.2723	0.3038	0.3023	0.3101	0.3213	0.3616	0.3459	AVRG R		3.157021		ug/L	0.3168	9	0.0500	0.99	15	
1,2-Dichloroethane	0.3168	0.3641	0.3794	0.3621	0.3633	0.3601	0.3499	AVRG R		2.804995		ug/L	0.3565	5	0.0500	0.99	15	
Benzene	1.0877	1.1446	1.1555	0.9874	1.0001	1.0415	1.0109	AVRG R		0.942433		ug/L	1.0611	7	0.0500	0.99	15	
Trichloroethene	0.3072	0.3218	0.3143	0.3112	0.3000	0.3282	0.3042	AVRG R		3.200784		ug/L	0.3124	3	0.0500	0.99	15	
1,2-Dichloropropane	0.3317	0.3300	0.3432	0.3162	0.3241	0.3281	0.3185	AVRG R		3.054457		ug/L	0.3274	3	0.0500	0.99	15	
Bromodichloromethane	0.3630	0.4034	0.4243	0.4013	0.3967	0.4170	0.3897	AVRG R		2.504170		ug/L	0.3993	5	0.0500	0.99	15	
Dibromomethane	0.2540	0.2610	0.2754	0.2596	0.2733	0.2791	0.2619	AVRG R		3.754973		ug/L	0.2663	4	0.0500	0.99	15	
2-Chloroethylvinylether		0.1921	0.2233	0.2062	0.2079	0.2298	0.2211	AVRG R		4.686068		ug/L	0.2134	7	0.0500	0.99	15	
4-Methyl-2-Pentanone		0.2699	0.3085	0.2956	0.3043	0.2988	0.2836	AVRG R		3.407925		ug/L	0.2934	5	0.0500	0.99	15	
Tetra methyl THF	0.5536	0.6152	0.6232	0.5813	0.6045	0.6330	0.5561	AVRG R		1.679959		ug/L	0.5953	5	0.0500	0.99	15	
cis-1,3-Dichloropropene	0.4405	0.4796	0.5050	0.4627	0.4942	0.5076	0.4632	AVRG R		2.087857		ug/L	0.4790	5	0.0500	0.99	15	
Toluene	0.5994	0.6456	0.6540	0.5870	0.5664	0.6386	0.5759	AVRG R		1.640569		ug/L	0.6095	6	0.0500	0.99	15	
trans-1,3-Dichloropropene	0.3536	0.3930	0.4180	0.4129	0.4241	0.4395	0.4140	AVRG R		2.451788		ug/L	0.4079	7	0.0500	0.99	15	
1,1,2-Trichloroethane	0.1502	0.1732	0.1785	0.1681	0.1691	0.1728	0.1670	AVRG R		5.937881		ug/L	0.1684	5	0.0500	0.99	15	
2-Hexanone		0.2283	0.2414	0.2373	0.2437	0.2361	0.2492	AVRG R		4.178095		ug/L	0.2393	3	0.0500	0.99	15	
1,3-Dichloropropane	0.5071	0.5642	0.5605	0.5175	0.5426	0.5067	0.5438	AVRG R		1.870426		ug/L	0.5346	5	0.0500	0.99	15	
Tetrachloroethene	0.3265	0.3480	0.3166	0.3222	0.3559	0.3604	0.3508	AVRG R		2.940669		ug/L	0.3401	5	0.0500	0.99	15	
Dibromochloromethane	0.3884	0.4493	0.4800	0.4390	0.4407	0.4657	0.4735	AVRG R		2.231663		ug/L	0.4481	7	0.0500	0.99	15	
1,2-Dibromoethane	0.3035	0.3378	0.3545	0.3309	0.3492	0.3527	0.3398	AVRG R		2.955571		ug/L	0.3383	5	0.0500	0.99	15	
Chlorobenzene	0.9385	0.9416	1.0128	0.8793	0.8825	0.8822	0.9181	AVRG R		1.084424		ug/L	0.9221	5	0.3000	0.99	15	
1,1,1,2-Tetrachloroethane	0.3190	0.3485	0.3530	0.3274	0.3480	0.3346	0.3514	AVRG R		2.938637		ug/L	0.3403	4	0.0500	0.99	15	
Ethylbenzene	1.4301	1.5492	1.3938	1.3886	1.4299	1.4249	1.4994	AVRG R		0.691979		ug/L	1.4451	4	0.0500	0.99	15	
m,p-Xylenes	0.5028	0.5501	0.5368	0.5435	0.5305	0.5225	0.4894	AVRG R		1.904483		ug/L	0.5251	4	0.0500	0.99	15	
o-Xylene	0.4605	0.5379	0.5327	0.5150	0.5362	0.5203	0.5009	AVRG R		1.942542		ug/L	0.5148	5	0.0500	0.99	15	
Styrene	0.7518	0.8984	0.9149	0.8701	0.9065	0.9272	0.8768	AVRG R		1.139001		ug/L	0.8780	7	0.0500	0.99	15	
Bromoform	0.2995	0.2967	0.3256	0.2983	0.3318	0.3353	0.3490	AVRG R		3.130149		ug/L	0.3195	7	0.1000	0.99	15	
Isopropylbenzene	2.2208	2.4894	2.6693	2.6839	2.8030	2.6082	2.5232	AVRG R		0.388938		ug/L	2.5711	7	0.0500	0.99	15	

Flags used: m=manual integration

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

8260W 1CAL
INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSVOA09
Calnum: 484470109001

HP GCMS VOA 09
Name: I9M826W

Type: WATER

Reviewed By:
Date: 21-NOV-2004 17:13 Inj Vol (uL): 5000

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	MinRF	MinR^2	MaxRSD	Flags
1,1,2,2-Tetrachloroethane	0.9305	0.9460	1.1377	1.0030	1.0039	0.9633	0.9524	AVRG	R		1.009114		ug/L	0.9910	7	0.3000	0.99	15	
1,2,3-Trichloropropane	0.1389	0.1895	0.2166	0.1950	0.2119	0.1981	0.1924	AVRG	R		5.214289		ug/L	0.1918	13	0.0500	0.99	15	
Propylbenzene	3.4457	3.2925	3.7549	3.3437	3.5112	3.3981	3.1255	AVRG	R		0.293234		ug/L	3.4102	6	0.0500	0.99	15	
Bromobenzene	0.8299	0.8606	0.9918	0.8806	0.9081	0.8478	0.8328	AVRG	R		1.137910		ug/L	0.8788	6	0.0500	0.99	15	
1,3,5-Trimethylbenzene	1.9507	2.0972	2.2964	2.1085	2.1821	2.2156	1.8901	AVRG	R		0.474880		ug/L	2.1058	7	0.0500	0.99	15	
2-Chlorotoluene	2.2887	2.2410	2.4560	2.2156	2.2587	2.2358	1.9520	AVRG	R		0.447346		ug/L	2.2354	7	0.0500	0.99	15	
4-Chlorotoluene	2.2614	2.1124	2.2806	2.2075	2.1232	2.0043	1.9576	AVRG	R		0.468320		ug/L	2.1353	6	0.0500	0.99	15	
tert-Butylbenzene	1.5974	1.7573	2.0089	1.8438	1.9092	1.9928	1.6487	AVRG	R		0.548682		ug/L	1.8225	9	0.0500	0.99	15	
1,2,4-Trimethylbenzene	2.0771	2.0797	2.4881	2.2768	2.2595	2.2572	2.0753	AVRG	R		0.451213		ug/L	2.2162	7	0.0500	0.99	15	
sec-Butylbenzene	2.8263	2.7139	3.0628	2.8934	3.1218	3.1578	3.0173	AVRG	R		0.336647		ug/L	2.9705	6	0.0500	0.99	15	
para-Isopropyl Toluene	1.9391	2.2518	2.4399	2.2911	2.2697	2.3610	2.2380	AVRG	R		0.443302		ug/L	2.2558	7	0.0500	0.99	15	
1,3-Dichlorobenzene	1.2658	1.4347	1.7114	1.5203	1.4743	1.5399	1.4712	AVRG	R		0.671935		ug/L	1.4882	9	0.0500	0.99	15	
1,4-Dichlorobenzene	1.5502	1.5115	1.6722	1.5494	1.5839	1.6216	1.4598	AVRG	R		0.639348		ug/L	1.5641	4	0.0500	0.99	15	
n-Butylbenzene	2.0251	2.1813	2.4483	2.4251	2.3584	2.3883	2.2775	AVRG	R		0.434674		ug/L	2.3006	7	0.0500	0.99	15	
1,2-Dichlorobenzene	1.4451	1.3633	1.6336	1.3762	1.5231	1.4940	1.4377	AVRG	R		0.681396		ug/L	1.4676	6	0.0500	0.99	15	
1,2-Dibromo-3-Chloropropane	0.0953	0.1193	0.1428	0.1377	0.1488	0.1391	0.1323	AVRG	R		7.647665		ug/L	0.1308	14	0.0500	0.99	15	
1,2,4-Trichlorobenzene	0.8462	0.8671	1.0344	0.9171	1.0210	1.0173	0.9572	AVRG	R		1.050993		ug/L	0.9515	8	0.0500	0.99	15	
Hexachlorobutadiene	0.3535	0.3841	0.4334	0.4041	0.4384	0.4517	0.4195	AVRG	R		2.426477		ug/L	0.4121	8	0.0500	0.99	15	
Naphthalene	1.8382	1.6841	2.1415	2.1680	2.2262	2.2561	2.0834	AVRG	R		0.486198		ug/L	2.0568	10	0.0500	0.99	15	
1,2,3-Trichlorobenzene	0.8014	0.7936	0.9469	0.8960	0.9466	0.9027	0.8727	AVRG	R		1.136388		ug/L	0.8800	7	0.0500	0.99	15	
Dibromofluoromethane	0.6915	0.6771	0.6642	0.6832	0.6662	0.6947	0.6456	AVRG	R		1.482274		ug/L	0.6746	3	0.0500	0.99	15	
1,2-Dichloroethane-d4	0.3456	0.3636	0.3813	0.3627	0.3774	0.3891	0.3655	AVRG	R		2.707833		ug/L	0.3693	4	0.0500	0.99	15	
Trifluorotoluene	0.3499	0.3520	0.3460	0.3534	0.3826	0.4201	0.3954	AVRG	R		2.693045		ug/L	0.3713	8	0.0500	0.99	15	
Toluene-d8	0.9290	0.9134	0.9522	0.9361	0.9328	0.9926	1.0014	AVRG	R		1.051440		ug/L	0.9511	4	0.0500	0.99	15	
Bromofluorobenzene	0.9657	0.8986	1.0247	0.9486	1.0281	0.9739	0.9378	AVRG	R		1.032868		ug/L	0.9682	5	0.0500	0.99	15	

Flags used: m=manual integration

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

8260W ICA
SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA09 Run Name : 50PPB
 Segnum : 484470109014 Filename : ikl114 Injected : 21-NOV-2004 21:19
 Calnum : 484470109001 Caldate : 21-NOV-2004 Caltype : WATER
 Standards: 04WS2093C (5000X), 04WS2096 (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Freon 12	50.00000	34.38790	ug/L	-31	30	v- ***
Chloromethane	50.00000	37.86670	ug/L	-24	30	!v-
Vinyl Chloride	50.00000	43.13430	ug/L	-14	20	
Bromomethane	50.00000	56.91600	ug/L	14	30	
Chloroethane	50.00000	45.20230	ug/L	-10	30	
Trichlorofluoromethane	50.00000	46.64910	ug/L	-7	30	
Dibromofluoromethane	50.00000	44.08790	ug/L	-12	30	
1,2-Dichloroethane-d4	50.00000	48.18530	ug/L	-4	30	
Toluene-d8	50.00000	48.99340	ug/L	-2	30	
Bromofluorobenzene	50.00000	47.75320	ug/L	-4	30	

ISTD (ICAL=ikl11)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	992759	1014578	2.20	9.03	9.02	-0.01
1,4-Difluorobenzene	1488261	1494029	0.39	10.46	10.46	0.00
Chlorobenzene-d5	1198447	1206472	0.67	15.39	15.39	0.00
1,4-Dichlorobenzene-d4	568204	600946	5.76	19.69	19.69	0.00

11/22/04

11/22/04

!=warning -=low bias v=ICV

Page 1 of 1

8260 w 10e
SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA09 Run Name : 50PPB
 Seqnum : 484470109015 Filename : ik115 Injected : 21-NOV-2004 21:54
 Calnum : 484470109001 Caldate : 21-NOV-2004 Caltype : WATER
 Standards: 04WS1939B (5000X), 04WS1940D (5000X), 04WS2096 (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max Flags
Acetone	50.00000	44.59970	ug/L	-11	40
Freon 113	50.00000	52.27680	ug/L	5	30
1,1-Dichloroethene	50.00000	44.05450	ug/L	-12	20
Methylene Chloride	50.00000	41.68240	ug/L	-17	30
Carbon Disulfide	50.00000	36.01470	ug/L	-28	30 !v-
MTBE	50.00000	49.11350	ug/L	-2	30
trans-1,2-Dichloroethene	50.00000	44.12140	ug/L	-12	30
Vinyl Acetate	50.00000	44.10440	ug/L	-12	40
1,1-Dichloroethane	50.00000	42.86250	ug/L	-14	30
2-Butanone	50.00000	46.86130	ug/L	-6	40
2,2-Dichloropropane	50.00000	42.79560	ug/L	-14	30
cis-1,2-Dichloroethene	50.00000	44.58400	ug/L	-11	30
Chloroform	50.00000	40.71470	ug/L	-19	20
Bromochloromethane	50.00000	44.24340	ug/L	-12	30
1,1,1-Trichloroethane	50.00000	46.64680	ug/L	-7	30
1,1-Dichloropropene	50.00000	48.28790	ug/L	-3	30
Carbon Tetrachloride	50.00000	52.61100	ug/L	5	30
1,2-Dichloroethane	50.00000	45.94130	ug/L	-8	30
Benzene	50.00000	49.45180	ug/L	-1	30
Trichloroethene	50.00000	49.55640	ug/L	-1	30
1,2-Dichloropropane	50.00000	48.86640	ug/L	-2	20
Bromodichloromethane	50.00000	48.91790	ug/L	-2	30
Dibromomethane	50.00000	49.26520	ug/L	-1	30
2-Chloroethylvinylether	50.00000	15.98140	ug/L	-68	40 v- ***
4-Methyl-2-Pentanone	50.00000	50.90330	ug/L	2	40
Tetramethyl THF	50.00000	49.03710	ug/L	-2	30
cis-1,3-Dichloropropene	50.00000	48.98030	ug/L	-2	30
Toluene	50.00000	50.66520	ug/L	1	20
trans-1,3-Dichloropropene	50.00000	47.59550	ug/L	-5	30
1,1,2-Trichloroethane	50.00000	53.18380	ug/L	6	30
2-Hexanone	50.00000	51.15600	ug/L	2	40
1,3-Dichloropropane	50.00000	43.85980	ug/L	-12	30
Tetrachloroethene	50.00000	49.36900	ug/L	-1	30
Dibromochloromethane	50.00000	47.64990	ug/L	-5	30
1,2-Dibromoethane	50.00000	50.73340	ug/L	1	30
Chlorobenzene	50.00000	45.07780	ug/L	-10	30
1,1,1,2-Tetrachloroethane	50.00000	47.30650	ug/L	-5	30
Ethylbenzene	50.00000	47.99840	ug/L	-4	20
m,p-Xylenes	100.0000	92.15590	ug/L	-8	30
o-Xylene	50.00000	44.78060	ug/L	-10	30
Styrene	50.00000	47.16190	ug/L	-6	30
Bromoform	50.00000	48.96620	ug/L	-2	30
Isopropylbenzene	50.00000	43.46750	ug/L	-13	30
1,1,2,2-Tetrachloroethane	50.00000	45.24820	ug/L	-10	30
1,2,3-Trichloropropane	50.00000	45.77170	ug/L	-8	30
Propylbenzene	50.00000	48.14630	ug/L	-4	30
Bromobenzene	50.00000	49.60180	ug/L	-1	30

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Page 1 of 2

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SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSVOA09 Run Name : 50PPB
 Seqnum : 484470109015 Filename : ik115 Injected : 21-NOV-2004 21:54
 Calnum : 484470109001 Caldate : 21-NOV-2004 Caltype : WATER
 Standards: 04WS1939B (5000X), 04WS1940D (5000X), 04WS2096 (5000X)

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
1,3,5-Trimethylbenzene	50.00000	48.55720	ug/L	-3	30	
2-Chlorotoluene	50.00000	45.52670	ug/L	-9	30	
4-Chlorotoluene	50.00000	46.73920	ug/L	-7	30	
tert-Butylbenzene	50.00000	47.08890	ug/L	-6	30	
1,2,4-Trimethylbenzene	50.00000	47.63740	ug/L	-5	30	
sec-Butylbenzene	50.00000	46.39300	ug/L	-7	30	
para-Isopropyl Toluene	50.00000	45.37760	ug/L	-9	30	
1,3-Dichlorobenzene	50.00000	47.82840	ug/L	-4	30	
1,4-Dichlorobenzene	50.00000	45.70340	ug/L	-9	30	
n-Butylbenzene	50.00000	49.55680	ug/L	-1	30	
1,2-Dichlorobenzene	50.00000	47.21460	ug/L	-6	30	
1,2-Dibromo-3-Chloropropane	50.00000	48.61860	ug/L	-3	30	
1,2,4-Trichlorobenzene	50.00000	50.59590	ug/L	1	30	
Hexachlorobutadiene	50.00000	52.53790	ug/L	5	30	
Naphthalene	50.00000	46.10110	ug/L	-8	30	
1,2,3-Trichlorobenzene	50.00000	50.61160	ug/L	1	30	
Dibromofluoromethane	50.00000	45.18460	ug/L	-10	30	(NOT USED)
1,2-Dichloroethane-d4	50.00000	47.15140	ug/L	-6	30	(NOT USED)
Toluene-d8	50.00000	51.34820	ug/L	3	30	(NOT USED)
Bromofluorobenzene	50.00000	48.96160	ug/L	-2	30	(NOT USED)

ISTD (ICAL=ik111)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	992759	1034484	4.20	9.03	9.02	-0.01
1,4-Difluorobenzene	1488261	1417615	-4.75	10.46	10.46	0.00
Chlorobenzene-d5	1198447	1227374	2.41	15.39	15.38	-0.01
1,4-Dichlorobenzene-d4	568204	589573	3.76	19.69	19.68	-0.01

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA09 Run Name : 25PPB IDF : 1.0
Seqnum : 485009155003 Filename : ia603 Injected : 06-JAN-2005 09:26
Calnum : 484470109001 Caldate : 21-NOV-2004 Caltype : WATER
Standards: 04SS451 (20000X), 04WS2167C (10000X), 04WS2421A (40000X), 04WS2343 (5000X)

Analyte	Avg		SpkAmt	QuantAmt	Units	%D Max	%D Min	RF	Flags
	RF/CF	RF/CF							
Freon 12	0.4061	0.4774	25.00000	29.39010	ug/L	18	30	0.0500	
Chloromethane	0.4857	0.3748	25.00000	19.29000	ug/L	-23	30	0.1000	!c-
Vinyl Chloride	0.2991	0.3326	25.00000	27.80210	ug/L	11	20	0.0500	
Bromomethane	0.1977	0.0878	25.00000	11.10160	ug/L	-56	30	0.0500	c- ***
Chloroethane	0.2098	0.2410	25.00000	28.72000	ug/L	15	30	0.0500	
Trichlorofluoromethane	0.5708	0.6219	25.00000	27.23770	ug/L	9	30	0.0500	
Acetone	0.1320	0.1574	25.00000	29.80810	ug/L	19	40	0.0500	
Freon 113	0.3489	0.3745	25.00000	26.83390	ug/L	7	30	0.0500	
1,1-Dichloroethene	0.3694	0.3695	25.00000	25.00430	ug/L	0	20	0.0500	
Methylene Chloride	0.5140	0.4932	25.00000	23.98670	ug/L	-4	30	0.0500	
Carbon Disulfide	1.5383	1.4857	25.00000	24.14530	ug/L	-3	30	0.0500	
MTBE	0.9655	0.8830	25.00000	22.86230	ug/L	-9	30	0.0500	
trans-1,2-Dichloroethene	0.4406	0.4291	25.00000	24.34690	ug/L	-3	30	0.0500	
Vinyl Acetate	0.9121	0.8406	25.00000	23.04030	ug/L	-8	40	0.0500	
1,1-Dichloroethane	0.8512	0.8065	25.00000	23.68780	ug/L	-5	30	0.1000	
2-Butanone	0.2116	0.2049	25.00000	24.21270	ug/L	-3	40	0.0500	
2,2-Dichloropropane	0.5204	0.5376	25.00000	25.82790	ug/L	3	30	0.0500	
cis-1,2-Dichloroethene	0.4923	0.4493	25.00000	22.81840	ug/L	-9	30	0.0500	
Chloroform	0.8465	0.7944	25.00000	23.46280	ug/L	-6	20	0.0500	
Bromochloromethane	0.3023	0.2904	25.00000	24.01350	ug/L	-4	30	0.0500	
1,1,1-Trichloroethane	0.5348	0.5774	25.00000	26.99310	ug/L	8	30	0.0500	
1,1-Dichloropropene	0.3608	0.3696	25.00000	25.60870	ug/L	2	30	0.0500	
Carbon Tetrachloride	0.3168	0.3399	25.00000	26.82700	ug/L	7	30	0.0500	
1,2-Dichloroethane	0.3565	0.3864	25.00000	27.09360	ug/L	8	30	0.0500	
Benzene	1.0611	1.0284	25.00000	24.23080	ug/L	-3	30	0.0500	
Trichloroethene	0.3124	0.3090	25.00000	24.72510	ug/L	-1	30	0.0500	
1,2-Dichloropropane	0.3274	0.3254	25.00000	24.84980	ug/L	-1	20	0.0500	
Bromodichloromethane	0.3993	0.4078	25.00000	25.53190	ug/L	2	30	0.0500	
Dibromomethane	0.2663	0.2660	25.00000	24.96870	ug/L	0	30	0.0500	
2-Chloroethylvinylether	0.2134	0.1835	25.00000	21.49690	ug/L	-14	40	0.0500	
4-Methyl-2-Pentanone	0.2934	0.2596	25.00000	22.11830	ug/L	-12	40	0.0500	
Tetramethyl THF	0.5953	0.5729	25.00000	24.06220	ug/L	-4	30	0.0500	
cis-1,3-Dichloropropene	0.4790	0.4626	25.00000	24.14760	ug/L	-3	30	0.0500	
Toluene	0.6095	0.5755	25.00000	23.60510	ug/L	-6	20	0.0500	
trans-1,3-Dichloropropene	0.4079	0.4352	25.00000	26.67660	ug/L	7	30	0.0500	
1,1,2-Trichloroethane	0.1684	0.1618	25.00000	24.01930	ug/L	-4	30	0.0500	
2-Hexanone	0.2393	0.2324	25.00000	24.27740	ug/L	-3	40	0.0500	
1,3-Dichloropropane	0.5346	0.5090	25.00000	23.79960	ug/L	-5	30	0.0500	
Tetrachloroethene	0.3401	0.3547	25.00000	26.07970	ug/L	4	30	0.0500	
Dibromochloromethane	0.4481	0.4491	25.00000	25.05340	ug/L	0	30	0.0500	
1,2-Dibromoethane	0.3383	0.3311	25.00000	24.46430	ug/L	-2	30	0.0500	
Chlorobenzene	0.9221	0.9145	25.00000	24.79250	ug/L	-1	30	0.3000	
1,1,1,2-Tetrachloroethane	0.3403	0.3540	25.00000	26.00650	ug/L	4	30	0.0500	
Ethylbenzene	1.4451	1.4503	25.00000	25.08900	ug/L	0	20	0.0500	
m,p-Xylenes	0.5251	0.5612	50.00000	53.43750	ug/L	7	30	0.0500	
o-Xylene	0.5148	0.5241	25.00000	25.45370	ug/L	2	30	0.0500	

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Page 1 of 2

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CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSVOA09 Run Name : 25PPB IDF : 1.0
 Seqnum : 485009155003 Filename : ia603 Injected : 06-JAN-2005 09:26
 Calnum : 484470109001 Caldate : 21-NOV-2004 Caltype : WATER
 Standards: 04SS451 (20000X), 04WS2167C (10000X), 04WS2421A (40000X), 04WS2343 (5000X)

Analyte	Avg		SpkAmt	QuantAmt	Units	%D Max	%D Min	RF	Flags
	RF/CF	RF/CF							
Styrene	0.8780	0.8853	25.00000	25.20950	ug/L	1	30	0.0500	
Bromoform	0.3195	0.3164	25.00000	24.75960	ug/L	-1	30	0.1000	
Isopropylbenzene	2.5711	2.4572	25.00000	23.89240	ug/L	-4	30	0.0500	
1,1,2,2-Tetrachloroethane	0.9910	0.8974	25.00000	22.64010	ug/L	-9	30	0.3000	
1,2,3-Trichloropropane	0.1918	0.1839	25.00000	23.97170	ug/L	-4	30	0.0500	
Propylbenzene	3.4102	3.1710	25.00000	23.24650	ug/L	-7	30	0.0500	
Bromobenzene	0.8788	0.7984	25.00000	22.71270	ug/L	-9	30	0.0500	
1,3,5-Trimethylbenzene	2.1058	2.1679	25.00000	25.73720	ug/L	3	30	0.0500	
2-Chlorotoluene	2.2354	1.9157	25.00000	21.42480	ug/L	-14	30	0.0500	
4-Chlorotoluene	2.1353	1.9157	25.00000	22.42930	ug/L	-10	30	0.0500	
tert-Butylbenzene	1.8225	2.0171	25.00000	27.66890	ug/L	11	30	0.0500	
1,2,4-Trimethylbenzene	2.2162	2.0294	25.00000	22.89260	ug/L	-8	30	0.0500	
sec-Butylbenzene	2.9705	2.9182	25.00000	24.56000	ug/L	-2	30	0.0500	
para-Isopropyl Toluene	2.2558	2.1716	25.00000	24.06700	ug/L	-4	30	0.0500	
1,3-Dichlorobenzene	1.4882	1.5059	25.00000	25.29600	ug/L	1	30	0.0500	
1,4-Dichlorobenzene	1.5641	1.5267	25.00000	24.40250	ug/L	-2	30	0.0500	
n-Butylbenzene	2.3006	2.1695	25.00000	23.57560	ug/L	-6	30	0.0500	
1,2-Dichlorobenzene	1.4676	1.3631	25.00000	23.22120	ug/L	-7	30	0.0500	
1,2-Dibromo-3-Chloropropane	0.1308	0.1179	25.00000	22.54670	ug/L	-10	30	0.0500	
1,2,4-Trichlorobenzene	0.9515	0.9245	25.00000	24.29190	ug/L	-3	30	0.0500	
Hexachlorobutadiene	0.4121	0.4237	25.00000	25.70010	ug/L	3	30	0.0500	
Naphthalene	2.0568	1.8317	25.00000	22.26390	ug/L	-11	30	0.0500	
1,2,3-Trichlorobenzene	0.8800	0.8931	25.00000	25.37240	ug/L	1	30	0.0500	
Dibromofluoromethane	0.6746	0.6527	50.00000	48.37140	ug/L	-3	30	0.0500	
1,2-Dichloroethane-d4	0.3693	0.3792	50.00000	51.33390	ug/L	3	30	0.0500	
Trifluorotoluene	0.3713	0.3776	25.00000	25.42000	ug/L	2	30	0.0500	
Toluene-d8	0.9511	0.9345	50.00000	49.12730	ug/L	-2	30	0.0500	
Bromofluorobenzene	0.9682	0.9223	50.00000	47.63090	ug/L	-5	30	0.0500	

ISTD (ICAL=1kl11)	ICAL Area	Area	%Diff	ICAL RT	RT	Diff
Pentafluorobenzene	992759	1068776	7.66	9.03	9.01	-0.02
1,4-Difluorobenzene	1488261	1602241	7.66	10.46	10.44	-0.02
Chlorobenzene-d5	1198447	1276515	6.51	15.39	15.37	-0.02
1,4-Dichlorobenzene-d4	568204	670007	17.92	19.69	19.67	-0.02

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Page 2 of 2

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 06-JAN-2005
Sequence: 485009155 (ia6)
Instrument ID: MSVOA09

ICAL Filename: ik111
Date Analyzed: 21-NOV-2004
Time Analyzed: 19:31

	IS1 (PFLBZ)	IS2 (14DFB)	IS3 (CLBZD5)	IS4 (DCBZ14D4)
	READING RT	READING RT	READING RT	READING RT
ICAL STD	992759 9.03	1488261 10.46	1198447 15.39	568204 19.69
LOWER LIMIT	496380 8.53	744131 9.96	599224 14.89	284102 19.19
UPPER LIMIT	1985518 9.53	2976522 10.96	2396894 15.89	1136408 20.19

TYPE	SAMPLE	#								
CCV	25PPB	003	1068776	9.01	1602241	10.44	1276515	15.37	670007	19.67
BS	QC278542	004	1138071	9.01	1738939	10.45	1392917	15.38	675272	19.67
BSD	QC278543	005	1166373	9.01	1701552	10.44	1310811	15.37	696297	19.67
BLANK	QC278544	007	1115473	9.01	1593172	10.45	1265630	15.38	655461	19.67
SAMPLE	176963-001	008	1099071	9.02	1625978	10.45	1309312	15.38	644705	19.68
SAMPLE	176959-006	009	1090519	9.01	1552653	10.45	1303865	15.38	665133	19.67
SAMPLE	176959-008	010	1093771	9.02	1513557	10.46	1315107	15.38	631393	19.68
SAMPLE	176968-001	011	1056956	9.03	1580388	10.46	1271895	15.39	628706	19.69
SAMPLE	176972-001	012	1090025	9.02	1591219	10.46	1247564	15.38	574190	19.68
SAMPLE	176963-002	013	1085402	9.03	1564959	10.47	1287907	15.39	630926	19.68
SAMPLE	176976-001	014	1018800	9.02	1582211	10.47	1198576	15.39	515044	19.69
SAMPLE	176984-036	015	1112505	9.03	1558231	10.47	1263199	15.40	607533	19.69
SAMPLE	176959-005	016	1060995	9.03	1549324	10.47	1234831	15.40	632265	19.69
SAMPLE	176959-007	017	1088050	9.03	1593443	10.46	1228952	15.39	610036	19.69
SAMPLE	176970-001	018	1029498	9.03	1635395	10.47	1282798	15.40	633499	19.69
SAMPLE	176970-002	019	1299739	9.03	1797701	10.47	1398615	15.39	682917	19.69
SAMPLE	176941-001	020	1217327	9.04	1753449	10.48	1350149	15.40	694135	19.70

8260 W ICAL
SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 21-NOV-2004

Sequence: 484470109 Instrument: MSVOA09
Analytical Method: EPA 8260B

HP GCMS VOA 09
SOP Version: 8260B_rv4

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IOC	SPK	uL	VL	pH	Stds	Used	>LR
001	ikl01	X	IB			21-NOV-2004 11:09	1.0						1		
002	ikl02	X	LOW PT			21-NOV-2004 12:00	1.0						1		
003	ikl03	X	IB			21-NOV-2004 12:35	1.0						1		
004	ikl04	TUN	BFB			21-NOV-2004 15:29	1.0						2		
005	ikl05	X	IB			21-NOV-2004 16:02	1.0						1		
006	ikl06	X	CALIB IB			21-NOV-2004 16:36	1.0						3 4 5 1		
007	ikl07	ICAL	0.5/1PPB			21-NOV-2004 17:13	1.0						3 4 5 1		
008	ikl08	ICAL	5PPB			21-NOV-2004 17:48	1.0						3 4 5 1		
009	ikl09	ICAL	10PPB			21-NOV-2004 18:22	1.0						3 4 5 1		
010	ikl10	ICAL	20PPB			21-NOV-2004 18:57	1.0						3 4 5 1		
011	ikl11	ICAL	50PPB			21-NOV-2004 19:31	1.0						3 4 5 1		
012	ikl12	ICAL	75PPB			21-NOV-2004 20:06	1.0						3 4 5 1		
013	ikl13	ICAL	100PPB			21-NOV-2004 20:40	1.0						6 1		
014	ikl14	ICV	50PPB			21-NOV-2004 21:19	1.0	1		5000			7 8 1		
015	ikl15	ICV	50PPB			21-NOV-2004 21:54	1.0	1		5000			1		
016	ikl16	X	IB			21-NOV-2004 22:28	1.0						1		
017	ikl17	X	IB			21-NOV-2004 23:02	1.0						1		
018	ikl18	X	IB			21-NOV-2004 23:37	1.0						1		

* ICAL - OK
- VC to 75 ppb
- 3rd ion missing for 1112 PCE; Perfom @ 0.5 ppb
* ICV - Fr 124, 2CUEVE, USACG - C1Me4, CS2L

Stds used: 1=04WS2096 2=04WS1238 3=04SS393 4=04WS2167A 5=04WS2204A 6=04WS2093C 7=04WS1939B 8=04WS1940D

Analyst: Rao Date: 11/22/04
Page 1 of 1

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36

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Sequence: 485009155 Instrument: MSVOA09 HP GCMS VOA 09
Analytical Method: EPA 8260B SOP Version: 8260B_rv4

Begun: 06-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds	Used	>LR
001	ia601	X	IB			06-JAN-2005 08:35	1.0						1		
002	ia602	TUN	BFB			06-JAN-2005 09:09	1.0						2		
003	ia603	CCV	25PPB			06-JAN-2005 09:26	1.0	1		5000			3 4 5 1		
004	ia604	BS	QC278542	98065	Water	06-JAN-2005 10:29	1.0	3		5000			6 7 8 1		
005	ia605	BSD	QC278543	98065	Water	06-JAN-2005 11:03	1.0	3	1	5000			6 7 8 1		
006	ia606	X	IB			06-JAN-2005 11:38	1.0						1		
007	ia607	BLANK	QC278544	98065	Water	06-JAN-2005 12:13	1.0	1		5000			1		
008	ia608	SAMPLE	176963-001	98065	Water	06-JAN-2005 12:51	1.0			5000	A	2	1		
009	ia609	SAMPLE	176959-006	98065	Water	06-JAN-2005 13:26	1.0			5000	C	1	1		
010	ia610	SAMPLE	176959-008	98065	Water	06-JAN-2005 14:00	1.0			5000	↓	1	1		
011	ia611	SAMPLE	176968-001	98065	Water	06-JAN-2005 14:35	1.0			5000	A	1	1		
012	ia612	SAMPLE	176972-001	98065	Water	06-JAN-2005 15:10	1.0			5000	C	7	1		
013	ia613	SAMPLE	176963-002	98065	Water	06-JAN-2005 15:48	1.0			5000	B	2	1		
014	ia614	SAMPLE	176976-001	98065	Water	06-JAN-2005 16:23	1.0			5000	C	7	1		
015	ia615	SAMPLE	176984-036	98065	Water	06-JAN-2005 16:57	1.0			5000	B	2	1		
016	ia616	SAMPLE	176959-005	98065	Water	06-JAN-2005 17:32	2.0			5000	C	1	1	CIS 12 DCE only	
017	ia617	SAMPLE	176959-007	98065	Water	06-JAN-2005 18:06	1.429			5000	↓	1	1		
018	ia618	SAMPLE	176970-001	98065	Water	06-JAN-2005 18:41	1.0			5000	B	1	1	3:ACE=375.323	
019	ia619	SAMPLE	176970-002	98065	Water	06-JAN-2005 19:15	1.0	1		5000	↓	1	1	1 Rn 1x, Bn Me 2:ACE=234.241	
020	ia620	SAMPLE	176941-001	98065	Water	06-JAN-2005 19:53	1.0			5000	A	1	1	5mL HS	
021	ia621	X	IB			06-JAN-2005 20:27	1.0						1		
022	ia622	X	IB			06-JAN-2005 21:02	1.0						1		

* ICN - Fr 12b, 2UEVE ↓, USACU - CIME b, CS2 L
* CCV - Bn Me ↓, USACU - CIME ↓
* ICAL - OK

Stds used: 1=04WS2343 2=04WS2425 3=04SS451 4=04WS2167C 5=04WS2421A 6=05WS0013B 7=04WS2305A 8=04WS2366A

Analyst: Rio Date: 1/7/05
Page 1 of 1

Handwritten signature and date:
01/07/05

GC/MS VOA SAMPLE PREP LOG SHEET

CURTIS & TOMPKINS, LTD.

DATE: 1/6/05

PREPPED BY.

WATER

	SAMPLE NUM	AMT g/mL	VIAL	pH	Head Space	SHELF	INST	COMMENTS	TRANSFER
1	176972-1		C	7			01	1X	
2	176963-1		A	<2	LV			TB	
3	↓ -2		B	↓				1X	
4	176968-1		A-H	↓				2X, 1X 1X	
5	176976-1		C	7				1X	
6	176984-36		B	<2				1X HC	
7	176970-1		↓	↓				↓	
8	↓ -2		C	<2				PR 2K, LIS 12 DCE 0.12	
9	176959-5		↓	↓				PR 1.42 K, LIS 12 DCE 0.12	
0	↓ -7		C	<2				PR 1X, LIS 12 DCE 0.01	
1	↓ -6		↓	↓				↓	
2	↓ -8		↓	↓				↓	
3			A	<2	MSML		✓	PR 1X TB	
4	176941-1								
5									
6									
7									
8									
9									
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11									
12									
13									
14									
15									
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41									
42									

PREPFORM.XLS

7/21/96

Polynuclear Aromatics

Batch QC Report

Semivolatile Organics by GC/MS SIM			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3520C
Project#:	400582002	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC279349	Batch#:	98284
Matrix:	Water	Prepared:	01/13/05
Units:	ug/L	Analyzed:	01/14/05

Analyte	Result	RL
Naphthalene	ND	0.1
Acenaphthylene	ND	0.1
Acenaphthene	ND	0.1
Fluorene	ND	0.1
Phenanthrene	ND	0.1
Anthracene	ND	0.1
Fluoranthene	ND	0.1
Pyrene	ND	0.1
Benzo (a) anthracene	ND	0.1
Chrysene	ND	0.1
Benzo (b) fluoranthene	ND	0.1
Benzo (k) fluoranthene	ND	0.1
Benzo (a) pyrene	ND	0.1
Indeno (1,2,3-cd) pyrene	ND	0.1
Dibenz (a,h) anthracene	ND	0.1
Benzo (g,h,i) perylene	ND	0.1

Surrogate	%REC	Limits
Nitrobenzene-d5	107	38-132
2-Fluorobiphenyl	108	42-120
Terphenyl-d14	137 *	30-123

*= Value outside of QC limits; see narrative

ND= Not Detected

RL= Reporting Limit

Page 1 of 1

Semivolatile Organics by GC/MS SIM

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3520C
Project#:	400582002	Analysis:	EPA 8270C-SIM
Field ID:	B50-GW-1	Batch#:	98284
Lab ID:	176984-037	Sampled:	01/05/05
Matrix:	Water	Received:	01/05/05
Units:	ug/L	Prepared:	01/13/05
Diln Fac:	1.000	Analyzed:	01/14/05

Analyte	Result	RL
Naphthalene	ND b	0.1
Acenaphthylene	ND b	0.1
Acenaphthene	ND b	0.1
Fluorene	ND b	0.1
Phenanthrene	ND b	0.1
Anthracene	ND b	0.1
Fluoranthene	ND b	0.1
Pyrene	ND b	0.1
Benzo (a) anthracene	ND b	0.1
Chrysene	ND b	0.1
Benzo (b) fluoranthene	ND b	0.1
Benzo (k) fluoranthene	ND b	0.1
Benzo (a) pyrene	ND b	0.1
Indeno (1,2,3-cd) pyrene	ND b	0.1
Dibenz (a,h) anthracene	ND b	0.1
Benzo (g,h,i) perylene	ND b	0.1

Surrogate	%REC	Limits
Nitrobenzene-d5	68 b	38-132
2-Fluorobiphenyl	71 b	42-120
Terphenyl-d14	96 b	30-123

b= See narrative
ND= Not Detected
RL= Reporting Limit
Page 1 of 1

Batch QC Report

Semivolatile Organics by GC/MS SIM			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3520C
Project#:	400582002	Analysis:	EPA 8270C-SIM
Matrix:	Water	Batch#:	98284
Units:	ug/L	Prepared:	01/13/05
Diln Fac:	1.000	Analyzed:	01/17/05

Type: BS Lab ID: QC279350

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	1.000	1.147	115	35-138
Pyrene	1.000	1.192	119	38-142

Surrogate	%REC	Limits
Nitrobenzene-d5	69	38-132
2-Fluorobiphenyl	76	42-120
Terphenyl-d14	76	30-123

Type: BSD Lab ID: QC279351

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	1.000	0.7504	75	35-138	42 *	26
Pyrene	1.000	0.7386	74	38-142	47 *	25

Surrogate	%REC	Limits
Nitrobenzene-d5	69	38-132
2-Fluorobiphenyl	76	42-120
Terphenyl-d14	74	30-123

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

Page 1 of 1

Data File: \\GCMSSERVER\DD\chem\MSBNA03.i\112304.b\VKNO6.D

Date : 23-NOV-2004 18:26

Client ID: dftpp tune std

Sample Info: TUN,04WS1543

Instrument: MSBNA03.i

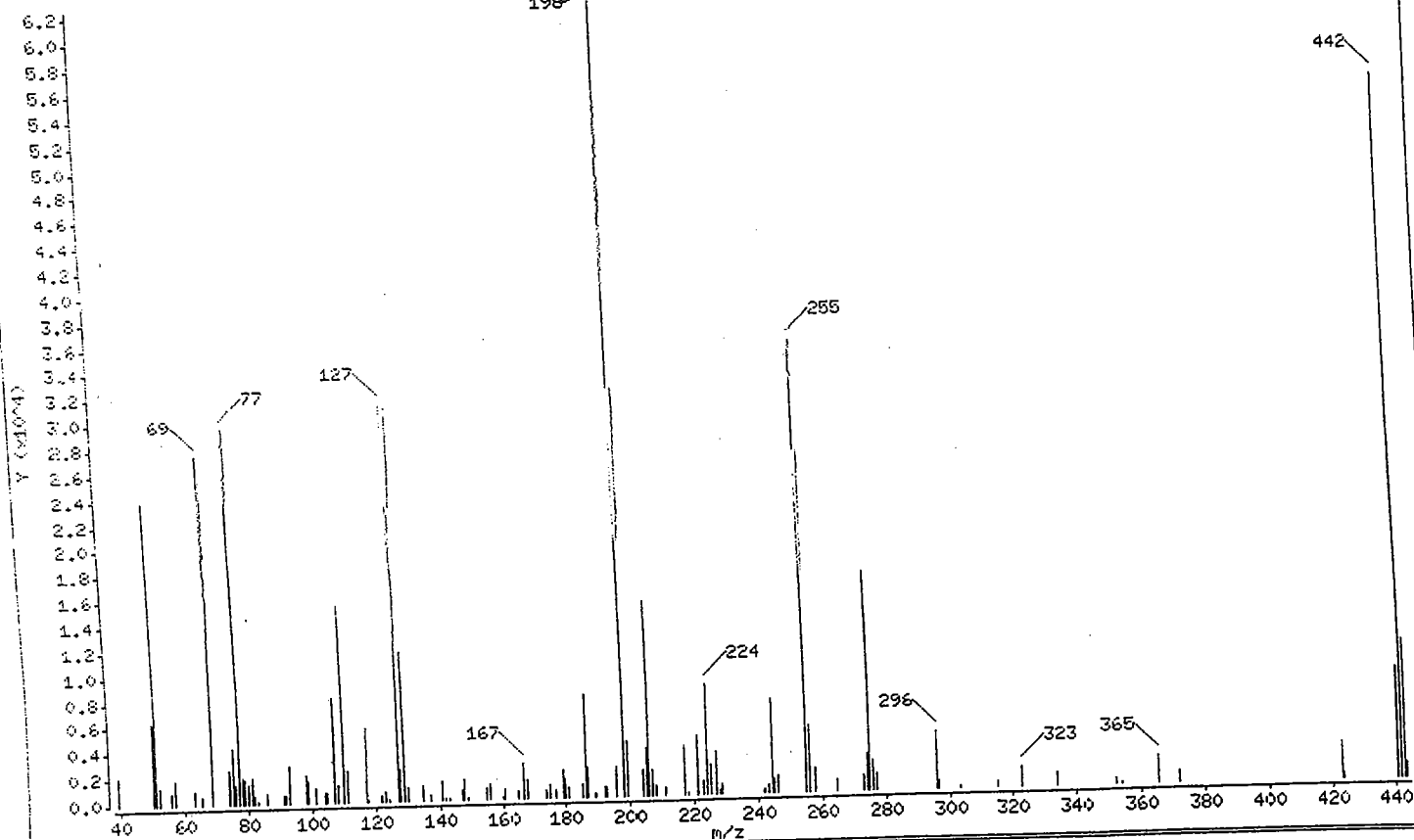
Operator: BVD

Column diameter: 0.25

Column phase: Xti 5

1 dftpp

Avg. Scans 124-126 (5.26), Background Scan 108



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	38.03
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	43.88
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	50.03
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.81
275	10.00 - 30.00% of mass 198	27.49
365	Greater than 1.00% of mass 198	3.40
441	Present, but less than mass 443	13.91
442	40.00 - 99.99% of mass 198	88.63
443	17.00 - 23.00% of mass 442	17.36 (19.58)

87051M
442

11/24/04

Date : 17-JAN-2005 15:50

Client ID: dftpp tune std

Instrument: MSBNA03.i

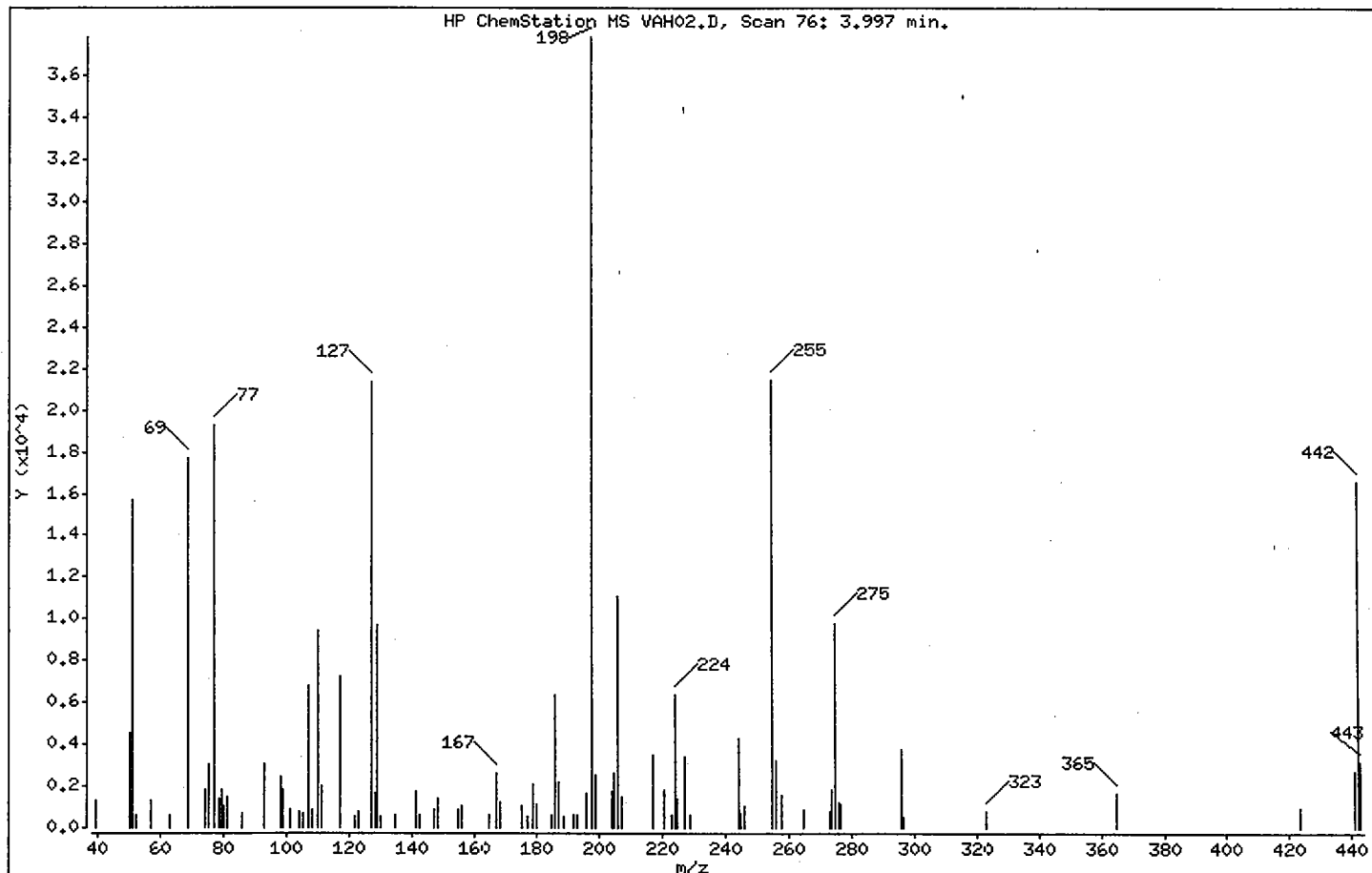
Sample Info: TUN,04WS1543

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	41.54
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	46.78
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	56.52
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.70
275	10.00 - 30.00% of mass 198	25.76
365	Greater than 1.00% of mass 198	4.28
441	Present, but less than mass 443	7.10
442	40.00 - 99.99% of mass 198	43.86
443	17.00 - 23.00% of mass 442	8.32 (18.97)

now
1/18/05

Date : 11-JAN-2005 10:44

Client ID: dftpp tune std

Instrument: MSBNA05.i

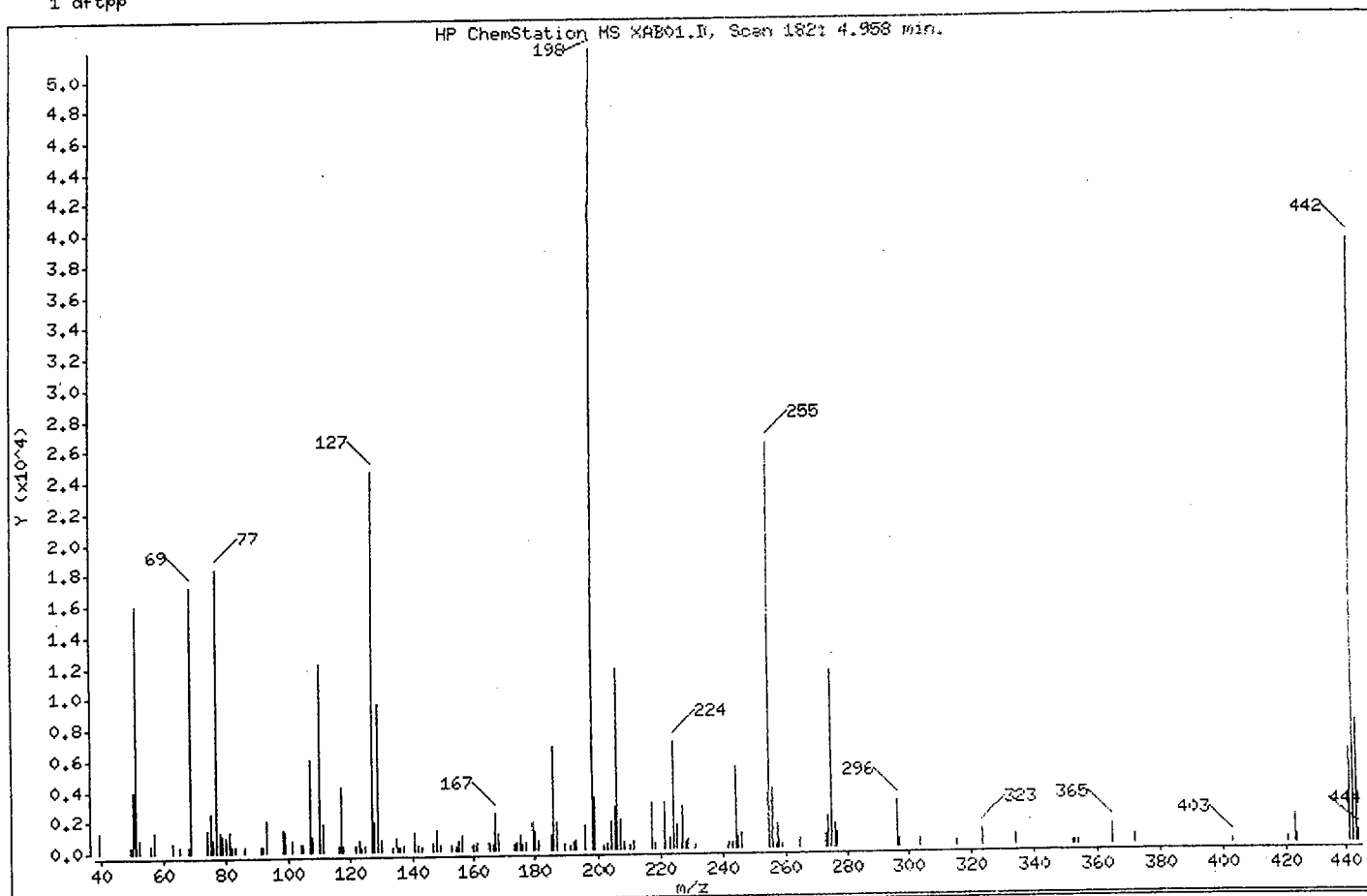
Sample Info: TUN,04WS1543

Operator: LLH

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e ION ABUNDANCE CRITERIA		% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	30.95
68	Less than 1.99% of mass 69	0.59 (1.77)
69	Mass 69 relative abundance	33.12
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	47.36
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.56
275	10.00 - 30.00% of mass 198	22.12
365	Greater than 1.00% of mass 198	2.57
441	Present, but less than mass 443	11.80
442	40.00 - 99.99% of mass 198	75.58
443	17.00 - 23.00% of mass 442	15.14 (20.04)

01/12/05

Date : 14-JAN-2005 12:46

Client ID: dftpp tune std

Instrument: MSBNA05.i

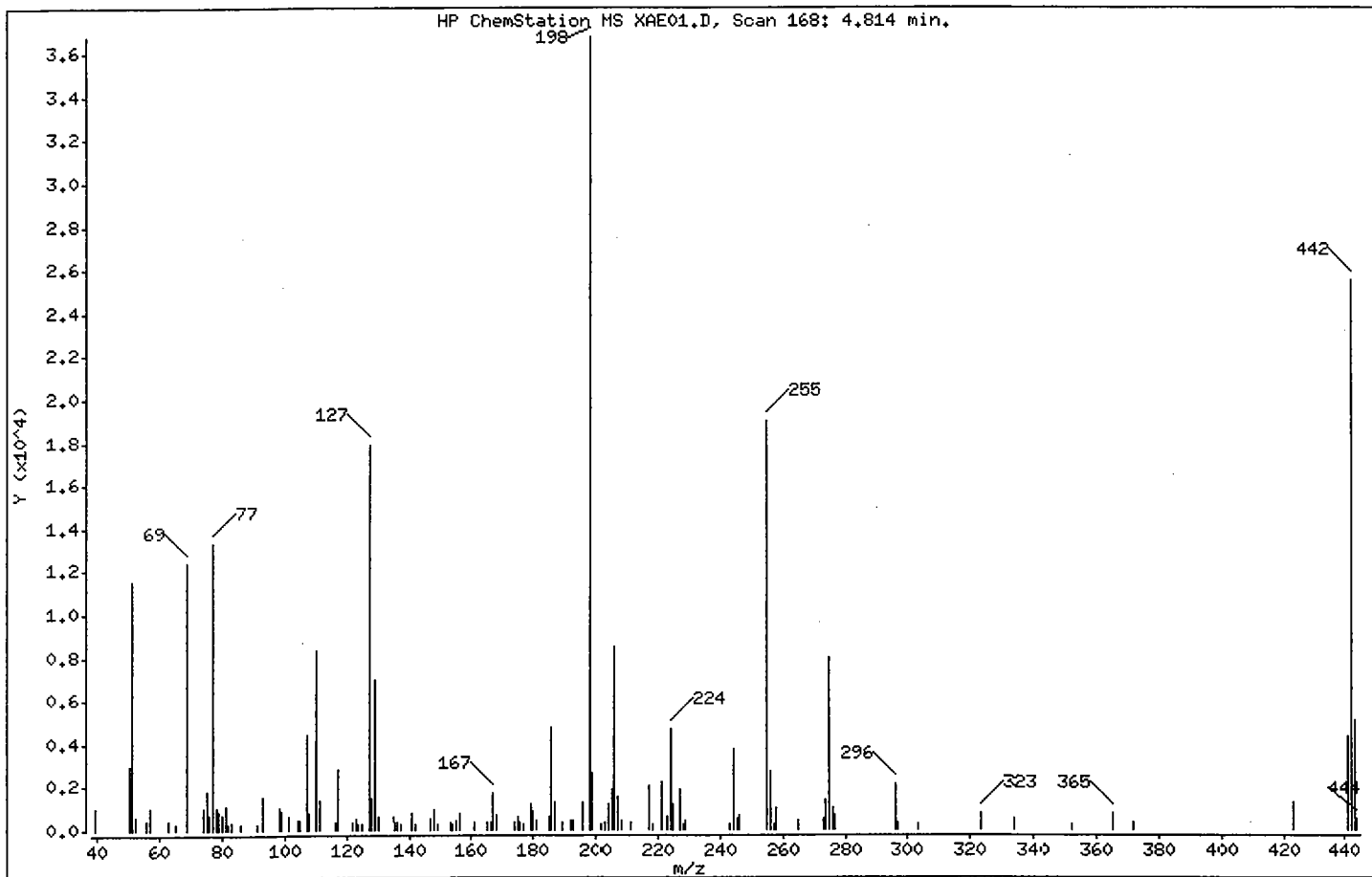
Sample Info: TUN,04WS1543

Operator: LLH

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	31.29
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	33.72
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	48.52
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.05
275	10.00 - 30.00% of mass 198	21.61
365	Greater than 1.00% of mass 198	2.19
441	Present, but less than mass 443	11.77
442	40.00 - 99.99% of mass 198	69.38
443	17.00 - 23.00% of mass 442	13.86 (19.97)

MSBNA03 8070-SIM INITIAL CALIBRATION REPORT Curtis & Tompkins Laboratories

Instrument: MSBNA03 HP GCMS BNA 03
Calnum: 524473298002 Name: 3PAHSIM

Type: (normal)

Reviewed By:
Date: 23-NOV-2004 18:44 Inj Vol (uL): 1

Calibration levels:

See quant reports for manual integrations
due to spotting/dropper baseline

#	Filename	Segnum	Samplenum	Analyzed	Standards
1	vkn07	524473298007	0.1 ug/mL	23-NOV-2004 18:44	04WS2236
2	vkn08	524473298008	0.2 ug/mL	23-NOV-2004 19:16	04WS2237
3	vkn09	524473298009	0.5 ug/mL	23-NOV-2004 19:49	04WS2238
4	vkn10	524473298010	1.0 ug/mL	23-NOV-2004 20:21	04WS2239
5	vkn11	524473298011	2.0 ug/mL	23-NOV-2004 20:54	04WS2240
6	vkn12	524473298012	5.0 ug/mL	23-NOV-2004 21:26	04WS2241
7	vkn13	524473298013	10.0 ug/mL	23-NOV-2004 21:58	04WS2242

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	r ²	MRSD	MnR ²	MxRSD	Flags
1,4-Dioxane		0.3938m	0.3953m	0.3311m	0.3730m	0.3498m	0.3176m	AVRG	R		2.777060		ng	0.36019		0.0500	.99	15	
Naphthalene	1.0567	1.0625	1.0538	0.8828	1.0122	0.9644	0.9428	AVRG	R		1.003549		ng	0.99657		0.0500	.99	15	
2-Methylnaphthalene	0.7274	0.7196	0.7069	0.6223	0.7303	0.7384	0.7322	AVRG	R		1.406435		ng	0.71106		0.0500	.99	15	
Acenaphthylene	1.7670	1.7430	1.7396	1.5199	1.7835	1.7918	1.8311	AVRG	R		0.574305		ng	1.73946		0.0500	.99	15	
Acenaphthene	1.0738	1.0573	1.0555	0.9143	1.0618	1.0694	1.0883	AVRG	R		0.956240		ng	1.04586		0.0500	.99	15	
Fluorene	1.2883	1.2830	1.2754	1.1088	1.3029	1.3078	1.3226	AVRG	R		0.787516		ng	1.26986		0.0500	.99	15	
Phenanthrene	1.0173	0.9868	0.9753	0.8406	0.9063	0.9915	1.0012	AVRG	R		1.041839		ng	0.95987		0.0500	.99	15	
Anthracene	0.9262	0.8994	0.9089	0.7905	0.8579	0.9461	0.9751	AVRG	R		1.110403		ng	0.90067		0.0500	.99	15	
Fluoranthene	1.1440	1.0742	1.0799	0.9610	1.0150	1.0943	1.1246	AVRG	R		0.934197		ng	1.07046		0.0500	.99	15	
Pyrene	1.2112	1.1129	1.1257	0.9342	0.9842	1.1350	1.1475	AVRG	R		0.914959		ng	1.09299		0.0500	.99	15	
Benzo(a)anthracene	1.1526	1.0521	1.0503	0.8913	0.9536	1.0786	1.0945	AVRG	R		0.962475		ng	1.03909		0.0500	.99	15	
Chrysene	1.1122	1.0314	1.0259	0.8697	0.9157	1.0314	1.0383	AVRG	R		0.996505		ng	1.00358		0.0500	.99	15	
Benzo(b)fluoranthene	1.3591	1.3064	1.2888	1.1344	1.1859	1.2656	1.3820	AVRG	R		0.784544		ng	1.27467		0.0500	.99	15	
Benzo(k)fluoranthene	1.3833	1.2459	1.3569	1.2730	1.5092	1.7821	1.6786	AVRG	R		0.684336		ng	1.461314		0.0500	.99	15	
Benzo(a)pyrene	1.1523	1.0540	0.9054m	0.9109	1.0183	1.1442	1.1866	AVRG	R		0.949569		ng	1.053111		0.0500	.99	15	
Indeno(1,2,3-cd)pyrene	1.3150	1.2258	1.2247	1.0889	1.2227	1.3736	1.4318	AVRG	R		0.788062		ng	1.26899		0.0500	.99	15	
Dibenz(a,h)anthracene	1.0570	0.9891	0.9903	0.8801	0.9856	1.1171	1.1933	AVRG	R		0.970530		ng	1.030410		0.0500	.99	15	
Benzo(g,h,i)perylene	1.2140	1.0871	1.0460	0.9092	0.9914	1.1049	1.1428	AVRG	R		0.933899		ng	1.07089		0.0500	.99	15	

Flags used: m=manual integration

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

Page 1 of 2

REAL: OK

CLV: OK except 2-Methylnaphthalene ↑ buts (D)

- 1,4-Dioxane ↑; Chrysene ↓; Benzo(b)fluoranthene ↑ (m)
wrong units

11/24/04

INITIAL CALIBRATION REPORT Curtis & Tompkins Laboratories

Instrument: MSBNA03 HP GCMS BNA 03
Calnum: 524473298002 Name: 3PAHSIM

Type: (normal)

Reviewed By:
Date: 23-NOV-2004 18:44 Inj Vol (uL): 1

Instrument: MSBNA03										Name: 3PAHSIM										Type: (normal)										Date:									
Calnum: 524473298002																																							
																				r^2																			
Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	%RSD	MinRF	MnR^2	MxRSD	Flags																				
Nitrobenzene-d5	0.3255	0.3312	0.3316	0.2849	0.3299	0.3306	0.3227	AVRG	R		3.102234		ng	0.3223	5		0.0500	.99	15																				
2-Fluorobiphenyl	1.4278	1.4649	1.4644	1.2395	1.4123	1.4208	1.4124	AVRG	R		0.709781		ng	1.4089	5		0.0500	.99	15																				
Terphenyl-d14	1.0634m	0.9749	0.9877	0.8432	0.8770	0.9650	0.9569	AVRG	R		1.049800		ng	0.9526	8		0.0500	.99	15																				

203

Flags used: m=manual integration

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

Page 2 of 2

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

stid : MSBNA03
gnum : 524473298014
lnum : 524473298002
standards: 04WS2206

Run Name : 2.0 ug/mL
Filename : vkn14
Caldate : 23-NOV-2004

Injected : 23-NOV-2004 22:31
Caltype :

analyte	SpkAmt	QuantAmt	Units	ID	Max	Flags
1,4-Dioxane	2.000000	2.519000	ng	26	30	!v+ m
Naphthalene	2.000000	2.079500	ng	4	30	
2-Methylnaphthalene	2.000000	2.745700	ng	37	30	v+ ***
Acenaphthylene	2.000000	2.304100	ng	15	30	
Acenaphthene	2.000000	2.289100	ng	14	20	
Fluorene	2.000000	2.224100	ng	14	30	
Phenanthrene	2.000000	2.207200	ng	10	30	
Anthracene	2.000000	2.391900	ng	20	30	
Fluoranthene	2.000000	2.226200	ng	11	20	
Pyrene	2.000000	2.212600	ng	11	30	
Benzo(a)anthracene	2.000000	2.260000	ng	13	30	
Chrysene	2.000000	1.556500	ng	-22	30	!v-
Benzo(b)fluoranthene	2.000000	2.238200	ng	12	30	
Benzo(k)fluoranthene	2.000000	2.463100	ng	23	30	!v+
Benzo(a)pyrene	2.000000	2.020500	ng	1	20	m
Indeno(1,2,3-cd)pyrene	2.000000	2.239600	ng	12	30	
Dibenz(a,h)anthracene	2.000000	2.207700	ng	10	30	
Benzo(g,h,i)perylene	2.000000	2.178700	ng	9	30	
Nitrobenzene-d5	2.000000	2.113400	ng	6	30	
2-Fluorobiphenyl	2.000000	2.139600	ng	7	30	
Terphenyl-d14	2.000000	2.226200	ng	11	30	

ISTD (CCV=vkn05)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	31512	23608	-25.08	7.71	7.71	0.00
Naphthalene-d8	97660	91190	-6.63	9.47	9.47	0.00
Acenaphthene-d10	54934	50824	-7.48	12.09	12.09	0.01
Phenanthrene-d10	108889	100423	-7.77	14.34	14.34	0.00
Chrysene-d12	112423	101844	-9.41	18.16	18.16	0.00
Perylene-d12	100110	89579	-10.52	19.96	19.95	-0.01

11/24/04

11/24/04

MSNA05 8010-SIM (calibration)

INITIAL CALIBRATION REPORT Curtis & Tompkins Laboratories

Instrument: MSBNA05 HP GCMS BNA 05
Calnum: 545016540001 Name: 5PAHSIM

Reviewed By:
Type: (normal) Date: 11-JAN-2005 12:20 Inj Vol (uL): 1

Calibration levels:

See quant reports for manual
integrations due to tubing/splitting

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	xab04	545016540004	0.1 μ g/mL	11-JAN-2005 12:20	04WS2236
2	xab05	545016540005	0.2	11-JAN-2005 12:51	04WS2237
3	xab06	545016540006	0.5	11-JAN-2005 13:24	04WS2238
4	xab07	545016540007	1.0	11-JAN-2005 13:55	04WS2239
5	xab08	545016540008	2.0	11-JAN-2005 14:26	04WS2240
6	xab09	545016540009	5.0	11-JAN-2005 14:57	04WS2241
7	xab10	545016540010	10.0	11-JAN-2005 15:30	04WS2242

Analyte	L1	L2	L3	L4	L5	L6	L7	Type X	a0	a1	a2	units	avg	MRSD	MinRP	MNR ²	MRSD	Flags
1,4-Dioxane		0.3892m	0.3811m	0.3165m	0.3645	0.3096m	0.2715m	AVRG R		2.952261		ng	0.3387	14	0.0500	.99	15	
Naphthalene	1.0212	1.0035	0.9766	0.8489	0.9485	0.8710	0.8605	AVRG R		1.071928		ng	0.9329	8	0.0500	.99	15	
2-Methylnaphthalene	0.3958m	0.3867m	0.6747	0.5793	0.6461	0.6020	0.5852	QUAD R	0.033195	1.557292	0.025202	ng	0.5528	1.000	0.0500	.99	15	
Acenaphthylene	1.8209	1.7923	1.7692	1.5190	1.7287	1.6222	1.5497	AVRG R		0.593124		ng	1.6860	7	0.0500	.99	15	
Acenaphthene	1.0132	1.0061	0.9840	0.8541	0.9800	0.9393	0.9207	AVRG R		1.045171		ng	0.9568	6	0.0500	.99	15	
Fluorene	1.2493	1.2238	1.1772	1.0095	1.1304	1.0714	1.0481	AVRG R		0.884968		ng	1.1300	8	0.0500	.99	15	
Phenanthrene	1.0818	1.0813	1.0298	0.8891	0.9821	0.9391	0.8900	AVRG R		1.015489		ng	0.9847	8	0.0500	.99	15	
Anthracene	0.9708	0.9704	0.9410	0.8140	0.9109	0.8877	0.8466	AVRG R		1.103864		ng	0.9059	7	0.0500	.99	15	
Fluoranthene	1.2252	1.2093	1.1563	0.9910	1.0969	1.0206	0.9692	AVRG R		0.912833		ng	1.0955	10	0.0500	.99	15	
Pyrene	1.4672	1.4837	1.4088	1.2137	1.3549	1.3069	1.2799	AVRG R		0.735680		ng	1.3593	7	0.0500	.99	15	
Benzo(a)anthracene	1.3800	1.3523	1.3101	1.1209	1.2651	1.2192	1.1675	AVRG R		0.794106		ng	1.2593	8	0.0500	.99	15	
Chrysene	1.2408	1.2064m	1.1581	1.0023	1.1531	1.1315	1.1036	AVRG R		0.875441		ng	1.1423	7	0.0500	.99	15	
Benzo(b)fluoranthene	1.6587	1.6001	1.4998	1.2745	1.4101	1.3027	1.3139	AVRG R		0.695837		ng	1.4371	11	0.0500	.99	15	
Benzo(k)fluoranthene	1.6567	1.4858	1.4120	1.3315	1.5057	1.5536	1.4724	AVRG R		0.671940		ng	1.4882	7	0.0500	.99	15	
Benzo(a)pyrene	1.3929	1.3281	1.2878	1.1028	1.2608	1.2117	1.1803	AVRG R		0.798681		ng	1.2521	8	0.0500	.99	15	
Indeno(1,2,3-cd)pyrene	1.6426	1.5073	1.4658	1.2480	1.4056	1.3996	1.3812	AVRG R		0.696512		ng	1.4357	8	0.0500	.99	15	
Dibenz(a,h)anthracene	1.2549	1.1758	1.1588	1.0026	1.1779	1.1559	1.1442	AVRG R		0.867398		ng	1.1529	7	0.0500	.99	15	
Benzo(g,h,i)perylene	1.4623	1.3048	1.2695	1.0785	1.2068	1.1735	1.1281	AVRG R		0.811732		ng	1.2319	10	0.0500	.99	15	

Flags used: m=manual integration

Curves: AVRG: Average response factor QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

Page 1 of 2

REAL: OK
GC: OK except 2-methylnaphthalene & fols (G) - TD
- Chrysene & fols using built

[Handwritten signature]

[Handwritten signature]

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA05 HP GCMS BNA 05
Calnum: 545016540001 Name: 5PAHSIM

Reviewed By:
Type: (normal) Date: 11-JAN-2005 12:20 Inj Vol (uL): 1

Analyte	L1	L2	L3	L4	L5	L6	L7	Type X	a0	a1	a2	units	avg	r^2				
														%RSD	MinRF	MnR^2	MaxRSD	Flags
Nitrobenzene-d5	0.2879	0.2972	0.2998	0.2522	0.2901	0.2729	0.2558	AVRG R		3.578915		ng	0.2794	7	0.0500	.99	15	
2-Fluorobiphenyl	1.4638	1.6192m	1.4110	1.1631	1.2798	1.2097	1.1808	AVRG R		0.750483		ng	1.3325	13	0.0500	.99	15	
Terphenyl-d14	0.9730	1.0096	0.9774	0.8256	0.9356	0.9078	0.8751	AVRG R		1.076267		ng	0.9291	7	0.0500	.99	15	

206

Flags used: m=manual integration

Curves: AVRG: Average response factor QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response² * a2

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSBNA05
Seqnum : 545016540011
Calnum : 545016540001
Standards: 04WS2206

Run Name :
Filename : xab11
Caldate : 11-JAN-2005
Injected : 11-JAN-2005 16:01
Caltype :

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
1,4-Dioxane	2.000000	2.363900	ng	18	30	m
Naphthalene	2.000000	2.137700	ng	7	30	
2-Methylnaphthalene	2.000000	2.771000	ng	39	30	v+ ***
Acenaphthylene	2.000000	2.277000	ng	14	30	
Acenaphthene	2.000000	2.244800	ng	12	20	
Fluorene	2.000000	2.208900	ng	10	30	
Phenanthrene	2.000000	2.142700	ng	7	30	
Anthracene	2.000000	2.298300	ng	15	30	
Fluoranthene	2.000000	2.154000	ng	8	20	
Pyrene	2.000000	2.186700	ng	9	30	
Benzo (a) anthracene	2.000000	2.237500	ng	12	30	
Chrysene	2.000000	1.586700	ng	-21	30	lv-
Benzo (b) fluoranthene	2.000000	2.197300	ng	10	30	
Benzo (k) fluoranthene	2.000000	2.163400	ng	8	30	
Benzo (a) pyrene	2.000000	2.232200	ng	12	20	
Indeno (1,2,3-cd) pyrene	2.000000	2.124300	ng	6	30	
Dibenz (a,h) anthracene	2.000000	2.111800	ng	6	30	
Benzo (g,h,i) perylene	2.000000	2.145000	ng	7	30	

ISTD (CCV=xab03)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	20482	17001	-17.00	5.76	5.76	0.00
Naphthalene-d8	56073	55675	-0.71	7.24	7.24	0.00
Acenaphthene-d10	30446	30469	0.08	9.50	9.50	0.00
Phenanthrene-d10	52401	52543	0.27	11.42	11.42	0.00
Chrysene-d12	41584	41689	0.25	15.12	15.11	-0.01
Perylene-d12	36269	36825	1.53	17.11	17.11	0.00

T/T/s

01/12/05

!=warning +=high bias -=low bias m=manual integration v=ICV
Page 1 of 1

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA05
Seqnum : 545020926002
Calnum : 545016540001
Standards: 04WS2239

Run Name : 04WS2239
Filename : xae02
Caldate : 11-JAN-2005

IDF : 1.0
Injected : 14-JAN-2005 13:03
Caltpe :

Analyte	Avg		SpkAmt	QuantAmt	Units	%D Max	%D Min	RF	Flags
	RF/CF	RF/CF							
1,4-Dioxane	0.3387	0.3077	1.000000	0.908400	ng	-9	30	0.0500	m
Naphthalene	0.9329	0.8179	1.000000	0.876700	ng	-12	30	0.0500	
2-Methylnaphthalene	0.5528	0.5774	1.000000	0.940800	ng	-6	30	0.0500	
Acenaphthylene	1.6860	1.5677	1.000000	0.929800	ng	-7	30	0.0500	
Acenaphthene	0.9568	0.8469	1.000000	0.885200	ng	-11	20	0.0500	
Fluorene	1.1300	1.0345	1.000000	0.915500	ng	-8	30	0.0500	
Phenanthrene	0.9847	0.8659	1.000000	0.879300	ng	-12	30	0.0500	
Anthracene	0.9059	0.8235	1.000000	0.909000	ng	-9	30	0.0500	
Fluoranthene	1.0955	1.0014	1.000000	0.914100	ng	-9	20	0.0500	
Pyrene	1.3593	1.2526	1.000000	0.921500	ng	-8	30	0.0500	
Benzo(a)anthracene	1.2593	1.1654	1.000000	0.925500	ng	-7	30	0.0500	
Chrysene	1.1423	1.0077	1.000000	0.882200	ng	-12	30	0.0500	
Benzo(b)fluoranthene	1.4371	1.2709	1.000000	0.884300	ng	-12	30	0.0500	
Benzo(k)fluoranthene	1.4882	1.1978	1.000000	0.804900	ng	-20	30	0.0500	
Benzo(a)pyrene	1.2521	1.1120	1.000000	0.888200	ng	-11	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.4357	1.2715	1.000000	0.885600	ng	-11	30	0.0500	
Dibenz(a,h)anthracene	1.1529	1.0659	1.000000	0.924600	ng	-8	30	0.0500	
Benzo(g,h,i)perylene	1.2319	1.0746	1.000000	0.872300	ng	-13	30	0.0500	
Nitrobenzene-d5	0.2794	0.2248	1.000000	0.804600	ng	-20	30	0.0500	
2-Fluorobiphenyl	1.3325	1.1653	1.000000	0.874500	ng	-13	30	0.0500	
Terphenyl-d14	0.9291	0.8622	1.000000	0.928000	ng	-7	30	0.0500	

1/17/05

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA03 Run Name : IDF : 1.0
Seqnum : 525025430003 Filename : vah03 Injected : 17-JAN-2005 16:07
Calnum : 524473298002 Caldate : 23-NOV-2004 Caltype :
Standards: 04WS2239

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D Min	RF	Flags
1,4-Dioxane	0.3601	0.2948	1.000000	0.818700	ng	-18	30	0.0500	m
Naphthalene	0.9965	0.7791	1.000000	0.781900	ng	-22	30	0.0500	!c-
2-Methylnaphthalene	0.7110	0.5269	1.000000	0.741000	ng	-26	30	0.0500	!c-
Acenaphthylene	1.7394	1.4097	1.000000	0.810400	ng	-19	30	0.0500	
Acenaphthene	1.0458	0.9022	1.000000	0.862700	ng	-14	20	0.0500	
Fluorene	1.2698	1.0509	1.000000	0.827600	ng	-17	30	0.0500	m
Phenanthrene	0.9598	0.8619	1.000000	0.898000	ng	-10	30	0.0500	
Anthracene	0.9006	0.7678	1.000000	0.852600	ng	-15	30	0.0500	
Fluoranthene	1.0704	0.9304	1.000000	0.869200	ng	-13	20	0.0500	
Pyrene	1.0929	0.9572	1.000000	0.875800	ng	-12	30	0.0500	
Benzo(a)anthracene	1.0390	0.8818	1.000000	0.848700	ng	-15	30	0.0500	
Chrysene	1.0035	0.9152	1.000000	0.912000	ng	-9	30	0.0500	
Benzo(b)fluoranthene	1.2746	0.9562	1.000000	0.750200	ng	-25	30	0.0500	!c-
Benzo(k)fluoranthene	1.4613	1.1825	1.000000	0.809200	ng	-19	30	0.0500	
Benzo(a)pyrene	1.0531	0.8785	1.000000	0.834200	ng	-17	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.2689	1.1664	1.000000	0.919200	ng	-8	30	0.0500	
Dibenz(a,h)anthracene	1.0304	0.9270	1.000000	0.899700	ng	-10	30	0.0500	
Benzo(g,h,i)perylene	1.0708	0.9873	1.000000	0.922100	ng	-8	30	0.0500	
Nitrobenzene-d5	0.3223	0.2402	1.000000	0.745200	ng	-25	30	0.0500	!c-
2-Fluorobiphenyl	1.4089	1.2504	1.000000	0.887500	ng	-11	30	0.0500	
Terphenyl-d14	0.9526	0.7993	1.000000	0.839100	ng	-16	30	0.0500	

Curtis & Tompkins

!=warning --low bias c=CCV m=manual integration
Page 1 of 1

MPV 1/18/05

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 14-JAN-2005
Sequence: 545020926
Instrument ID: MSBNA05

(xae)
CCV Filename: xae02
Date Analyzed: 14-JAN-2005
Time Analyzed: 13:03

	IS1 (DCBZ14D4)		IS2 (NAPHD8)		IS3 (ACEND10)		IS4 (PHEND10)		IS5 (CHYD12)		IS6 (PERYD12)	
	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT
CCV STD	18161	5.63	65969	7.12	33279	9.37	57673	11.27	46565	14.96	40875	16.95
LOWER LIMIT	9081	5.14	32985	6.62	16640	8.87	28837	10.77	23283	14.46	20438	16.45
UPPER LIMIT	36322	6.14	131938	7.62	66558	9.87	115346	11.77	93130	15.46	81750	17.45

TYPE	SAMPLE	#											
CCV	04WS2239	002	18161	5.64	65969	7.12	33279	9.37	57673	11.27	46565	14.96	40875 16.95
BLANK	QC279426	003	17420	5.63	63076	7.12	34484	9.37	58154	11.28	49089	14.96	40309 16.95
LCS	QC279427	004	16490	5.63	57353	7.12	31297	9.37	53633	11.27	44072	14.96	37800 16.95
MSS	176961-010	005	16430	5.63	57554	7.12	32401	9.37	54204	11.27	44732	14.96	38661 16.95
MS	QC279428	006	16495	5.63	57280	7.12	31991	9.37	54971	11.27	43750	14.96	31266 16.95
MSD	QC279429	007	16191	5.63	56230	7.12	31223	9.37	53776	11.27	41963	14.96	37659 16.95
SAMPLE	176956-001	008	16616	5.63	59425	7.12	31631	9.37	55364	11.29	42100	14.96	38621 16.95
SAMPLE	176984-039	009	16693	5.64	60019	7.12	32939	9.37	55552	11.27	46027	14.96	39579 16.95
SAMPLE	176984-038	010	15391	5.64	54488	7.12	29057	9.37	47619	11.29	36085	15.00	14531* 17.01
SAMPLE	177048-001	011	15837	5.64	58850	7.12	31475	9.37	52077	11.29	39875	14.97	23196 16.97
BLANK	QC279349	013	10164	5.64	39603	7.12	21097	9.37	37095	11.29	33625	14.96	23556 16.95
BSD	QC279351	015	8198*	5.64	31825*	7.12	16447*	9.37	29655	11.27	25955	14.96	19150* 16.95
SAMPLE	176859-009	016	9229	5.64	34533	7.12	18411	9.37	32048	11.29	29209	14.96	20829 16.95
SAMPLE	176984-037	017	9179	5.64	34130	7.12	18236	9.37	32017	11.27	28905	14.96	20991 16.95

* = Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 17-JAN-2005

CCV Filename: vah03

Sequence: 525025430 (vah)

Date Analyzed: 17-JAN-2005

Instrument ID: MSBNA03

Time Analyzed: 16:07

	IS1 (DCBZ14D4)		IS2 (NAPHD8)		IS3 (ACEND10)		IS4 (PHEND10)		IS5 (CHYD12)		IS6 (PERYD12)	
	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT
CCV STD	16764	6.52	65324	8.17	33631	10.71	60510	12.91	60344	16.80	55168	18.58
LOWER LIMIT	8382	6.02	32662	7.67	16816	10.21	30255	12.41	30172	16.30	27584	18.08
UPPER LIMIT	33528	7.02	130648	8.67	67262	11.21	121020	13.41	120688	17.30	110336	19.08

TYPE	SAMPLE	#											
CCV		003	16764	6.52	65324	8.17	33631	10.71	60510	12.91	60344	16.80	55168 18.58
BS	QC279350	004	17742	6.52	70925	8.17	36549	10.71	69056	12.91	70141	16.80	62716 18.58
BSD	QC279351	005	17757	6.52	69065	8.17	36275	10.71	67922	12.91	68644	16.80	61992 18.58
SAMPLE	176956-001	006	17921	6.52	68280	8.17	37253	10.71	73025	12.91	78332	16.80	73017 18.58

SEQUENCE SUMMARY

Curtis & Tompkins Laboratories

Begin: 23-NOV-2004

Sequence: 524473298 Instrument: MSBNA03 HP GCMS BNA 03
 Analytical Method: EPA 8270C SOP Version: 8270C_rv7
 Analytical Method: EPA 8270C-SIM SOP Version: 8270-SIM_rv0

Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
01 vkn01	TUN	NP NL			23-NOV-2004 16:18	1.0	1.0				1	
02 vkn02	TUN	NP NL			23-NOV-2004 16:36	1.0	1.0				1	
03 vkn03	CCV				23-NOV-2004 16:53	1.0	1.0	21	1		2 cc- cc+ 20:BZAA=15.21	
04 vkn04	CCV				23-NOV-2004 17:25	1.0	1.0	20	1		2 cc- cc+ 20:BZAA=15.15	
05 vkn05	CCV				23-NOV-2004 18:00	1.0	1.0	19	1		2 cc- cc+ 19:BZAA=14.08	
06 vkn06	TUN	NP NL			23-NOV-2004 18:26	1.0	1.0				1	
07 vkn07	ICAL	0.1 ug/mL			23-NOV-2004 18:44	1.0	1.0				1	
08 vkn08	ICAL	0.2 ug/mL			23-NOV-2004 19:16	1.0	1.0				1	
09 vkn09	ICAL	0.5 ug/mL			23-NOV-2004 19:49	1.0	1.0				1	
10 vkn10	CCV	1.0 ug/mL			23-NOV-2004 20:21	1.0	1.0		1		1	
11 vkn11	ICAL	2.0 ug/mL			23-NOV-2004 20:54	1.0	1.0				1	
12 vkn12	ICAL	5.0 ug/mL			23-NOV-2004 21:26	1.0	1.0				1	
13 vkn13	ICAL	10.0 ug/mL			23-NOV-2004 21:58	1.0	1.0				1	
14 vkn14	ICV	2.0 ug/mL			23-NOV-2004 22:31	1.0	1.0	1		1	1	
15 vkn15	BLANK	QC273389	96763	Water	23-NOV-2004 23:04	1.0	0.001			1	1	
16 vkn16	BS	QC273390	96763	Water	23-NOV-2004 23:38	1.0	0.001			1	1	
17 vkn17	BSD	QC273391	96763	Water	24-NOV-2004 00:11	1.0	0.001			1	1	
18 vkn18	SAMPLE	175991-019	96763	Water	24-NOV-2004 00:45	1.0	0.0009524	1	1	1	1	
19 vkn19	SAMPLE	175991-020	96763	Water	24-NOV-2004 01:17	1.0	0.0009709	1	1	1	1	
20 vkn20	SAMPLE	175991-021	96763	Water	24-NOV-2004 01:49	1.0	0.0009709	1	1	1	1	
21 vkn21	SAMPLE	176116-003	96763	Water	24-NOV-2004 02:22	1.0	0.001			1	1	
22 vkn22	SAMPLE	176116-004	96763	Water	24-NOV-2004 02:55	1.0	0.001			1	1	
23 vkn23	SAMPLE	176116-007	96763	Water	24-NOV-2004 03:27	1.0	0.001			1	1	
24 vkn24	SAMPLE	176152-008	96703	Water	24-NOV-2004 04:00	1.0	0.0009524	1	1	1	1	
25 vkn25	SAMPLE	176152-001	96703	Water	24-NOV-2004 04:32	1.0	0.0009709	1	1	1	1	
26 vkn26	SAMPLE	176152-004	96703	Water	24-NOV-2004 05:03	1.0	0.0009804	1	1	1	1	
27 vkn27	X	ENDBLANK			24-NOV-2004 05:37	1.0						
28 vkn28	X	ENDBLANK			24-NOV-2004 06:03	1.0						
29 vkn29	X	ENDBLANK			24-NOV-2004 06:14	1.0						

stds used: 1=04WS1543 2=04WS1827 3=04WS2236 4=04WS2237 5=04WS2238 6=04WS2239 7=04WS2240 8=04WS2241 9=04WS2242 10=04WS2206 11=04WS2207
 flags used: +=high bias -=low bias cc=CCV CCC failure sh=out of sample hold

Analyst: [Signature] Date: 11/24/04

Page 1 of 1

Handwritten notes:
 8270C: Oh
 CCV: Oh accgts 2-Medylmethylphenol ↑ Gals 8D
 -1,4-Dioxane ↑; Chrysene ↓; Benzo(a)fluoranthene ↑
 Gals warning bands

10N/A01 8610-SIM CALIBRATION

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 545016540 Instrument: MSBNA05 HP GCMS BNA 05
Analytical Method: EPA 8270C SOP Version: 8270C_rv7
Analytical Method: EPA 8270C-SIM SOP Version: 8270-SIM_rv0

Begun: 11-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	xab01	TUN	NP NL			11-JAN-2005 10:44	1.0	1.0				1	
002	xab02	CCV	updating group RTs			11-JAN-2005 11:07	1.0	1.0	16	1		2	3:ANTH=10.4353
003	xab03	CCV				11-JAN-2005 11:40	1.0	1.0	21	1		2	?t cc-
004	xab04	ICAL	0.1 g/mL			11-JAN-2005 12:20	1.0	1.0				3	
005	xab05	ICAL	0.2			11-JAN-2005 12:51	1.0	1.0				4	
006	xab06	ICAL	0.5			11-JAN-2005 13:24	1.0	1.0				5	
007	xab07	ICAL	1.0			11-JAN-2005 13:55	1.0	1.0				6	
008	xab08	ICAL	2.0			11-JAN-2005 14:26	1.0	1.0				7	
009	xab09	ICAL	5.0			11-JAN-2005 14:57	1.0	1.0				8	
010	xab10	ICAL	10.0			11-JAN-2005 15:30	1.0	1.0				2	
011	xab11	ICV				11-JAN-2005 16:01	1.0	1.0	1	1		9	
012	xab12	TUN	NP NL			11-JAN-2005 16:32	1.0	1.0				1	
013	xab13	CCV				11-JAN-2005 16:48	1.0	1.0			1	7	
014	xab14	BLANK	QC268407	95540	Soil	11-JAN-2005 17:21	1.0	0.03306	21	1		10 eh	
015	xab15	MDL	174176-001	95540	Soil	11-JAN-2005 17:52	1.0	0.03359	20	1		10 eh	1:DIOXAN=102.542
016	xab16	MDL	174176-002	95540	Soil	11-JAN-2005 18:24	1.0	0.03342	20	1		10 eh	1:DIOXAN=120.368
017	xab17	MDL	174176-003	95540	Soil	11-JAN-2005 18:56	1.0	0.03333	20	1		10 eh	1:DIOXAN=107.214
018	xab18	MDL	174176-004	95540	Soil	11-JAN-2005 19:29	1.0	0.03308	20	1		10 eh	1:DIOXAN=93.9798
019	xab19	MDL	174176-005	95540	Soil	11-JAN-2005 20:01	1.0	0.03353	20	1		10 eh	1:DIOXAN=89.7303
020	xab20	MDL	174176-006	95540	Soil	11-JAN-2005 20:33	1.0	0.0332	20	1		10 eh	1:DIOXAN=93.5017
021	xab21	MDL	174176-007	95540	Soil	11-JAN-2005 21:06	1.0	0.03317	20	1		10 eh	1:DIOXAN=95.3703

102.04

ICV: Oh except 2-Methylanthracene ↑ but 10-NT
- Chrysene ↓ but missing limit 3

Stds used: 1=04WS1543 2=04WS2242 3=04WS2236 4=04WS2237 5=04WS2238 6=04WS2239 7=04WS2240 8=04WS2241 9=04WS2206 10=04WS2234
Flags used: -=low bias ?t=missing tune cc=CCV CCC failure eh=out of extract hold

Analyst: [Signature] Date: 1/12/05

Page 1 of 1

Q
9/12/05

-37 MB

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 545020926 Instrument: MSBNA05 HP GCMS BNA 05
Analytical Method: EPA 8270C SOP Version: 8270C_rv7
Analytical Method: EPA 8270C-SIM SOP Version: 8270-SIM_rv0

Begun: 14-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	xae01	TUN	04WS1543			14-JAN-2005 12:46	1.0	1.0				1	
002	xae02	CCV	04WS2239			14-JAN-2005 13:03	1.0	1.0			1	2	
003	xae03	BLANK	QC279426	98305	Soil	14-JAN-2005 13:44	1.0	0.03304			1	3	
004	xae04	LCS	QC279427	98305	Soil	14-JAN-2005 14:16	1.0	0.0335			1	3	
005	xae05	MSS	176961-010	98305	Soil	14-JAN-2005 14:48	1.0	0.03339			1	3	
006	xae06	MS	QC279428	98305	Soil	14-JAN-2005 15:19	1.0	0.03337			1	3	
007	xae07	MSD	QC279429	98305	Soil	14-JAN-2005 15:51	1.0	0.03337			1	3	
008	xae08	SAMPLE	176956-001	98305	Soil	14-JAN-2005 16:22	1.0	0.03334	3		1	3	3: PHAN=25.5844
009	xae09	SAMPLE	176984-039	98305	Soil	14-JAN-2005 16:53	1.0	0.03362			1	3	
010	xae10	SAMPLE	176984-038	98305	Soil	14-JAN-2005 17:24	1.0	0.03336			1	3	
011	xae11	SAMPLE	177048-001	98305	Soil	14-JAN-2005 17:56	1.0	0.03336			1	3	
013	xae13	BLANK	QC279349	98284	Water	14-JAN-2005 19:01	1.0	0.001	1	1	1	3	
015	xae15	BSD	QC279351	98284	Water	14-JAN-2005 20:04	1.0	0.001			1	3	
016	xae16	SAMPLE	176859-009	98284	Water	14-JAN-2005 20:36	1.0	0.001	19		1	3	sh
017	xae17	SAMPLE	176984-037	98284	Water	14-JAN-2005 21:07	1.0	0.0009524	19		1	3	sh

ccv: ok
SEAL: ok

REV: 2-Methyl-naphthalene ↑ buts ED (MD)
Chrysene ↓ buts memory buts

files 12+14 did not acquire - instrument error

Stds used: 1=04WS1543 2=04WS2239 3=04WS2234

Flags used: sh=out of sample hold

Analyst: [Signature]

Date: 1/17/05

[Signature]

PS/BEB

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 17-JAN-2005

Sequence: 525025430 Instrument: MSBNA03 HP GCMS BNA 03
Analytical Method: EPA 8270C SOP Version: 8270C_rv7
Analytical Method: EPA 8270C-SIM SOP Version: 8270-SIM_rv0

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
002	vah02	TUN	NP NL			17-JAN-2005 15:50	1.0	1.0				1	
003	vah03	CCV				17-JAN-2005 16:07	1.0	1.0		1		2	
004	vah04	BS	QC279350	98284	Water	17-JAN-2005 16:40	1.0	0.001		1		3	
005	vah05	BSD	QC279351	98284	Water	17-JAN-2005 17:12	1.0	0.001		16	1	3	spk
006	vah06	SAMPLE	176956-001	98305	Soil	17-JAN-2005 17:44	1.0	0.03334	3		1	3	3: PHAN=30.8745

CCV • Naphthalene ↓, 2-methylnaphthalene ↓,
benzo (b) fluoranthene ↓, nitrobenzene-d5 ↓ (surrogate)
fail 1.0 warning limits

ICAD² OK

ICV • 2-methylnaphthalene ↑ fails 1.0
• 1,4-dioxane ↑, chrysene ↓, benzo (b) fluoranthene ↑
fails 1.0 warning limits



Stds used: 1=04WS1543 2=04WS2239 3=04WS2234
Flags used: spk=5% spike rule

Analyst: mpw
Page 1 of 1

Date: 1/18/05

J. Lettillier

Curtis & Tompkins Laboratories

Sample Preparation Summary

14-JAN-2005 14:04

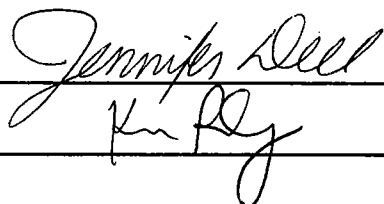
Batch Number : 98284
Date Extracted: 13-JAN-2005
Extracted by : Jennifer R Dell
Prep Method : 3520C

Analysis : 8270-SIM
Bgroup : N/A
Units : ml
Clean-up :

Spike #1 ID : 05WS0017F
Spike #2 ID : 05WS0018B
Spike #3 ID : 04WS2427A
SOP Version : 8270_SIM_rv0

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176859-009		MDL Studies	Water	1000	ml	1	0.001000	1		1	.05	.6	8270-SIM		MDL Check
176984-037		Ninyo & Moore	Water	1050	ml	1	0.000952	1	7	1	0	0	8270-SIM		
QC279349	MB		Water	1000	ml	1	0.001000	1		1	0	0	8270-SIM		
QC279350	BS		Water	1000	ml	1	0.001000	1		1	1	0	8270-SIM		
QC279351	BSD		Water	1000	ml	1	0.001000	1		1	1	0	8270-SIM		

Prep Chemist:



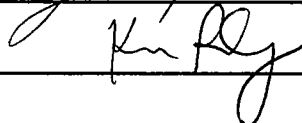
Reviewed By:



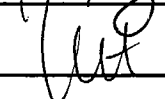
Date:

14-JAN-05

Relinquished By:



Received By:



Date:

1/14/05

Page 16

Cleanup Method (if needed):

☐ EPA 3640a GPC☐ EPA 3630c Silica Gel20

Concentrated to volumes as noted above

Mfg & Lot # / LIMS # / Time	Date / Initials
05W50017F	JRD/11305
05W50018B/0A W50487A	
JTB A30036	
11030	✓
1030	OLP 11305
N4	114:05 JR
✓	
EM 4413SA39	
✓	✓

14 May 14 JAN 05

Semivolatile Organics by GC/MS SIM

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Field ID:	B10-S-2.0-1	Batch#:	98199
Lab ID:	176984-001	Sampled:	01/05/05
Matrix:	Soil	Received:	01/05/05
Units:	ug/Kg	Prepared:	01/11/05
Basis:	dry	Analyzed:	01/12/05
Diln Fac:	1.000		

Moisture: 16%

Analyte	Result	RL
Naphthalene	ND	6.0
Acenaphthylene	ND	6.0
Acenaphthene	ND	6.0
Fluorene	ND	6.0
Phenanthrene	20	6.0
Anthracene	ND	6.0
Fluoranthene	23	6.0
Pyrene	28	6.0
Benzo(a)anthracene	12	6.0
Chrysene	23	6.0
Benzo(b)fluoranthene	17	6.0
Benzo(k)fluoranthene	15	6.0
Benzo(a)pyrene	24	6.0
Indeno(1,2,3-cd)pyrene	10	6.0
Dibenz(a,h)anthracene	ND	6.0
Benzo(g,h,i)perylene	16	6.0

Surrogate	%REC	Limits
Nitrobenzene-d5	106	32-147
2-Fluorobiphenyl	97	35-128
Terphenyl-d14	99	37-145

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 1

Semivolatile Organics by GC/MS SIM

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Field ID:	B10-S-3.5-1	Batch#:	98199
Lab ID:	176984-002	Sampled:	01/05/05
Matrix:	Soil	Received:	01/05/05
Units:	ug/Kg	Prepared:	01/11/05
Basis:	dry	Analyzed:	01/13/05
Diln Fac:	25.00		

Moisture: 15%

Analyte	Result	RL
Naphthalene	ND	150
Acenaphthylene	ND	150
Acenaphthene	ND	150
Fluorene	ND	150
Phenanthrene	540	150
Anthracene	ND	150
Fluoranthene	ND	150
Pyrene	370	150
Benzo (a) anthracene	ND	150
Chrysene	330	150
Benzo (b) fluoranthene	ND	150
Benzo (k) fluoranthene	ND	150
Benzo (a) pyrene	ND	150
Indeno (1,2,3-cd) pyrene	ND	150
Dibenz (a,h) anthracene	ND	150
Benzo (g,h,i) perylene	ND	150

Surrogate	%REC	Limits
Nitrobenzene-d5	DO	32-147
2-Fluorobiphenyl	DO	35-128
Terphenyl-d14	DO	37-145

DO= Diluted Out
 ND= Not Detected
 RL= Reporting Limit
 Page 1 of 1

Semivolatile Organics by GC/MS SIM

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Field ID:	B9-S-2.0-1	Batch#:	98199
Lab ID:	176984-004	Sampled:	01/05/05
Matrix:	Soil	Received:	01/05/05
Units:	ug/Kg	Prepared:	01/11/05
Basis:	dry	Analyzed:	01/13/05
Diln Fac:	15.00		

Moisture: 8%

Analyte	Result	RL
Naphthalene	ND	82
Acenaphthylene	ND	82
Acenaphthene	ND	82
Fluorene	ND	82
Phenanthrene	2,400	82
Anthracene	2,600	82
Fluoranthene	ND	82
Pyrene	120	82
Benzo (a) anthracene	ND	82
Chrysene	130	82
Benzo (b) fluoranthene	ND	82
Benzo (k) fluoranthene	ND	82
Benzo (a) pyrene	ND	82
Indeno (1,2,3-cd) pyrene	ND	82
Dibenz (a,h) anthracene	ND	82
Benzo (g,h,i) perylene	ND	82

Surrogate	%REC	Limits
Nitrobenzene-d5	DO	32-147
2-Fluorobiphenyl	DO	35-128
Terphenyl-d14	DO	37-145

DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
Page 1 of 1

Semivolatile Organics by GC/MS SIM

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Field ID:	B9-S-3.5-1	Batch#:	98199
Lab ID:	176984-005	Sampled:	01/05/05
Matrix:	Soil	Received:	01/05/05
Units:	ug/Kg	Prepared:	01/11/05
Basis:	dry	Analyzed:	01/12/05
Diln Fac:	1.000		

Moisture: 15%

Analyte	Result	RL
Naphthalene	ND	5.8
Acenaphthylene	7.1	5.8
Acenaphthene	ND	5.8
Fluorene	ND	5.8
Phenanthrene	58	5.8
Anthracene	10	5.8
Fluoranthene	7.5	5.8
Pyrene	79	5.8
Benzo (a) anthracene	47	5.8
Chrysene	74	5.8
Benzo (b) fluoranthene	41	5.8
Benzo (k) fluoranthene	55	5.8
Benzo (a) pyrene	63	5.8
Indeno (1,2,3-cd) pyrene	16	5.8
Dibenz (a,h) anthracene	11	5.8
Benzo (g,h,i) perylene	18	5.8

Surrogate	%REC	Limits
Nitrobenzene-d5	110	32-147
2-Fluorobiphenyl	103	35-128
Terphenyl-d14	113	37-145

ND= Not Detected

RL= Reporting Limit

Page 1 of 1

Semivolatile Organics by GC/MS SIM

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Field ID:	B9-S-5.0-1	Batch#:	98213
Lab ID:	176984-006	Sampled:	01/05/05
Matrix:	Soil	Received:	01/05/05
Units:	ug/Kg	Prepared:	01/12/05
Basis:	dry	Analyzed:	01/27/05
Diln Fac:	10.00		

Moisture: 18%

Analyte	Result	RL
Naphthalene	ND	61
Acenaphthylene	ND	61
Acenaphthene	ND	61
Fluorene	ND	61
Phenanthrene	640	61
Anthracene	ND	61
Fluoranthene	120	61
Pyrene	230	61
Benzo (a) anthracene	ND	61
Chrysene	150	61
Benzo (b) fluoranthene	ND	61
Benzo (k) fluoranthene	ND	61
Benzo (a) pyrene	ND	61
Indeno (1,2,3-cd) pyrene	ND	61
Dibenz (a,h) anthracene	ND	61
Benzo (g,h,i) perylene	ND	61

Surrogate	%REC	Limits
Nitrobenzene-d5	84	32-147
2-Fluorobiphenyl	109	35-128
Terphenyl-d14	94	37-145

Semivolatile Organics by GC/MS SIM

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Field ID:	B14-S-2.0-1	Batch#:	98199
Lab ID:	176984-007	Sampled:	01/05/05
Matrix:	Soil	Received:	01/05/05
Units:	ug/Kg	Prepared:	01/11/05
Basis:	dry	Analyzed:	01/12/05
Diln Fac:	1.000		

Moisture: 26%

Analyte	Result	RL
Naphthalene	7.4	6.8
Acenaphthylene	11	6.8
Acenaphthene	ND	6.8
Fluorene	ND	6.8
Phenanthrene	55	6.8
Anthracene	14	6.8
Fluoranthene	110	6.8
Pyrene	100	6.8
Benzo (a) anthracene	72	6.8
Chrysene	78	6.8
Benzo (b) fluoranthene	77	6.8
Benzo (k) fluoranthene	68	6.8
Benzo (a) pyrene	89	6.8
Indeno (1,2,3-cd) pyrene	65	6.8
Dibenz (a,h) anthracene	24	6.8
Benzo (g,h,i) perylene	85	6.8

Surrogate	%REC	Limits
Nitrobenzene-d5	102	32-147
2-Fluorobiphenyl	94	35-128
Terphenyl-d14	99	37-145

Semivolatile Organics by GC/MS SIM

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Field ID:	B34-S-2.0-1	Batch#:	98199
Lab ID:	176984-008	Sampled:	01/05/05
Matrix:	Soil	Received:	01/05/05
Units:	ug/Kg	Prepared:	01/11/05
Basis:	dry		

Moisture: 12%

Analyte	Result	RL	Diln Fac	Analyzed
Naphthalene	12	5.7	1.000	01/12/05
Acenaphthylene	46	5.7	1.000	01/12/05
Acenaphthene	ND	5.7	1.000	01/12/05
Fluorene	ND	5.7	1.000	01/12/05
Phenanthrene	150	5.7	1.000	01/12/05
Anthracene	30	5.7	1.000	01/12/05
Fluoranthene	630	29	5.000	01/13/05
Pyrene	810	29	5.000	01/13/05
Benzo (a) anthracene	240	5.7	1.000	01/12/05
Chrysene	320	5.7	1.000	01/12/05
Benzo (b) fluoranthene	340	29	5.000	01/13/05
Benzo (k) fluoranthene	310	5.7	1.000	01/12/05
Benzo (a) pyrene	510	29	5.000	01/13/05
Indeno (1,2,3-cd) pyrene	270	5.7	1.000	01/12/05
Dibenz (a,h) anthracene	57	5.7	1.000	01/12/05
Benzo (g,h,i) perylene	320	5.7	1.000	01/12/05

Surrogate	%REC	Limits	Diln Fac	Analyzed
Nitrobenzene-d5	100	32-147	1.000	01/12/05
2-Fluorobiphenyl	95	35-128	1.000	01/12/05
Terphenyl-d14	97	37-145	1.000	01/12/05

Semivolatile Organics by GC/MS SIM

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Field ID:	B14-S-3.5-1	Batch#:	98199
Lab ID:	176984-009	Sampled:	01/05/05
Matrix:	Soil	Received:	01/05/05
Units:	ug/Kg	Prepared:	01/11/05
Basis:	dry	Analyzed:	01/12/05
Diln Fac:	1.000		

Moisture: 15%

Analyte	Result	RL
Naphthalene	7.5	5.9
Acenaphthylene	ND	5.9
Acenaphthene	ND	5.9
Fluorene	ND	5.9
Phenanthrene	ND	5.9
Anthracene	ND	5.9
Fluoranthene	ND	5.9
Pyrene	ND	5.9
Benzo (a) anthracene	ND	5.9
Chrysene	ND	5.9
Benzo (b) fluoranthene	ND	5.9
Benzo (k) fluoranthene	ND	5.9
Benzo (a) pyrene	ND	5.9
Indeno (1,2,3-cd) pyrene	ND	5.9
Dibenz (a,h) anthracene	ND	5.9
Benzo (g,h,i) perylene	ND	5.9

Surrogate	%REC	Limits
Nitrobenzene-d5	99	32-147
2-Fluorobiphenyl	92	35-128
Terphenyl-d14	92	37-145

Semivolatile Organics by GC/MS SIM

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Field ID:	B15-S-2.0-1	Batch#:	98199
Lab ID:	176984-011	Sampled:	01/05/05
Matrix:	Soil	Received:	01/05/05
Units:	ug/Kg	Prepared:	01/11/05
Basis:	dry	Analyzed:	01/12/05
Diln Fac:	1.000		

Moisture: 13%

Analyte	Result	RL
Naphthalene	7.5	5.8
Acenaphthylene	26	5.8
Acenaphthene	ND	5.8
Fluorene	ND	5.8
Phenanthrene	67	5.8
Anthracene	14	5.8
Fluoranthene	240	5.8
Pyrene	340	5.8
Benzo (a) anthracene	120	5.8
Chrysene	170	5.8
Benzo (b) fluoranthene	260	5.8
Benzo (k) fluoranthene	190	5.8
Benzo (a) pyrene	330	5.8
Indeno (1,2,3-cd) pyrene	160	5.8
Dibenz (a,h) anthracene	32	5.8
Benzo (g,h,i) perylene	180	5.8

Surrogate	%REC	Limits
Nitrobenzene-d5	96	32-147
2-Fluorobiphenyl	86	35-128
Terphenyl-d14	87	37-145

ND= Not Detected

RL= Reporting Limit

Page 1 of 1

Semivolatile Organics by GC/MS SIM

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Field ID:	B15-S-3.5-1	Batch#:	98199
Lab ID:	176984-012	Sampled:	01/05/05
Matrix:	Soil	Received:	01/05/05
Units:	ug/Kg	Prepared:	01/11/05
Basis:	dry	Analyzed:	01/12/05
Diln Fac:	1.000		

Moisture: 16%

Analyte	Result	RL
Naphthalene	ND	6.0
Acenaphthylene	ND	6.0
Acenaphthene	ND	6.0
Fluorene	ND	6.0
Phenanthrene	6.2	6.0
Anthracene	ND	6.0
Fluoranthene	9.7	6.0
Pyrene	12	6.0
Benzo (a) anthracene	ND	6.0
Chrysene	7.3	6.0
Benzo (b) fluoranthene	6.1	6.0
Benzo (k) fluoranthene	ND	6.0
Benzo (a) pyrene	6.3	6.0
Indeno (1,2,3-cd) pyrene	ND	6.0
Dibenz (a,h) anthracene	ND	6.0
Benzo (g,h,i) perylene	ND	6.0

Surrogate	%REC	Limits
Nitrobenzene-d5	100	32-147
2-Fluorobiphenyl	92	35-128
Terphenyl-d14	91	37-145

Semivolatile Organics by GC/MS SIM

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Field ID:	B5B-S-2.0-1	Batch#:	98199
Lab ID:	176984-014	Sampled:	01/05/05
Matrix:	Soil	Received:	01/05/05
Units:	ug/Kg	Prepared:	01/11/05
Basis:	dry	Analyzed:	01/13/05
Diln Fac:	5.000		

Moisture: 17%

Analyte	Result	RL
Naphthalene	ND	30
Acenaphthylene	ND	30
Acenaphthene	ND	30
Fluorene	ND	30
Phenanthrene	74	30
Anthracene	ND	30
Fluoranthene	83	30
Pyrene	89	30
Benzo (a) anthracene	54	30
Chrysene	100	30
Benzo (b) fluoranthene	68	30
Benzo (k) fluoranthene	58	30
Benzo (a) pyrene	73	30
Indeno (1,2,3-cd) pyrene	57	30
Dibenz (a,h) anthracene	ND	30
Benzo (g,h,i) perylene	75	30

Surrogate	%REC	Limits
Nitrobenzene-d5	137	32-147
2-Fluorobiphenyl	118	35-128
Terphenyl-d14	112	37-145

Semivolatile Organics by GC/MS SIM

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Field ID:	B5B-S-3.5-1	Batch#:	98199
Lab ID:	176984-015	Sampled:	01/05/05
Matrix:	Soil	Received:	01/05/05
Units:	ug/Kg	Prepared:	01/11/05
Basis:	dry	Analyzed:	01/12/05
Diln Fac:	1.000		

Moisture: 18%

Analyte	Result	RL
Naphthalene	ND	6.1
Acenaphthylene	ND	6.1
Acenaphthene	ND	6.1
Fluorene	ND	6.1
Phenanthrene	ND	6.1
Anthracene	ND	6.1
Fluoranthene	ND	6.1
Pyrene	ND	6.1
Benzo (a) anthracene	ND	6.1
Chrysene	ND	6.1
Benzo (b) fluoranthene	ND	6.1
Benzo (k) fluoranthene	ND	6.1
Benzo (a) pyrene	ND	6.1
Indeno (1,2,3-cd) pyrene	ND	6.1
Dibenz (a,h) anthracene	ND	6.1
Benzo (g,h,i) perylene	ND	6.1

Surrogate	%REC	Limits
Nitrobenzene-d5	95	32-147
2-Fluorobiphenyl	86	35-128
Terphenyl-d14	92	37-145

Semivolatile Organics by GC/MS SIM

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Field ID:	B7-S-2.0-1	Batch#:	98199
Lab ID:	176984-017	Sampled:	01/05/05
Matrix:	Soil	Received:	01/05/05
Units:	ug/Kg	Prepared:	01/11/05
Basis:	dry	Analyzed:	01/12/05
Diln Fac:	1.000		

Moisture: 11%

Analyte	Result	RL
Naphthalene	ND	5.7
Acenaphthylene	ND	5.7
Acenaphthene	ND	5.7
Fluorene	ND	5.7
Phenanthrene	7.2	5.7
Anthracene	ND	5.7
Fluoranthene	12	5.7
Pyrene	15	5.7
Benzo (a) anthracene	7.3	5.7
Chrysene	9.7	5.7
Benzo (b) fluoranthene	9.9	5.7
Benzo (k) fluoranthene	8.8	5.7
Benzo (a) pyrene	11	5.7
Indeno (1,2,3-cd) pyrene	ND	5.7
Dibenz (a,h) anthracene	ND	5.7
Benzo (g,h,i) perylene	ND	5.7

Surrogate	%REC	Limits
Nitrobenzene-d5	106	32-147
2-Fluorobiphenyl	99	35-128
Terphenyl-d14	106	37-145

Semivolatile Organics by GC/MS SIM

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Field ID:	B7-S-3.5-1	Batch#:	98199
Lab ID:	176984-018	Sampled:	01/05/05
Matrix:	Soil	Received:	01/05/05
Units:	ug/Kg	Prepared:	01/11/05
Basis:	dry	Analyzed:	01/12/05
Diln Fac:	1.000		

Moisture: 15%

Analyte	Result	RL
Naphthalene	ND	5.8
Acenaphthylene	ND	5.8
Acenaphthene	ND	5.8
Fluorene	ND	5.8
Phenanthrene	ND	5.8
Anthracene	ND	5.8
Fluoranthene	ND	5.8
Pyrene	ND	5.8
Benzo (a) anthracene	ND	5.8
Chrysene	ND	5.8
Benzo (b) fluoranthene	ND	5.8
Benzo (k) fluoranthene	ND	5.8
Benzo (a) pyrene	ND	5.8
Indeno (1,2,3-cd) pyrene	ND	5.8
Dibenz (a,h) anthracene	ND	5.8
Benzo (g,h,i) perylene	ND	5.8

Surrogate	%REC	Limits
Nitrobenzene-d5	94	32-147
2-Fluorobiphenyl	89	35-128
Terphenyl-d14	92	37-145

ND= Not Detected

RL= Reporting Limit

Page 1 of 1

Semivolatile Organics by GC/MS SIM

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Field ID:	B8-S-2.0-1	Batch#:	98199
Lab ID:	176984-020	Sampled:	01/05/05
Matrix:	Soil	Received:	01/05/05
Units:	ug/Kg	Prepared:	01/11/05
Basis:	dry	Analyzed:	01/12/05
Diln Fac:	1.000		

Moisture: 11%

Analyte	Result	RL
Naphthalene	ND	5.7
Acenaphthylene	ND	5.7
Acenaphthene	ND	5.7
Fluorene	ND	5.7
Phenanthrene	ND	5.7
Anthracene	ND	5.7
Fluoranthene	ND	5.7
Pyrene	ND	5.7
Benzo (a) anthracene	ND	5.7
Chrysene	ND	5.7
Benzo (b) fluoranthene	ND	5.7
Benzo (k) fluoranthene	ND	5.7
Benzo (a) pyrene	ND	5.7
Indeno (1,2,3-cd) pyrene	ND	5.7
Dibenz (a,h) anthracene	ND	5.7
Benzo (g,h,i) perylene	ND	5.7

Surrogate	%REC	Limits
Nitrobenzene-d5	115	32-147
2-Fluorobiphenyl	110	35-128
Terphenyl-d14	116	37-145

ND= Not Detected

RL= Reporting Limit

Page 1 of 1

Semivolatile Organics by GC/MS SIM

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Field ID:	B8-S-3.5-1	Batch#:	98199
Lab ID:	176984-021	Sampled:	01/05/05
Matrix:	Soil	Received:	01/05/05
Units:	ug/Kg	Prepared:	01/11/05
Basis:	dry	Analyzed:	01/12/05
Diln Fac:	1.000		

Moisture: 19%

Analyte	Result	RL
Naphthalene	ND	6.2
Acenaphthylene	ND	6.2
Acenaphthene	ND	6.2
Fluorene	ND	6.2
Phenanthrene	67	6.2
Anthracene	7.6	6.2
Fluoranthene	29	6.2
Pyrene	43	6.2
Benzo (a) anthracene	15	6.2
Chrysene	33	6.2
Benzo (b) fluoranthene	36	6.2
Benzo (k) fluoranthene	15	6.2
Benzo (a) pyrene	19	6.2
Indeno (1,2,3-cd) pyrene	7.7	6.2
Dibenz (a,h) anthracene	ND	6.2
Benzo (g,h,i) perylene	11	6.2

Surrogate	%REC	Limits
Nitrobenzene-d5	108	32-147
2-Fluorobiphenyl	96	35-128
Terphenyl-d14	110	37-145

Semivolatile Organics by GC/MS SIM

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Field ID:	B12-S-2.0-1	Batch#:	98199
Lab ID:	176984-023	Sampled:	01/05/05
Matrix:	Soil	Received:	01/05/05
Units:	ug/Kg	Prepared:	01/11/05
Basis:	dry	Analyzed:	01/13/05
Diln Fac:	50.00		

Moisture: 18%

Analyte	Result	RL
Naphthalene	ND	310
Acenaphthylene	ND	310
Acenaphthene	ND	310
Fluorene	310	310
Phenanthrene	2,800	310
Anthracene	ND	310
Fluoranthene	ND	310
Pyrene	ND	310
Benzo (a) anthracene	ND	310
Chrysene	ND	310
Benzo (b) fluoranthene	ND	310
Benzo (k) fluoranthene	ND	310
Benzo (a) pyrene	ND	310
Indeno (1,2,3-cd) pyrene	ND	310
Dibenz (a,h) anthracene	ND	310
Benzo (g,h,i) perylene	ND	310

Surrogate	%REC	Limits
Nitrobenzene-d5	DO	32-147
2-Fluorobiphenyl	DO	35-128
Terphenyl-d14	DO	37-145

DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
Page 1 of 1

Semivolatile Organics by GC/MS SIM

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Field ID:	B12-S-3.5-1	Batch#:	98164
Lab ID:	176984-024	Sampled:	01/05/05
Matrix:	Soil	Received:	01/05/05
Units:	ug/Kg	Prepared:	01/10/05
Basis:	dry	Analyzed:	01/13/05
Diln Fac:	10.00		

Moisture: 14%

Analyte	Result	RL
Naphthalene	ND	58
Acenaphthylene	ND	58
Acenaphthene	ND	58
Fluorene	ND	58
Phenanthrene	ND	58
Anthracene	ND	58
Fluoranthene	ND	58
Pyrene	ND	58
Benzo (a) anthracene	ND	58
Chrysene	ND	58
Benzo (b) fluoranthene	ND	58
Benzo (k) fluoranthene	ND	58
Benzo (a) pyrene	ND	58
Indeno (1,2,3-cd) pyrene	ND	58
Dibenz (a,h) anthracene	ND	58
Benzo (g,h,i) perylene	ND	58

Surrogate	%REC	Limits
Nitrobenzene-d5	109	32-147
2-Fluorobiphenyl	109	35-128
Terphenyl-d14	110	37-145

Semivolatile Organics by GC/MS SIM

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Field ID:	B11-S-2.0-1	Batch#:	98164
Lab ID:	176984-026	Sampled:	01/05/05
Matrix:	Soil	Received:	01/05/05
Units:	ug/Kg	Prepared:	01/10/05
Basis:	dry	Analyzed:	01/13/05
Diln Fac:	50.00		

Moisture: 9%

Analyte	Result	RL
Naphthalene	ND	270
Acenaphthylene	ND	270
Acenaphthene	ND	270
Fluorene	ND	270
Phenanthrene	350	270
Anthracene	ND	270
Fluoranthene	ND	270
Pyrene	320	270
Benzo (a) anthracene	ND	270
Chrysene	ND	270
Benzo (b) fluoranthene	ND	270
Benzo (k) fluoranthene	ND	270
Benzo (a) pyrene	ND	270
Indeno (1,2,3-cd) pyrene	ND	270
Dibenz (a,h) anthracene	ND	270
Benzo (g,h,i) perylene	ND	270

Surrogate	%REC	Limits
Nitrobenzene-d5	DO	32-147
2-Fluorobiphenyl	DO	35-128
Terphenyl-d14	DO	37-145

DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
Page 1 of 1

Semivolatile Organics by GC/MS SIM			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Field ID:	B11-S-3.5-1	Batch#:	98164
Lab ID:	176984-027	Sampled:	01/05/05
Matrix:	Soil	Received:	01/05/05
Units:	ug/Kg	Prepared:	01/10/05
Basis:	dry	Analyzed:	01/13/05
Diln Fac:	10.00		

Moisture: 11%

Analyte	Result	RL
Naphthalene	ND	56
Acenaphthylene	ND	56
Acenaphthene	ND	56
Fluorene	ND	56
Phenanthrene	ND	56
Anthracene	ND	56
Fluoranthene	ND	56
Pyrene	ND	56
Benzo (a) anthracene	ND	56
Chrysene	ND	56
Benzo (b) fluoranthene	ND	56
Benzo (k) fluoranthene	ND	56
Benzo (a) pyrene	ND	56
Indeno (1,2,3-cd) pyrene	ND	56
Dibenz (a,h) anthracene	ND	56
Benzo (g,h,i) perylene	77	56

Surrogate	%REC	Limits
Nitrobenzene-d5	93	32-147
2-Fluorobiphenyl	92	35-128
Terphenyl-d14	96	37-145

Semivolatile Organics by GC/MS SIM

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Field ID:	B6-S-2.0-1	Batch#:	98164
Lab ID:	176984-029	Sampled:	01/05/05
Matrix:	Soil	Received:	01/05/05
Units:	ug/Kg	Prepared:	01/10/05
Basis:	dry	Analyzed:	01/13/05
Diln Fac:	5.000		

Moisture: 6%

Analyte	Result	RL
Naphthalene	ND	27
Acenaphthylene	ND	27
Acenaphthene	ND	27
Fluorene	ND	27
Phenanthrene	45	27
Anthracene	ND	27
Fluoranthene	ND	27
Pyrene	ND	27
Benzo (a) anthracene	ND	27
Chrysene	ND	27
Benzo (b) fluoranthene	ND	27
Benzo (k) fluoranthene	ND	27
Benzo (a) pyrene	ND	27
Indeno (1,2,3-cd) pyrene	ND	27
Dibenz (a,h) anthracene	ND	27
Benzo (g,h,i) perylene	ND	27

Surrogate	%REC	Limits
Nitrobenzene-d5	107	32-147
2-Fluorobiphenyl	98	35-128
Terphenyl-d14	105	37-145

Semivolatile Organics by GC/MS SIM

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Field ID:	B25-S-2.0-1	Batch#:	98164
Lab ID:	176984-031	Sampled:	01/05/05
Matrix:	Soil	Received:	01/05/05
Units:	ug/Kg	Prepared:	01/10/05
Basis:	dry	Analyzed:	01/13/05
Diln Fac:	20.00		

Moisture: 13%

Analyte	Result	RL
Naphthalene	ND	120
Acenaphthylene	ND	120
Acenaphthene	190	120
Fluorene	1,900	120
Phenanthrene	5,600	120
Anthracene	220	120
Fluoranthene	310	120
Pyrene	720	120
Benzo (a) anthracene	ND	120
Chrysene	380	120
Benzo (b) fluoranthene	ND	120
Benzo (k) fluoranthene	ND	120
Benzo (a) pyrene	ND	120
Indeno (1,2,3-cd) pyrene	ND	120
Dibenz (a,h) anthracene	ND	120
Benzo (g,h,i) perylene	ND	120

Surrogate	%REC	Limits
Nitrobenzene-d5	DO	32-147
2-Fluorobiphenyl	DO	35-128
Terphenyl-d14	DO	37-145

DO= Diluted Out

ND= Not Detected

RL= Reporting Limit

Page 1 of 1

Semivolatile Organics by GC/MS SIM

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Field ID:	B5-S-3.5-1	Batch#:	98164
Lab ID:	176984-032	Sampled:	01/05/05
Matrix:	Soil	Received:	01/05/05
Units:	ug/Kg	Prepared:	01/10/05
Basis:	dry		

Moisture: 18%

Analyte	Result	RL	Diln Fac	Analyzed
Naphthalene	13	6.1	1.000	01/10/05
Acenaphthylene	12	6.1	1.000	01/10/05
Acenaphthene	13	6.1	1.000	01/10/05
Fluorene	13	6.1	1.000	01/10/05
Phenanthrene	560	31	5.000	01/13/05
Anthracene	44	6.1	1.000	01/10/05
Fluoranthene	39	6.1	1.000	01/10/05
Pyrene	69	31	5.000	01/13/05
Benzo (a) anthracene	10	6.1	1.000	01/10/05
Chrysene	36	6.1	1.000	01/10/05
Benzo (b) fluoranthene	6.4	6.1	1.000	01/10/05
Benzo (k) fluoranthene	ND	6.1	1.000	01/10/05
Benzo (a) pyrene	ND	6.1	1.000	01/10/05
Indeno (1,2,3-cd) pyrene	ND	6.1	1.000	01/10/05
Dibenz (a,h) anthracene	ND	6.1	1.000	01/10/05
Benzo (g,h,i) perylene	ND	6.1	1.000	01/10/05

Surrogate	%REC	Limits	Diln Fac	Analyzed
Nitrobenzene-d5	105	32-147	1.000	01/10/05
2-Fluorobiphenyl	76	35-128	1.000	01/10/05
Terphenyl-d14	104	37-145	1.000	01/10/05

Semivolatile Organics by GC/MS SIM

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Field ID:	B22-S-3.5-1	Batch#:	98164
Lab ID:	176984-033	Sampled:	01/05/05
Matrix:	Soil	Received:	01/05/05
Units:	ug/Kg	Prepared:	01/10/05
Basis:	dry	Analyzed:	01/11/05
Diln Fac:	1.000		

Moisture: 14%

Analyte	Result	RL
Naphthalene	ND	5.8
Acenaphthylene	ND	5.8
Acenaphthene	ND	5.8
Fluorene	ND	5.8
Phenanthrene	ND	5.8
Anthracene	ND	5.8
Fluoranthene	ND	5.8
Pyrene	ND	5.8
Benzo (a) anthracene	ND	5.8
Chrysene	ND	5.8
Benzo (b) fluoranthene	ND	5.8
Benzo (k) fluoranthene	ND	5.8
Benzo (a) pyrene	ND	5.8
Indeno (1,2,3-cd) pyrene	ND	5.8
Dibenz (a,h) anthracene	ND	5.8
Benzo (g,h,i) perylene	ND	5.8

Surrogate	%REC	Limits
Nitrobenzene-d5	67	32-147
2-Fluorobiphenyl	62	35-128
Terphenyl-d14	61	37-145

Semivolatile Organics by GC/MS SIM

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Field ID:	B42-S-3.5-1	Batch#:	98164
Lab ID:	176984-034	Sampled:	01/05/05
Matrix:	Soil	Received:	01/05/05
Units:	ug/Kg	Prepared:	01/10/05
Basis:	dry	Analyzed:	01/14/05
Diln Fac:	1.000		

Moisture: 18%

Analyte	Result	RL
Naphthalene	ND	6.1
Acenaphthylene	ND	6.1
Acenaphthene	ND	6.1
Fluorene	ND	6.1
Phenanthrene	ND	6.1
Anthracene	ND	6.1
Fluoranthene	7.5	6.1
Pyrene	8.5	6.1
Benzo (a) anthracene	ND	6.1
Chrysene	ND	6.1
Benzo (b) fluoranthene	ND	6.1
Benzo (k) fluoranthene	ND	6.1
Benzo (a) pyrene	ND	6.1
Indeno (1,2,3-cd) pyrene	ND	6.1
Dibenz (a,h) anthracene	ND	6.1
Benzo (g,h,i) perylene	ND	6.1

Surrogate	%REC	Limits
Nitrobenzene-d5	100	32-147
2-Fluorobiphenyl	83	35-128
Terphenyl-d14	79	37-145

Semivolatile Organics by GC/MS SIM

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Field ID:	B18-S-2.0-1	Batch#:	98305
Lab ID:	176984-038	Sampled:	01/05/05
Matrix:	Soil	Received:	01/05/05
Units:	ug/Kg	Prepared:	01/14/05
Basis:	dry	Analyzed:	01/14/05
Diln Fac:	1.000		

Moisture: 5%

Analyte	Result	RL
Naphthalene	6.7	5.3
Acenaphthylene	ND	5.3
Acenaphthene	ND	5.3
Fluorene	ND	5.3
Phenanthrene	36	5.3
Anthracene	ND	5.3
Fluoranthene	9.9	5.3
Pyrene	15	5.3
Benzo (a) anthracene	ND	5.3
Chrysene	14	5.3
Benzo (b) fluoranthene	ND	5.3
Benzo (k) fluoranthene	17	5.3
Benzo (a) pyrene	8.7	5.3
Indeno (1,2,3-cd) pyrene	ND	5.3
Dibenz (a,h) anthracene	ND	5.3
Benzo (g,h,i) perylene	7.6	5.3

Surrogate	%REC	Limits
Nitrobenzene-d5	101	32-147
2-Fluorobiphenyl	102	35-128
Terphenyl-d14	125	37-145

ND= Not Detected
RL= Reporting Limit
Page 1 of 1

Semivolatile Organics by GC/MS SIM

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Field ID:	B18-S-3.5-1	Batch#:	98305
Lab ID:	176984-039	Sampled:	01/05/05
Matrix:	Soil	Received:	01/05/05
Units:	ug/Kg	Prepared:	01/14/05
Basis:	dry	Analyzed:	01/14/05
Diln Fac:	1.000		

Moisture: 14%

Analyte	Result	RL
Naphthalene	ND	5.9
Acenaphthylene	ND	5.9
Acenaphthene	ND	5.9
Fluorene	ND	5.9
Phenanthrene	15	5.9
Anthracene	ND	5.9
Fluoranthene	24	5.9
Pyrene	27	5.9
Benzo (a) anthracene	11	5.9
Chrysene	16	5.9
Benzo (b) fluoranthene	11	5.9
Benzo (k) fluoranthene	11	5.9
Benzo (a) pyrene	14	5.9
Indeno (1,2,3-cd) pyrene	9.5	5.9
Dibenz (a,h) anthracene	ND	5.9
Benzo (g,h,i) perylene	11	5.9

Surrogate	%REC	Limits
Nitrobenzene-d5	89	32-147
2-Fluorobiphenyl	93	35-128
Terphenyl-d14	101	37-145

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 1

Batch QC Report

Semivolatile Organics by GC/MS SIM			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC278889	Batch#:	98164
Matrix:	Soil	Prepared:	01/10/05
Units:	ug/Kg	Analyzed:	01/10/05
Basis:	as received		

Analyte	Result	RL
Naphthalene	ND	5.0
Acenaphthylene	ND	5.0
Acenaphthene	ND	5.0
Fluorene	ND	5.0
Phenanthrene	ND	5.0
Anthracene	ND	5.0
Fluoranthene	ND	5.0
Pyrene	ND	5.0
Benzo (a) anthracene	ND	5.0
Chrysene	ND	5.0
Benzo (b) fluoranthene	ND	5.0
Benzo (k) fluoranthene	ND	5.0
Benzo (a) pyrene	ND	5.0
Indeno (1, 2, 3-cd) pyrene	ND	5.0
Dibenz (a, h) anthracene	ND	5.0
Benzo (g, h, i) perylene	ND	5.0

Surrogate	%REC	Limits
Nitrobenzene-d5	84	32-147
2-Fluorobiphenyl	87	35-128
Terphenyl-d14	108	37-145

Batch QC Report

Semivolatile Organics by GC/MS SIM			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC279009	Batch#:	98199
Matrix:	Soil	Prepared:	01/11/05
Units:	ug/Kg	Analyzed:	01/12/05
Basis:	as received		

Analyte	Result	RL
Naphthalene	ND	5.0
Acenaphthylene	ND	5.0
Acenaphthene	ND	5.0
Fluorene	ND	5.0
Phenanthrene	ND	5.0
Anthracene	ND	5.0
Fluoranthene	ND	5.0
Pyrene	ND	5.0
Benzo (a) anthracene	ND	5.0
Chrysene	ND	5.0
Benzo (b) fluoranthene	ND	5.0
Benzo (k) fluoranthene	ND	5.0
Benzo (a) pyrene	ND	5.0
Indeno (1,2,3-cd) pyrene	ND	5.0
Dibenz (a,h) anthracene	ND	5.0
Benzo (g,h,i) perylene	ND	5.0

Surrogate	%REC	Limits
Nitrobenzene-d5	98	32-147
2-Fluorobiphenyl	93	35-128
Terphenyl-d14	98	37-145

ND= Not Detected

RL= Reporting Limit

Page 1 of 1

Batch QC Report

Semivolatile Organics by GC/MS SIM			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC279057	Batch#:	98213
Matrix:	Soil	Prepared:	01/12/05
Units:	ug/Kg	Analyzed:	01/12/05
Basis:	as received		

Analyte	Result	RL
Naphthalene	ND	4.9
Acenaphthylene	ND	4.9
Acenaphthene	ND	4.9
Fluorene	ND	4.9
Phenanthrene	ND	4.9
Anthracene	ND	4.9
Fluoranthene	ND	4.9
Pyrene	ND	4.9
Benzo (a) anthracene	ND	4.9
Chrysene	ND	4.9
Benzo (b) fluoranthene	ND	4.9
Benzo (k) fluoranthene	ND	4.9
Benzo (a) pyrene	ND	4.9
Indeno (1,2,3-cd) pyrene	ND	4.9
Dibenz (a,h) anthracene	ND	4.9
Benzo (g,h,i) perylene	ND	4.9

Surrogate	%REC	Limits
Nitrobenzene-d5	65	32-147
2-Fluorobiphenyl	93	35-128
Terphenyl-d14	100	37-145

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC279426	Batch#:	98305
Matrix:	Soil	Prepared:	01/14/05
Units:	ug/Kg	Analyzed:	01/14/05
Basis:	as received		

Analyte	Result	RL
Naphthalene	ND	5.0
Acenaphthylene	ND	5.0
Acenaphthene	ND	5.0
Fluorene	ND	5.0
Phenanthrene	ND	5.0
Anthracene	ND	5.0
Fluoranthene	ND	5.0
Pyrene	ND	5.0
Benzo (a) anthracene	ND	5.0
Chrysene	ND	5.0
Benzo (b) fluoranthene	ND	5.0
Benzo (k) fluoranthene	ND	5.0
Benzo (a) pyrene	ND	5.0
Indeno (1,2,3-cd) pyrene	ND	5.0
Dibenz (a,h) anthracene	ND	5.0
Benzo (g,h,i) perylene	ND	5.0

Surrogate	%REC	Limits
Nitrobenzene-d5	70	32-147
2-Fluorobiphenyl	86	35-128
Terphenyl-d14	97	37-145

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 1

Batch QC Report

Semivolatile Organics by GC/MS SIM			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC278890	Batch#:	98164
Matrix:	Soil	Prepared:	01/10/05
Units:	ug/Kg	Analyzed:	01/11/05
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	33.24	26.28	79	47-131
Pyrene	33.24	26.90	81	42-130

Surrogate	%REC	Limits
Nitrobenzene-d5	78	32-147
2-Fluorobiphenyl	80	35-128
Terphenyl-d14	77	37-145



Batch QC Report

Semivolatile Organics by GC/MS SIM			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Field ID:	B22-S-3.5-1	Batch#:	98164
MSS Lab ID:	176984-033	Sampled:	01/05/05
Matrix:	Soil	Received:	01/05/05
Units:	ug/Kg	Prepared:	01/10/05
Basis:	dry	Analyzed:	01/11/05
Diln Fac:	1.000		

Type: MS
Lab ID: QC278891

Moisture: 14%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Acenaphthene	<0.8929	38.34	26.02	68	38-141
Pyrene	2.909	38.34	28.43	67	16-170

Surrogate	%REC	Limits
Nitrobenzene-d5	74	32-147
2-Fluorobiphenyl	66	35-128
Terphenyl-d14	64	37-145

Type: MSD
Lab ID: QC278892

Moisture: 14%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	39.03	29.38	75	38-141	10	43
Pyrene	39.03	32.54	76	16-170	12	57

Surrogate	%REC	Limits
Nitrobenzene-d5	82	32-147
2-Fluorobiphenyl	75	35-128
Terphenyl-d14	71	37-145

Batch QC Report

Semivolatile Organics by GC/MS SIM			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC279010	Batch#:	98199
Matrix:	Soil	Prepared:	01/11/05
Units:	ug/Kg	Analyzed:	01/12/05
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	33.50	34.55	103	47-131
Pyrene	33.50	35.66	106	42-130

Surrogate	%REC	Limits
Nitrobenzene-d5	115	32-147
2-Fluorobiphenyl	114	35-128
Terphenyl-d14	114	37-145

Batch QC Report

Semivolatile Organics by GC/MS SIM			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Field ID:	B14-S-2.0-1	Batch#:	98199
MSS Lab ID:	176984-007	Sampled:	01/05/05
Matrix:	Soil	Received:	01/05/05
Units:	ug/Kg	Prepared:	01/11/05
Basis:	dry	Analyzed:	01/12/05
Diln Fac:	1.000		

Type: MS Moisture: 26%
Lab ID: QC279011

Analyte	MSS Result	Spiked	Result	%REC	Limits
Acenaphthene	<1.040	45.44	44.36	98	38-141
Pyrene	100.7	45.44	204.6	229 *	16-170

Surrogate	%REC	Limits
Nitrobenzene-d5	113	32-147
2-Fluorobiphenyl	100	35-128
Terphenyl-d14	110	37-145

Type: MSD Moisture: 26%
Lab ID: QC279012

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	45.47	39.70	87	38-141	11	43
Pyrene	45.47	211.9	245 *	16-170	3	57

Surrogate	%REC	Limits
Nitrobenzene-d5	97	32-147
2-Fluorobiphenyl	89	35-128
Terphenyl-d14	97	37-145

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

Page 1 of 1

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC279058	Batch#:	98213
Matrix:	Soil	Prepared:	01/12/05
Units:	ug/Kg	Analyzed:	01/12/05
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	33.41	29.87	89	47-131
Pyrene	33.41	28.99	87	42-130

Surrogate	%REC	Limits
Nitrobenzene-d5	73	32-147
2-Fluorobiphenyl	95	35-128
Terphenyl-d14	98	37-145

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC279427	Batch#:	98305
Matrix:	Soil	Prepared:	01/14/05
Units:	ug/Kg	Analyzed:	01/14/05
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	33.50	31.34	94	47-131
Pyrene	33.50	32.20	96	42-130

Surrogate	%REC	Limits
Nitrobenzene-d5	82	32-147
2-Fluorobiphenyl	89	35-128
Terphenyl-d14	94	37-145



Semivolatile Organics by GC/MS SIM

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3550
Project#:	400582002	Analysis:	EPA 8270C-SIM
Field ID:	B19-S-3.5-1	Batch#:	98305
MSS Lab ID:	176961-010	Sampled:	01/04/05
Matrix:	Soil	Received:	01/04/05
Units:	ug/Kg	Prepared:	01/14/05
Basis:	dry	Analyzed:	01/14/05
Diln Fac:	1.000		

Moisture: 20%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Acenaphthene	<1.564	41.71	42.47	102	38-141
Pyrene	28.79	41.71	56.48	66	16-170

Surrogate	%REC	Limits
Nitrobenzene-d5	92	32-147
2-Fluorobiphenyl	94	35-128
Terphenyl-d14	104	37-145

Moisture: 20%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	41.71	40.62	97	38-141	4	43
Pyrene	41.71	58.01	70	16-170	3	57

Surrogate	%REC	Limits
Nitrobenzene-d5	87	32-147
2-Fluorobiphenyl	91	35-128
Terphenyl-d14	102	37-145

Page 1 of 1

Data File: \\GCHSSERVER\DD\chem\MSBNA03.i\112304.b\VKNO6.D

Date : 23-NOV-2004 18:26

Client ID: dftpp tune std

Sample Info: TUN,04WS1543

Instrument: MSBNA03.i

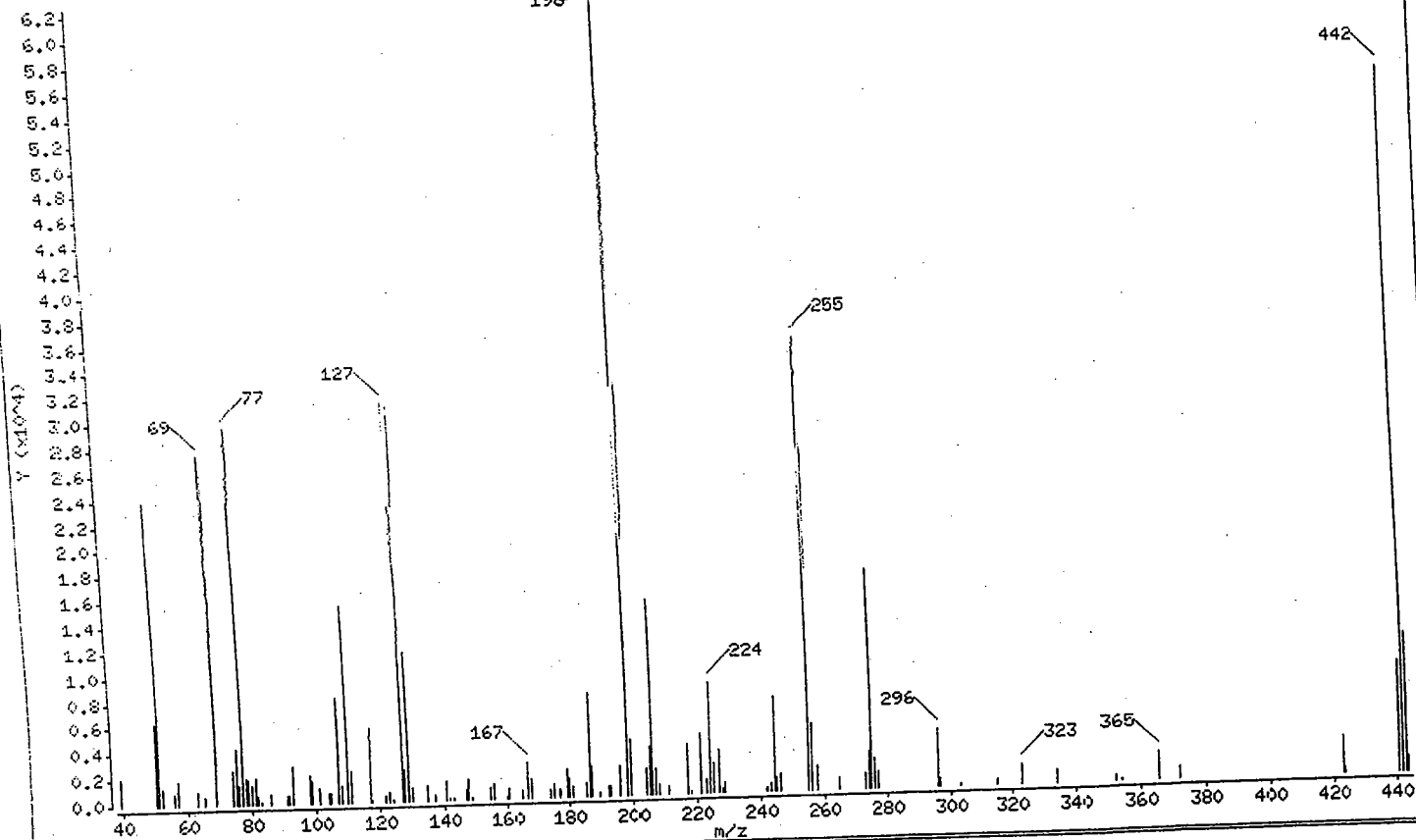
Operator: BVD

Column diameter: 0.25

Column phase: Xti 5

1 dftpp

Avg. Scans 124-126 (5.26), Background Scan 108



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	38.03
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	43.88
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	50.03
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.81
275	10.00 - 30.00% of mass 198	27.49
365	Greater than 1.00% of mass 198	3.40
441	Present, but less than mass 443	13.91
442	40.00 - 99.99% of mass 198	88.63
443	17.00 - 23.00% of mass 442	17.36 (19.58)

87051M
842

11/24/04

Date : 10-JAN-2005 16:12

Client ID: dftpp tune std

Instrument: MSBNA03.i

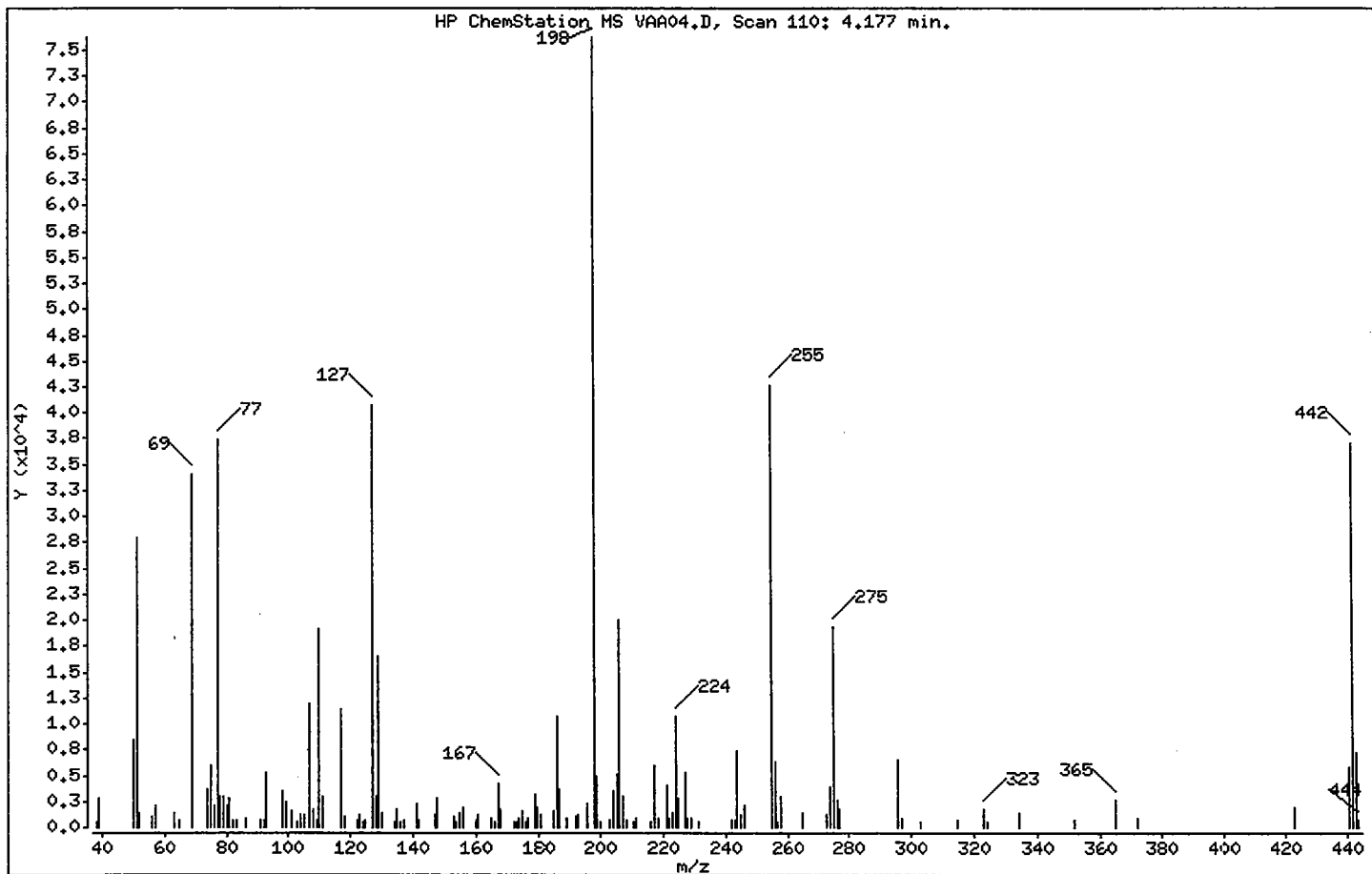
Sample Info: TUN,04WS1543

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	36.64
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	44.66
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	53.45
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.56
275	10.00 - 30.00% of mass 198	25.44
365	Greater than 1.00% of mass 198	3.40
441	Present, but less than mass 443	7.62
442	40.00 - 99.99% of mass 198	48.56
443	17.00 - 23.00% of mass 442	9.37 (19.29)

MBW
1/11/05

Date : 11-JAN-2005 11:08

Client ID: dftpp tune std

Instrument: MSBNA03.i

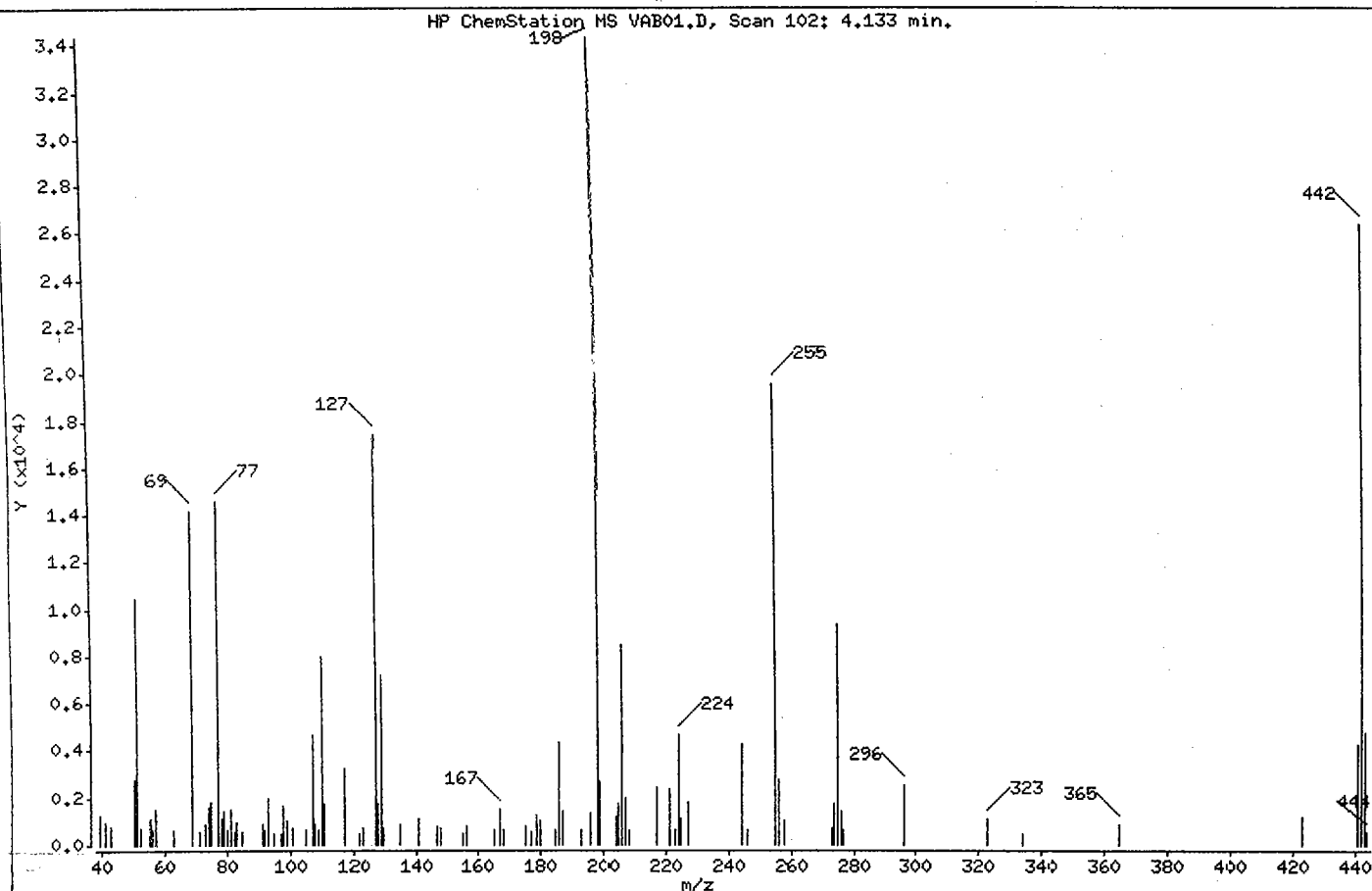
Sample Info: TUN,04WS1543

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	30.34
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	41.18
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	50.62
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.94
275	10.00 - 30.00% of mass 198	27.23
365	Greater than 1.00% of mass 198	2.45
441	Present, but less than mass 443	12.44
442	40.00 - 99.99% of mass 198	76.82
443	17.00 - 23.00% of mass 442	13.75 (17.90)

mpw
1/12/05

Date : 12-JAN-2005 11:46

Client ID: dftpp tune std

Instrument: MSBNA03.i

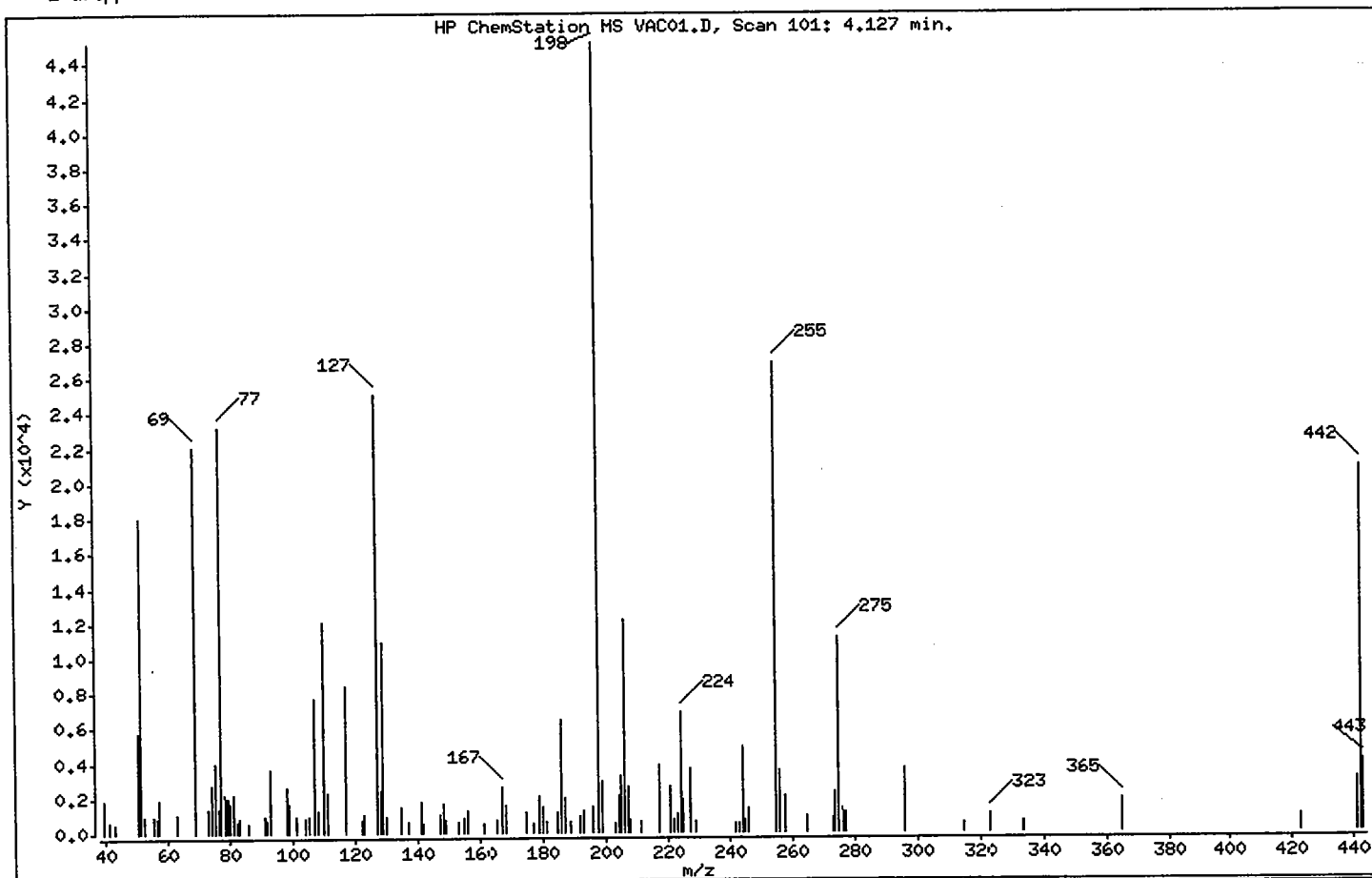
Sample Info: TUN,04WS1543

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	39.77
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	48.73
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	55.50
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.44
275	10.00 - 30.00% of mass 198	24.66
365	Greater than 1.00% of mass 198	4.08
441	Present, but less than mass 443	6.62
442	40.00 - 99.99% of mass 198	46.11
443	17.00 - 23.00% of mass 442	8.88 (19.26)

MPW
1/13/05

Date : 13-JAN-2005 16:24

Client ID: dftpp tune std

Instrument: MSBNA03.i

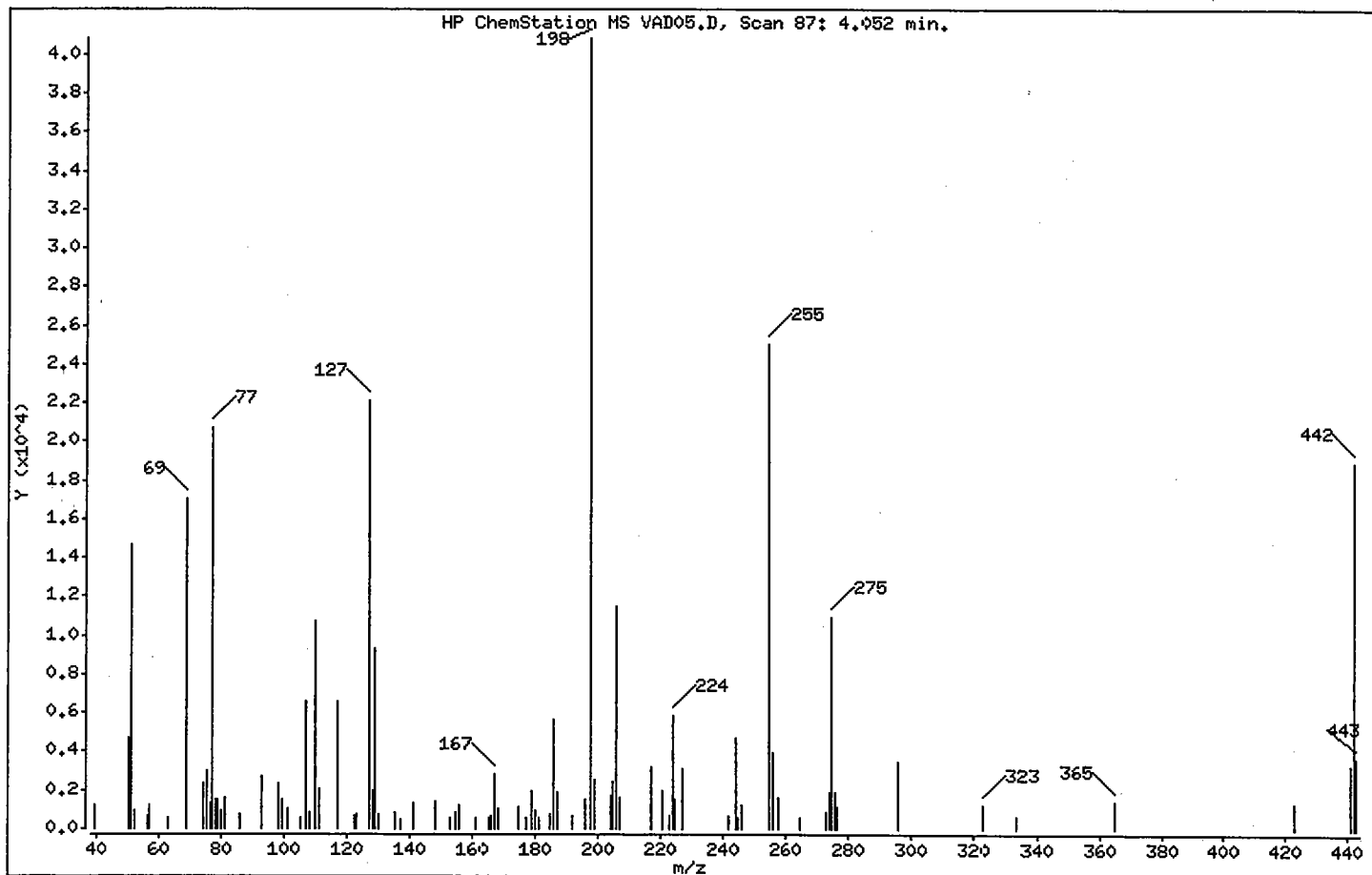
Sample Info: TUN,04WS1543

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	35.95
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	41.80
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	54.09
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.33
275	10.00 - 30.00% of mass 198	26.72
365	Greater than 1.00% of mass 198	3.46
441	Present, but less than mass 443	8.01
442	40.00 - 99.99% of mass 198	46.38
443	17.00 - 23.00% of mass 442	8.90 (19.20)

Date : 27-JAN-2005 10:39

Client ID: dftpp tune std

Instrument: MSBNA03.i

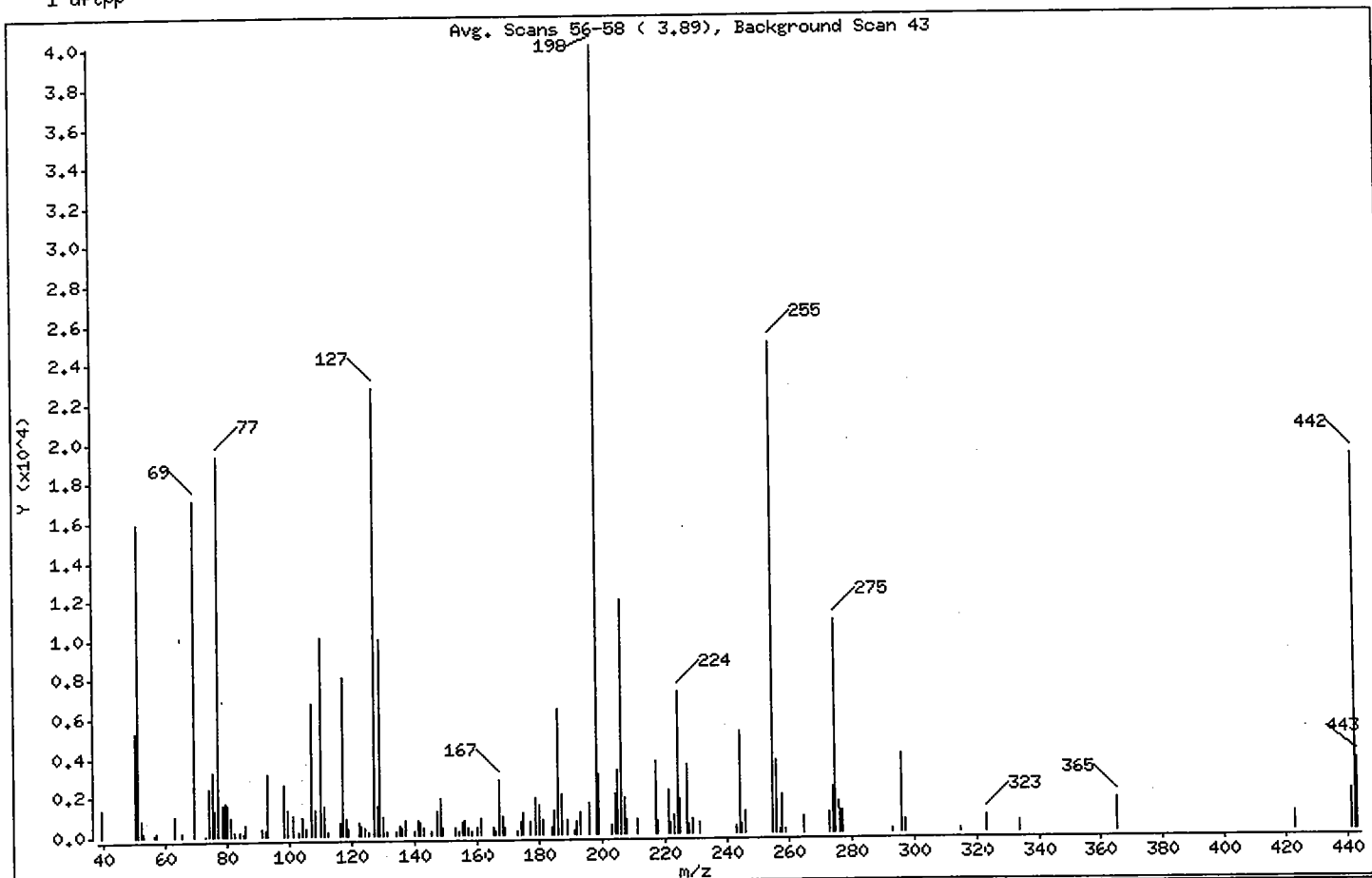
Sample Info: TUN,04WS1543

Operator: BVD

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	39.62
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	42.63
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	56.71
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.57
275	10.00 - 30.00% of mass 198	27.01
365	Greater than 1.00% of mass 198	4.12
441	Present, but less than mass 443	5.01
442	40.00 - 99.99% of mass 198	47.54
443	17.00 - 23.00% of mass 442	9.08 (19.09)

mpw
1/28/05

Data File: \\GCHSSERVER\DD\chem\MSBNA05.i\011105.b\XAB01.D

Date : 11-JAN-2005 10:44

Client ID: dftpp tune std

Sample Info: TUN,04WS1543

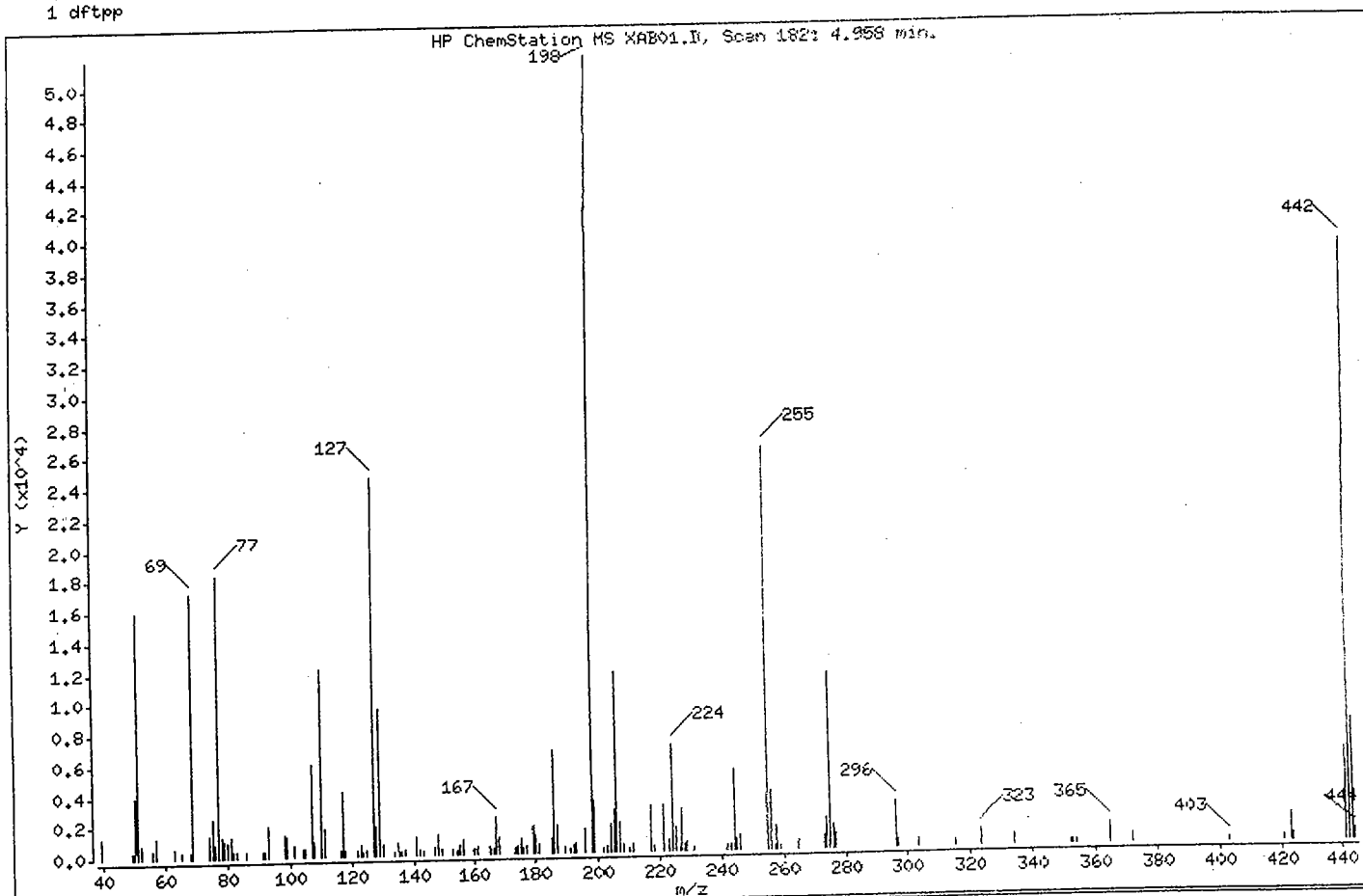
Instrument: MSBNA05.i

Operator: LLH

Column diameter: 0.25

Column phase: Xti 5

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	30.95
68	Less than 1.99% of mass 69	0.59 (1.77)
69	Mass 69 relative abundance	33.12
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	47.36
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.56
275	10.00 - 30.00% of mass 198	22.12
365	Greater than 1.00% of mass 198	2.57
441	Present, but less than mass 443	11.80
442	40.00 - 99.99% of mass 198	75.58
443	17.00 - 23.00% of mass 442	15.14 (20.04)

01/17/05

Date : 12-JAN-2005 11:54

Client ID: dftpp tune std

Instrument: MSBNA05.i

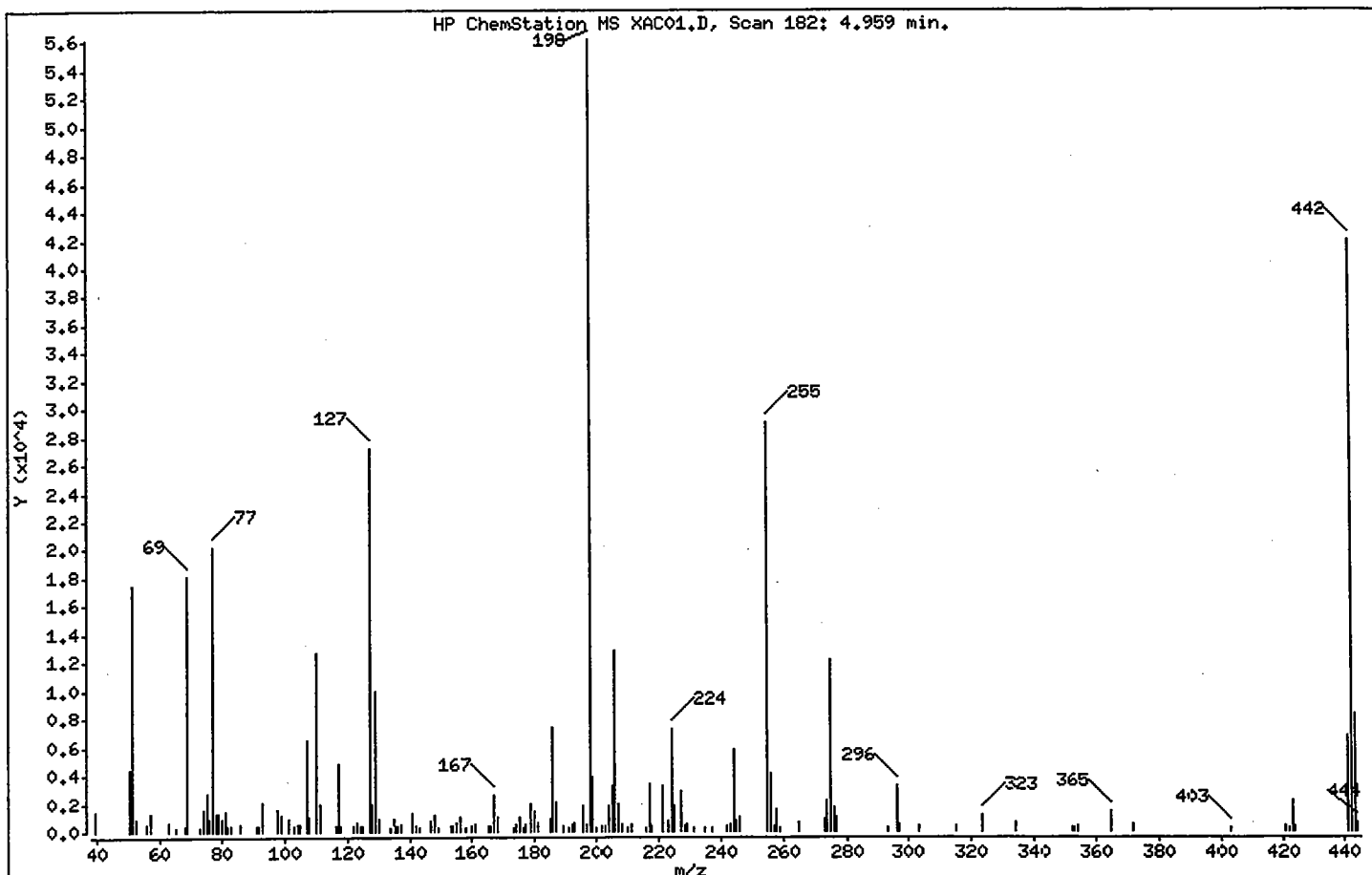
Sample Info: TUN;04WS1543

Operator: LLH

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	31.19
68	Less than 1.99% of mass 69	0.60 (1.88)
69	Mass 69 relative abundance	32.17
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	48.42
197	Less than 1.00% of mass 198	0.86
199	5.00 - 9.00% of mass 198	7.01
275	10.00 - 30.00% of mass 198	21.56
365	Greater than 1.00% of mass 198	2.57
441	Present, but less than mass 443	11.89
442	40.00 - 99.99% of mass 198	74.75
443	17.00 - 23.00% of mass 442	14.74 (19.72)

MDL
1/19/05

Date : 14-JAN-2005 12:46

Client ID: dftpp tune std

Instrument: MSBNA05.i

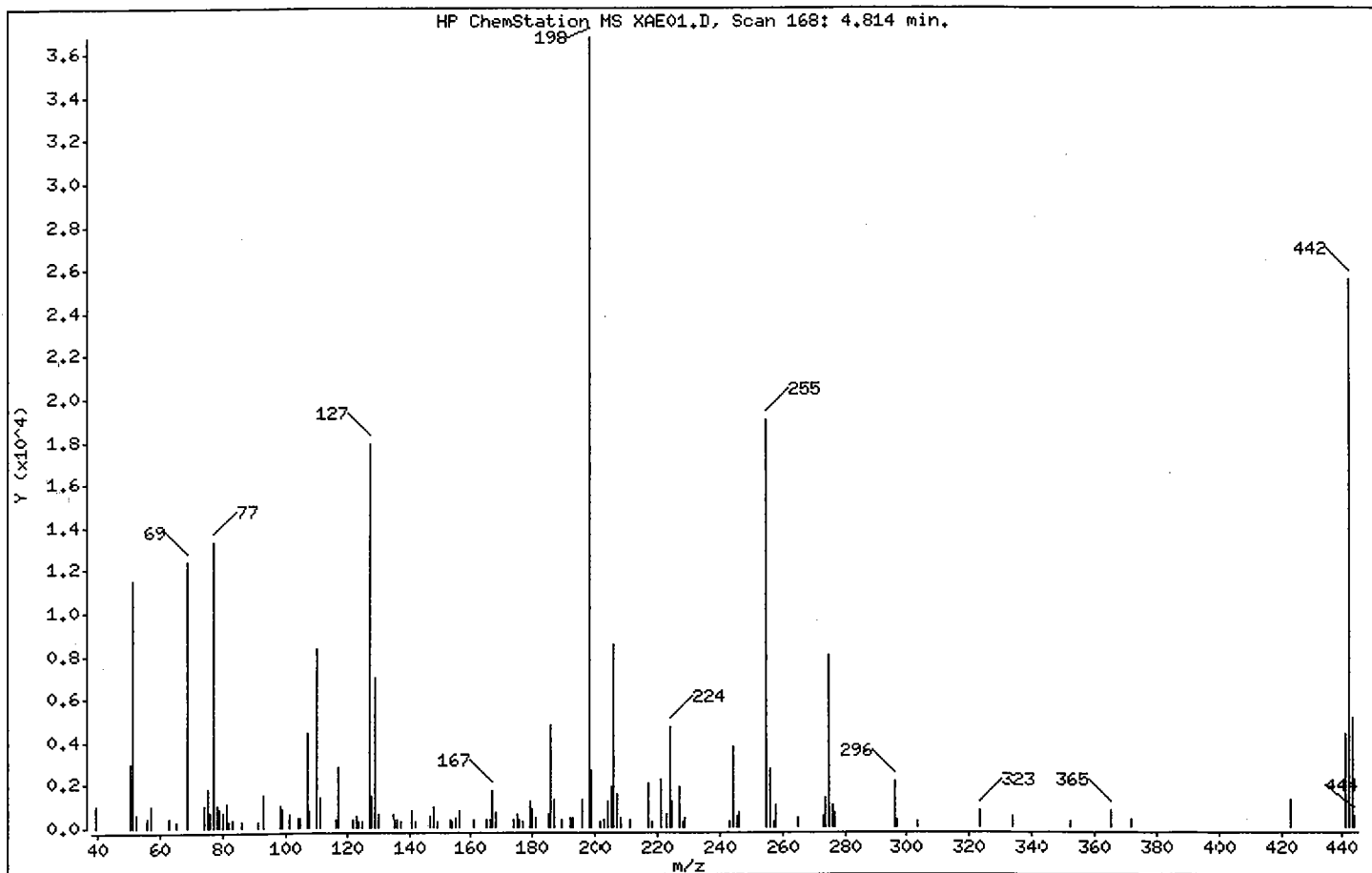
Sample Info: TUN,04WS1543

Operator: LLH

Column phase: Xti 5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	31.29
68	Less than 1.99% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	33.72
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	48.52
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.05
275	10.00 - 30.00% of mass 198	21.61
365	Greater than 1.00% of mass 198	2.19
441	Present, but less than mass 443	11.77
442	40.00 - 99.99% of mass 198	69.38
443	17.00 - 23.00% of mass 442	13.86 (19.97)

BNA03 8070-Sim / 1,4-Dioxane Calibration

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA03 HP GCMS BNA 03
Calnum: 524473298002 Name: 3PAHSIM

Reviewed By:
Type: (normal) Date: 23-NOV-2004 18:44 Inj Vol (uL): 1

Calibration levels:

See quant report 3 for manual integrations
due to spotting/droppy baseline

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	vkn07	524473298007	0.1 ug/mL	23-NOV-2004 18:44	04WS2236
2	vkn08	524473298008	0.2 ug/mL	23-NOV-2004 19:16	04WS2237
3	vkn09	524473298009	0.5 ug/mL	23-NOV-2004 19:49	04WS2238
4	vkn10	524473298010	1.0 ug/mL	23-NOV-2004 20:21	04WS2239
5	vkn11	524473298011	2.0 ug/mL	23-NOV-2004 20:54	04WS2240
6	vkn12	524473298012	5.0 ug/mL	23-NOV-2004 21:26	04WS2241
7	vkn13	524473298013	10.0 ug/mL	23-NOV-2004 21:58	04WS2242

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	IRSD	MinRF	MnR^2	MxRSD	Flags
1,4-Dioxane		0.3938m	0.3953m	0.3311m	0.3730m	0.3498m	0.3176m	AVRG	R		2.777060		ng	0.36019		0.0500	.99	15	
Naphthalene	1.0567	1.0625	1.0538	0.8828	1.0122	0.9644	0.9428	AVRG	R		1.003549		ng	0.9965	7	0.0500	.99	15	
2-Methylnaphthalene	0.7274	0.7196	0.7069	0.6223	0.7303	0.7384	0.7322	AVRG	R		1.406435		ng	0.7110	6	0.0500	.99	15	
Acenaphthylene	1.7670	1.7430	1.7396	1.5199	1.7835	1.7918	1.8311	AVRG	R		0.574905		ng	1.7394	6	0.0500	.99	15	
Acenaphthene	1.0738	1.0573	1.0555	0.9143	1.0618	1.0694	1.0883	AVRG	R		0.956240		ng	1.0458	6	0.0500	.99	15	
Fluorene	1.2883	1.2830	1.2754	1.1088	1.3029	1.3078	1.3226	AVRG	R		0.787515		ng	1.2698	6	0.0500	.99	15	
Phenanthrene	1.0173	0.9868	0.9753	0.8406	0.9063	0.9915	1.0012	AVRG	R		1.041839		ng	0.9598	7	0.0500	.99	15	
Anthracene	0.9262	0.8994	0.9089	0.7905	0.8579	0.9461	0.9751	AVRG	R		1.110403		ng	0.9006	7	0.0500	.99	15	
Fluoranthene	1.1440	1.0742	1.0799	0.9610	1.0150	1.0943	1.1246	AVRG	R		0.934197		ng	1.0704	6	0.0500	.99	15	
Pyrene	1.2112	1.1129	1.1257	0.9342	0.9842	1.1350	1.1475	AVRG	R		0.914959		ng	1.0929	9	0.0500	.99	15	
Benzo(a)anthracene	1.1526	1.0521	1.0503	0.8913	0.9536	1.0786	1.0945	AVRG	R		0.962475		ng	1.0390	9	0.0500	.99	15	
Chrysene	1.1122	1.0314	1.0259	0.8697	0.9157	1.0314	1.0383	AVRG	R		0.996505		ng	1.0035	8	0.0500	.99	15	
Benzo(b)fluoranthene	1.3591	1.3064	1.2888	1.1344	1.1859	1.2656	1.3820	AVRG	R		0.784544		ng	1.2746	7	0.0500	.99	15	
Benzo(k)fluoranthene	1.3833	1.2459	1.3569	1.2730	1.5092	1.7821	1.6786	AVRG	R		0.684336		ng	1.4613	14	0.0500	.99	15	
Benzo(a)pyrene	1.1523	1.0540	0.9054m	0.9109	1.0183	1.1442	1.1866	AVRG	R		0.949569		ng	1.0531	11	0.0500	.99	15	
Indeno(1,2,3-cd)pyrene	1.3150	1.2258	1.2247	1.0889	1.2227	1.3736	1.4318	AVRG	R		0.788062		ng	1.2689	9	0.0500	.99	15	
Dibenz(a,h)anthracene	1.0570	0.9891	0.9903	0.8801	0.9856	1.1171	1.1933	AVRG	R		0.970530		ng	1.0304	10	0.0500	.99	15	
Benzo(g,h,i)perylene	1.2140	1.0871	1.0460	0.9092	0.9914	1.1049	1.1428	AVRG	R		0.933899		ng	1.0708	9	0.0500	.99	15	

Flags used: m=manual integration

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

Page 1 of 2

REAL: OK

ELV: OK average 2-Methylnaphthalene ↑ 615 (10)

— 1,4-Dioxane ↑; Chrysene ↓; Benzo(h)fluoranthene ↑ limit
same limits

Q
1/2

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA03 HP GCMS BNA 03
Calnum: 524473298002 Name: 3PAHSIM

Reviewed By:
Type: (normal) Date: 23-NOV-2004 18:44 Inj Vol (uL): 1

Analyte								Type	X	r^2			units	avg	%RSD	MinRF	MnR^2	MxRSD	Flags
	L1	L2	L3	L4	L5	L6	L7			a0	a1	a2							
Nitrobenzene-d5	0.3255	0.3312	0.3316	0.2849	0.3299	0.3306	0.3227	AVRG	R	3.102234			ng	0.3223	5	0.0500	.99	15	
2-Fluorobiphenyl	1.4278	1.4649	1.4644	1.2395	1.4123	1.4208	1.4324	AVRG	R	0.709783			ng	1.4089	5	0.0500	.99	15	
Terphenyl-d14	1.0634m	0.9749	0.9877	0.8432	0.8770	0.9650	0.9569	AVRG	R	1.049800			ng	0.9526	8	0.0500	.99	15	

266

Flags used: m=manual integration

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

Page 2 of 2

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSBNA03 Run Name : 2.0 ug/mL
 Seqnum : 524473298014 Filename : vkn14 Injected : 23-NOV-2004 22:31
 Calnum : 524473298002 Caldate : 23-NOV-2004 Caltype :
 Standards: 04WS2206

Analyte	SpkAmt	QuantAmt	Units	%D	Max Flags
1,4-Dioxane	2.000000	2.519000	ng	26	30 !v+ m
Naphthalene	2.000000	2.079500	ng	4	30
2-Methylnaphthalene	2.000000	2.745700	ng	37	30 v+ ***
Acenaphthylene	2.000000	2.304100	ng	15	30
Acenaphthene	2.000000	2.289100	ng	14	20
Fluorene	2.000000	2.284100	ng	14	30
Phenanthrene	2.000000	2.207200	ng	10	30
Anthracene	2.000000	2.391900	ng	20	30
Fluoranthene	2.000000	2.226800	ng	11	20
Pyrene	2.000000	2.212600	ng	11	30
Benzo(a)anthracene	2.000000	2.260000	ng	13	30
Chrysene	2.000000	1.566500	ng	-22	30 !v-
Benzo(b)fluoranthene	2.000000	2.238800	ng	12	30
Benzo(k)fluoranthene	2.000000	2.463100	ng	23	30 !v+
Benzo(a)pyrene	2.000000	2.020600	ng	1	20 m
Indeno(1,2,3-cd)pyrene	2.000000	2.239600	ng	12	30
Dibenz(a,h)anthracene	2.000000	2.207700	ng	10	30
Benzo(g,h,i)perylene	2.000000	2.178700	ng	9	30
Nitrobenzene-d5	2.000000	2.113400	ng	6	30
2-Fluorobiphenyl	2.000000	2.139600	ng	7	30
Terphenyl-d14	2.000000	2.226200	ng	11	30

ISTD (CCV=vkn05)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	31512	23608	-25.08	7.71	7.71	0.00
Naphthalene-d8	97660	91190	-6.63	9.47	9.47	0.00
Acenaphthene-d10	54934	50824	-7.48	12.09	12.09	0.01
Phenanthrene-d10	108889	100423	-7.77	14.34	14.34	0.00
Chrysene-d12	112423	101844	-9.41	18.16	18.16	0.00
Perylene-d12	100110	89579	-10.52	19.96	19.95	-0.01

11/24/04

11/24/04

!=warning +=high bias -=low bias m=manual integration v=ICV

BNA01 8010-SIM (calibration)

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA05 HP GCMS BNA 05
Calnum: 545016540001 Name: 5PAHSIM

Reviewed By:
Type: (normal) Date: 11-JAN-2005 12:20 Inj Vol (uL): 1

Calibration levels:

See quant report for manual
integrations due to tubing/splitting

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	xab04	545016540004	01 <i>μg/mL</i>	11-JAN-2005 12:20	04WS2236
2	xab05	545016540005	02	11-JAN-2005 12:51	04WS2237
3	xab06	545016540006	0.5	11-JAN-2005 13:24	04WS2238
4	xab07	545016540007	1.0	11-JAN-2005 13:55	04WS2239
5	xab08	545016540008	2.0	11-JAN-2005 14:26	04WS2240
6	xab09	545016540009	5.0	11-JAN-2005 14:57	04WS2241
7	xab10	545016540010	10.0	11-JAN-2005 15:30	04WS2242

Analyte	L1	L2	L3	L4	L5	L6	L7	Type	X	a0	a1	a2	units	avg	1RSD	MinRP	MnR^2	MxRSD	Flags
1,4-Dioxane		0.3892m	0.3811m	0.3165m	0.3645	0.3096m	0.2715m	AVRG	R		2.952261		ng	0.3387	14	0.0500	.99	15	
Naphthalene	1.0212	1.0035	0.9766	0.8489	0.9485	0.8710	0.8605	AVRG	R		1.071928		ng	0.9329	8	0.0500	.99	15	
2-Methylnaphthalene	0.3958m	0.3867m	0.6747	0.5793	0.6461	0.6020	0.5852	QUAD	R	0.033195	1.557292	0.025202	ng	0.5528	1.000	0.0500	.99	15	
Acenaphthylene	1.8209	1.7923	1.7692	1.5190	1.7287	1.6222	1.5497	AVRG	R		0.593124		ng	1.6860	7	0.0500	.99	15	
Acenaphthene	1.0132	1.0061	0.9840	0.8541	0.9800	0.9393	0.9207	AVRG	R		1.045171		ng	0.9568	6	0.0500	.99	15	
Fluorene	1.2493	1.2238	1.1772	1.0095	1.1304	1.0714	1.0481	AVRG	R		0.884968		ng	1.1300	8	0.0500	.99	15	
Phenanthrene	1.0818	1.0813	1.0298	0.8891	0.9821	0.9391	0.8900	AVRG	R		1.015489		ng	0.9847	8	0.0500	.99	15	
Anthracene	0.9708	0.9704	0.9410	0.8140	0.9109	0.8877	0.8466	AVRG	R		1.103864		ng	0.9059	7	0.0500	.99	15	
Fluoranthene	1.2252	1.2093	1.1563	0.9910	1.0969	1.0206	0.9692	AVRG	R		0.912833		ng	1.0955	10	0.0500	.99	15	
Pyrene	1.4672	1.4837	1.4088	1.2137	1.3549	1.3069	1.2799	AVRG	R		0.735680		ng	1.3593	7	0.0500	.99	15	
Benzo(a)anthracene	1.3800	1.3523	1.3101	1.1209	1.2651	1.2192	1.1675	AVRG	R		0.794106		ng	1.2593	8	0.0500	.99	15	
Chrysene	1.2408	1.2064m	1.1581	1.0023	1.1531	1.1315	1.1036	AVRG	R		0.875441		ng	1.1423	7	0.0500	.99	15	
Benzo(b)fluoranthene	1.6587	1.6001	1.4998	1.2745	1.4101	1.3027	1.3139	AVRG	R		0.695837		ng	1.4371	11	0.0500	.99	15	
Benzo(k)fluoranthene	1.6567	1.4858	1.4120	1.3315	1.5057	1.5536	1.4724	AVRG	R		0.671940		ng	1.4882	7	0.0500	.99	15	
Benzo(a)pyrene	1.3929	1.3281	1.2878	1.1028	1.2608	1.2117	1.1803	AVRG	R		0.798681		ng	1.2521	8	0.0500	.99	15	
Indeno(1,2,3-cd)pyrene	1.6426	1.5073	1.4658	1.2480	1.4056	1.3996	1.3812	AVRG	R		0.696512		ng	1.4357	8	0.0500	.99	15	
Dibenz(a,h)anthracene	1.2549	1.1758	1.1588	1.0026	1.1779	1.1559	1.1442	AVRG	R		0.867398		ng	1.1529	7	0.0500	.99	15	
Benzo(g,h,i)perylene	1.4623	1.3048	1.2695	1.0785	1.2068	1.1735	1.1281	AVRG	R		0.811732		ng	1.2319	10	0.0500	.99	15	

Flags used: m=manual integration

Curves: AVRG: Average response factor QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

Page 1 of 2

REAL: OK
RCV: All except 2-methylnaphthalene & fluorene (9) - ND
- Chrysene & fluorene having issues

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01/12/05

INITIAL CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instrument: MSBNA05 HP GCMS BNA 05
Calnum: 545016540001 Name: 5PAHSIM

Reviewed By:
Type: (normal) Date: 11-JAN-2005 12:20 Inj Vol (uL): 1

Analyte								Type X	a0	a1	a2	units	r^2				Flags
	L1	L2	L3	L4	L5	L6	L7						avg	%RSD	MinRF	MnR^2	
Nitrobenzene-d5	0.2879	0.2972	0.2998	0.2522	0.2901	0.2729	0.2558	AVRG R		3.578915		ng	0.2794	7	0.0500	.99	15
2-Fluorobiphenyl	1.4638	1.6192m	1.4110	1.1631	1.2798	1.2097	1.1808	AVRG R		0.750483		ng	1.3325	13	0.0500	.99	15
Terphenyl-d14	0.9730	1.0096	0.9774	0.8256	0.9356	0.9078	0.8751	AVRG R		1.076267		ng	0.9291	7	0.0500	.99	15

269

Flags used: m=manual integration

Curves: AVRG: Average response factor QUAD: Quadratic regression

Instrument amount = a0 + response * a1 + response^2 * a2

Page 2 of 2

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MSBNA05
Seqnum : 545016540011
Calnum : 545016540001
Standards: 04WS2206

Run Name :
Filename : xab11
Caldate : 11-JAN-2005
Injected : 11-JAN-2005 16:01
Caltype :

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
1,4-Dioxane	2.000000	2.363900	ng	18	30	m
Naphthalene	2.000000	2.137700	ng	7	30	
2-Methylnaphthalene	2.000000	2.771000	ng	39	30	v+ ***
Acenaphthylene	2.000000	2.277000	ng	14	30	
Acenaphthene	2.000000	2.244800	ng	12	20	
Fluorene	2.000000	2.208900	ng	10	30	
Phenanthrene	2.000000	2.142700	ng	7	30	
Anthracene	2.000000	2.298300	ng	15	30	
Fluoranthene	2.000000	2.154000	ng	8	20	
Pyrene	2.000000	2.186700	ng	9	30	
Benzo (a) anthracene	2.000000	2.237500	ng	12	30	
Chrysene	2.000000	1.586700	ng	-21	30	lv-
Benzo (b) fluoranthene	2.000000	2.197300	ng	10	30	
Benzo (k) fluoranthene	2.000000	2.163400	ng	8	30	
Benzo (a) pyrene	2.000000	2.232200	ng	12	20	
Indeno (1,2,3-cd) pyrene	2.000000	2.124300	ng	6	30	
Dibenz (a,h) anthracene	2.000000	2.111800	ng	6	30	
Benzo (g,h,i) perylene	2.000000	2.145000	ng	7	30	

ISTD (CCV=xab03)	CCV Area	Area	%Diff	CCV RT	RT	Diff
1,4-Dichlorobenzene-d4	20482	17001	-17.00	5.76	5.76	0.00
Naphthalene-d8	56073	55675	-0.71	7.24	7.24	0.00
Acenaphthene-d10	30446	30469	0.08	9.50	9.50	0.00
Phenanthrene-d10	52401	52543	0.27	11.42	11.42	0.00
Chrysene-d12	41584	41689	0.25	15.12	15.11	-0.01
Perylene-d12	36269	36825	1.53	17.11	17.11	0.00

T. T. / s

01/12/05

!=warning +=high bias -=low bias m=manual integration v=ICV
Page 1 of 1

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA03 Run Name : . IDF : 1.0
Seqnum : 525014924005 Filename : vaa05 Injected : 10-JAN-2005 16:34
Calnum : 524473298002 Caldate : 23-NOV-2004 Caltype :
Standards: 04WS2238

Analyte	Avg		RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D Min	RF	Flags
1,4-Dioxane	0.3601	0.3937	0.500000	0.546700	ng	9	30	0.0500			
Naphthalene	0.9965	1.1223	0.500000	0.563100	ng	13	30	0.0500			
2-Methylnaphthalene	0.7110	0.6636	0.500000	0.466700	ng	-7	30	0.0500			
Acenaphthylene	1.7394	1.4553	0.500000	0.418300	ng	-16	30	0.0500			
Acenaphthene	1.0458	1.0352	0.500000	0.494900	ng	-1	20	0.0500			
Fluorene	1.2698	1.0659	0.500000	0.419700	ng	-16	30	0.0500			
Phenanthrene	0.9598	0.9321	0.500000	0.485600	ng	-3	30	0.0500			
Anthracene	0.9006	0.7998	0.500000	0.444100	ng	-11	30	0.0500			
Fluoranthene	1.0704	1.0394	0.500000	0.485500	ng	-3	20	0.0500			
Pyrene	1.0929	1.6666	0.500000	0.762400	ng	52	30	0.0500			c+ m **
Benzo(a)anthracene	1.0390	0.9241	0.500000	0.444700	ng	-11	30	0.0500			
Chrysene	1.0035	1.0553	0.500000	0.525800	ng	5	30	0.0500			
Benzo(b)fluoranthene	1.2746	1.5598	0.500000	0.611900	ng	22	30	0.0500			!c+
Benzo(k)fluoranthene	1.4613	1.5371	0.500000	0.526000	ng	5	30	0.0500			
Benzo(a)pyrene	1.0531	1.1019	0.500000	0.523200	ng	5	20	0.0500			
Indeno(1,2,3-cd)pyrene	1.2689	0.7770	0.500000	0.306200	ng	-39	30	0.0500			c- ***
Dibenz(a,h)anthracene	1.0304	0.4101	0.500000	0.199000	ng	-60	30	0.0500			c- m **
Benzo(g,h,i)perylene	1.0708	0.9183	0.500000	0.428800	ng	-14	30	0.0500			
Nitrobenzene-d5	0.3223	0.3296	0.500000	0.511300	ng	2	30	0.0500			
2-Fluorobiphenyl	1.4089	1.4724	0.500000	0.522500	ng	5	30	0.0500			
Terphenyl-d14	0.9526	1.0849	0.500000	0.569500	ng	14	30	0.0500			

mm
1/11/05

!=warning +=high bias -=low bias c=CCV m=manual integration

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA03
Seqnum : 525016508002
Calnum : 524473298002
Standards: 04WS2239

Run Name :
Filename : vab02
Caldate : 23-NOV-2004

IDF : 1.0
Injected : 11-JAN-2005 11:26
Caltype :

Analyte	Avg		RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D Min	RF	Flags
1,4-Dioxane	0.3601	0.3615	1.000000	1.003800	ng	0	30	0.0500			
Naphthalene	0.9965	0.9852	1.000000	0.988700	ng	-1	30	0.0500			
2-Methylnaphthalene	0.7110	0.6514	1.000000	0.916200	ng	-8	30	0.0500			
Acenaphthylene	1.7394	1.5288	1.000000	0.878900	ng	-12	30	0.0500			
Acenaphthene	1.0458	0.9131	1.000000	0.873100	ng	-13	20	0.0500			
Fluorene	1.2698	1.0876	1.000000	0.856500	ng	-14	30	0.0500			
Phenanthrene	0.9598	0.9019	1.000000	0.939600	ng	-6	30	0.0500			
Anthracene	0.9006	0.8386	1.000000	0.931200	ng	-7	30	0.0500			
Fluoranthene	1.0704	1.0108	1.000000	0.944300	ng	-6	20	0.0500			
Pyrene	1.0929	1.0120	1.000000	0.925900	ng	-7	30	0.0500			
Benzo(a)anthracene	1.0390	0.9566	1.000000	0.920700	ng	-8	30	0.0500			
Chrysene	1.0035	0.9258	1.000000	0.922600	ng	-8	30	0.0500			
Benzo(b)fluoranthene	1.2746	1.0350	1.000000	0.812000	ng	-19	30	0.0500			
Benzo(k)fluoranthene	1.4613	1.1862	1.000000	0.811800	ng	-19	30	0.0500			
Benzo(a)pyrene	1.0531	0.9783	1.000000	0.929000	ng	-7	20	0.0500			
Indeno(1,2,3-cd)pyrene	1.2689	1.2606	1.000000	0.993500	ng	-1	30	0.0500			
Dibenz(a,h)anthracene	1.0304	1.0240	1.000000	0.993800	ng	-1	30	0.0500			
Benzo(g,h,i)perylene	1.0708	1.0407	1.000000	0.971900	ng	-3	30	0.0500			
Nitrobenzene-d5	0.3223	0.2833	1.000000	0.879000	ng	-12	30	0.0500			
2-Fluorobiphenyl	1.4089	1.2402	1.000000	0.880200	ng	-12	30	0.0500			
Terphenyl-d14	0.9526	0.8080	1.000000	0.848200	ng	-15	30	0.0500			

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CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA03 Run Name : IDF : 1.0
Seqnum : 525017986002 Filename : vac02 Injected : 12-JAN-2005 12:05
Calnum : 524473298002 Caldate : 23-NOV-2004 Caltype :
Standards: 04WS2239

Analyte	Avg		SpkAmt	QuantAmt	Units	%D Max	%D Min	RF	Flags
	RF/CF	RF/CF							
1,4-Dioxane	0.3601	0.2826	1.000000	0.784900	ng	-22	30	0.0500	!c- m
Naphthalene	0.9965	0.7857	1.000000	0.788500	ng	-21	30	0.0500	!c-
2-Methylnaphthalene	0.7110	0.5271	1.000000	0.741300	ng	-26	30	0.0500	!c-
Acenaphthylene	1.7394	1.4530	1.000000	0.835300	ng	-16	30	0.0500	
Acenaphthene	1.0458	0.9165	1.000000	0.876400	ng	-12	20	0.0500	
Fluorene	1.2698	1.0692	1.000000	0.842000	ng	-16	30	0.0500	
Phenanthrene	0.9598	0.8771	1.000000	0.913800	ng	-9	30	0.0500	
Anthracene	0.9006	0.7727	1.000000	0.858000	ng	-14	30	0.0500	
Fluoranthene	1.0704	0.9181	1.000000	0.857700	ng	-14	20	0.0500	
Pyrene	1.0929	0.9882	1.000000	0.904100	ng	-10	30	0.0500	
Benzo(a)anthracene	1.0390	0.8796	1.000000	0.846600	ng	-15	30	0.0500	
Chrysene	1.0035	0.9085	1.000000	0.905300	ng	-9	30	0.0500	
Benzo(b)fluoranthene	1.2746	1.0821	1.000000	0.849000	ng	-15	30	0.0500	
Benzo(k)fluoranthene	1.4613	1.1066	1.000000	0.757300	ng	-24	30	0.0500	!c-
Benzo(a)pyrene	1.0531	0.9110	1.000000	0.865100	ng	-13	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.2689	1.1696	1.000000	0.921700	ng	-8	30	0.0500	
Dibenz(a,h)anthracene	1.0304	0.9360	1.000000	0.908400	ng	-9	30	0.0500	
Benzo(g,h,i)perylene	1.0708	0.9628	1.000000	0.899200	ng	-10	30	0.0500	
Nitrobenzene-d5	0.3223	0.2846	1.000000	0.882900	ng	-12	30	0.0500	
2-Fluorobiphenyl	1.4089	1.2744	1.000000	0.904600	ng	-10	30	0.0500	
Terphenyl-d14	0.9526	0.8268	1.000000	0.867900	ng	-13	30	0.0500	

!=warning --low bias c=CCV m>manual integration
Page 1 of 1

MDW
1/13/05

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA05 Run Name : 04WS2239 IDF : 1.0
Seqnum : 545017994002 Filename : xac02 Injected : 12-JAN-2005 12:12
Calnum : 545016540001 Caldate : 11-JAN-2005 Caltype :
Standards: 04WS2239

Analyte	Avg		SpkAmt	QuantAmt	Units	%D Max	%D Min	RF	Flags
	RF/CF	RF/CF							
1,4-Dioxane	0.3387	0.3354	1.000000	0.990300	ng	-1	30	0.0500	m
Naphthalene	0.9329	0.8503	1.000000	0.911400	ng	-9	30	0.0500	
2-Methylnaphthalene	0.5528	0.5773	1.000000	0.940700	ng	-6	30	0.0500	
Acenaphthylene	1.6860	1.5235	1.000000	0.903600	ng	-10	30	0.0500	
Acenaphthene	0.9568	0.8504	1.000000	0.888800	ng	-11	20	0.0500	
Fluorene	1.1300	1.0190	1.000000	0.901800	ng	-10	30	0.0500	
Phenanthrene	0.9847	0.8760	1.000000	0.889600	ng	-11	30	0.0500	
Anthracene	0.9059	0.8103	1.000000	0.894500	ng	-11	30	0.0500	
Fluoranthene	1.0955	0.9874	1.000000	0.901400	ng	-10	20	0.0500	
Pyrene	1.3593	1.2027	1.000000	0.884800	ng	-12	30	0.0500	
Benzo(a)anthracene	1.2593	1.1116	1.000000	0.882700	ng	-12	30	0.0500	
Chrysene	1.1423	1.0176	1.000000	0.890800	ng	-11	30	0.0500	
Benzo(b)fluoranthene	1.4371	1.2116	1.000000	0.843100	ng	-16	30	0.0500	
Benzo(k)fluoranthene	1.4882	1.3862	1.000000	0.931400	ng	-7	30	0.0500	
Benzo(a)pyrene	1.2521	1.1026	1.000000	0.880600	ng	-12	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.4357	1.2232	1.000000	0.852000	ng	-15	30	0.0500	
Dibenz(a,h)anthracene	1.1529	0.9974	1.000000	0.865100	ng	-13	30	0.0500	
Benzo(g,h,i)perylene	1.2319	1.0553	1.000000	0.856600	ng	-14	30	0.0500	
Nitrobenzene-d5	0.2794	0.2534	1.000000	0.906800	ng	-9	30	0.0500	
2-Fluorobiphenyl	1.3325	1.1750	1.000000	0.881800	ng	-12	30	0.0500	
Terphenyl-d14	0.9291	0.8325	1.000000	0.896000	ng	-10	30	0.0500	

MDV
1/13/05

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA03
Seqnum : 525019581006
Calnum : 524473298002
Standards: 04WS2239

Run Name :
Filename : vad06
Caldate : 23-NOV-2004

IDF : 1.0
Injected : 13-JAN-2005 16:43
Caltype :

Analyte	Avg		SpkAmt	QuantAmt	Units	%D Max	%D Min	RF	Flags
	RF/CF	RF/CF							
1,4-Dioxane	0.3601	0.2930	1.000000	0.813700	ng	-19	30	0.0500	m
Naphthalene	0.9965	0.8179	1.000000	0.820800	ng	-18	30	0.0500	
2-Methylnaphthalene	0.7110	0.5433	1.000000	0.764100	ng	-24	30	0.0500	!c-
Acenaphthylene	1.7394	1.5122	1.000000	0.869400	ng	-13	30	0.0500	
Acenaphthene	1.0458	0.9218	1.000000	0.881500	ng	-12	20	0.0500	
Fluorene	1.2698	1.0836	1.000000	0.853400	ng	-15	30	0.0500	
Phenanthrene	0.9598	0.8940	1.000000	0.931400	ng	-7	30	0.0500	
Anthracene	0.9006	0.8178	1.000000	0.908100	ng	-9	30	0.0500	
Fluoranthene	1.0704	0.9625	1.000000	0.899100	ng	-10	20	0.0500	
Pyrene	1.0929	0.9797	1.000000	0.896400	ng	-10	30	0.0500	
Benzo(a)anthracene	1.0390	0.9205	1.000000	0.886000	ng	-11	30	0.0500	
Chrysene	1.0035	0.9244	1.000000	0.921200	ng	-8	30	0.0500	
Benzo(b)fluoranthene	1.2746	0.9806	1.000000	0.769300	ng	-23	30	0.0500	!c-
Benzo(k)fluoranthene	1.4613	1.1795	1.000000	0.807200	ng	-19	30	0.0500	
Benzo(a)pyrene	1.0531	0.9268	1.000000	0.880000	ng	-12	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.2689	1.1714	1.000000	0.923100	ng	-8	30	0.0500	
Dibenz(a,h)anthracene	1.0304	0.9257	1.000000	0.898400	ng	-10	30	0.0500	
Benzo(g,h,i)perylene	1.0708	0.9602	1.000000	0.896800	ng	-10	30	0.0500	
Nitrobenzene-d5	0.3223	0.2742	1.000000	0.850600	ng	-15	30	0.0500	
2-Fluorobiphenyl	1.4089	1.2681	1.000000	0.900100	ng	-10	30	0.0500	
Terphenyl-d14	0.9526	0.8219	1.000000	0.862800	ng	-14	30	0.0500	

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!=warning --low bias c=CCV m=manual integration
Page 1 of 1

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA05
Seqnum : 545020926002
Calnum : 545016540001
Standards: 04WS2239

Run Name : 04WS2239
Filename : xae02
Caldate : 11-JAN-2005

IDF : 1.0
Injected : 14-JAN-2005 13:03
Caltpe :

Analyte	Avg		SpkAmt	QuantAmt	Units	%D Max	%D Min	RF	Flags
	RF/CF	RF/CF							
1,4-Dioxane	0.3387	0.3077	1.000000	0.908400	ng	-9	30	0.0500	m
Naphthalene	0.9329	0.8179	1.000000	0.876700	ng	-12	30	0.0500	
2-Methylnaphthalene	0.5528	0.5774	1.000000	0.940800	ng	-6	30	0.0500	
Acenaphthylene	1.6860	1.5677	1.000000	0.929800	ng	-7	30	0.0500	
Acenaphthene	0.9568	0.8469	1.000000	0.885200	ng	-11	20	0.0500	
Fluorene	1.1300	1.0345	1.000000	0.915500	ng	-8	30	0.0500	
Phenanthrene	0.9847	0.8659	1.000000	0.879300	ng	-12	30	0.0500	
Anthracene	0.9059	0.8235	1.000000	0.909000	ng	-9	30	0.0500	
Fluoranthene	1.0955	1.0014	1.000000	0.914100	ng	-9	20	0.0500	
Pyrene	1.3593	1.2526	1.000000	0.921500	ng	-8	30	0.0500	
Benzo (a) anthracene	1.2593	1.1654	1.000000	0.925500	ng	-7	30	0.0500	
Chrysene	1.1423	1.0077	1.000000	0.882200	ng	-12	30	0.0500	
Benzo (b) fluoranthene	1.4371	1.2709	1.000000	0.884300	ng	-12	30	0.0500	
Benzo (k) fluoranthene	1.4882	1.1978	1.000000	0.804900	ng	-20	30	0.0500	
Benzo (a) pyrene	1.2521	1.1120	1.000000	0.888200	ng	-11	20	0.0500	
Indeno (1,2,3-cd) pyrene	1.4357	1.2715	1.000000	0.885600	ng	-11	30	0.0500	
Dibenz (a,h) anthracene	1.1529	1.0659	1.000000	0.924600	ng	-8	30	0.0500	
Benzo (g,h,i) perylene	1.2319	1.0746	1.000000	0.872300	ng	-13	30	0.0500	
Nitrobenzene-d5	0.2794	0.2248	1.000000	0.804600	ng	-20	30	0.0500	
2-Fluorobiphenyl	1.3325	1.1653	1.000000	0.874500	ng	-13	30	0.0500	
Terphenyl-d14	0.9291	0.8622	1.000000	0.928000	ng	-7	30	0.0500	

1/17/05

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MSBNA03
Seqnum : 525039519002
Calnum : 524473298002
Standards: 04WS2239

Run Name :
Filename : var02
Caldate : 23-NOV-2004

IDF : 1.0
Injected : 27-JAN-2005 10:57
Caltype :

Analyte	Avg RF/CF	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D Min	RF	Flags
1,4-Dioxane	0.3601	0.2999	1.000000	0.832700	ng	-17	30	0.0500	m
Naphthalene	0.9965	0.8971	1.000000	0.900300	ng	-10	30	0.0500	
2-Methylnaphthalene	0.7110	0.6057	1.000000	0.851900	ng	-15	30	0.0500	
Acenaphthylene	1.7394	1.5294	1.000000	0.879300	ng	-12	30	0.0500	
Acenaphthene	1.0458	0.9098	1.000000	0.870000	ng	-13	20	0.0500	
Fluorene	1.2698	1.0662	1.000000	0.839600	ng	-16	30	0.0500	
Phenanthrene	0.9598	0.8821	1.000000	0.919000	ng	-8	30	0.0500	
Anthracene	0.9006	0.7963	1.000000	0.884300	ng	-12	30	0.0500	
Fluoranthene	1.0704	0.9244	1.000000	0.863500	ng	-14	20	0.0500	
Pyrene	1.0929	0.9799	1.000000	0.896600	ng	-10	30	0.0500	
Benzo(a)anthracene	1.0390	0.9140	1.000000	0.879700	ng	-12	30	0.0500	
Chrysene	1.0035	0.9162	1.000000	0.912900	ng	-9	30	0.0500	
Benzo(b)fluoranthene	1.2746	0.9731	1.000000	0.763400	ng	-24	30	0.0500	!c-
Benzo(k)fluoranthene	1.4613	1.7024	1.000000	1.165000	ng	17	30	0.0500	
Benzo(a)pyrene	1.0531	0.9167	1.000000	0.870500	ng	-13	20	0.0500	
Indeno(1,2,3-cd)pyrene	1.2689	1.1060	1.000000	0.871600	ng	-13	30	0.0500	
Dibenz(a,h)anthracene	1.0304	0.8631	1.000000	0.837700	ng	-16	30	0.0500	
Benzo(g,h,i)perylene	1.0708	0.9060	1.000000	0.846100	ng	-15	30	0.0500	
Nitrobenzene-d5	0.3223	0.2676	1.000000	0.830300	ng	-17	30	0.0500	
2-Fluorobiphenyl	1.4089	1.2660	1.000000	0.898600	ng	-10	30	0.0500	
Terphenyl-d14	0.9526	0.8038	1.000000	0.843800	ng	-16	30	0.0500	

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 10-JAN-2005
Sequence: 525014924
Instrument ID: MSBNA03

(vaa)

CCV Filename: vaa05
Date Analyzed: 10-JAN-2005
Time Analyzed: 16:34

	IS1 (DCBZ14D4)		IS2 (NAPHD8)		IS3 (ACEND10)		IS4 (PHEND10)		IS5 (CHYD12)		IS6 (PERYD12)	
	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT
CCV STD	26726	6.72	89449	8.39	49595	10.96	83968	13.17	57383	17.04	39666	18.82
LOWER LIMIT	13363	6.22	44725	7.89	24798	10.46	41984	12.67	28692	16.54	19833	18.33
UPPER LIMIT	53452	7.22	178898	8.89	99190	11.46	167936	13.67	114766	17.54	79332	19.33

TYPE	SAMPLE	#											
CCV		005	26726	6.72	89449	8.39	49595	10.96	83968	13.17	57383	17.04	39666 18.83
BLANK	QC278889	006	26813	6.72	97351	8.39	52251	10.96	84991	13.17	57086	17.04	44474 18.83
SAMPLE	176961-006	007	30374	6.75	120268	8.40	62460	10.96	112489	13.18	110510	17.07	97771* 18.85
SAMPLE	176961-016	008	29347	6.76	131669	8.40	59428	10.96	110593	13.18	116005*	17.08	101010* 18.86
SAMPLE	176961-009	009	27169	6.75	115116	8.40	54016	10.96	90729	13.18	101415	17.07	92238* 18.85
SAMPLE	176984-034	010	25960	6.72	96429	8.39	53438	10.96	92524	13.17	85181	17.04	81820* 18.83
SAMPLE	176984-031	011	24060	6.72	104580	8.45	527450*	11.10	162070	13.07	119697*	17.17	74645 18.93
SAMPLE	176984-032	012	24656	6.72	90874	8.40	67260	10.97	81645	13.22	61016	17.08	45820 18.87
SAMPLE	176984-029	013	19101	6.72	71096	8.39	45386	10.96	68760	13.20	56474	17.08	48351 18.87
SAMPLE	176984-027	014	18637	6.72	67305	8.40	43763	10.96	62131	13.21	35483	17.16	19820* 18.96
SAMPLE	176961-007	015	17779	6.72	66428	8.39	42473	10.96	75387	13.17	81126	17.05	72269 18.84
SAMPLE	176961-004	016	20600	6.72	72400	8.40	56540	10.96	85541	13.18	80621	17.06	79282 18.85
SAMPLE	176984-026	017	21405	6.72	75456	8.40	56236	11.07	65778	13.37	174529*	16.63	23654 18.95
SAMPLE	176984-024	018	10308*	6.72	35576*	8.40	22770*	10.96	42050	13.19	63569	17.09	68872 18.88
SAMPLE	176961-012	019	31311	6.73	122100	8.39	495655*	11.00	143609	13.33	45488	17.20	73161 18.94
SAMPLE	176961-001	020	33099	6.72	112196	8.40	66745	10.96	120311	13.18	115814*	17.06	102901* 18.85
SAMPLE	176961-002	021	28791	6.72	104525	8.40	67387	10.96	132906	13.20	136107*	17.12	151680* 18.91
SAMPLE	176986-001	022	28035	6.72	99574	8.39	56538	10.96	108260	13.17	97934	17.05	85129* 18.84
SAMPLE	176961-014	023	27027	6.72	97452	8.39	55249	10.96	104994	13.17	99001	17.05	77056 18.84
SAMPLE	176961-013	024	8819*	6.72	31613*	8.39	20012*	10.96	34533*	13.17	35598	17.05	33636 18.84

* = Outside QC Limits

MDU
1/11/05

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 11-JAN-2005

Sequence: 525016508

Instrument ID: MSBNA03

(vab)

CCV Filename: vab02

Date Analyzed: 11-JAN-2005

Time Analyzed: 11:26

	IS1 (DCBZ14D4)		IS2 (NAPHD8)		IS3 (ACEND10)		IS4 (PHEND10)		IS5 (CHYD12)		IS6 (PERYD12)	
	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT
CCV STD	15720	6.68	55803	8.35	33004	10.90	58821	13.11	62659	16.99	61075	18.77
LOWER LIMIT	7860	6.18	27902	7.85	16502	10.40	29411	12.61	31330	16.49	30538	18.27
UPPER LIMIT	31440	7.18	111606	8.85	66008	11.40	117642	13.61	125318	17.49	122150	19.27

TYPE	SAMPLE	#												
CCV		002	15720	6.68	55803	8.35	33004	10.90	58821	13.11	62659	16.99	61075	18.77
LCS	QC278890	003	20598	6.68	73599	8.35	43321	10.90	77644	13.11	81353	16.99	76777	18.78
MSS	176984-033	004	8716	6.67	33134	8.34	18813	10.90	34436	13.11	33131	16.99	31311	18.78
MS	QC278891	005	26105	6.68	96224	8.34	58067	10.90	110512	13.11	114841	16.99	112289	18.78
MSD	QC278892	006	27121	6.68	98067	8.34	60007	10.90	115128	13.11	122721	16.99	113849	18.78
BLANK	QC278672	007	27024	6.68	98386	8.34	58744	10.90	109763	13.11	112284	16.99	106084	18.78
LCS	QC278673	008	27470	6.68	98092	8.34	58586	10.90	110702	13.11	116465	16.99	105277	18.78
BLANK	QC278688	009	27818	6.68	101853	8.34	59421	10.90	113282	13.11	113561	16.99	101931	18.77
LCS	QC278689	010	28401	6.68	103242	8.34	61180	10.90	116664	13.11	118620	16.99	106366	18.77
MSS	176952-002	011	29300	6.68	105089	8.34	63035	10.90	119796*	13.11	120492	16.99	109298	18.77
MS	QC278690	012	28880	6.68	106004	8.34	61846	10.90	119953*	13.11	120166	16.99	108873	18.78
MSD	QC278691	013	27766	6.68	97623	8.34	59460	10.90	114630	13.11	116061	16.99	105493	18.78
MSS	176952-007	014	26759	6.68	95562	8.34	57299	10.90	111188	13.11	117134	16.99	110009	18.78
SAMPLE	176952-003	015	30580	6.68	109758	8.35	66276*	10.90	126239*	13.11	130333*	16.99	120533	18.78
SAMPLE	176952-004	016	32285*	6.68	120876*	8.34	68450*	10.90	130151*	13.11	130774*	16.99	120214	18.77
SAMPLE	176952-008	017	31966*	6.68	119614*	8.34	70439*	10.90	140116*	13.11	160497*	17.01	140997*	18.81
SAMPLE	176952-009	018	32591*	6.68	122327*	8.34	70367*	10.89	133311*	13.11	138766*	16.99	130590*	18.77
SAMPLE	176952-010	019	28517	6.68	110712	8.34	60477	10.89	113952	13.10	117040	16.98	107358	18.77
SAMPLE	176952-011	020	30373	6.68	109618	8.34	65136	10.90	124704*	13.11	126581*	16.99	118299	18.77
SAMPLE	176952-012	021	28057	6.68	103515	8.34	61414	10.89	119180*	13.11	119094	16.99	109184	18.77
SAMPLE	176952-013	022	30671	6.68	108138	8.34	65009	10.90	125725*	13.11	126136*	16.99	116176	18.77
SAMPLE	176952-014	023	29663	6.68	104984	8.34	62749	10.89	120267*	13.11	121728	16.99	112418	18.77
SAMPLE	176952-015	024	28742	6.68	106446	8.34	63740	10.90	121390*	13.11	123649	16.99	109369	18.77
SAMPLE	176952-016	025	29137	6.68	104962	8.34	61625	10.90	118815*	13.11	119632	16.99	105062	18.77

* = Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 12-JAN-2005

Sequence: 525017986

Instrument ID: MSBNA03

(vac)

CCV Filename: vac02

Date Analyzed: 12-JAN-2005

Time Analyzed: 12:05

	IS1 (DCBZ14D4)		IS2 (NAPHD8)		IS3 (ACEND10)		IS4 (PHEND10)		IS5 (CHYD12)		IS6 (PERYD12)	
	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT
CCV STD	18574	6.64	71191	8.30	36364	10.85	66059	13.05	63664	16.94	57556	18.72
LOWER LIMIT	9287	6.14	35596	7.80	18182	10.35	33030	12.55	31832	16.44	28778	18.22
UPPER LIMIT	37148	7.14	142382	8.80	72728	11.35	132118	13.55	127328	17.44	115112	19.22

TYPE	SAMPLE	#												
CCV		002	18574	6.64	71191	8.30	36364	10.85	66059	13.05	63664	16.94	57556	18.72
BLANK	QC279009	003	20019	6.64	76324	8.31	40775	10.85	74835	13.05	70838	16.94	63286	18.72
LCS	QC279010	004	19426	6.64	70496	8.31	39152	10.85	72069	13.05	69622	16.94	61631	18.72
MSS	176984-007	005	20960	6.64	78960	8.30	42659	10.85	87657	13.07	85663	16.95	66789	18.73
MS	QC279011	006	22014	6.64	82960	8.30	45109	10.85	86382	13.07	89771	16.96	69026	18.74
MSD	QC279012	007	21875	6.64	79195	8.31	46391	10.85	91324	13.07	88602	16.96	67904	18.74
SAMPLE	176984-001	008	21217	6.64	81385	8.30	43620	10.85	84145	13.07	82190	16.95	54039	18.74
SAMPLE	176984-002	009	22396	6.64	79240	8.31	51179	10.87	55211	13.17	168482*	17.12	48974	18.87
SAMPLE	176984-004	010	20759	6.65	81434	8.30	52754	10.87	72701	13.12	60395	17.00	41404	18.77
SAMPLE	176984-005	011	17206	6.64	67052	8.31	38740	10.85	69694	13.06	63434	16.97	39716	18.76
SAMPLE	176984-008	012	18117	6.64	71779	8.30	39279	10.86	73241	13.05	76540	16.94	48360	18.73
SAMPLE	176984-009	013	21135	6.65	82088	8.31	43530	10.85	78861	13.06	78236	16.94	62861	18.72
SAMPLE	176984-011	014	23419	6.64	87627	8.31	50087	10.85	92606	13.06	93699	16.94	58351	18.73
SAMPLE	176984-012	015	20689	6.64	80155	8.30	42936	10.86	79394	13.05	78492	16.94	59573	18.72
SAMPLE	176984-014	016	17706	6.64	68461	8.31	37906	10.86	72674	13.07	69539	16.96	44089	18.76
SAMPLE	176984-015	017	19750	6.64	77287	8.30	40930	10.86	74841	13.06	70524	16.94	52378	18.72
SAMPLE	176984-017	018	20143	6.64	79365	8.30	41416	10.86	79072	13.07	75045	16.94	45747	18.73
SAMPLE	176984-018	019	19994	6.64	75626	8.31	41017	10.86	75032	13.06	72127	16.94	52229	18.72
SAMPLE	176984-020	020	18987	6.64	72675	8.30	38542	10.85	72792	13.07	69923	16.95	42471	18.73
SAMPLE	176984-021	021	22724	6.64	85536	8.31	47440	10.86	94355	13.07	94913	16.98	55504	18.78
SAMPLE	176984-023	022	23733	6.68	118841	8.32	767756*	10.97	319528*	13.55	68024	17.00	38178	18.76

* = Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 12-JAN-2005

Sequence: 545017994

Instrument ID: MSBNA05

(xac)

CCV Filename: xac02

Date Analyzed: 12-JAN-2005

Time Analyzed: 12:12

	IS1 (DCBZ14D4)		IS2 (NAPHD8)		IS3 (ACEND10)		IS4 (PHEND10)		IS5 (CHYD12)		IS6 (PERYD12)	
	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT
CCV STD	17029	5.76	55451	7.24	30576	9.50	52815	11.42	43629	15.11	37751	17.11
LOWER LIMIT	8515	5.26	27726	6.74	15288	9.00	26408	10.92	21815	14.61	18876	16.61
UPPER LIMIT	34058	6.26	110902	7.74	61152	10.00	105630	11.92	87258	15.61	75502	17.61

TYPE	SAMPLE	#												
CCV	04WS2239	002	17029	5.76	55451	7.24	30576	9.50	52815	11.42	43629	15.11	37751	17.11
BLANK	QC279057	003	16615	5.76	58751	7.24	32612	9.50	54240	11.42	46983	15.11	38157	17.11
LCS	QC279058	004	16856	5.76	59491	7.24	32154	9.50	55160	11.42	45701	15.11	39171	17.11
MSS	176983-001	005	18280	5.76	54132	7.28	65974*	9.57	58490	11.55	29482	15.19	14669*	17.18
MS	QC279059	006	14185	5.76	53315	7.28	132173*	9.57	103573	10.56*	3523*	15.14	189*	17.11
MSD	QC279060	007	10043	5.76	50440	7.29	140846*	9.26	141223*	10.86*	14988*	15.19	3856*	17.16
MSS	176952-002	008	12082	5.76	40057	7.24	24366	9.50	42754	11.42	38184	15.12	27853	17.11
MSS	QC278690	009	13458	5.76	47080	7.24	27769	9.50	49220	11.42	42832	15.12	32980	17.11
MSD	QC278691	010	15333	5.76	51199	7.24	29973	9.50	52698	11.42	44014	15.12	34546	17.11
MSS	176952-007	011	15173	5.76	53046	7.24	31087	9.50	53219	11.42	44816	15.12	33565	17.13
SAMPLE	176952-003	012	16203	5.76	54493	7.24	31624	9.50	54201	11.42	47575	15.12	35510	17.11
SAMPLE	176952-004	013	15820	5.76	55464	7.24	32235	9.50	55333	11.42	49240	15.12	36666	17.11
SAMPLE	176952-008	014	16964	5.76	55139	7.24	27435	9.50	54437	11.42	44475	15.15	29805	17.15
SAMPLE	176952-009	015	15431	5.76	53964	7.24	31396	9.50	53097	11.42	45164	15.12	34017	17.11
SAMPLE	176952-010	016	16146	5.76	57121	7.24	32609	9.50	55892	11.42	48064	15.12	35676	17.11
SAMPLE	176952-011	017	16353	5.76	57110	7.24	32593	9.50	57090	11.42	48220	15.12	37005	17.11
SAMPLE	176952-012	018	17121	5.76	60988	7.24	34402	9.50	59461	11.42	50963	15.11	38099	17.11
SAMPLE	176952-013	019	16351	5.76	56885	7.24	32791	9.50	56443	11.42	49642	15.11	36904	17.11
SAMPLE	176952-014	020	16895	5.76	58396	7.24	33713	9.50	58844	11.42	49900	15.12	37230	17.11
SAMPLE	176952-015	021	15916	5.76	54641	7.24	31961	9.50	55039	11.42	47144	15.11	35234	17.11
SAMPLE	176952-016	022	16941	5.76	56304	7.24	32716	9.50	55677	11.42	48531	15.11	35826	17.11

* = Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 13-JAN-2005

Sequence: 525019581

Instrument ID: MSBNA03

(vad)

CCV Filename: vad06

Date Analyzed: 13-JAN-2005

Time Analyzed: 16:43

	IS1 (DCBZ14D4)		IS2 (NAPHD8)		IS3 (ACEND10)		IS4 (PHEND10)		IS5 (CHYD12)		IS6 (PERYD12)	
	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT
CCV STD	17164	6.56	65665	8.22	34262	10.76	61698	12.96	62352	16.85	59232	18.63
LOWER LIMIT	8582	6.06	32833	7.72	17131	10.26	30849	12.46	31176	16.35	29616	18.13
UPPER LIMIT	34328	7.06	131330	8.72	68524	11.26	123396	13.46	124704	17.35	118464	19.13

TYPE	SAMPLE	#												
CCV		006	17164	6.56	65665	8.22	34262	10.76	61698	12.96	62352	16.85	59232	18.63
SAMPLE	176984-002	007	15222	6.56	59128	8.22	32211	10.76	68450	12.97	68621	16.86	57069	18.64
SAMPLE	176984-004	008	16439	6.56	64183	8.22	35691	10.76	70283	12.97	68514	16.85	62656	18.63
SAMPLE	176984-008	009	15891	6.56	60138	8.22	33338	10.76	62358	12.96	64886	16.84	61152	18.63
SAMPLE	176984-014	010	16300	6.56	61314	8.22	34508	10.76	68643	12.96	70676	16.86	64741	18.66
SAMPLE	176984-023	011	16398	6.56	65159	8.22	36402	10.76	67596	12.97	65065	16.85	59672	18.63
MSS	176983-001	012	16309	6.56	62462	8.22	36968	10.76	68426	12.97	66109	16.85	64788	18.64
SAMPLE	176961-016	013	17734	6.57	69839	8.22	37480	10.76	72463	12.96	72064	16.85	66236	18.63
SAMPLE	176984-024	014	16465	6.56	61626	8.22	34847	10.76	70502	12.96	66448	16.85	61239	18.64
SAMPLE	176984-026	015	16395	6.56	61742	8.22	34558	10.76	68468	12.96	67845	16.86	58647	18.64
SAMPLE	176984-027	016	17950	6.56	66993	8.22	37985	10.76	76641	12.97	78790	16.86	72139	18.65
SAMPLE	176984-029	017	18398	6.56	70264	8.22	39687	10.76	75746	12.97	74315	16.86	69812	18.64
SAMPLE	176984-031	018	16913	6.56	67467	8.22	42899	10.77	75291	12.98	68180	16.86	61302	18.64
SAMPLE	176984-032	019	17026	6.56	67745	8.22	40119	10.76	71895	12.97	68764	16.85	70944	18.64
SAMPLE	176984-034	020	19511	6.56	72882	8.22	41674	10.76	82414	12.96	81761	16.85	74299	18.63
SAMPLE	176983-002	021	18066	6.56	68948	8.22	39320	10.76	78285	12.96	79205	16.84	68478	18.63

1/14/06

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 14-JAN-2005

Sequence: 545020926

Instrument ID: MSBNA05

(xae)

CCV Filename: xae02

Date Analyzed: 14-JAN-2005

Time Analyzed: 13:03

	IS1 (DCBZ14D4)		IS2 (NAPHD8)		IS3 (ACEND10)		IS4 (PHEND10)		IS5 (CHYD12)		IS6 (PERYD12)	
	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT
CCV STD	18161	5.63	65969	7.12	33279	9.37	57673	11.27	46565	14.96	40875	16.95
LOWER LIMIT	9081	5.14	32985	6.62	16640	8.87	28837	10.77	23283	14.46	20438	16.45
UPPER LIMIT	36322	6.14	131938	7.62	66558	9.87	115346	11.77	93130	15.46	81750	17.45

TYPE	SAMPLE	#												
CCV	04WS2239	002	18161	5.64	65969	7.12	33279	9.37	57673	11.27	46565	14.96	40875	16.95
BLANK	QC279426	003	17420	5.63	63076	7.12	34484	9.37	58154	11.28	49089	14.96	40309	16.95
LCS	QC279427	004	16490	5.63	57353	7.12	31297	9.37	53633	11.27	44072	14.96	37800	16.95
MSS	176961-010	005	16430	5.63	57554	7.12	32401	9.37	54204	11.27	44732	14.96	38661	16.95
MS	QC279428	006	16495	5.63	57280	7.12	31991	9.37	54971	11.27	43750	14.96	31266	16.95
MSD	QC279429	007	16191	5.63	56230	7.12	31223	9.37	53776	11.27	41963	14.96	37659	16.95
SAMPLE	176956-001	008	16616	5.63	59425	7.12	31631	9.37	55364	11.29	42100	14.96	38621	16.95
SAMPLE	176984-039	009	16693	5.64	60019	7.12	32939	9.37	55552	11.27	46027	14.96	39579	16.95
SAMPLE	176984-038	010	15391	5.64	54488	7.12	29057	9.37	47619	11.29	36085	15.00	14531*	17.01
SAMPLE	177048-001	011	15837	5.64	58850	7.12	31475	9.37	52077	11.29	39875	14.97	23196	16.97
BLANK	QC279349	013	10164	5.64	39603	7.12	21097	9.37	37095	11.29	33625	14.96	23556	16.95
BSD	QC279351	015	8198*	5.64	31825*	7.12	16447*	9.37	29655	11.27	25955	14.96	19150*	16.95
SAMPLE	176859-009	016	9229	5.64	34533	7.12	18411	9.37	32048	11.29	29209	14.96	20829	16.95
SAMPLE	176984-037	017	9179	5.64	34130	7.12	18236	9.37	32017	11.27	28905	14.96	20991	16.95

* = Outside QC Limits

INTERNAL STANDARD SUMMARY
Curtis & Tompkins Laboratories

Sequence Date: 27-JAN-2005
Sequence: 525039519
Instrument ID: MSBNA03

(var)

CCV Filename: var02
Date Analyzed: 27-JAN-2005
Time Analyzed: 10:57

	IS1 (DCBZ14D4)		IS2 (NAPHD8)		IS3 (ACEND10)		IS4 (PHEND10)		IS5 (CHYD12)		IS6 (PERYD12)	
	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT	READING	RT
CCV STD	15347	6.44	54398	8.09	29713	10.62	53806	12.81	53000	16.70	47121	18.48
LOWER LIMIT	7674	5.94	27199	7.59	14857	10.12	26903	12.31	26500	16.20	23561	17.98
UPPER LIMIT	30694	6.94	108796	8.59	59426	11.12	107612	13.31	106000	17.20	94242	18.98

TYPE	SAMPLE	#											
CCV		002	15347	6.44	54398	8.09	29713	10.62	53806	12.81	53000	16.70	47121 18.48
BLANK	QC280640	003	16101	6.44	57643	8.09	32930	10.62	62175	12.81	61433	16.70	56046 18.48
LCS	QC280641	004	15509	6.44	55179	8.09	31842	10.62	61052	12.81	62017	16.69	55120 18.47
LCS	QC280642	005	14870	6.44	53118	8.09	30206	10.62	58339	12.81	59323	16.70	52158 18.48
LCS	QC280643	006	15631	6.44	56019	8.09	32105	10.62	61942	12.81	62978	16.70	55605 18.48
LCS	QC280644	007	16825	6.44	59971	8.09	34208	10.62	65733	12.81	66623	16.70	58894 18.48
BLANK	QC280653	008	15946	6.44	57960	8.09	33295	10.62	64515	12.81	62160	16.69	53868 18.48
LCS	QC280654	009	15584	6.44	55979	8.09	32221	10.62	62373	12.81	63131	16.69	56576 18.47
LCS	QC280655	010	15892	6.44	56262	8.09	31824	10.62	60998	12.81	62354	16.69	54336 18.48
LCS	QC280656	011	16090	6.44	58324	8.09	32598	10.62	63331	12.81	64435	16.69	56313 18.47
LCS	QC280657	012	15311	6.44	54246	8.09	30946	10.62	59079	12.81	59935	16.69	52772 18.47
BLANK	QC280648	013	16227	6.44	56224	8.09	32513	10.62	62644	12.81	60537	16.70	53371 18.48
LCS	QC280649	014	15821	6.44	55345	8.09	32133	10.62	61996	12.81	62772	16.70	54360 18.48
LCS	QC280650	015	16032	6.44	57348	8.09	32531	10.62	62814	12.81	63865	16.70	55460 18.48
LCS	QC280651	016	16576	6.44	57865	8.09	33730	10.62	64638	12.81	65626	16.70	56217 18.48
LCS	QC280652	017	15893	6.44	55329	8.09	31426	10.62	60185	12.81	61361	16.70	52090 18.48
SAMPLE	176984-006	018	14288	6.44	52243	8.09	31763	10.62	68015	12.82	68909	16.71	72783 18.50

SEQUENCE SUMMARY Curtis & Tompkins Laboratories

Begun: 23-NOV-2004

Sequence: 524473298 Instrument: MSBNA03 HP GCMS BNA 03
 Analytical Method: EPA 8270C SOP Version: 8270C_rv7
 Analytical Method: EPA 8270C-SIM SOP Version: 8270-SIM_rv0

Filename	Type	Sample	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
01 vkn01	TUN	NP NL			23-NOV-2004 16:18	1.0	1.0				1	
02 vkn02	TUN	NP NL			23-NOV-2004 16:36	1.0	1.0				1	
03 vkn03	CCV				23-NOV-2004 16:53	1.0	1.0	21	1		2 CC- CC+	20:BZAA=15.21
04 vkn04	CCV				23-NOV-2004 17:25	1.0	1.0	20	1		2 CC- CC+	20:BZAA=15.13
05 vkn05	CCV				23-NOV-2004 18:00	1.0	1.0	19	1		2 CC- CC+	19:BZAA=14.08
06 vkn06	TUN	NP NL			23-NOV-2004 18:26	1.0	1.0				1	
07 vkn07	ICAL	0.1 ug/mL			23-NOV-2004 18:44	1.0	1.0				3	
08 vkn08	ICAL	0.2 ug/mL			23-NOV-2004 19:16	1.0	1.0				4	
09 vkn09	ICAL	0.5 ug/mL			23-NOV-2004 19:49	1.0	1.0				5	
10 vkn10	CCV	1.0 ug/mL			23-NOV-2004 20:21	1.0	1.0		1		6	
11 vkn11	ICAL	2.0 ug/mL			23-NOV-2004 20:54	1.0	1.0				7	
12 vkn12	ICAL	5.0 ug/mL			23-NOV-2004 21:26	1.0	1.0				8	
13 vkn13	ICAL	10.0 ug/mL			23-NOV-2004 21:58	1.0	1.0				9	
14 vkn14	ICV	2.0 ug/mL			23-NOV-2004 22:31	1.0	1.0	1	1		10	
15 vkn15	BLANK	QC273389	96763	Water	23-NOV-2004 23:04	1.0	0.001		1		11	
16 vkn16	BS	QC273390	96763	Water	23-NOV-2004 23:38	1.0	0.001		1		11	
17 vkn17	BSD	QC273391	96763	Water	24-NOV-2004 00:11	1.0	0.001		1		11	
18 vkn18	SAMPLE	175991-019	96763	Water	24-NOV-2004 00:45	1.0	0.0009515	3	1		11 sh	
19 vkn19	SAMPLE	175991-020	96763	Water	24-NOV-2004 01:17	1.0	0.0009709	3	1		11 sh	
20 vkn20	SAMPLE	175991-021	96763	Water	24-NOV-2004 01:49	1.0	0.0009709	3	1		11 sh	
21 vkn21	SAMPLE	176116-003	96763	Water	24-NOV-2004 02:22	1.0	0.001		1		11	
22 vkn22	SAMPLE	176116-004	96763	Water	24-NOV-2004 02:55	1.0	0.001		1		11	
23 vkn23	SAMPLE	176116-007	96763	Water	24-NOV-2004 03:27	1.0	0.001		1		11	
24 vkn24	SAMPLE	176152-008	96703	Water	24-NOV-2004 04:00	1.0	0.0009524		1	1	11	
25 vkn25	SAMPLE	176152-001	96703	Water	24-NOV-2004 04:32	1.0	0.0009709		1	1	11	
26 vkn26	SAMPLE	176152-004	96703	Water	24-NOV-2004 05:03	1.0	0.0009804		1	1	11	
27 vkn27	X	ENDBLANK			24-NOV-2004 05:37	1.0						
28 vkn28	X	ENDBLANK			24-NOV-2004 06:03	1.0						
29 vkn29	X	ENDBLANK			24-NOV-2004 06:14	1.0						

stds used: 1=04WS1543 2=04WS1827 3=04WS2236 4=04WS2237 5=04WS2238 6=04WS2239 7=04WS2240 8=04WS2241 9=04WS2242 10=04WS2206 11=04WS2207
 flags used: +=high bias -=low bias cc=CCV CCC failure sh=out of sample hold

Analyst: [Signature] Date: 11/24/04
 Page 1 of 1

Handwritten notes:
 GCMS: Oh
 CCV: Oh accepts 2-Methylphenol + 1-butanol
 - 1,4-Dioxane; Chrysene; Benzo(a)fluoranthene +
 Cal. naming book

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 10-JAN-2005

Sequence: 525014924 Instrument: MSBNA03 HP GCMS BNA 03
Analytical Method: EPA 8270C SOP Version: 8270C_rv7
Analytical Method: EPA 8270C-SIM SOP Version: 8270-SIM_rv0

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
001	vaa01	TUN	<i>not used</i>			10-JAN-2005 08:44	1.0	1.0				1	
002	vaa02	CCV				10-JAN-2005 09:03	1.0	1.0	4	1		2 CC+	
003	vaa03	CCV				10-JAN-2005 09:45	1.0	1.0	2	1		2	
004	vaa04	TUN	NP NL			10-JAN-2005 16:12	1.0	1.0				1	
005	vaa05	CCV				10-JAN-2005 16:34	1.0	1.0	3	1		2	
006	vaa06	BLANK	QC278889	98164	Soil	10-JAN-2005 17:20	1.0	0.0334			1	3	
007	vaa07	SAMPLE	176961-006	98164	Soil	10-JAN-2005 17:52	1.0	0.03364	1	1		3	
008	vaa08	SAMPLE	176961-016	98164	Soil	10-JAN-2005 18:24	1.0	0.03301	1	1		3	
009	vaa09	SAMPLE	176961-009	98164	Soil	10-JAN-2005 18:56	1.0	0.03349	1	1		3	
010	vaa10	SAMPLE	176984-034	98164	Soil	10-JAN-2005 19:28	1.0	0.03351	1	1		3	
011	vaa11	SAMPLE	176984-031	98164	Soil	10-JAN-2005 20:01	1.0	0.03359	3	2	1	3	2:ANTH=32.7592
012	vaa12	SAMPLE	176984-032	98164	Soil	10-JAN-2005 20:34	1.0	0.03339	2		1	3	1:PHAN=12.3211
013	vaa13	SAMPLE	176984-029	98164	Soil	10-JAN-2005 21:07	1.0	0.03351	2		1	3	
014	vaa14	SAMPLE	176984-027	98164	Soil	10-JAN-2005 21:40	1.0	0.03349			1	3	
015	vaa15	SAMPLE	176961-007	98164	Soil	10-JAN-2005 22:13	1.0	0.03361	3		1	3	
016	vaa16	SAMPLE	176961-004	98164	Soil	10-JAN-2005 22:46	1.0	0.03359	1		1	3	
017	vaa17	SAMPLE	176984-026	98164	Soil	10-JAN-2005 23:22	1.0	0.03331		1	1	3	2:PHAN=10.2010
018	vaa18	SAMPLE	176984-024	98164	Soil	10-JAN-2005 23:58	1.0	0.03349			1	3	
019	vaa19	SAMPLE	176961-012	98164	Soil	11-JAN-2005 00:30	1.0	0.03349	1	1	1	3	2:ANTH=20.9783
020	vaa20	SAMPLE	176961-001	98164	Soil	11-JAN-2005 01:05	1.0	0.03287	3		1	3	
021	vaa21	SAMPLE	176961-002	98164	Soil	11-JAN-2005 01:40	1.0	0.03319	12		1	3	14:PYR=346.465
022	vaa22	SAMPLE	176986-001	98164	Soil	11-JAN-2005 02:13	1.0	0.03332	3		1	3	
023	vaa23	SAMPLE	176961-014	98164	Soil	11-JAN-2005 02:46	1.0	0.03307	2		1	3	
024	vaa24	SAMPLE	176961-013	98164	Soil	11-JAN-2005 03:22	1.0	0.03285	2		1	3	
025	vaa25	X	ENDBLANK			11-JAN-2005 03:57	1.0						
026	vaa26	X	ENDBLANK			11-JAN-2005 04:24	1.0						
027	vaa27	X	ENDBLANK			11-JAN-2005 04:34	1.0						

Stds used: 1=04WS1543 2=04WS2238 3=04WS2234
Flags used: +=high bias cc=CCV CCC failure

Analyst: MDW Date: 1/11/05
Page 1 of 1

[Signature]

CCV: pyrene fails %D ↑

• Indeno(1,2,3-cd)pyrene, dibenz(a,h)anthracene fail %D ↓

ICAC: OK

ICV: • 1,4-Dioxane ↑, Chrysene ↓, Benzo (K) fluoranthene ↑ fails 2.b warning limits
• 2-methylanthracene fails ↑ %D (MT)

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 525016508 Instrument: MSBNA03 HP GCMS BNA 03
Analytical Method: EPA 8270C SOP Version: 8270C_rv7
Analytical Method: EPA 8270C-SIM SOP Version: 8270-SIM_rv0

Begun: 11-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
001	vab01	TUN	NP NL			11-JAN-2005 11:08	1.0	1.0				1	
002	vab02	CCV				11-JAN-2005 11:26	1.0	1.0			1	2	
003	vab03	LCS	QC278890	98164	Soil	11-JAN-2005 12:05	1.0	0.0335			1	3	
004	vab04	MSS	176984-033	98164	Soil	11-JAN-2005 12:37	1.0	0.0334			1	3	
005	vab05	MS	QC278891	98164	Soil	11-JAN-2005 13:12	1.0	0.03297			1	3	
006	vab06	MSD	QC278892	98164	Soil	11-JAN-2005 13:43	1.0	0.03357			1	3	
007	vab07	BLANK	QC278672	98101	Soil	11-JAN-2005 14:17	1.0	0.03339			1	3	
008	vab08	LCS	QC278673	98101	Soil	11-JAN-2005 14:50	1.0	0.03342			1	3	
009	vab09	BLANK	QC278688	98106	Soil	11-JAN-2005 15:21	1.0	0.03348			1	3	
010	vab10	LCS	QC278689	98106	Soil	11-JAN-2005 15:57	1.0	0.03329			1	3	
011	vab11	MSS	176952-002	98106	Soil	11-JAN-2005 16:29	1.0	0.03369			1	3	
012	vab12	MS	QC278690	98106	Soil	11-JAN-2005 17:01	1.0	0.03374		1	1	3	
013	vab13	MSD	QC278691	98106	Soil	11-JAN-2005 17:35	1.0	0.03351			1	3	
014	vab14	MSS	176952-007	98101	Soil	11-JAN-2005 18:07	1.0	0.03319	2		1	3	
015	vab15	SAMPLE	176952-003	98106	Soil	11-JAN-2005 18:40	1.0	0.03329			1	3	
016	vab16	SAMPLE	176952-004	98106	Soil	11-JAN-2005 19:12	1.0	0.0336			1	3	
017	vab17	SAMPLE	176952-008	98106	Soil	11-JAN-2005 19:45	1.0	0.03312	2		1	3	
018	vab18	SAMPLE	176952-009	98106	Soil	11-JAN-2005 20:17	1.0	0.03319			1	3	
019	vab19	SAMPLE	176952-010	98106	Soil	11-JAN-2005 20:50	1.0	0.03368	1		1	3	
020	vab20	SAMPLE	176952-011	98106	Soil	11-JAN-2005 21:22	1.0	0.03362	2		1	3	
021	vab21	SAMPLE	176952-012	98106	Soil	11-JAN-2005 21:54	1.0	0.03381	2		1	3	
022	vab22	SAMPLE	176952-013	98106	Soil	11-JAN-2005 22:27	1.0	0.03337	2		1	3	
023	vab23	SAMPLE	176952-014	98106	Soil	11-JAN-2005 23:01	1.0	0.03384	2		1	3	
024	vab24	SAMPLE	176952-015	98106	Soil	11-JAN-2005 23:35	1.0	0.03375	19		1	3 <<t	
025	vab25	SAMPLE	176952-016	98106	Soil	12-JAN-2005 00:09	1.0	0.03353	19		1	3 <<t	
026	vab26	X	ENDBLANK			12-JAN-2005 00:35	1.0						
027	vab27	X	ENDBLANK			12-JAN-2005 00:46	1.0						
028	vab28	X	ENDBLANK			12-JAN-2005 00:56	1.0						

CCV: OK

ICAL: OK

Stds used: 1=04WS1543 2=04WS2239 3=04WS2234

Flags used: <<t=out of clock

Analyst: mm

Date: 1/12/05

ICU: 1,4-Dioxane ↑, chrysene b, Benzo(k)fluoranthene ↑ failed

> warning limits

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 545016540 Instrument: MSBNA05 HP GCMS BNA 05
Analytical Method: EPA 8270C SOP Version: 8270C_rv7
Analytical Method: EPA 8270C-SIM SOP Version: 8270-SIM_rv0

Begun: 11-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	xab01	TUN	NP NL			11-JAN-2005 10:44	1.0	1.0				1	
002	xab02	CCV	updating group RTs			11-JAN-2005 11:07	1.0	1.0	16	1		2	3:ANTH=10.4353
003	xab03	CCV				11-JAN-2005 11:40	1.0	1.0	21	1		2	?t cc-
004	xab04	ICAL	0.1 µg/mL			11-JAN-2005 12:20	1.0	1.0				3	
005	xab05	ICAL	0.2			11-JAN-2005 12:51	1.0	1.0				4	
006	xab06	ICAL	0.5			11-JAN-2005 13:24	1.0	1.0				5	
007	xab07	ICAL	1.0			11-JAN-2005 13:55	1.0	1.0				6	
008	xab08	ICAL	2.0			11-JAN-2005 14:26	1.0	1.0				7	
009	xab09	ICAL	5.0			11-JAN-2005 14:57	1.0	1.0				8	
010	xab10	ICAL	10.0			11-JAN-2005 15:30	1.0	1.0				2	
011	xab11	ICV				11-JAN-2005 16:01	1.0	1.0	1	1		9	
012	xab12	TUN	NP NL			11-JAN-2005 16:32	1.0	1.0				1	
013	xab13	CCV				11-JAN-2005 16:48	1.0	1.0			1	7	
014	xab14	BLANK	QC268407	95540	Soil	11-JAN-2005 17:21	1.0	0.03306	21	1		10	eh
015	xab15	MDL	174176-001	95540	Soil	11-JAN-2005 17:52	1.0	0.03359	20	1		10	eh 1:DIOXAN=102.542
016	xab16	MDL	174176-002	95540	Soil	11-JAN-2005 18:24	1.0	0.03342	20	1		10	eh 1:DIOXAN=120.368
017	xab17	MDL	174176-003	95540	Soil	11-JAN-2005 18:56	1.0	0.03333	20	1		10	eh 1:DIOXAN=107.214
018	xab18	MDL	174176-004	95540	Soil	11-JAN-2005 19:29	1.0	0.03308	20	1		10	eh 1:DIOXAN=93.9798
019	xab19	MDL	174176-005	95540	Soil	11-JAN-2005 20:01	1.0	0.03353	20	1		10	eh 1:DIOXAN=89.7303
020	xab20	MDL	174176-006	95540	Soil	11-JAN-2005 20:33	1.0	0.0332	20	1		10	eh 1:DIOXAN=93.5017
021	xab21	MDL	174176-007	95540	Soil	11-JAN-2005 21:06	1.0	0.03317	20	1		10	eh 1:DIOXAN=95.3703

ICAL: 0.1

ICV: 0.1 except 2.0 methyl naphthalene ↑ but 10-NT
- Chrysene ↓ but 10-NT

Stds used: 1=04WS1543 2=04WS2242 3=04WS2236 4=04WS2237 5=04WS2238 6=04WS2239 7=04WS2240 8=04WS2241 9=04WS2206 10=04WS2234
Flags used: --low bias ?t=missing tune cc=CCV CCC failure eh=out of extract hold

Analyst:
Page 1 of 1

Date: 1/12/05

2
01/12/05

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 525017986 Instrument: MSBNA03 HP GCMS BNA 03
Analytical Method: EPA 8270C SOP Version: 8270C_rv7
Analytical Method: EPA 8270C-SIM SOP Version: 8270-SIM_rv0

Begun: 12-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	vac01	TUN	NP NL			12-JAN-2005 11:46	1.0	1.0				1	
002	vac02	CCV				12-JAN-2005 12:05	1.0	1.0			1	2	
003	vac03	BLANK	QC279009	98199	Soil	12-JAN-2005 12:43	1.0	0.0334			1	3	
004	vac04	LCS	QC279010	98199	Soil	12-JAN-2005 13:15	1.0	0.0335			1	3	
005	vac05	MSS	176984-007	98199	Soil	12-JAN-2005 13:49	1.0	0.03348			1	3	
006	vac06	MS	QC279011	98199	Soil	12-JAN-2005 14:20	1.0	0.03362		10	1	3	
007	vac07	MSD	QC279012	98199	Soil	12-JAN-2005 14:52	1.0	0.03365		9	1	3	
008	vac08	SAMPLE	176984-001	98199	Soil	12-JAN-2005 15:25	1.0	0.03342			1	3	
009	vac09	SAMPLE	176984-002	98199	Soil	12-JAN-2005 15:56	1.0	0.03338	2	1	1	3	2:ANTH=19.0895
010	vac10	SAMPLE	176984-004	98199	Soil	12-JAN-2005 16:28	1.0	0.03341	2		1	3	2:ANTH=66.5941
011	vac11	SAMPLE	176984-005	98199	Soil	12-JAN-2005 17:01	1.0	0.03311			1	3	
012	vac12	SAMPLE	176984-008	98199	Soil	12-JAN-2005 17:33	1.0	0.03369	4		1	3	4:PYR=19.8933
013	vac13	SAMPLE	176984-009	98199	Soil	12-JAN-2005 18:05	1.0	0.03352			1	3	
014	vac14	SAMPLE	176984-011	98199	Soil	12-JAN-2005 18:37	1.0	0.03366			1	3	
015	vac15	SAMPLE	176984-012	98199	Soil	12-JAN-2005 19:11	1.0	0.03357			1	3	
016	vac16	SAMPLE	176984-014	98199	Soil	12-JAN-2005 19:44	1.0	0.03347		3	1	3	
017	vac17	SAMPLE	176984-015	98199	Soil	12-JAN-2005 20:18	1.0	0.03347			1	3	
018	vac18	SAMPLE	176984-017	98199	Soil	12-JAN-2005 20:50	1.0	0.03359			1	3	
019	vac19	SAMPLE	176984-018	98199	Soil	12-JAN-2005 21:23	1.0	0.03295			1	3	
020	vac20	SAMPLE	176984-020	98199	Soil	12-JAN-2005 21:55	1.0	0.03368			1	3	
021	vac21	SAMPLE	176984-021	98199	Soil	12-JAN-2005 22:27	1.0	0.03351			1	3	
022	vac22	SAMPLE	176984-023	98199	Soil	12-JAN-2005 22:59	1.0	0.03365		1	1	3	1:MTNPH2=33.1480

CCV = 1,4-Dioxane ↓, Naphthalene ↓,
Benzo(k)fluoranthene ↓ fails 2.0
warning limits

IC44 = OK

ICV = 2-methyl naphthalene ↑ fails 2.0 (NT)

1,4-Dioxane ↑, Chrysene ↓, Benzo(k)fluoranthene ↑
fails 2.0 warning limits

Stds used: 1=04WS1543 2=04WS2239 3=04WS2234

Analyst: now Date: 1/13/05
Page 1 of 1

1/13/05

MB/ves

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 545017994 Instrument: MSBNA05 HP GCMS BNA 05
Analytical Method: EPA 8270C SOP Version: 8270C_rv7
Analytical Method: EPA 8270C-SIM SOP Version: 8270-SIM_rv0

Begun: 12-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
001	xac01	TUN	NP NL			12-JAN-2005 11:54	1.0	1.0				1	
002	xac02	CCV	04WS2239			12-JAN-2005 12:12	1.0	1.0			1	2	
003	xac03	BLANK	QC279057	98213	Soil	12-JAN-2005 12:47	1.0	0.03294			1	3	
004	xac04	LCS	QC279058	98213	Soil	12-JAN-2005 13:19	1.0	0.03341			1	3	
005	xac05	MSS	176983-001	98213	Soil	12-JAN-2005 13:51	1.0	0.03312	1		1	3	2:ANTH=12.1064
006	xac06	MS	QC279059	98213	Soil	12-JAN-2005 14:22	1.0	0.03346	4	8	1	3	1:PYR=10.6566
007	xac07	MSD	QC279060	98213	Soil	12-JAN-2005 14:53	1.0	0.03324	3	16	1	3	
008	xac08	MSS	176952-002	98106	Soil	12-JAN-2005 15:24	1.0	0.03369			1	3	
009	xac09	MS	QC278690	98106	Soil	12-JAN-2005 15:55	1.0	0.03374		1	1	3	
010	xac10	MSD	QC278691	98106	Soil	12-JAN-2005 16:27	1.0	0.03351			1	3	
011	xac11	MSS	176952-007	98101	Soil	12-JAN-2005 16:59	1.0	0.03319	1		1	3	
012	xac12	SAMPLE	176952-003	98106	Soil	12-JAN-2005 17:30	1.0	0.03329			1	3	
013	xac13	SAMPLE	176952-004	98106	Soil	12-JAN-2005 18:01	1.0	0.0336			1	3	
014	xac14	SAMPLE	176952-008	98106	Soil	12-JAN-2005 18:32	1.0	0.03312	1		1	3	
015	xac15	SAMPLE	176952-009	98106	Soil	12-JAN-2005 19:03	1.0	0.03319	1		1	3	
016	xac16	SAMPLE	176952-010	98106	Soil	12-JAN-2005 19:34	1.0	0.03368	1		1	3	
017	xac17	SAMPLE	176952-011	98106	Soil	12-JAN-2005 20:05	1.0	0.03362	1		1	3	
018	xac18	SAMPLE	176952-012	98106	Soil	12-JAN-2005 20:37	1.0	0.03381	1		1	3	
019	xac19	SAMPLE	176952-013	98106	Soil	12-JAN-2005 21:09	1.0	0.03337			1	3	
020	xac20	SAMPLE	176952-014	98106	Soil	12-JAN-2005 21:40	1.0	0.03384	1		1	3	
021	xac21	SAMPLE	176952-015	98106	Soil	12-JAN-2005 22:13	1.0	0.03375	1		1	3	
022	xac22	SAMPLE	176952-016	98106	Soil	12-JAN-2005 22:44	1.0	0.03353			1	3	

CCV/OK

ICV/ • 2-methylmptthalene ↑ fails %D

ICAL/OK

• Chrysene ↓ fails %D warning limits

Stds used: 1=04WS1543 2=04WS2239 3=04WS2234

Analyst: mpw Date: 1/13/05

Page 1 of 1

[Signature]

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 525019581 Instrument: MSBNA03 HP GCMS BNA 03
Analytical Method: EPA 8270C SOP Version: 8270C_rv7
Analytical Method: EPA 8270C-SIM SOP Version: 8270-SIM_rv0

Begun: 13-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
002	vad02	TUN	NP NL			13-JAN-2005 14:21	1.0	1.0				1	
003	vad03	CCV				13-JAN-2005 14:42	1.0	1.0	5	1		2 cc-	
004	vad04	CCV				13-JAN-2005 15:49	1.0	1.0	20	1		3 cc+ 19:INP123=13.1401	
005	vad05	TUN	NP NL			13-JAN-2005 16:24	1.0	1.0				1	
006	vad06	CCV				13-JAN-2005 16:43	1.0	1.0			1	2	
007	vad07	SAMPLE	176984-002	98199	Soil	13-JAN-2005 17:29	25.0	0.03338			1	4	
008	vad08	SAMPLE	176984-004	98199	Soil	13-JAN-2005 18:01	15.0	0.03341			1	4	
009	vad09	SAMPLE	176984-008	98199	Soil	13-JAN-2005 18:33	5.0	0.03369			1	4	
010	vad10	SAMPLE	176984-014	98199	Soil	13-JAN-2005 19:06	5.0	0.03347			1	4	
011	vad11	SAMPLE	176984-023	98199	Soil	13-JAN-2005 19:38	50.0	0.03365			1	4	
012	vad12	MSS	176983-001	98213	Soil	13-JAN-2005 20:10	25.0	0.03312	1		1	4	
013	vad13	SAMPLE	176961-016	98164	Soil	13-JAN-2005 20:42	10.0	0.03301			1	4	
014	vad14	SAMPLE	176984-024	98164	Soil	13-JAN-2005 21:14	10.0	0.03349			1	4	
015	vad15	SAMPLE	176984-026	98164	Soil	13-JAN-2005 21:47	50.0	0.03331			1	4	
016	vad16	SAMPLE	176984-027	98164	Soil	13-JAN-2005 22:19	10.0	0.03349			1	4	
017	vad17	SAMPLE	176984-029	98164	Soil	13-JAN-2005 22:53	5.0	0.03351			1	4	
018	vad18	SAMPLE	176984-031	98164	Soil	13-JAN-2005 23:26	20.0	0.03359			1	4	
019	vad19	SAMPLE	176984-032	98164	Soil	13-JAN-2005 00:00	5.0	0.03339			1	4	
020	vad20	SAMPLE	176984-034	98164	Soil	14-JAN-2005 00:34	1.0	0.03351			1	4	
021	vad21	SAMPLE	176983-002	98213	Soil	14-JAN-2005 01:07	1.0	0.03343			1	4	

CCV: 2-methylnaphthalene > fail warning limits for
Benzo(b)fluoranthene

ICV: 2-methylnaphthalene ↑ %b (NT)

4,4-Dioxane ↑, Chrysene ↓, Benzo(k)fluoranthene ↑
fail for warning limits

ICAL: ok

Stds used: 1=04WS1543 2=04WS2239 3=04WS2242 4=04WS2234
Flags used: +=high bias -=low bias cc=CCV CCC failure

Analyst: So Date: 1/14/05
Page 1 of 1

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 545020926 Instrument: MSBNA05 HP GCMS BNA 05
Analytical Method: EPA 8270C SOP Version: 8270C_rv7
Analytical Method: EPA 8270C-SIM SOP Version: 8270-SIM_rv0

Begun: 14-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
001	xae01	TUN	04WS1543			14-JAN-2005 12:46	1.0	1.0				1	
002	xae02	CCV	04WS2239			14-JAN-2005 13:03	1.0	1.0			1	2	
003	xae03	BLANK	QC279426	98305	Soil	14-JAN-2005 13:44	1.0	0.03304			1	3	
004	xae04	LCS	QC279427	98305	Soil	14-JAN-2005 14:16	1.0	0.0335			1	3	
005	xae05	MSS	176961-010	98305	Soil	14-JAN-2005 14:48	1.0	0.03339			1	3	
006	xae06	MS	QC279428	98305	Soil	14-JAN-2005 15:19	1.0	0.03337			1	3	
007	xae07	MSD	QC279429	98305	Soil	14-JAN-2005 15:51	1.0	0.03337			1	3	
008	xae08	SAMPLE	176956-001	98305	Soil	14-JAN-2005 16:22	1.0	0.03334	3		1	3	3: PHAN=25.5844
009	xae09	SAMPLE	176984-039	98305	Soil	14-JAN-2005 16:53	1.0	0.03362			1	3	
010	xae10	SAMPLE	176984-038	98305	Soil	14-JAN-2005 17:24	1.0	0.03336			1	3	
011	xae11	SAMPLE	177048-001	98305	Soil	14-JAN-2005 17:56	1.0	0.03336			1	3	
013	xae13	BLANK	QC279349	98284	Water	14-JAN-2005 19:01	1.0	0.001	1	1	1	3	
015	xae15	BSD	QC279351	98284	Water	14-JAN-2005 20:04	1.0	0.001			1	3	
016	xae16	SAMPLE	176859-009	98284	Water	14-JAN-2005 20:36	1.0	0.001	19		1	3	sh
017	xae17	SAMPLE	176984-037	98284	Water	14-JAN-2005 21:07	1.0	0.0009524	19		1	3	sh

cen: ok
SEAL: ok

CV: 2-Methyl-naphthalene ↑ buts ED (MD)
Chrysene ↓ buts many buts

files 12+14 did not acquire - instrument error

Stds used: 1=04WS1543 2=04WS2239 3=04WS2234

Flags used: sh=out of sample hold

Analyst:

Date: 1/17/05

Page 1 of 1

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 525039519 Instrument: MSBNA03 HP GCMS BNA 03
Analytical Method: EPA 8270C SOP Version: 8270C_rv7
Analytical Method: EPA 8270C-SIM SOP Version: 8270-SIM_rv0

Begun: 27-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
001	var01	TUN	NP NL			27-JAN-2005 10:39	1.0	1.0				1	
002	var02	CCV				27-JAN-2005 10:57	1.0	1.0		1		2	
003	var03	BLANK	QC280640	98623	Water	27-JAN-2005 11:30	1.0	0.001		1		3	
004	var04	LCS	QC280641	98623	Water	27-JAN-2005 12:01	1.0	0.001		1		3	
005	var05	LCS	QC280642	98623	Water	27-JAN-2005 12:35	1.0	0.001		1		3	
006	var06	LCS	QC280643	98623	Water	27-JAN-2005 13:08	1.0	0.001		1		3	
007	var07	LCS	QC280644	98623	Water	27-JAN-2005 13:42	1.0	0.001		1		3	
008	var08	BLANK	QC280653	98631	Water	27-JAN-2005 14:15	1.0	0.001		1		3	
009	var09	LCS	QC280654	98631	Water	27-JAN-2005 14:47	1.0	0.001		1		3	
010	var10	LCS	QC280655	98631	Water	27-JAN-2005 15:19	1.0	0.001		1		3	
011	var11	LCS	QC280656	98631	Water	27-JAN-2005 15:51	1.0	0.001		1		3	
012	var12	LCS	QC280657	98631	Water	27-JAN-2005 16:24	1.0	0.001		1		3	
013	var13	BLANK	QC280648	98630	Water	27-JAN-2005 16:56	1.0	0.001		1		3	
014	var14	LCS	QC280649	98630	Water	27-JAN-2005 17:28	1.0	0.001		1		3	
015	var15	LCS	QC280650	98630	Water	27-JAN-2005 18:00	1.0	0.001		1		3	
016	var16	LCS	QC280651	98630	Water	27-JAN-2005 18:32	1.0	0.001		1		3	
017	var17	LCS	QC280652	98630	Water	27-JAN-2005 19:06	1.0	0.001		1		3	
018	var18	SAMPLE	176984-006	98213	Soil	27-JAN-2005 19:39	10.0	0.03344		1		3	

ICAL OK

CCV OK

Benzo(B) Fluoranthene & fails 10 warning limits

ICV 2-methylanthracene ↑ fails 10

1,4-Dioxene ↑, Chrysene ↓, Benzo(B) Fluoranthene ↑
fails 10 warning limits

Stds used: 1=04WS1543 2=04WS2239 3=04WS2234

Analyst: MDW Date: 1/28/05
Page 1 of 1

[Signature]

Curtis & Tompkins Laboratories

Sample Preparation Summary

18-JAN-2005 11:19

Batch Number : 98164
 Date Extracted: 10-JAN-2005
 Extracted by : Brook N. Buswell
 Prep Method : 3550

Analysis : 8270-SIM
 Bgroup : N/A
 Units : g
 Clean-up :

Spike #1 ID : 04WS2329E
 Spike #2 ID : 04WS1676C
 Spike #3 ID :
 SOP Version : 8270 SIM rv0

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176961-001		Ninyo & Moore	Soil	30.42 g	1	0.032873	1	1	0			8270-SIM		
176961-002		Ninyo & Moore	Soil	30.13 g	1	0.033190	1	1	0			8270-SIM		
176961-004		Ninyo & Moore	Soil	29.77 g	1	0.033591	1	1	0			8270-SIM		
176961-006		Ninyo & Moore	Soil	29.73 g	1	0.033636	1	1	0			8270-SIM		
176961-007		Ninyo & Moore	Soil	29.75 g	1	0.033613	1	1	0			8270-SIM		
176961-009		Ninyo & Moore	Soil	29.86 g	1	0.033490	1	1	0			8270-SIM		
176961-012		Ninyo & Moore	Soil	29.86 g	1	0.033490	1	1	0			8270-SIM		
176961-013		Ninyo & Moore	Soil	30.44 g	1	0.032852	1	1	0			8270-SIM		
176961-014		Ninyo & Moore	Soil	30.24 g	1	0.033069	1	1	0			8270-SIM		
176961-016		Ninyo & Moore	Soil	30.29 g	1	0.033014	1	1	0			8270-SIM		
176984-024		Ninyo & Moore	Soil	29.86 g	1	0.033490	1	1	0			8270-SIM		
176984-026		Ninyo & Moore	Soil	30.02 g	1	0.033311	1	1	0			8270-SIM		
176984-027		Ninyo & Moore	Soil	29.86 g	1	0.033490	1	1	0			8270-SIM		
176984-029		Ninyo & Moore	Soil	29.84 g	1	0.033512	1	1	0			8270-SIM		
176984-031		Ninyo & Moore	Soil	29.77 g	1	0.033591	1	1	0			8270-SIM		
176984-032		Ninyo & Moore	Soil	29.95 g	1	0.033389	1	1	0			8270-SIM		
176984-033		Ninyo & Moore	Soil	29.94 g	1	0.033400	1	1	0			8270-SIM		mss
176984-034		Ninyo & Moore	Soil	29.84 g	1	0.033512	1	1	0			8270-SIM		
176984-001		Montezuma Wetlands LLC	Soil	30.01 g	1	0.033322	1	1	0			8270-SIM		
QC278889	MB		Soil	29.91 g	1	0.033434	1	1	0			8270-SIM		
QC278890	LCS		Soil	30.08 g	1	0.033245	1	1	1			8270-SIM		
QC278891	MS	of 176984-033	Soil	30.33 g	1	0.032971	1	1	1			8270-SIM		
QC278892	MSD	of 176984-033	Soil	29.79 g	1	0.033568	1	1	1			8270-SIM		

Prep Chemist:

SFK FOR BB

Reviewed By:

SFK FOR AMS

Date:

01/10/05

Relinquished By:

SFK FOR BB

Received By:

JLT

Date:

1/18/05

LIMS Batch No:

98164

Extraction Method:

Cleanup Method (if necessary):

LIMS Analysis

92785m

☒ EPA 3550b Sonication☐ EPA 3640a GPC

Extracted by:

CB

☐ EPA 3540c Soxhlet☐ EPA 3630c Silica Gel

Date Extracted:

11/10/05

☐ Other☐ Other

Sample ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
MB 2274990	29.94	1.0		
LCS	30.08			
MS	30.33			
MSD	29.79			
176956-001	30.07			
176961-001	30.42			
-002	30.13			
-14	29.77			
-6	29.73			
-7	29.75			
-9	29.86			
-010	30.39			
-012	29.86			
-13	30.44			
-14	30.24			
-16	30.29			
176984-024	29.86			
-026	30.02			
-27	29.86			
-29	29.84			
-31	29.77			
-32	29.95			
-33	29.94			
-34	29.84			
176986-001	30.01			

w/LE
MOVED
3/1/06Sample
removed
JRB 11/10/05

Mfg & Lot # / LIMS # / Time Date/Initials

Sand weighed out for QC samples

Samples were dried with baked, CH_2Cl_2 -rinsed granular Na_2SO_4

1.0 mL of surrogate solution was added to all samples

1.0 mL of matrix spiking solution was added to all spikes

 $\geq 100\text{mL}$ 1:1 CH_2Cl_2 :Acetone was added to all: CH_2Cl_2

Acetone

Samples were:

☒ sonicated 3 times☐ soxhlet extractors on at:

soxhlets off at:

Extracts filtered through baked, CH_2Cl_2 -rinsed powdered Na_2SO_4 Concentrated: ☒ to volumes as noted above☐ to clean-up volumeClean-up (if necessary): ☐ GPC (see GPC run log)☐ Silica Gel

Concentrated to final volumes as noted above

EM 44258	98164
EM 44135439	
44135439 E	
44135439 G	
EM 44302	
EM 44251	
EM 44135437	
NA	
NA	

Curtis & Tompkins Laboratories Sample Preparation Summary

11 JAN 2005 14:47

Batch Number 98199
 Date Extracted 11 JAN 2005
 Extracted by Samuel L. Karagoulas
 Prep Method 8270

Analyte 8270-SIM
 Sample N/A
 Unit g

04WS2329B
 05WS0018B
 8270-SIM-150

Sample	Type	Method	Unit	Prep	Comments
176984-001	SP	8270	g	0.03342	
176984-002	SP	8270	g	0.03378	
176984-004	SP	8270	g	0.03341	
176984-005	SP	8270	g	0.03310	
176984-007	SP	8270	g	0.03378	
176984-008	SP	8270	g	0.03360	
176984-009	SP	8270	g	0.03323	
176984-011	SP	8270	g	0.03369	
176984-012	SP	8270	g	0.03358	
176984-014	SP	8270	g	0.03367	
176984-015	SP	8270	g	0.03359	
176984-017	SP	8270	g	0.03360	
176984-018	SP	8270	g	0.03361	
176984-020	SP	8270	g	0.03352	
176984-021	SP	8270	g	0.03367	
176984-023	SP	8270	g	0.03340	
0529009	MS	8270	g	0.03350	
0529010	MS	8270	g	0.03350	
0529011	MS	8270	g	0.03362	
0529012	MS	8270	g	0.03367	

Prep Chemist:

Reviewed By:

Date:

12 JAN 05

Relinquished By:

Received By:

Date:

11/1/05

- ☐ EPA 8260a GPC
- ☐ EPA 8630c Silica Gel
- ☐ OGC

☐ ELA 3640C Software
☐ Other _____

0111/05

[illegible]

Time	Date/Initials
10:00	10/2/05
10:15	
10:30	
10:45	
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23:45	
24:00	

Continued from p. 10
Construction of

145

Continued on Page

Index

Sample ID	Weight (g)	Analysis	Comments
176956-001	30.07	8270 SIM	
176961-001	30.42 ✓		
-002	30.13 ✓		
-004	29.77 ✓		
-006	29.73 ✓		
-007	29.75 ✓		
-009	29.86 ✓		
-010	30.39 ✓		
-012	29.86 ✓		
-013	30.44 ✓		
-014	30.24 ✓		
-016	30.29 ✓		
MBS LLS	29.91 ✓	8270 SIM	
	30.08 ✓		

MBS 1/5/05
Continued on Page

K. K. K. K. K.
Signed

1/5/05
Date

299

Read and Understood By

Signed

Date

Curtis & Tompkins Laboratories Sample Preparation Summary

12-JAN-2005 09:04

Batch Number : 98213
Date Extracted: 12-JAN-2005
Extracted by : Kevin Riley
Prep Method : 3550

Analysis : 8270-SIM
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 05WS0017B
Spike #2 ID : 05WS0018C
Spike #3 ID :
SOP Version : 8270_SIM_rv0

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176961-003		Ninyo & Moore	Soil	~30.02 g	✓	1	0.033311	1	1	0		8270-SIM		
176961-005		Ninyo & Moore	Soil	~29.86 g	✓	1	0.033490	1	1	0		8270-SIM		
176961-008		Ninyo & Moore	Soil	~29.76 g	✓	1	0.033602	1	1	0		8270-SIM		
176961-011		Ninyo & Moore	Soil	~30.17 g	✓	1	0.033146	1	1	0		8270-SIM		
176961-015		Ninyo & Moore	Soil	~30.22 g	✓	1	0.033091	1	1	0		8270-SIM		
176983-001		Ninyo & Moore	Soil	~30.19 g	✓	1	0.033124	1	1	0		8270-SIM		mss
176983-002		Ninyo & Moore	Soil	~29.91 g	✓	1	0.033434	1	1	0		8270-SIM		
176984-003		Ninyo & Moore	Soil	~29.73 g	✓	1	0.033636	1	1	0		8270-SIM		
176984-006		Ninyo & Moore	Soil	~29.9 g	✓	1	0.033445	1	1	0		8270-SIM		
176984-010		Ninyo & Moore	Soil	~30.1 g	✓	1	0.033223	1	1	0		8270-SIM		
176984-013		Ninyo & Moore	Soil	~29.99 g	✓	1	0.033344	1	1	0		8270-SIM		
176984-016		Ninyo & Moore	Soil	~30.03 g	✓	1	0.033300	1	1	0		8270-SIM		
176984-019		Ninyo & Moore	Soil	~29.83 g	✓	1	0.033523	1	1	0		8270-SIM		
176984-022		Ninyo & Moore	Soil	~29.99 g	✓	1	0.033344	1	1	0		8270-SIM		
176984-025		Ninyo & Moore	Soil	~29.86 g	✓	1	0.033490	1	1	0		8270-SIM		
176984-028		Ninyo & Moore	Soil	~29.92 g	✓	1	0.033422	1	1	0		8270-SIM		
176984-030		Ninyo & Moore	Soil	~29.94 g	✓	1	0.033400	1	1	0		8270-SIM		
176984-035		Ninyo & Moore	Soil	~29.93 g	✓	1	0.033411	1	1	0		8270-SIM		
176984-040		Ninyo & Moore	Soil	~29.98 g	✓	1	0.033356	1	1	0		8270-SIM		
QC279057	MB		Soil	~30.36 g	✓	1	0.032938	1	1	0		8270-SIM		
QC279058	LCS		Soil	29.93 g	✓	1	0.033411	1	1	1		8270-SIM		
QC279059	MS	of 176983-001	Soil	~29.89 g	✓	1	0.033456	1	1	1		8270-SIM		
QC279060	MSD	of 176983-001	Soil	~30.08 g	✓	1	0.033245	1	1	1		8270-SIM		

Extract and hold

Prep Chemist: K. RyReviewed By: Spencer L. HallDate: 1/12/04Relinquished By: K. RyReceived By: K. RyDate: 1/14/05

LIMS Batch No: 97273

Extraction Method:

Cleanup Method (if necessary):

LIMS Analysis: 8710 SIM

☒ EPA 3550b Sonication☐ EPA 3640a GPC

Extracted by: KR

☐ EPA 3540c Soxhlet☐ EPA 3630c Silica Gel

Date Extracted: 12 JAN 05

☐ Other _____☐ Other _____

Sample ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
MB QC279057	30.36	1.0		no remainder wgt in soil cleanup log
LCS 1 SR	29.93			
MS 1 SR	29.89			
MSD 1 SR	30.08			
176961-003 A	30.02			
5 5	29.86			
8	29.76			
11	30.17			
15 15	30.22			
10 176983-001 A	30.19			MSS; leaky microstrips
2	29.91			
176984-003 A	29.73			
6	29.90			
10	30.10			
15 13	29.99			
16	30.03			
19	29.83			
22	29.99			
25	29.86			
20 28	29.92			
30	29.94			
35	29.93			
40	29.98			

Mfg & Lot # / LIMS # / Time Date/Initials

Sand weighed out for QC samples

Samples were dried with baked, CH₂Cl₂-rinsed granular Na₂SO₄

1.0 mL of surrogate solution was added to all samples

1.0 mL of matrix spiking solution was added to all spikes

≥100mL 1:1 CH₂Cl₂:Acetone was added to all:CH₂Cl₂

Acetone

Samples were: ☒ sonicated 3 times ☐ soxhlet extractors on at:

soxhlets off at:

Extracts filtered through baked, CH₂Cl₂-rinsed powdered Na₂SO₄Concentrated: ☒ to volumes as noted above ☐ to clean-up volumeClean-up (if necessary): ☐ GPC (see GPC run log) ☐ Silica Gel

Concentrated to final volumes as noted above

FM44258	12 JAN 05 KR
EM44135433	
OSWS0017 B	
OSWS0018 C	
EM441302	
EM44219	
NA	
EM44135433	
NA	
NA	

KR
12 JAN 05
Extraction Chemist / Date

Continued from page 301
Continued on page 301

Jennifer Doe 1/12/05
Reviewed by / Date

Sample ID	Weight (g)	Analysis	Comments
176986-001	14.80	8081	MSS, Comp A-D
MS	14.83		
LCS	14.85 15.09		
MS	14.85 14.85		176986-001 comp
MSD	14.94		
176961-003 A	30.02	8270 SIM	
-005	29.86		
-008	29.76		
-011	30.17		
-015	30.22		
176984-003 A	29.73		
-006	29.90		
-010	30.10		
-013	29.99		
-016	30.03		
-019	29.83		
-022	29.99		
-025	29.86		
-028	29.92		
-030	29.94		
-035	29.93		
-040	29.98		
176986-001	30.01		Comp A-D
176961-009 A	14.95	14.75 ETH PCB	
-010	15.19		
-011	14.80		
-013	14.83		
-014	14.99		
-015	15.07		
176983-002 A	14.82		MSS

AMS 1/7/05
Continued on Page

Adrian Berg
Signed

1/7/05
Date 302

Read and Understood By

Signed

Date

Curtis & Tompkins Laboratories Sample Preparation Summary

14-JAN-2005 12:36

Batch Number : 98305
Date Extracted: 14-JAN-2005
Extracted by : Jessie O'Brien Mee
Prep Method : 3550

Analysis : 8270-SIM
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 05WS0017F
Spike #2 ID : 04WS2139D
Spike #3 ID :
SOP Version : 8270 SIM rv0

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176956-001		Ninyo & Moore	Soil	29.99 g	✓	1	0.033344	1		1	0		8270-SIM		
176961-010		Ninyo & Moore	Soil	29.95 g	✓	1	0.033389	1		1	0		8270-SIM		MSS
176984-038		Ninyo & Moore	Soil	29.98 g	✓	1	0.033356	1		1	0		8270-SIM		
176984-039		Ninyo & Moore	Soil	29.74 g	✓	1	0.033625	1		1	0		8270-SIM		
177048-001		Montezuma Wetlands LLC	Soil	29.98 g	✓	1	0.033356	1		1	0		8270-SIM		
177121-001		Montezuma Wetlands LLC	Soil	29.99 g	✓	1	0.033344	1		1	0		8270-SIM		
QC279426	MB		Soil	30.27 g	✓	1	0.033036	1		1	0		8270-SIM		
QC279427	LCS		Soil	29.85 g	✓	1	0.033501	1		1	1		8270-SIM		
QC279428	MS	of 176961-010	Soil	29.97 g	✓	1	0.033367	1		1	1		8270-SIM		
QC279429	MSD	of 176961-010	Soil	29.97 g	✓	1	0.033367	1		1	1		8270-SIM		

Prep Chemist:

Jessie Mee

Reviewed By:

Jennifer Dall

Date:

1/14/05

Relinquished By:

Jessie Mee

Received By:

Date:

1/14/05

LIMS Batch No: 98305
 LIMS Analysis: 8270-SIM
 Extracted by: JDM
 Date Extracted: 14 Jan 05

Extraction Method:

☒ EPA 3550b Sonication
☐ EPA 3540c Soxhlet
☐ Other _____

Cleanup Method (if necessary):

☐ EPA 3640a GPC
☐ EPA 3630c Silica Gel
☐ Other _____

Sample ID	Weight of Sample (g)	Final Volume (mL)	Cleanup (x if needed)	Comments
176956-001A	29.99 ✓	1.0		MS <u>MS</u> <u>1/14/05</u>
176961-010	29.95 ✓			
176984-039	29.98 ✓			
↓ -039 ↓	29.74 ✓			
5 177048-001	29.98 ✓			
177121-001	29.99 ✓			
MBGX 279426	30.27 ✓			
LCS	29.85 ✓			
MS	29.97 ✓			
10 MSD	29.97 ✓			
JDM 14 Jan 05				

Mfg & Lot # / LIMS # / Time Date/Initials

Sand weighed out for QC samples EM 44258 JDM 14 Jan 05

Samples were dried with baked, CH₂Cl₂-rinsed granular Na₂SO₄ EM 44935433

1.0 mL of surrogate solution was added to all samples 05WS0017F

1.0 mL of matrix spiking solution was added to all spikes 04WS2139D

≥100mL 1:1 CH₂Cl₂:Acetone was added to all: CH₂Cl₂ EM 44244

acetone EM 44281

Samples were: ☒ sonicated 3 times ☐ soxhlet extractors on at: ✓

soxhlets off at: N/A

Extracts filtered through baked, CH₂Cl₂-rinsed powdered Na₂SO₄ EM 44135433

Concentrated: ☒ to volumes as noted above ☐ to clean-up volume ✓

Clean-up (if necessary): ☐ GPC (see GPC run log) ☐ Silica Gel N/A

Concentrated to final volumes as noted above ✓

Jessie Mae 14 Jan 05
 Extraction Chemist / Date

Continued from page 304
 Continued 304 page

Jennifer Dell 1/14/05
 Reviewed by / Date

Sample ID	Weight (g)	Analysis	Comments
176984-138A	29.98 ✓	8270-SIM	
↓ -089J	29.74 ✓	↓	
MB	30.27 ✓		EM44258
LCS	29.85 ✓	↓	↓

[Signature]
Signed

14 Jan 05 305
Date

Read and Understood By
[Signature]
Signed

Continued on Page

Date _____

Polychlorinated Biphenyls

Polychlorinated Biphenyls (PCBs)			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3520C
Project#:	400582002	Analysis:	EPA 8082
Field ID:	B50-GW-1	Batch#:	98074
Matrix:	Water	Sampled:	01/05/05
Units:	ug/L	Received:	01/05/05
Diln Fac:	1.000	Prepared:	01/06/05

Type: SAMPLE Analyzed: 01/08/05
 Lab ID: 176984-037 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.48
Aroclor-1221	ND	0.95
Aroclor-1232	ND	0.48
Aroclor-1242	ND	0.48
Aroclor-1248	ND	0.48
Aroclor-1254	ND	0.48
Aroclor-1260	ND	0.48

Surrogate	%REC	Limits
TCMX	83	49-124
Decachlorobiphenyl	36	20-120

Type: BLANK Analyzed: 01/07/05
 Lab ID: QC278580 Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.50
Aroclor-1221	ND	1.0
Aroclor-1232	ND	0.50
Aroclor-1242	ND	0.50
Aroclor-1248	ND	0.50
Aroclor-1254	ND	0.50
Aroclor-1260	ND	0.50

Surrogate	%REC	Limits
TCMX	72	49-124
Decachlorobiphenyl	76	20-120

Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3520C
Project#:	400582002	Analysis:	EPA 8082
Matrix:	Water	Batch#:	98074
Units:	ug/L	Prepared:	01/06/05
Diln Fac:	1.000	Analyzed:	01/07/05

Type: BS Cleanup Method: EPA 3665A
 Lab ID: QC278581

Analyte	Spiked	Result	%REC	Limits
Aroclor-1254	5.000	5.472	109	69-148

Surrogate	%REC	Limits
TCMX	71	49-124
Decachlorobiphenyl	51	20-120

Type: BSD Cleanup Method: EPA 3665A
 Lab ID: QC278582

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1254	5.000	5.894	118	69-148	7	32

Surrogate	%REC	Limits
TCMX	75	49-124
Decachlorobiphenyl	48	20-120

Reporting Summary for 176984 PCB Water

Sample ID	Analyte	Inst ID	Ch	Date & Time
176984-037	Aroclor-1016	GC25	A	01/08/05 01:01
176984-037	Aroclor-1221	GC25	A	01/08/05 01:01
176984-037	Aroclor-1232	GC25	A	01/08/05 01:01
176984-037	Aroclor-1242	GC25	A	01/08/05 01:01
176984-037	Aroclor-1248	GC25	A	01/08/05 01:01
176984-037	Aroclor-1254	GC25	A	01/08/05 01:01
176984-037	Aroclor-1260	GC25	A	01/08/05 01:01
176984-037	TCMX	GC25	B	01/08/05 01:01
176984-037	Decachlorobiphenyl	GC25	B	01/08/05 01:01
QC278580	Aroclor-1016	GC25	A	01/07/05 22:10
QC278580	Aroclor-1221	GC25	A	01/07/05 22:10
QC278580	Aroclor-1232	GC25	A	01/07/05 22:10
QC278580	Aroclor-1242	GC25	A	01/07/05 22:10
QC278580	Aroclor-1248	GC25	A	01/07/05 22:10
QC278580	Aroclor-1254	GC25	A	01/07/05 22:10
QC278580	Aroclor-1260	GC25	A	01/07/05 22:10
QC278580	TCMX	GC25	B	01/07/05 22:10
QC278580	Decachlorobiphenyl	GC25	B	01/07/05 22:10
QC278581	Aroclor-1254	GC25	B	01/07/05 23:07
QC278581	TCMX	GC25	B	01/07/05 23:07
QC278581	Decachlorobiphenyl	GC25	B	01/07/05 23:07
QC278582	Aroclor-1254	GC25	B	01/07/05 23:36
QC278582	TCMX	GC25	B	01/07/05 23:36
QC278582	Decachlorobiphenyl	GC25	B	01/07/05 23:36

INITIAL CALIBRATION REPORT FOR 176984 PCB Water
Curtis & Tompkins Laboratories

Instrument: GC25 Gas Chromatograph #25 ECD Reviewed By: RH
Calnum: 825006955001 Name: Type: (normal) Date: 04-JAN-2005 19:55 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	004_013	825006955013	pcb10_2	04-JAN-2005 19:55	04WS2273
2	004_014	825006955014	pcb25_5	04-JAN-2005 20:24	04WS2274
3	004_015	825006955015	pcb100_20	04-JAN-2005 20:52	04WS2275
4	004_016	825006955016	pcb250_50	04-JAN-2005 21:21	04WS2130
5	004_017	825006955017	pcb500_100	04-JAN-2005 21:49	04WS1790
6	004_018	825006955018	pcb750_150	04-JAN-2005 22:18	04WS2276
7	004_019	825006955019	pcb1K_200	04-JAN-2005 22:46	04WS2277

Analyte	Ch	r ²							Type	X	a0	a1	a2	units	avg	%RSD	MnR ²	MxRSD	Flags
		L1	L2	L3	L4	L5	L6	L7											
Aroclor-1016 Peak # 1	A	246.51	224.09	189.32	206.29	200.69	185.40	176.52	AVRG	R		0.004899		pg	204.12	12	.99	20	
Aroclor-1016 Peak # 2	A	494.45	399.08	340.96	367.64	354.63	329.51	312.60	AVRG	R		0.002693		pg	371.27	16	.99	20	
Aroclor-1016 Peak # 3	A	629.57	532.33	505.90	488.06	489.37	435.43	439.22	AVRG	R		0.001989		pg	502.84	13	.99	20	
Aroclor-1016 Peak # 4	A	362.39	436.25	340.48	336.01	318.12	297.59	281.28	AVRG	R		0.002951		pg	338.88	15	.99	20	
Aroclor-1016 Peak # 5	A	279.24	254.05	233.13	235.07	230.11	214.09	200.29	AVRG	R		0.004253		pg	235.14	11	.99	20	
Aroclor-1260 Peak # 1	A	628.11	509.05	443.96	419.96	409.74	381.13	358.19	AVRG	R		0.002222		pg	450.02	20	.99	20	
Aroclor-1260 Peak # 2	A	857.58	775.41	696.95	660.83	667.46	628.80	596.98	AVRG	R		0.001433		pg	697.72	13	.99	20	
Aroclor-1260 Peak # 3	A	390.69	393.87	368.43	340.92	336.89	311.21	289.77	AVRG	R		0.002879		pg	347.40	11	.99	20	
Aroclor-1260 Peak # 4	A	344.49	375.30	364.54	368.54	357.42	325.55	308.47	AVRG	R		0.002864		pg	349.19	7	.99	20	
Aroclor-1260 Peak # 5	A	1017.6	929.17	859.35	823.49	854.28	804.50	779.15	AVRG	R		0.001154		pg	866.80	9	.99	20	
TCMX	A	11693	10549	9052.5	10025	10524	10495	10303	AVRG	R		9.636E-5		pg	10377	8	.99	20	
Decachlorobiphenyl	A	8917.8	8245.0	6759.1	6650.4	7107.0	6859.1	7118.7	AVRG	R		1.355E-4		pg	7379.6	12	.99	20	
Aroclor-1016 Peak # 1	B	304.88	263.80	240.43	221.86	209.95	193.72	189.80	AVRG	R		0.004309		pg	232.06	18	.99	20	
Aroclor-1016 Peak # 2	B	358.66	330.23	324.74	294.31	282.74	258.34	254.14	AVRG	R		0.003328		pg	300.45	13	.99	20	
Aroclor-1016 Peak # 3	B	1190.2	1077.7	1051.6	937.73	915.65	843.82	843.22	AVRG	R		0.001020		pg	979.99	13	.99	20	
Aroclor-1016 Peak # 4	B	451.67	444.39	436.81	376.79	357.71	327.30	325.16	AVRG	R		0.002574		pg	388.55	14	.99	20	
Aroclor-1016 Peak # 5	B	321.84	292.02	296.94	260.08	251.70	230.17	228.47	AVRG	R		0.003721		pg	268.75	13	.99	20	
Aroclor-1260 Peak # 1	B	735.01	621.53	616.18	530.01	522.37	477.99	487.43	AVRG	R		0.001754		pg	570.07	16	.99	20	
Aroclor-1260 Peak # 2	B	813.14	703.54	682.48	593.58	585.41	532.89	546.87	AVRG	R		0.001570		pg	636.85	16	.99	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response² * a2

INITIAL CALIBRATION REPORT FOR 176984 PCB Water
Curtis & Tompkins Laboratories

Instrument: GC25 Gas Chromatograph #25 ECD Reviewed By: RH
Calnum: 825006955001 Name: Type: (normal) Date: 04-JAN-2005 19:55 Inj Vol (uL): 1

Analyte	Ch	L1	L2	L3	L4	L5	L6	L7	Type X	a0	a1	a2	units	avg	r^2			Flags
															%RSD	MnR^2	MxRSD	
Aroclor-1260 Peak # 3	B	570.76	494.85	477.31	416.41	399.54	362.88	370.79	AVRG R	0.002264			pg	441.79	17	.99	20	
Aroclor-1260 Peak # 4	B	1250.1	1085.7	1062.6	957.02	934.10	860.02	894.24	AVRG R	9.938E-4			pg	1006.2	13	.99	20	
Aroclor-1260 Peak # 5	B	695.51	627.86	616.89	551.95	529.96	483.47	499.08	AVRG R	0.001748			pg	572.10	13	.99	20	
TCMX	B	14438	13027	12517	11650	11558	10887	11076	AVRG R	8.221E-5			pg	12165	10	.99	20	
Decachlorobiphenyl	B	10184	8865.3	8174.7	7594.7	7437.5	7109.5	7732.8	AVRG R	1.226E-4			pg	8156.9	13	.99	20	

312

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176984 PCB Water
Curtis & Tompkins Laboratories

Instid : GC25 Calname :
Calnum : 825006955001 Caldate : 04-JAN-2005 Caltype :

ICV 825006955022 (004_022) standards: 04WS2171

Analyte	Ch	ICV	Segnum	Date	Spiked	Quant	Units	%D	Max
Aroclor-1016	A	825006955022		05-JAN-2005	250.00	256.76	pg	3	15
Aroclor-1260	A	825006955022		05-JAN-2005	250.00	272.49	pg	9	15
Aroclor-1016	B	825006955022		05-JAN-2005	250.00	266.73	pg	7	15
Aroclor-1260	B	825006955022		05-JAN-2005	250.00	266.95	pg	7	15

INITIAL CALIBRATION REPORT FOR 176984 PCB Water
Curtis & Tompkins Laboratories

Instrument: GC25 Gas Chromatograph #25 ECD Reviewed By: MCH
Calnum: 825010973002 Name: Type: (normal) Date: 07-JAN-2005 20:16 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	007_007	825010973007	ccv	07-JAN-2005 20:16	04WS2370

Analyte										r^2			Flags
	Ch	L1	Type	X	a0	a1	a2	units	avg	%RSD	MnR^2	MxRSD	
Aroclor-1254 Peak # 1	A	251.66	AVRG	R		0.003974		pg	251.66	0	.99	20	
Aroclor-1254 Peak # 2	A	342.64	AVRG	R		0.002919		pg	342.64	0	.99	20	
Aroclor-1254 Peak # 3	A	270.43	AVRG	R		0.003698		pg	270.43	0	.99	20	
Aroclor-1254 Peak # 4	A	461.89	AVRG	R		0.002165		pg	461.89	0	.99	20	
Aroclor-1254 Peak # 5	A	362.37	AVRG	R		0.002760		pg	362.37	0	.99	20	
Aroclor-1254 Peak # 1	B	325.37	AVRG	R		0.003073		pg	325.37	0	.99	20	
Aroclor-1254 Peak # 2	B	460.46	AVRG	R		0.002172		pg	460.46	0	.99	20	
Aroclor-1254 Peak # 3	B	310.09	AVRG	R		0.003225		pg	310.09	0	.99	20	
Aroclor-1254 Peak # 4	B	529.42	AVRG	R		0.001889		pg	529.42	0	.99	20	
Aroclor-1254 Peak # 5	B	486.18	AVRG	R		0.002057		pg	486.18	0	.99	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION SUMMARY FOR 176984 PCB Water
Curtis & Tompkins Laboratories

Analyte: Aroclor-1016

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg		SpkAmt	QntAmt	Units	%D	Max	%D	Flags
						RF/CF	RF/CF							
GC25	A	825010973005	07-JAN-2005 17:08	825006955001	04-JAN-2005			250.00	227.88	pg	-9	15		
GC25	B	825010973005	07-JAN-2005 17:08	825006955001	04-JAN-2005			250.00	219.47	pg	-12	15		
GC25	A	825010973023	08-JAN-2005 03:52	825006955001	04-JAN-2005			100.00	101.68	pg	2	15		
GC25	B	825010973023	08-JAN-2005 03:52	825006955001	04-JAN-2005			100.00	98.338	pg	-2	15		

CONTINUING CALIBRATION SUMMARY FOR 176984 PCB Water
Curtis & Tompkins Laboratories

Analyte: Aroclor-1254

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg		SpkAmt	QntAmt	Units	%D Max	%D	Flags
						RF/CF	RF/CF						
GC25	A	825010973007	07-JAN-2005 20:16	825010973002	07-JAN-2005			250.00	250.00	pg	0	15	
GC25	B	825010973007	07-JAN-2005 20:16	825010973002	07-JAN-2005			250.00	250.00	pg	0	15	
GC25	A	825010973024	08-JAN-2005 04:21	825010973002	07-JAN-2005			250.00	263.41	pg	5	15	
GC25	B	825010973024	08-JAN-2005 04:21	825010973002	07-JAN-2005			250.00	282.43	pg	13	15	

CONTINUING CALIBRATION SUMMARY FOR 176984 PCB Water
Curtis & Tompkins Laboratories

Analyte: Aroclor-1260

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg		SpkAmt	QntAmt	Units	%D Max	%D	Flags
						RF/CF	RF/CF						
GC25	A	825010973005	07-JAN-2005 17:08	825006955001	04-JAN-2005			250.00	231.86	pg	-7	15	
GC25	B	825010973005	07-JAN-2005 17:08	825006955001	04-JAN-2005			250.00	233.27	pg	-7	15	
GC25	A	825010973023	08-JAN-2005 03:52	825006955001	04-JAN-2005			100.00	108.25	pg	8	15	
GC25	B	825010973023	08-JAN-2005 03:52	825006955001	04-JAN-2005			100.00	106.27	pg	6	15	

CONTINUING CALIBRATION SUMMARY FOR 176984 PCB Water
Curtis & Tompkins Laboratories

Analyte: TCMX

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg		SpkAmt	QntAmt	Units	%D Max	%D Flags
						RF/CF	RF/CF					
GC25	A	825010973005	07-JAN-2005 17:08	825006955001	04-JAN-2005	10377	9104.3	50.000	43.867	pg	-12	15
GC25	B	825010973005	07-JAN-2005 17:08	825006955001	04-JAN-2005	12165	10481	50.000	43.080	pg	-14	15
GC25	A	825010973023	08-JAN-2005 03:52	825006955001	04-JAN-2005	10377	9979.6	20.000	19.234	pg	-4	15
GC25	B	825010973023	08-JAN-2005 03:52	825006955001	04-JAN-2005	12165	11970	20.000	19.681	pg	-2	15

CONTINUING CALIBRATION SUMMARY FOR 176984 PCB Water
Curtis & Tompkins Laboratories

Analyte: Decachlorobiphenyl

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg		SpkAmt	QntAmt	Units	%D	Max	%D	Flags
						RF/CF	RF/CF							
GC25	A	825010973005	07-JAN-2005 17:08	825006955001	04-JAN-2005	7379.6	6164.4	50.000	41.766	pg	-16	15		c-
GC25	B	825010973005	07-JAN-2005 17:08	825006955001	04-JAN-2005	8156.9	7705.9	50.000	47.236	pg	-6	15		
GC25	A	825010973023	08-JAN-2005 03:52	825006955001	04-JAN-2005	7379.6	7151.9	20.000	19.383	pg	-3	15		
GC25	B	825010973023	08-JAN-2005 03:52	825006955001	04-JAN-2005	8156.9	8770.4	20.000	21.504	pg	8	15		

SEQUENCE SUMMARY FOR 176984 PCB Water
Curtis & Tompkins Laboratories

Sequence: 825006955 Instrument: GC25
Analytical Method: EPA 8082

Gas Chromatograph #25 ECD
SOP Version: PCB_rv3

Begun: 04-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	IQC	SPK	uL	VL	pH	Stds	Used	>LR
012	004_012	X	hex			04-JAN-2005 19:27	1.0								
013	004_013	ICAL	pcb10_2			04-JAN-2005 19:55	1.0						1		
014	004_014	ICAL	pcb25_5			04-JAN-2005 20:24	1.0						2		
015	004_015	ICAL	pcb100_20			04-JAN-2005 20:52	1.0						3		
016	004_016	ICAL	pcb250_50			04-JAN-2005 21:21	1.0						4		
017	004_017	ICAL	pcb500_100			04-JAN-2005 21:49	1.0						5		
018	004_018	ICAL	pcb750_150			04-JAN-2005 22:18	1.0						6		
019	004_019	ICAL	pcb1K_200			04-JAN-2005 22:46	1.0						7		
021	004_021	X	accu_1660			04-JAN-2005 23:43	1.0						8		
022	004_022	ICV	icv			05-JAN-2005 00:12	1.0			1			8		
023	004_023	X	ar1254			05-JAN-2005 00:40	1.0						9		
024	004_024	ICAL	ccv			05-JAN-2005 01:09	1.0						9		

320

Stds used: 1=04WS2273 2=04WS2274 3=04WS2275 4=04WS2130 5=04WS1790 6=04WS2276 7=04WS2277 8=04WS2171 9=04WS2370

SEQUENCE SUMMARY FOR 176984 PCB Water
Curtis & Tompkins Laboratories

Sequence: 825010973 Instrument: GC25
Analytical Method: EPA 8082

Gas Chromatograph #25 ECD
SOP Version: PCB_rv3

Begun: 07-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
001	007_001	ICAL	ar 1242			07-JAN-2005 14:53	1.0	1.0			1	1	
002	007_002	SAMPLE	176923-006	97973	Soil	07-JAN-2005 15:22	1.0	0.6592	8	2	1		
003	007_003	CCV	ar 1242			07-JAN-2005 15:50	1.0	1.0			1	1	
004	007_004	X	pcb250_50			07-JAN-2005 16:40	1.0					2	
005	007_005	CCV	ccv			07-JAN-2005 17:08	1.0	1.0			1	2	
006	007_006	X	ar1254			07-JAN-2005 19:48	1.0					3	
007	007_007	CCV	ccv			07-JAN-2005 20:16	1.0	1.0			1	3	
008	007_008	ICAL	ar1248			07-JAN-2005 20:45	1.0	1.0				4	
009	007_009	X	ccv			07-JAN-2005 21:13	1.0					4	
011	007_011	BLANK	QC278580	98074	Water	07-JAN-2005 22:10	1.0	0.025			1		
012	007_012	BLANK	QC278773	98128	Soil	07-JAN-2005 22:39	1.0	0.8437			1		
013	007_013	BS	QC278581	98074	Water	07-JAN-2005 23:07	1.0	0.025			1		
014	007_014	BSD	QC278582	98074	Water	07-JAN-2005 23:36	1.0	0.025			1		
015	007_015	LCS	QC278774	98128	Soil	08-JAN-2005 00:04	1.0	0.8466			1		
016	007_016	SAMPLE	176967-001	98074	Water	08-JAN-2005 00:33	1.0	0.02475			1		
017	007_017	SAMPLE	176984-037	98074	Water	08-JAN-2005 01:01	1.0	0.02381			1		
018	007_018	MSS	176772-017	98128	Soil	08-JAN-2005 01:30	1.0	0.8286	18		1	sh	
019	007_019	MS	QC278775	98128	Soil	08-JAN-2005 01:58	1.0	0.8322			1	3:PCB101=39443.1	
020	007_020	MSD	QC278776	98128	Soil	08-JAN-2005 02:27	1.0	0.8406			1	3:PCB101=38084.8	
022	007_022	X	pcb100_20			08-JAN-2005 03:24	1.0					5	
023	007_023	CCV	ccv			08-JAN-2005 03:52	1.0	1.0			1	5	
024	007_024	CCV	ar1254			08-JAN-2005 04:21	1.0	1.0			1	3	
025	007_025	X	ccv			08-JAN-2005 04:49	1.0					3	
026	007_026	CCV	ar1248			08-JAN-2005 05:18	1.0	1.0			1	4	
027	007_027	X	ccv			08-JAN-2005 05:46	1.0					4	
028	007_028	CCV	ar 1242			08-JAN-2005 06:15	1.0	1.0			1	1	
029	007_029	X	ccv			08-JAN-2005 06:43	1.0					1	
031	007_031	SAMPLE	176772-001	97901	Soil	08-JAN-2005 07:40	1.0	0.6596	3	1	1		
032	007_032	SAMPLE	176772-004	97901	Soil	08-JAN-2005 08:09	1.0	0.6631	3	4	1		
033	007_033	SAMPLE	176772-005	97901	Soil	08-JAN-2005 08:37	10.0	0.6609	3		1		

Stds used: 1=04WS1612 2=04WS2130 3=04WS2370 4=04WS1542 5=04WS2275

Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 176984 PCB Water
Curtis & Tompkins Laboratories

Sequence: 825010973 Instrument: GC25
Analytical Method: EPA 8082

Gas Chromatograph #25 ECD
SOP Version: PCB_rv3

Begun: 07-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
034	007_034	SAMPLE	176772-006	97901	Soil	08-JAN-2005 09:06	1.0	0.6583	2	4	1		
035	007_035	SAMPLE	176772-007	97901	Soil	08-JAN-2005 09:34	1.0	0.6662	3	4	1		
036	007_036	SAMPLE	176772-008	97901	Soil	08-JAN-2005 10:03	1.0	0.6592	3	4	1		
037	007_037	SAMPLE	176772-009	97901	Soil	08-JAN-2005 10:31	2.0	0.6579	2	2	1		
038	007_038	SAMPLE	176772-010	97901	Soil	08-JAN-2005 11:00	1.0	0.6596	3	4	1		
039	007_039	SAMPLE	176772-012	97901	Soil	08-JAN-2005 11:28	1.0	0.6557	3	4	1		
040	007_040	SAMPLE	176772-014	97901	Soil	08-JAN-2005 11:57	20.0	0.664	2		1		
042	007_042	CCV	pcb250_50			08-JAN-2005 12:54	1.0	1.0			1	2	
043	007_043	X	ccv			08-JAN-2005 13:22	1.0					2	
044	007_044	X	ar1254			08-JAN-2005 13:51	1.0					3	
045	007_045	CCV	ccv			08-JAN-2005 14:19	1.0	1.0	1		1	3	
046	007_046	CCV	ar1248			08-JAN-2005 14:48	1.0	1.0	1		1	4	
047	007_047	X	ccv			08-JAN-2005 15:16	1.0					4	
048	007_048	CCV	ar 1242			08-JAN-2005 15:45	1.0	1.0	2		1	1	
049	007_049	X	ccv			08-JAN-2005 16:13	1.0					1	
053	007_053	MSS	176915-001	98006	Soil	08-JAN-2005 18:07	1.0						
054	007_054	SAMPLE	176915-002	98006	Soil	08-JAN-2005 18:36	1.0						
055	007_055	SAMPLE	176915-003	98006	Soil	08-JAN-2005 19:04	1.0						
056	007_056	SAMPLE	176915-004	98006	Soil	08-JAN-2005 19:33	1.0						
057	007_057	SAMPLE	176915-005	98006	Soil	08-JAN-2005 20:01	1.0						
058	007_058	SAMPLE	176915-006	98006	Soil	08-JAN-2005 20:30	1.0						
059	007_059	MS	QC278309	98006	Soil	08-JAN-2005 20:58	1.0						
060	007_060	MSD	QC278310	98006	Soil	08-JAN-2005 21:27	1.0						
062	007_062	X	pcb100_20			08-JAN-2005 22:24	1.0					5	
063	007_063	CCV	ccv			08-JAN-2005 22:52	1.0	1.0	4		1	5	
066	007_066	CCV	ar1248			09-JAN-2005 00:18	1.0					4	
071	007_071	SAMPLE	176915-007	98006	Soil	09-JAN-2005 02:40	1.0						
072	007_072	SAMPLE	176915-008	98006	Soil	09-JAN-2005 03:09	1.0						
073	007_073	SAMPLE	176915-009	98006	Soil	09-JAN-2005 03:37	1.0						
074	007_074	SAMPLE	176915-010	98006	Soil	09-JAN-2005 04:06	1.0						

Stds used: 1=04WS1612 2=04WS2130 3=04WS2370 4=04WS1542 5=04WS2275

Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 176984 PCB Water
Curtis & Tompkins Laboratories

Sequence: 825010973 Instrument: GC25
Analytical Method: EPA 8082

Gas Chromatograph #25 ECD
SOP Version: PCB_rv3

Begun: 07-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
075	007_075	SAMPLE	176915-011	98006	Soil	09-JAN-2005 04:34	1.0						
078	007_078	CCV	pcb250_50			09-JAN-2005 06:00	1.0					2	
079	007_079	X	ccv			09-JAN-2005 06:28	1.0					2	

323

Stds used: 1=04WS1612 2=04WS2130 3=04WS2370 4=04WS1542 5=04WS2275
Flags used: sh=out of sample hold

Curtis & Tompkins Laboratories

Sample Preparation Summary

07-JAN-2005 08:39

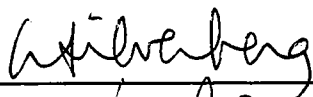
Batch Number : 98074
Date Extracted: 06-JAN-2005
Extracted by : Amy Silverberg
Prep Method : 3520C

Analysis : PCB
Bgroup : N/A
Units : ml
Clean-up :

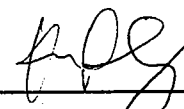
Spike #1 ID : 04WS2446C
Spike #2 ID : 04WS2341A
Spike #3 ID :
SOP Version : PCB_w_rv6

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176967-001		CH2M Hill Constructors Inc.	Water	1010	ml -	25	0.024752	1	7	.05	0		PCB	3665A	
176984-037		Ninyo & Moore	Water	1050	ml -	25	0.023810	1	6	.05	0		PCB	3665A	
QC278580	MB		Water	1000	ml	25	0.025000	1		.05	0		PCB	3665A	
QC278581	BS		Water	1000	ml	25	0.025000	1		.05	.05		PCB	3665A	
QC278582	BSD		Water	1000	ml	25	0.025000	1		.05	.05		PCB	3665A	

Prep Chemist:



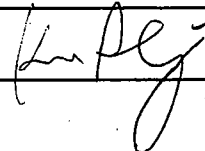
Reviewed By:



Date:

7 JAN 05

Relinquished By:



Received By:



Date:

1/10/05

Page 99

Cleanup Method:

~~☐~~ Sulfuric Acid EPA 3665a

☐ Other _____

100

[illegible]

0.05 mL of surrogate solution was added to all samples
 0.05 mL of spike solution was added to all spikes
☒ Samples were continuously extracted with about 450 mL CH_2Cl_2
 Extraction Start Time: _____
 Extraction End Time: _____
☒ Samples were extracted 3 times with 60 mL of CH_2Cl_2
 Extracts filtered through baked, CH_2Cl_2 -rinsed, granular Na_2SO_4
 Exchanged 2x with Hexane & Concentrated to volumes noted above
 Clean-up: 10mL H_2SO_4 added and vortexed
 Centrifuged for 1min, 10mL transferred to labelled vial

Mfg & Lot# / LIMS # / Time	Date/ Initials
04WS2446C	Aug 11/6/05
04WS2341A	
EM44244	
1300	
0700	17:05 KR
NA	
EM	
BSO CM623	
DTB A30036	

Silverberg 1/6/05
Extraction Chemist Date

Continued from Page 1
Continued on B25

Reviewed by Kelly Date 7 JAN 05

Polychlorinated Biphenyls (PCBs)			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3545
Project#:	400582002	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	01/05/05
Units:	ug/Kg	Received:	01/05/05
Diln Fac:	1.000	Prepared:	01/08/05
Batch#:	98140		

Field ID:	B8-S-2.0-1	Moisture:	11%
Type:	SAMPLE	Analyzed:	01/15/05
Lab ID:	176984-020	Cleanup Method:	EPA 3665
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	11
Aroclor-1221	ND	22
Aroclor-1232	ND	11
Aroclor-1242	ND	11
Aroclor-1248	ND	11
Aroclor-1254	ND	11
Aroclor-1260	ND	11

Surrogate	%REC	Limits
TCMX	95	62-140
Decachlorobiphenyl	155 *	48-149

Field ID:	B8-S-3.5-1	Moisture:	19%
Type:	SAMPLE	Analyzed:	01/15/05
Lab ID:	176984-021	Cleanup Method:	EPA 3665
Basis:	dry		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	72	62-140
Decachlorobiphenyl	79	48-149

*= Value outside of QC limits; see narrative
 NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
 Page 1 of 5

Polychlorinated Biphenyls (PCBs)			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3545
Project#:	400582002	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	01/05/05
Units:	ug/Kg	Received:	01/05/05
Diln Fac:	1.000	Prepared:	01/08/05
Batch#:	98140		

Field ID: B8-S-5.0-1 Basis: as received
 Type: SAMPLE Moisture: ** MISSING MOISTURE DATA **
 Lab ID: 176984-022

Analyte	Result
Aroclor-1016	NA
Aroclor-1221	NA
Aroclor-1232	NA
Aroclor-1242	NA
Aroclor-1248	NA
Aroclor-1254	NA
Aroclor-1260	NA

Surrogate	Result
TCMX	NA
Decachlorobiphenyl	NA

Field ID: B11-S-2.0-1 Moisture: 9%
 Type: SAMPLE Analyzed: 01/18/05
 Lab ID: 176984-026 Cleanup Method: EPA 3665
 Basis: dry

Analyte	Result	RL
Aroclor-1016	ND	11
Aroclor-1221	ND	21
Aroclor-1232	ND	11
Aroclor-1242	ND	11
Aroclor-1248	ND	11
Aroclor-1254	33	11
Aroclor-1260	40	11

Surrogate	%REC	Limits
TCMX	83	62-140
Decachlorobiphenyl	86	48-149

*= Value outside of QC limits; see narrative
 NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
 Page 2 of 5

Polychlorinated Biphenyls (PCBs)			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3545
Project#:	400582002	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	01/05/05
Units:	ug/Kg	Received:	01/05/05
Diln Fac:	1.000	Prepared:	01/08/05
Batch#:	98140		

Field ID: B11-S-3.5-1
 Type: SAMPLE
 Lab ID: 176984-027
 Basis: dry

Moisture: 11%
 Analyzed: 01/17/05
 Cleanup Method: EPA 3665

Analyte	Result	RL
Aroclor-1016	ND	11
Aroclor-1221	ND	22
Aroclor-1232	ND	11
Aroclor-1242	ND	11
Aroclor-1248	ND	11
Aroclor-1254	53	11
Aroclor-1260	29	11

Surrogate	%REC	Limits
TCMX	87	62-140
Decachlorobiphenyl	89	48-149

Field ID: B11-S-5.0-1
 Type: SAMPLE
 Lab ID: 176984-028

Basis: as received
 Moisture: ** MISSING MOISTURE DATA **

Analyte	Result
Aroclor-1016	NA
Aroclor-1221	NA
Aroclor-1232	NA
Aroclor-1242	NA
Aroclor-1248	NA
Aroclor-1254	NA
Aroclor-1260	NA

Surrogate	Result
TCMX	NA
Decachlorobiphenyl	NA

*= Value outside of QC limits; see narrative
 NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
 Page 3 of 5

Polychlorinated Biphenyls (PCBs)			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3545
Project#:	400582002	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	01/05/05
Units:	ug/Kg	Received:	01/05/05
Diln Fac:	1.000	Prepared:	01/08/05
Batch#:	98140		

Field ID: B6-S-2.0-1
 Type: SAMPLE
 Lab ID: 176984-029
 Basis: dry

Moisture: 6%
 Analyzed: 01/17/05
 Cleanup Method: EPA 3665

Analyte	Result	RL
Aroclor-1016	ND	10
Aroclor-1221	ND	21
Aroclor-1232	ND	10
Aroclor-1242	ND	10
Aroclor-1248	ND	10
Aroclor-1254	ND	10
Aroclor-1260	25	10

Surrogate	%REC	Limits
TCMX	96	62-140
Decachlorobiphenyl	108	48-149

Field ID: B6-S-5.0-1
 Type: SAMPLE
 Lab ID: 176984-030

Basis: as received
 Moisture: ** MISSING MOISTURE DATA **

Analyte	Result
Aroclor-1016	NA
Aroclor-1221	NA
Aroclor-1232	NA
Aroclor-1242	NA
Aroclor-1248	NA
Aroclor-1254	NA
Aroclor-1260	NA

Surrogate	Result
TCMX	NA
Decachlorobiphenyl	NA

*= Value outside of QC limits; see narrative
 NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
 Page 4 of 5

Polychlorinated Biphenyls (PCBs)			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3545
Project#:	400582002	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	01/05/05
Units:	ug/Kg	Received:	01/05/05
Diln Fac:	1.000	Prepared:	01/08/05
Batch#:	98140		

Type: BLANK
 Lab ID: QC278802
 Basis: as received

Analyzed: 01/12/05
 Cleanup Method: EPA 3620

Analyte	Result	RL
Aroclor-1016	ND	9.5
Aroclor-1221	ND	19
Aroclor-1232	ND	9.5
Aroclor-1242	ND	9.5
Aroclor-1248	ND	9.5
Aroclor-1254	ND	9.5
Aroclor-1260	ND	9.5

Surrogate	%REC	Limits
TCMX	108	62-140
Decachlorobiphenyl	139	48-149

*= Value outside of QC limits; see narrative
 NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit
 Page 5 of 5

Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3545
Project#:	400582002	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC278803	Batch#:	98140
Matrix:	Soil	Prepared:	01/08/05
Units:	ug/Kg	Analyzed:	01/13/05
Basis:	as received		

Cleanup Method: EPA 3665

Analyte	Spiked	Result	%REC	Limits
Aroclor-1254	168.1	184.3	110	69-143

Surrogate	%REC	Limits
TCMX	100	62-140
Decachlorobiphenyl	125	48-149



Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3545
Project#:	400582002	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	98140
MSS Lab ID:	176952-021	Sampled:	01/04/05
Matrix:	Soil	Received:	01/04/05
Units:	ug/Kg	Prepared:	01/08/05
Basis:	dry	Analyzed:	01/14/05
Diln Fac:	1.000		

Type:	MS	Moisture:	22%
Lab ID:	QC278804	Cleanup Method:	EPA 3665

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1254	<4.828	216.4	201.6	93	62-160

Surrogate	%REC	Limits
TCMX	80	62-140
Decachlorobiphenyl	141	48-149

Type:	MSD	Moisture:	22%
Lab ID:	QC278805	Cleanup Method:	EPA 3665

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1254	214.4	177.8	83	62-160	12	39

Surrogate	%REC	Limits
TCMX	71	62-140
Decachlorobiphenyl	134	48-149

Reporting Summary for 176984 PCB Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
176984-020	Aroclor-1016	GC06	B	01/15/05 07:18
176984-020	Aroclor-1221	GC06	B	01/15/05 07:18
176984-020	Aroclor-1232	GC06	B	01/15/05 07:18
176984-020	Aroclor-1242	GC06	B	01/15/05 07:18
176984-020	Aroclor-1248	GC06	B	01/15/05 07:18
176984-020	Aroclor-1254	GC06	B	01/15/05 07:18
176984-020	Aroclor-1260	GC06	B	01/15/05 07:18
176984-020	TCMX	GC06	B	01/15/05 07:18
176984-020	Decachlorobiphenyl	GC06	B	01/15/05 07:18
176984-021	Aroclor-1016	GC06	B	01/15/05 07:51
176984-021	Aroclor-1221	GC06	B	01/15/05 07:51
176984-021	Aroclor-1232	GC06	B	01/15/05 07:51
176984-021	Aroclor-1242	GC06	B	01/15/05 07:51
176984-021	Aroclor-1248	GC06	B	01/15/05 07:51
176984-021	Aroclor-1254	GC06	B	01/15/05 07:51
176984-021	Aroclor-1260	GC06	B	01/15/05 07:51
176984-021	TCMX	GC06	B	01/15/05 07:51
176984-021	Decachlorobiphenyl	GC06	B	01/15/05 07:51
176984-022	Aroclor-1016	GC06	B	01/15/05 08:24
176984-022	Aroclor-1221	GC06	B	01/15/05 08:24
176984-022	Aroclor-1232	GC06	B	01/15/05 08:24
176984-022	Aroclor-1242	GC06	B	01/15/05 08:24
176984-022	Aroclor-1248	GC06	B	01/15/05 08:24
176984-022	Aroclor-1254	GC06	B	01/15/05 08:24
176984-022	Aroclor-1260	GC06	B	01/15/05 08:24
176984-022	TCMX	GC06	B	01/15/05 08:24
176984-022	Decachlorobiphenyl	GC06	B	01/15/05 08:24
176984-026	Aroclor-1016	GC25	A	01/18/05 12:59
176984-026	Aroclor-1221	GC25	A	01/18/05 12:59
176984-026	Aroclor-1232	GC25	A	01/18/05 12:59
176984-026	Aroclor-1242	GC25	A	01/18/05 12:59
176984-026	Aroclor-1248	GC25	A	01/18/05 12:59
176984-026	Aroclor-1254	GC25	B	01/18/05 12:59
176984-026	Aroclor-1260	GC25	B	01/18/05 12:59
176984-026	TCMX	GC25	A	01/18/05 12:59
176984-026	Decachlorobiphenyl	GC25	A	01/18/05 12:59
176984-027	Aroclor-1016	GC25	A	01/17/05 23:17
176984-027	Aroclor-1221	GC25	A	01/17/05 23:17
176984-027	Aroclor-1232	GC25	A	01/17/05 23:17
176984-027	Aroclor-1242	GC25	A	01/17/05 23:17
176984-027	Aroclor-1248	GC25	A	01/17/05 23:17
176984-027	Aroclor-1254	GC25	B	01/17/05 23:17
176984-027	Aroclor-1260	GC25	B	01/17/05 23:17
176984-027	TCMX	GC25	A	01/17/05 23:17
176984-027	Decachlorobiphenyl	GC25	A	01/17/05 23:17
176984-028	Aroclor-1016	GC06	B	01/15/05 10:03
176984-028	Aroclor-1221	GC06	B	01/15/05 10:03
176984-028	Aroclor-1232	GC06	B	01/15/05 10:03
176984-028	Aroclor-1242	GC06	B	01/15/05 10:03

Reporting Summary for 176984 PCB Soil

Sample ID	Analyte	Inst ID	Ch	Date & Time
176984-028	Aroclor-1248	GC06	B	01/15/05 10:03
176984-028	Aroclor-1254	GC06	B	01/15/05 10:03
176984-028	Aroclor-1260	GC06	B	01/15/05 10:03
176984-028	TCMX	GC06	B	01/15/05 10:03
176984-028	Decachlorobiphenyl	GC06	B	01/15/05 10:03
176984-029	Aroclor-1016	GC25	A	01/17/05 23:46
176984-029	Aroclor-1221	GC25	A	01/17/05 23:46
176984-029	Aroclor-1232	GC25	A	01/17/05 23:46
176984-029	Aroclor-1242	GC25	A	01/17/05 23:46
176984-029	Aroclor-1248	GC25	A	01/17/05 23:46
176984-029	Aroclor-1254	GC25	A	01/17/05 23:46
176984-029	Aroclor-1260	GC25	A	01/17/05 23:46
176984-029	TCMX	GC25	A	01/17/05 23:46
176984-029	Decachlorobiphenyl	GC25	A	01/17/05 23:46
176984-030	Aroclor-1016	GC06	B	01/15/05 11:10
176984-030	Aroclor-1221	GC06	B	01/15/05 11:10
176984-030	Aroclor-1232	GC06	B	01/15/05 11:10
176984-030	Aroclor-1242	GC06	B	01/15/05 11:10
176984-030	Aroclor-1248	GC06	B	01/15/05 11:10
176984-030	Aroclor-1254	GC06	B	01/15/05 11:10
176984-030	Aroclor-1260	GC06	B	01/15/05 11:10
176984-030	TCMX	GC06	B	01/15/05 11:10
176984-030	Decachlorobiphenyl	GC06	B	01/15/05 11:10
QC278802	Aroclor-1016	GC06	A	01/12/05 07:06
QC278802	Aroclor-1221	GC06	A	01/12/05 07:06
QC278802	Aroclor-1232	GC06	A	01/12/05 07:06
QC278802	Aroclor-1242	GC06	A	01/12/05 07:06
QC278802	Aroclor-1248	GC06	A	01/12/05 07:06
QC278802	Aroclor-1254	GC06	A	01/12/05 07:06
QC278802	Aroclor-1260	GC06	A	01/12/05 07:06
QC278802	TCMX	GC06	A	01/12/05 07:06
QC278802	Decachlorobiphenyl	GC06	A	01/12/05 07:06
QC278803	Aroclor-1254	GC06	A	01/13/05 15:55
QC278803	TCMX	GC06	A	01/13/05 15:55
QC278803	Decachlorobiphenyl	GC06	A	01/13/05 15:55
QC278804	Aroclor-1254	GC06	A	01/14/05 11:12
QC278804	TCMX	GC06	A	01/14/05 11:12
QC278804	Decachlorobiphenyl	GC06	A	01/14/05 11:12
QC278805	Aroclor-1254	GC06	A	01/14/05 11:45
QC278805	TCMX	GC06	A	01/14/05 11:45
QC278805	Decachlorobiphenyl	GC06	A	01/14/05 11:45

INITIAL CALIBRATION REPORT FOR 176984 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: MCH
Calnum: 205017107001 Name: Type: (normal) Date: 11-JAN-2005 21:07 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	012_003	205017107003	pcb10_2	11-JAN-2005 21:07	05WS0029
2	012_004	205017107004	pcb25_5	11-JAN-2005 21:40	05WS0030
3	012_005	205017107005	pcb100_20	11-JAN-2005 22:14	05WS0031
4	012_006	205017107006	pcb250_50	11-JAN-2005 22:47	05WS0032
5	012_007	205017107007	pcb500_100	11-JAN-2005 23:20	05WS0033
6	012_008	205017107008	pcb750_150	11-JAN-2005 23:53	05WS0034
7	012_009	205017107009	pcb1k_200	12-JAN-2005 00:27	05WS0035

Analyte	Ch	r^2							Type	X	a0	a1	a2	units	avg	%RSD	MnR^2	MxRSD	Flags
		L1	L2	L3	L4	L5	L6	L7											
Aroclor-1016 Peak # 1	A	221.01	205.70	198.29	163.39	152.68	138.61	142.77	AVRG	R		0.005726		pg	174.63	19	.99	20	
Aroclor-1016 Peak # 2	A	477.94	438.59	405.88	323.41	293.90			AVRG	R		0.002578		pg	387.94	20	.99	20	
Aroclor-1016 Peak # 3	A	334.62	312.20	301.75	253.09	228.98	218.55	222.49	AVRG	R		0.003740		pg	267.38	18	.99	20	
Aroclor-1016 Peak # 4	A	276.76	261.46	256.77	210.74	187.62	179.74	187.21	AVRG	R		0.004486		pg	222.90	18	.99	20	
Aroclor-1016 Peak # 5	A	247.93	232.96	231.51	190.84	181.03	163.49	170.75	AVRG	R		0.004935		pg	202.64	17	.99	20	
Aroclor-1260 Peak # 1	A	529.69	474.20	449.27	354.58	330.52			AVRG	R		0.002338		pg	427.65	20	.99	20	
Aroclor-1260 Peak # 2	A	657.09	588.04	560.37	439.37	409.14			AVRG	R		0.001884		pg	530.80	20	.99	20	
Aroclor-1260 Peak # 3	A	320.85	294.66	291.42	230.08	215.46	192.77	204.80	AVRG	R		0.004000		pg	250.01	20	.99	20	
Aroclor-1260 Peak # 4	A	355.60	315.83	319.09	248.12	236.77	213.13	229.48	AVRG	R		0.003650		pg	274.00	20	.99	20	
Aroclor-1260 Peak # 5	A	566.86	500.83	490.25	387.01	373.06	337.26	369.18	AVRG	R		0.002314		pg	432.06	20	.99	20	
TCMX	A	8560.8	8415.3	9611.3	9006.6	9072.3	8531.6	8926.9	AVRG	R		1.127E-4		pg	8875.0	5	.99	20	
Decachlorobiphenyl	A			3796.2	2966.3	2761.3	2479.8	2730.1	AVRG	R		3.394E-4		pg	2946.7	17	.99	20	
Aroclor-1016 Peak # 1	B	171.48	162.71	160.77	134.62	128.43	117.18	121.10	AVRG	R		0.007026		pg	142.33	16	.99	20	
Aroclor-1016 Peak # 2	B	243.88	230.23	230.61	194.51	188.10	171.78	179.61	AVRG	R		0.004865		pg	205.53	14	.99	20	
Aroclor-1016 Peak # 3	B	489.78	447.73	451.55	387.13	382.96	353.11	374.66	AVRG	R		0.002425		pg	412.42	12	.99	20	
Aroclor-1016 Peak # 4	B	257.55	242.58	239.34	200.40	193.64	176.98	186.17	AVRG	R		0.004677		pg	213.81	15	.99	20	
Aroclor-1016 Peak # 5	B	190.32	180.31	183.10	154.49	150.71	138.47	146.29	AVRG	R		0.006121		pg	163.38	13	.99	20	
Aroclor-1260 Peak # 1	B	430.93	390.12	381.44	301.21	285.85	254.84		AVRG	R		0.002935		pg	340.73	20	.99	20	
Aroclor-1260 Peak # 2	B	294.68	268.47	267.76	213.37	202.41	182.63	193.94	AVRG	R		0.004312		pg	231.90	19	.99	20	

Curves: AVR: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176984 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: MCH
Calnum: 205017107001 Name: Type: (normal) Date: 11-JAN-2005 21:07 Inj Vol (uL): 1

Analyte	Ch								Type	X	a0	a1	a2	units	avg	r ²			
		L1	L2	L3	L4	L5	L6	L7								%RSD	MnR ²	MxRSD	Flags
Aroclor-1260 Peak # 3	B	281.91	260.79	263.89	212.96	207.49	189.13	205.80	AVRG	R		0.004316		pg	231.71	16	.99	20	
Aroclor-1260 Peak # 4	B	513.08	463.04	469.29	379.71	374.21	342.13	378.73	AVRG	R		0.002397		pg	417.17	15	.99	20	
Aroclor-1260 Peak # 5	B	249.25	229.60	233.20	188.97	190.73	175.22	198.04	AVRG	R		0.004778		pg	209.29	13	.99	20	
TCMX	B	6090.1	6091.5	7503.1	7395.3	7720.7	7343.7	7741.8	AVRG	R		1.403E-4		pg	7126.6	10	.99	20	
Decachlorobiphenyl	B		4227.2	3950.0	3121.6	2923.1	2628.4	2906.8	AVRG	R		3.037E-4		pg	3292.8	19	.99	20	

336

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response² * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176984 PCB Soil
Curtis & Tompkins Laboratories

Instid : GC06 Calname :
Calnum : 205017107001 Caldate : 11-JAN-2005 Caltype :

ICV 205017107012 (012_012) standards: 04WS2171

Analyte	Ch	ICV	Seqnum	Date	Spiked	Quant	Units	%D	Max
Aroclor-1016	A	205017107012	12-JAN-2005	250.00	272.15	pg	9	15	
Aroclor-1260	A	205017107012	12-JAN-2005	250.00	261.01	pg	4	15	
Aroclor-1016	B	205017107012	12-JAN-2005	250.00	280.91	pg	12	15	
Aroclor-1260	B	205017107012	12-JAN-2005	250.00	273.58	pg	9	15	

INITIAL CALIBRATION REPORT FOR 176984 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: MCH
Calnum: 205017107002 Name: Type: (normal) Date: 12-JAN-2005 03:46 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	012_015	205017107015	ar1254	12-JAN-2005 03:46	04WS2370

										r^2				
Analyte		Ch	L1	Type	X	a0	a1	a2	units	avg	%RSD	MnR^2	MxRSD	Flags
Aroclor-1254	Peak # 1	A	271.53	AVRG	R		0.003683		pg	271.53	0	.99	20	
Aroclor-1254	Peak # 2	A	310.48	AVRG	R		0.003221		pg	310.48	0	.99	20	
Aroclor-1254	Peak # 3	A	228.84	AVRG	R		0.004370		pg	228.84	0	.99	20	
Aroclor-1254	Peak # 4	A	385.27	AVRG	R		0.002596		pg	385.27	0	.99	20	
Aroclor-1254	Peak # 5	A	229.59	AVRG	R		0.004356		pg	229.59	0	.99	20	
Aroclor-1254	Peak # 1	B	267.84	AVRG	R		0.003734		pg	267.84	0	.99	20	
Aroclor-1254	Peak # 2	B	378.57	AVRG	R		0.002641		pg	378.57	0	.99	20	
Aroclor-1254	Peak # 3	B	188.68	AVRG	R		0.005300		pg	188.68	0	.99	20	
Aroclor-1254	Peak # 4	B	367.29	AVRG	R		0.002723		pg	367.29	0	.99	20	
Aroclor-1254	Peak # 5	B	360.77	AVRG	R		0.002772		pg	360.77	0	.99	20	

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176984 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC06 Gas Chromatograph #6 ECD Reviewed By: MCH
Calnum: 205018461001 Name: Type: (normal) Date: 12-JAN-2005 21:21 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	013_005	205018461005	ccv	12-JAN-2005 21:21	05WS0076

Analyte	Ch L1		Type X	a0	a1	a2	units	avg	r^2		MnR^2	MxRSD	Flags
									%RSD				
Aroclor-1254 Peak # 1	A	290.23	AVRG R		0.003446		pg	290.23	0	.99	20		
Aroclor-1254 Peak # 2	A	343.78	AVRG R		0.002909		pg	343.78	0	.99	20		
Aroclor-1254 Peak # 3	A	249.72	AVRG R		0.004004		pg	249.72	0	.99	20		
Aroclor-1254 Peak # 4	A	426.53	AVRG R		0.002344		pg	426.53	0	.99	20		
Aroclor-1254 Peak # 5	A	258.61	AVRG R		0.003867		pg	258.61	0	.99	20		
Aroclor-1254 Peak # 1	B	288.93	AVRG R		0.003461		pg	288.93	0	.99	20		
Aroclor-1254 Peak # 2	B	420.42	AVRG R		0.002379		pg	420.42	0	.99	20		
Aroclor-1254 Peak # 3	B	212.56	AVRG R		0.004705		pg	212.56	0	.99	20		
Aroclor-1254 Peak # 4	B	411.43	AVRG R		0.002431		pg	411.43	0	.99	20		
Aroclor-1254 Peak # 5	B	414.64	AVRG R		0.002412		pg	414.64	0	.99	20		

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION REPORT FOR 176984 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC25 Gas Chromatograph #25 ECD Reviewed By: MCH
Calnum: 825019553001 Name: Type: (normal) Date: 13-JAN-2005 12:57 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	013_003	825019553003	pcb10_2	13-JAN-2005 12:57	05WS0029
2	013_004	825019553004	pcb25_5	13-JAN-2005 13:25	05WS0030
3	013_005	825019553005	pcb100_20	13-JAN-2005 13:53	05WS0031
4	013_006	825019553006	pcb250_50	13-JAN-2005 14:22	05WS0032
5	013_007	825019553007	pcb500_100	13-JAN-2005 14:50	05WS0033
6	013_008	825019553008	pcb750_150	13-JAN-2005 15:19	05WS0034
7	013_009	825019553009	pcb1K_200	13-JAN-2005 16:05	05WS0035

Analyte	Ch								Type	X	r ²			units	avg	%RSD	MnR ²	MxRSD	Flags
		L1	L2	L3	L4	L5	L6	L7			a0	a1	a2						
Aroclor-1016 Peak # 1	A	166.44	184.24	197.95	171.02	177.50	157.30	142.38	AVRG	R		0.005849		pg	170.98	11	.99	20	
Aroclor-1016 Peak # 2	A	342.35	380.78	349.59	306.99	315.57	274.92	248.74	AVRG	R		0.003155		pg	316.99	14	.99	20	
Aroclor-1016 Peak # 3	A	460.40	506.22	424.59	387.79	423.33	352.89	335.60	AVRG	R		0.002421		pg	412.97	14	.99	20	
Aroclor-1016 Peak # 4	A	281.31	323.98	302.03	269.58	283.80	244.54	223.23	AVRG	R		0.003630		pg	275.50	12	.99	20	
Aroclor-1016 Peak # 5	A	221.12	231.14	213.08	194.88	207.79	175.01	155.35	AVRG	R		0.005006		pg	199.77	13	.99	20	
Aroclor-1260 Peak # 1	A	400.12	449.51	394.15	330.92	362.62	305.71	277.26	AVRG	R		0.002777		pg	360.04	17	.99	20	
Aroclor-1260 Peak # 2	A	668.06	697.07	594.42	504.46	563.61	472.74	440.70	AVRG	R		0.001776		pg	563.01	17	.99	20	
Aroclor-1260 Peak # 3	A	275.81	333.56	291.70	246.57	274.57	226.76	206.28	AVRG	R		0.003773		pg	265.04	16	.99	20	
Aroclor-1260 Peak # 4	A	351.63	358.31	336.65	281.13	317.22	263.14	237.86	AVRG	R		0.003262		pg	306.56	15	.99	20	
Aroclor-1260 Peak # 5	A	724.17	807.48	706.22	597.47	694.84	587.96	546.01	AVRG	R		0.001501		pg	666.31	14	.99	20	
TCMX	A	7912.4	9221.0	8472.6	7697.2	8573.4	7733.1	7671.3	AVRG	R		1.222E-4		pg	8183.0	7	.99	20	
Decachlorobiphenyl	A	6328.7	6844.0	5303.4	4383.4	5222.4	4515.5	4329.4	AVRG	R		1.896E-4		pg	5275.2	19	.99	20	
Aroclor-1016 Peak # 1	B	127.51	136.93	155.86	126.49	116.85	140.39	128.54	AVRG	R		0.007506		pg	133.22	9	.99	20	
Aroclor-1016 Peak # 2	B	184.74	175.04	206.87	168.97	155.54	185.40	170.76	AVRG	R		0.005612		pg	178.19	9	.99	20	
Aroclor-1016 Peak # 3	B	633.05	590.48	683.21	552.61	507.93	613.90	560.78	AVRG	R		0.001690		pg	591.71	10	.99	20	
Aroclor-1016 Peak # 4	B	244.66	225.24	266.41	218.92	201.51	240.05	219.49	AVRG	R		0.004331		pg	230.90	9	.99	20	
Aroclor-1016 Peak # 5	B	168.13	160.56	185.51	152.11	140.41	166.95	151.46	AVRG	R		0.006222		pg	160.73	9	.99	20	
Aroclor-1260 Peak # 1	B	375.10	345.70	396.53	326.75	294.50	352.61	318.04	AVRG	R		0.002905		pg	344.18	10	.99	20	
Aroclor-1260 Peak # 2	B	420.29	383.79	435.50	352.72	323.50	385.35	349.62	AVRG	R		0.002641		pg	378.68	11	.99	20	

Curves: AVRQ: Average response factor

Instrument amount = a0 + response * a1 + response² * a2

INITIAL CALIBRATION REPORT FOR 176984 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC25 Gas Chromatograph #25 ECD Reviewed By: MCH
Calnum: 825019553001 Name: Type: (normal) Date: 13-JAN-2005 12:57 Inj Vol (uL): 1

Analyte	Ch								Type	X	r^2			units	avg	%RSD	MnR^2	MxRSD	Flags
		L1	L2	L3	L4	L5	L6	L7			a0	a1	a2						
Aroclor-1260 Peak # 3	B	287.43	248.38	294.94	241.55	216.80	259.93	233.65	AVRG	R		0.003927		pg	254.67	11	.99	20	
Aroclor-1260 Peak # 4	B	645.44	564.61	664.39	540.72	488.44	599.92	538.82	AVRG	R		0.001732		pg	577.48	11	.99	20	
Aroclor-1260 Peak # 5	B	348.80	318.76	377.82	311.23	279.01	338.89	305.97	AVRG	R		0.003070		pg	325.78	10	.99	20	
TCMX	B	7078.1	6836.0	7942.9	6461.7	6121.0	7788.8	7246.7	AVRG	R		1.415E-4		pg	7067.9	9	.99	20	
Decachlorobiphenyl	B	4675.0	4134.3	4667.4	3731.6	3350.2	4131.1	3826.9	AVRG	R		2.455E-4		pg	4073.8	12	.99	20	

341

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

INITIAL CALIBRATION 2ND SOURCE VALIDATION SUMMARY FOR 176984 PCB Soil
Curtis & Tompkins Laboratories

Instid : GC25 Calname :
Calnum : 825019553001 Caldate : 13-JAN-2005 Caltype :

ICV 825019553011 (013_011) standards: 04WS2171

Analyte	Ch	ICV	Seqnum	Date	Spiked	Quant	Units	%D	Max
Aroclor-1016	A	825019553011		13-JAN-2005	250.00	252.90	pg	1	15
Aroclor-1260	A	825019553011		13-JAN-2005	250.00	255.40	pg	2	15
Aroclor-1016	B	825019553011		13-JAN-2005	250.00	250.12	pg	0	15
Aroclor-1260	B	825019553011		13-JAN-2005	250.00	237.29	pg	-5	15

INITIAL CALIBRATION REPORT FOR 176984 PCB Soil
Curtis & Tompkins Laboratories

Instrument: GC25 Gas Chromatograph #25 ECD Reviewed By: MCH
Calnum: 825019553002 Name: Type: (normal) Date: 13-JAN-2005 19:09 Inj Vol (uL): 1

Calibration levels:

#	Filename	Seqnum	Samplenum	Analyzed	Standards
1	013_014	825019553014	ccv	13-JAN-2005 19:09	04WS2370

Analyte	Ch L1		Type X	a0 a1 a2			units	avg	r^2		MnR^2	MxRSD	Flags
									%RSD				
Aroclor-1254 Peak # 1	A	245.07	AVRG R		0.004081		pg	245.07	0	.99	20		
Aroclor-1254 Peak # 2	A	323.84	AVRG R		0.003088		pg	323.84	0	.99	20		
Aroclor-1254 Peak # 3	A	258.68	AVRG R		0.003866		pg	258.68	0	.99	20		
Aroclor-1254 Peak # 4	A	439.58	AVRG R		0.002275		pg	439.58	0	.99	20		
Aroclor-1254 Peak # 5	A	340.01	AVRG R		0.002941		pg	340.01	0	.99	20		
Aroclor-1254 Peak # 1	B	247.12	AVRG R		0.004047		pg	247.12	0	.99	20		
Aroclor-1254 Peak # 2	B	351.59	AVRG R		0.002844		pg	351.59	0	.99	20		
Aroclor-1254 Peak # 3	B	229.52	AVRG R		0.004357		pg	229.52	0	.99	20		
Aroclor-1254 Peak # 4	B	395.42	AVRG R		0.002529		pg	395.42	0	.99	20		
Aroclor-1254 Peak # 5	B	279.32	AVRG R		0.003580		pg	279.32	0	.99	20		

Curves: AVRG: Average response factor

Instrument amount = a0 + response * a1 + response^2 * a2

CONTINUING CALIBRATION SUMMARY FOR 176984 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1016

Instid	Ch	Segnum	Injected	Calnum	Caldate	Avg		SpkAmt	QntAmt	Units	%D Max	%D	Flags
						RF/CF	RF/CF						
GC06	A	205017107032	12-JAN-2005 16:40	205017107001	11-JAN-2005			100.00	111.50	pg	12	15	
GC06	B	205017107032	12-JAN-2005 16:40	205017107001	11-JAN-2005			100.00	114.90	pg	15	15	
GC06	A	205021085022	15-JAN-2005 03:59	205017107001	11-JAN-2005			500.00	501.73	pg	0	15	
GC06	B	205021085022	15-JAN-2005 03:59	205017107001	11-JAN-2005			500.00	531.88	pg	6	15	
GC06	A	205021085040	15-JAN-2005 13:56	205017107001	11-JAN-2005			250.00	303.39	pg	21	15	c+ ***
GC06	B	205021085040	15-JAN-2005 13:56	205017107001	11-JAN-2005			250.00	303.79	pg	22	15	c+ ***
GC25	A	825025419001	17-JAN-2005 15:39	825019553001	13-JAN-2005			250.00	239.96	pg	-4	15	
GC25	B	825025419001	17-JAN-2005 15:39	825019553001	13-JAN-2005			250.00	234.74	pg	-6	15	
GC25	A	825025419019	18-JAN-2005 04:03	825019553001	13-JAN-2005			500.00	468.69	pg	-6	15	
GC25	B	825025419019	18-JAN-2005 04:03	825019553001	13-JAN-2005			500.00	512.24	pg	2	15	
GC25	A	825025419033	18-JAN-2005 13:56	825019553001	13-JAN-2005			250.00	260.65	pg	4	15	
GC25	B	825025419033	18-JAN-2005 13:56	825019553001	13-JAN-2005			250.00	270.02	pg	8	15	

CONTINUING CALIBRATION SUMMARY FOR 176984 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1254

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg		SpkAmt	QntAmt	Units	%D Max	%D	Flags
						RF/CF	RF/CF						
GC06	A	205017107015	12-JAN-2005 03:46	205017107002	12-JAN-2005			250.00	250.00	pg	0	15	
GC06	B	205017107015	12-JAN-2005 03:46	205017107002	12-JAN-2005			250.00	250.00	pg	0	15	
GC06	A	205017107033	12-JAN-2005 17:16	205017107002	12-JAN-2005			250.00	309.37	pg	24	15	c+ ***
GC06	B	205017107033	12-JAN-2005 17:16	205017107002	12-JAN-2005			250.00	341.69	pg	37	15	c+ ***
GC06	A	205018461005	12-JAN-2005 21:21	205018461001	12-JAN-2005			250.00	250.00	pg	0	15	
GC06	B	205018461005	12-JAN-2005 21:21	205018461001	12-JAN-2005			250.00	250.00	pg	0	15	
GC06	A	205018461022	13-JAN-2005 06:46	205018461001	12-JAN-2005			250.00	263.19	pg	5	15	
GC06	B	205018461022	13-JAN-2005 06:46	205018461001	12-JAN-2005			250.00	261.39	pg	5	15	
GC06	A	205018461030	13-JAN-2005 13:04	205018461001	12-JAN-2005			250.00	261.24	pg	4	15	
GC06	B	205018461030	13-JAN-2005 13:04	205018461001	12-JAN-2005			250.00	258.36	pg	3	15	
GC06	A	205018461040	13-JAN-2005 19:31	205018461001	12-JAN-2005			250.00	287.48	pg	15	15	
GC06	B	205018461040	13-JAN-2005 19:31	205018461001	12-JAN-2005			250.00	286.09	pg	14	15	
GC06	A	205018461057	14-JAN-2005 05:06	205018461001	12-JAN-2005			250.00	239.69	pg	-4	15	
GC06	B	205018461057	14-JAN-2005 05:06	205018461001	12-JAN-2005			250.00	221.99	pg	-11	15	
GC06	A	205018461073	14-JAN-2005 14:08	205018461001	12-JAN-2005			250.00	244.26	pg	-2	15	
GC06	B	205018461073	14-JAN-2005 14:08	205018461001	12-JAN-2005			250.00	244.62	pg	-2	15	
GC06	A	205021085023	15-JAN-2005 04:32	205018461001	12-JAN-2005			250.00	260.62	pg	4	15	
GC06	B	205021085023	15-JAN-2005 04:32	205018461001	12-JAN-2005			250.00	239.92	pg	-4	15	
GC06	A	205021085041	15-JAN-2005 14:29	205018461001	12-JAN-2005			250.00	327.30	pg	31	15	c+ ***
GC06	B	205021085041	15-JAN-2005 14:29	205018461001	12-JAN-2005			250.00	288.44	pg	15	15	
GC25	A	825025419002	17-JAN-2005 16:23	825019553002	13-JAN-2005			250.00	263.58	pg	5	15	
GC25	B	825025419002	17-JAN-2005 16:23	825019553002	13-JAN-2005			250.00	275.64	pg	10	15	
GC25	A	825025419020	18-JAN-2005 04:31	825019553002	13-JAN-2005			250.00	265.86	pg	6	15	
GC25	B	825025419020	18-JAN-2005 04:31	825019553002	13-JAN-2005			250.00	278.92	pg	12	15	
GC25	A	825025419035	18-JAN-2005 14:53	825019553002	13-JAN-2005			250.00	281.76	pg	13	15	
GC25	B	825025419035	18-JAN-2005 14:53	825019553002	13-JAN-2005			250.00	260.44	pg	4	15	

CONTINUING CALIBRATION SUMMARY FOR 176984 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Aroclor-1260

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg		SpkAmt	QntAmt	Units	%D Max	%D	Flags
						RF/CF	RF/CF						
GC06	A	205017107032	12-JAN-2005 16:40	205017107001	11-JAN-2005			100.00	111.38	pg	11	15	
GC06	B	205017107032	12-JAN-2005 16:40	205017107001	11-JAN-2005			100.00	115.10	pg	15	15	
GC06	A	205021085022	15-JAN-2005 03:59	205017107001	11-JAN-2005			500.00	527.15	pg	5	15	
GC06	B	205021085022	15-JAN-2005 03:59	205017107001	11-JAN-2005			500.00	550.03	pg	10	15	
GC06	A	205021085040	15-JAN-2005 13:56	205017107001	11-JAN-2005			250.00	323.46	pg	29	15	c+ ***
GC06	B	205021085040	15-JAN-2005 13:56	205017107001	11-JAN-2005			250.00	321.41	pg	29	15	c+ ***
GC25	A	825025419001	17-JAN-2005 15:39	825019553001	13-JAN-2005			250.00	224.06	pg	-10	15	
GC25	B	825025419001	17-JAN-2005 15:39	825019553001	13-JAN-2005			250.00	229.89	pg	-8	15	
GC25	A	825025419019	18-JAN-2005 04:03	825019553001	13-JAN-2005			500.00	517.76	pg	4	15	
GC25	B	825025419019	18-JAN-2005 04:03	825019553001	13-JAN-2005			500.00	527.02	pg	5	15	
GC25	A	825025419033	18-JAN-2005 13:56	825019553001	13-JAN-2005			250.00	269.72	pg	8	15	
GC25	B	825025419033	18-JAN-2005 13:56	825019553001	13-JAN-2005			250.00	287.35	pg	15	15	

CONTINUING CALIBRATION SUMMARY FOR 176984 PCB Soil
Curtis & Tompkins Laboratories

Analyte: TCMX

Instid	Ch	Seqnum	Injected	Calnum	Caldate	Avg		SpkAmt	OntAmt	Units	%D	Max	%D	Flags
						RF/CF	RF/CF							
GC06	A	205017107032	12-JAN-2005 16:40	205017107001	11-JAN-2005	8875.0	9011.6	20.000	20.308	pg	2	15		
GC06	B	205017107032	12-JAN-2005 16:40	205017107001	11-JAN-2005	7126.6	7174.6	20.000	20.135	pg	1	15		
GC06	A	205018461003	12-JAN-2005 20:15	205017107001	11-JAN-2005	8875.0	9697.0	50.000	54.631	pg	9	15		
GC06	B	205018461003	12-JAN-2005 20:15	205017107001	11-JAN-2005	7126.6	8153.9	50.000	57.207	pg	14	15		
GC06	A	205018461020	13-JAN-2005 05:40	205017107001	11-JAN-2005	8875.0	9363.1	20.000	21.100	pg	5	15		
GC06	B	205018461020	13-JAN-2005 05:40	205017107001	11-JAN-2005	7126.6	7529.0	20.000	21.129	pg	6	15		
GC06	A	205018461029	13-JAN-2005 11:36	205017107001	11-JAN-2005	8875.0	9149.5	100.00	103.09	pg	3	15		
GC06	B	205018461029	13-JAN-2005 11:36	205017107001	11-JAN-2005	7126.6	7990.5	100.00	112.12	pg	12	15		
GC06	A	205018461037	13-JAN-2005 17:51	205017107001	11-JAN-2005	8875.0	9499.2	50.000	53.517	pg	7	15		
GC06	B	205018461037	13-JAN-2005 17:51	205017107001	11-JAN-2005	7126.6	8037.7	50.000	56.392	pg	13	15		
GC06	A	205018461054	14-JAN-2005 03:26	205017107001	11-JAN-2005	8875.0	6926.7	20.000	15.610	pg	-22	15		c-
GC06	B	205018461054	14-JAN-2005 03:26	205017107001	11-JAN-2005	7126.6	5462.0	20.000	15.329	pg	-23	15		c-
GC06	A	205018461072	14-JAN-2005 13:28	205017107001	11-JAN-2005	8875.0	8846.0	50.000	49.837	pg	0	15		
GC06	B	205018461072	14-JAN-2005 13:28	205017107001	11-JAN-2005	7126.6	7530.7	50.000	52.835	pg	6	15		
GC06	A	205021085022	15-JAN-2005 03:59	205017107001	11-JAN-2005	8875.0	8855.9	100.00	99.786	pg	0	15		
GC06	B	205021085022	15-JAN-2005 03:59	205017107001	11-JAN-2005	7126.6	7659.9	100.00	107.48	pg	7	15		
GC06	A	205021085040	15-JAN-2005 13:56	205017107001	11-JAN-2005	8875.0	9296.9	50.000	52.377	pg	5	15		
GC06	B	205021085040	15-JAN-2005 13:56	205017107001	11-JAN-2005	7126.6	7826.0	50.000	54.907	pg	10	15		
GC25	A	825025419001	17-JAN-2005 15:39	825019553001	13-JAN-2005	8183.0	8132.9	50.000	49.694	pg	-1	15		
GC25	B	825025419001	17-JAN-2005 15:39	825019553001	13-JAN-2005	7067.9	7241.3	50.000	51.227	pg	2	15		
GC25	A	825025419019	18-JAN-2005 04:03	825019553001	13-JAN-2005	8183.0	8824.1	100.00	107.84	pg	8	15		
GC25	B	825025419019	18-JAN-2005 04:03	825019553001	13-JAN-2005	7067.9	7774.4	100.00	110.00	pg	10	15		
GC25	A	825025419033	18-JAN-2005 13:56	825019553001	13-JAN-2005	8183.0	8618.0	50.000	52.658	pg	5	15		
GC25	B	825025419033	18-JAN-2005 13:56	825019553001	13-JAN-2005	7067.9	8406.7	50.000	59.471	pg	19	15		c+

CONTINUING CALIBRATION SUMMARY FOR 176984 PCB Soil
Curtis & Tompkins Laboratories

Analyte: Decachlorobiphenyl

Instid	Ch	Segnum	Injected	Calnum	Caldate	Avg		SpkAmt	QntAmt	Units	%D	Max	%D	Flags
						RF/CF	RF/CF							
GC06	A	205017107012	12-JAN-2005 02:06	205017107001	11-JAN-2005	2946.7	4275.2	50.000	72.542	pg	45	15		
GC06	B	205017107012	12-JAN-2005 02:06	205017107001	11-JAN-2005	3292.8	4636.4	50.000	70.401	pg	41	15		
GC06	A	205017107032	12-JAN-2005 16:40	205017107001	11-JAN-2005	2946.7	3658.3	20.000	24.830	pg	24	15		c+
GC06	B	205017107032	12-JAN-2005 16:40	205017107001	11-JAN-2005	3292.8	3897.5	20.000	23.673	pg	18	15		c+
GC06	A	205018461003	12-JAN-2005 20:15	205017107001	11-JAN-2005	2946.7	3431.7	50.000	58.228	pg	16	15		c+
GC06	B	205018461003	12-JAN-2005 20:15	205017107001	11-JAN-2005	3292.8	3732.8	50.000	56.680	pg	13	15		
GC06	A	205018461020	13-JAN-2005 05:40	205017107001	11-JAN-2005	2946.7	3629.9	20.000	24.637	pg	23	15		c+
GC06	B	205018461020	13-JAN-2005 05:40	205017107001	11-JAN-2005	3292.8	3844.8	20.000	23.352	pg	17	15		c+
GC06	A	205018461029	13-JAN-2005 11:36	205017107001	11-JAN-2005	2946.7	2629.2	100.00	89.223	pg	-11	15		
GC06	B	205018461029	13-JAN-2005 11:36	205017107001	11-JAN-2005	3292.8	2876.1	100.00	87.343	pg	-13	15		
GC06	A	205018461037	13-JAN-2005 17:51	205017107001	11-JAN-2005	2946.7	2864.0	50.000	48.596	pg	-3	15		
GC06	B	205018461037	13-JAN-2005 17:51	205017107001	11-JAN-2005	3292.8	3078.1	50.000	46.739	pg	-7	15		
GC06	A	205018461054	14-JAN-2005 03:26	205017107001	11-JAN-2005	2946.7	3764.0	20.000	25.547	pg	28	15		c+
GC06	B	205018461054	14-JAN-2005 03:26	205017107001	11-JAN-2005	3292.8	4049.3	20.000	24.595	pg	23	15		c+
GC06	A	205018461072	14-JAN-2005 13:28	205017107001	11-JAN-2005	2946.7	4793.7	50.000	81.339	pg	63	15		c+
GC06	B	205018461072	14-JAN-2005 13:28	205017107001	11-JAN-2005	3292.8	5377.8	50.000	81.658	pg	63	15		c+
GC06	A	205021085022	15-JAN-2005 03:59	205017107001	11-JAN-2005	2946.7	4286.2	100.00	145.46	pg	45	15		c+
GC06	B	205021085022	15-JAN-2005 03:59	205017107001	11-JAN-2005	3292.8	4400.7	100.00	133.64	pg	34	15		c+
GC06	A	205021085040	15-JAN-2005 13:56	205017107001	11-JAN-2005	2946.7	4350.2	50.000	73.814	pg	48	15		c+
GC06	B	205021085040	15-JAN-2005 13:56	205017107001	11-JAN-2005	3292.8	4359.2	50.000	66.192	pg	32	15		c+
GC25	A	825025419001	17-JAN-2005 15:39	825019553001	13-JAN-2005	5275.2	4723.7	50.000	44.773	pg	-10	15		
GC25	B	825025419001	17-JAN-2005 15:39	825019553001	13-JAN-2005	4073.8	4513.4	50.000	55.396	pg	11	15		
GC25	A	825025419019	18-JAN-2005 04:03	825019553001	13-JAN-2005	5275.2	5975.4	100.00	113.27	pg	13	15		
GC25	B	825025419019	18-JAN-2005 04:03	825019553001	13-JAN-2005	4073.8	5680.1	100.00	139.43	pg	39	15		c+
GC25	A	825025419033	18-JAN-2005 13:56	825019553001	13-JAN-2005	5275.2	4571.9	50.000	43.333	pg	-13	15		
GC25	B	825025419033	18-JAN-2005 13:56	825019553001	13-JAN-2005	4073.8	5821.8	50.000	71.454	pg	43	15		c+

SEQUENCE SUMMARY FOR 176984 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 205017107 Instrument: GC06
Analytical Method: EPA 8082

Gas Chromatograph #6 ECD
SOP Version: PCB_rv3

Begun: 11-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
003	012_003	ICAL	pcb10_2			11-JAN-2005 21:07	1.0	1.0				1	
004	012_004	ICAL	pcb25_5			11-JAN-2005 21:40	1.0	1.0				2	
005	012_005	ICAL	pcb100_20			11-JAN-2005 22:14	1.0	1.0				3	
006	012_006	ICAL	pcb250_50			11-JAN-2005 22:47	1.0	1.0				4	
007	012_007	ICAL	pcb500_100			11-JAN-2005 23:20	1.0	1.0				5	
008	012_008	ICAL	pcb750_150			11-JAN-2005 23:53	1.0	1.0				6	
009	012_009	ICAL	pcb1k_200			12-JAN-2005 00:27	1.0	1.0				7	
010	012_010	X	hex			12-JAN-2005 01:00	1.0						
011	012_011	X	hex			12-JAN-2005 01:33	1.0						
012	012_012	ICV	accu_1660			12-JAN-2005 02:06	1.0	1.0			1	8	
013	012_013	X	icv			12-JAN-2005 02:40	1.0					8	
014	012_014	X	icv			12-JAN-2005 03:13	1.0					9	
015	012_015	CCV	ar1254 - I CAL			12-JAN-2005 03:46	1.0	1.0			1	10	
016	012_016	X	ccv			12-JAN-2005 04:19	1.0					10	
017	012_017	CCV	ar 1242			12-JAN-2005 04:53	1.0	1.0			1	11	
018	012_018	X	ccv			12-JAN-2005 05:26	1.0					11	
020	012_020	BLANK	QC278812	98142	Water	12-JAN-2005 06:32	1.0	0.025			1		
021	012_021	BLANK	QC278802	98140	Soil	12-JAN-2005 07:06	1.0	0.6601			1		
022	012_022	LCS	QC278803	98140	Soil	12-JAN-2005 07:39	1.0	0.6725	4		1		
023	012_023	BS	QC278813	98142	Water	12-JAN-2005 08:12	1.0	0.025	4		1		
024	012_024	BSD	QC278814	98142	Water	12-JAN-2005 08:45	1.0	0.025	4	2	1		
025	012_025	SAMPLE	177026-001	98142	Water	12-JAN-2005 09:18	1.0	0.02778			1		
026	012_026	SAMPLE	177024-004	98140	Soil	12-JAN-2005 09:52	1.0	0.6631	2		1		
027	012_027	SAMPLE	176986-001	98140	Soil	12-JAN-2005 10:25	1.0	0.6579	1	2	1		
028	012_028	SAMPLE	176772-018	98128	Soil	12-JAN-2005 14:19	1.0	0.8197	18		1	sh	
029	012_029	SAMPLE	176772-019	98128	Soil	12-JAN-2005 14:52	1.0	0.8248	18	2	1	sh	
031	012_031	X	pcb100_20			12-JAN-2005 15:58	1.0					12	
032	012_032	CCV	ccv			12-JAN-2005 16:40	1.0	1.0			1	3	
033	012_033	CCV	ar1254			12-JAN-2005 17:16	1.0	1.0	2		1	10	
034	012_034	X	ccv			12-JAN-2005 17:49	1.0					10	

Stds used: 1=05WS0029 2=05WS0030 3=05WS0031 4=05WS0032 5=05WS0033 6=05WS0034 7=05WS0035 8=04WS2171 9=05WS0078 10=04WS2370 11=04WS1612 12=04WS2275

Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 176984 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 205017107 Instrument: GC06
Analytical Method: EPA 8082

Gas Chromatograph #6 ECD
SOP Version: PCB_rv3

Begun: 11-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
035	012_035	CCV	ar 1242			12-JAN-2005 18:30	1.0	1.0	2		1	11	

350

Stds used: 1=05WS0029 2=05WS0030 3=05WS0031 4=05WS0032 5=05WS0033 6=05WS0034 7=05WS0035 8=04WS2171 9=05WS0078 10=04WS2370 11=04WS1612 12=04WS2275

Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 176984 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 205018461 Instrument: GC06
Analytical Method: EPA 8082

Gas Chromatograph #6 ECD
SOP Version: PCB_rv3

Begun: 12-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
002	013_002	X	pcb250_50ug/			12-JAN-2005 19:41	1.0	1.0			1	1	
003	013_003	CCV	ccv			12-JAN-2005 20:15	1.0	1.0			1	1	
004	013_004	X	ar1254			12-JAN-2005 20:48	1.0					2	
005	013_005	CCV	ccv - I CAL			12-JAN-2005 21:21	1.0	1.0			1	2	
006	013_006	CCV	ar 1242			12-JAN-2005 21:55	1.0	1.0			1	3	
007	013_007	X	ccv			12-JAN-2005 22:28	1.0					3	
009	013_009	BLANK	QC278950	98183	Soil	12-JAN-2005 23:34	1.0	0.6748			1		
010	013_010	LCS	QC278951	98183	Soil	13-JAN-2005 00:08	1.0	0.6653			1		
011	013_011	X	QC278803	98140	Soil	13-JAN-2005 00:41	1.0	0.6725			1		
012	013_012	BS	QC278813	98142	Water	13-JAN-2005 01:14	1.0	0.025		1	1		
013	013_013	BSD	QC278814	98142	Water	13-JAN-2005 01:47	1.0	0.025			1		
014	013_014	MSS	177048-001	98183	Soil	13-JAN-2005 02:21	1.0	0.6636			1		
015	013_015	MSS	176952-021	98140	Soil	13-JAN-2005 02:54	1.0	0.6752			1		
016	013_016	SAMPLE	176986-001	98140	Soil	13-JAN-2005 03:27	1.0	0.6579	2	1	1		
017	013_017	SAMPLE	176772-018	98128	Soil	13-JAN-2005 04:00	1.0	0.8197	18	1	1	sh	
018	013_018	SAMPLE	176772-019	98128	Soil	13-JAN-2005 04:33	1.0	0.8248	18	1	1	sh	
020	013_020	CCV	pcb100_20			13-JAN-2005 05:40	1.0	1.0	4		1	4	
021	013_021	X	ccv			13-JAN-2005 06:13	1.0					4	
022	013_022	CCV	ar1254			13-JAN-2005 06:46	1.0	1.0			1	2	
023	013_023	X	ccv			13-JAN-2005 07:19	1.0					2	
024	013_024	CCV	ar 1242			13-JAN-2005 07:53	1.0	1.0			1	3	
025	013_025	X	ccv			13-JAN-2005 08:26	1.0					3	
028	013_028	SAMPLE	176915-002	98006	Soil	13-JAN-2005 10:05	10.0						
029	013_029	CCV	ccv			13-JAN-2005 11:36	1.0	1.0			1	5	
030	013_030	CCV	ar1254			13-JAN-2005 13:04	1.0	1.0			1	2	
032	013_032	BLANK	QC279172	98239	Soil	13-JAN-2005 14:49	1.0	0.8401			1		
033	013_033	LCS	QC279173	98239	Soil	13-JAN-2005 15:22	1.0	0.8415			1		
034	013_034	LCS	QC278803	98140	Soil	13-JAN-2005 15:55	1.0	0.6725			1		
035	013_035	MSS	177085-001	98239	Soil	13-JAN-2005 16:29	1.0	0.8347			1		
036	013_036	SAMPLE	177112-001	98271	Oil	13-JAN-2005 17:06	1.0	49.97		2	1		

Stds used: 1=04WS1789 2=05WS0076 3=04WS1612 4=05WS0031 5=05WS0033

Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 176984 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 205018461 Instrument: GC06
Analytical Method: EPA 8082

Gas Chromatograph #6 ECD
SOP Version: PCB_rv3

Begun: 12-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
037	013_037	CCV	pcb250_50ug/			13-JAN-2005 17:51	1.0	1.0	1		1	1	
038	013_038	X	ccv			13-JAN-2005 18:24	1.0					1	
039	013_039	X	ar1254			13-JAN-2005 18:58	1.0					2	
040	013_040	CCV	ccv			13-JAN-2005 19:31	1.0	1.0			1	2	
042	013_042	BLANK	QC279308	98271	Oil	13-JAN-2005 20:48	1.0	50.0			1		
043	013_043	BS	QC279309	98271	Oil	13-JAN-2005 21:21	1.0	50.0		2	1		
044	013_044	BSD	QC279310	98271	Oil	13-JAN-2005 21:54	1.0	50.0		2	1		
046	013_046	SAMPLE	176915-004	98006	Soil	13-JAN-2005 23:01	1.0	0.6667			1		
047	013_047	SAMPLE	176915-005	98006	Soil	13-JAN-2005 23:34	1.0	0.6684			1		
048	013_048	SAMPLE	176915-006	98006	Soil	14-JAN-2005 00:07	1.0	0.6575			1		
049	013_049	SAMPLE	176915-003	98006	Soil	14-JAN-2005 00:40	2.0	0.657			1		
050	013_050	MSS	176915-001	98006	Soil	14-JAN-2005 01:13	2.0	0.668		2	1		
051	013_051	MS	QC278309	98006	Soil	14-JAN-2005 01:46	2.0	0.6618		2	1		
052	013_052	MSD	QC278310	98006	Soil	14-JAN-2005 02:20	2.0	0.664		1	1		
054	013_054	CCV	ccv			14-JAN-2005 03:26	1.0	1.0			1	4	
055	013_055	X	ccv			14-JAN-2005 03:59	1.0	1.0			1	5	
056	013_056	X	ccv			14-JAN-2005 04:33	1.0					5	
057	013_057	CCV	ar1254			14-JAN-2005 05:06	1.0	1.0			1	2	
058	013_058	X	ccv			14-JAN-2005 05:39	1.0					2	
060	013_060	SAMPLE	176915-007	98006	Soil	14-JAN-2005 06:45	1.0	0.672		2	1		
061	013_061	SAMPLE	176915-008	98006	Soil	14-JAN-2005 07:19	1.0	0.672	1		1		
062	013_062	SAMPLE	176915-009	98006	Soil	14-JAN-2005 07:52	1.0	0.6757	1		1		
063	013_063	SAMPLE	176915-010	98006	Soil	14-JAN-2005 08:25	1.0	0.6725	1		1		
064	013_064	SAMPLE	176915-011	98006	Soil	14-JAN-2005 08:58	1.0	0.6605	1		1		
065	013_065	SAMPLE	176915-012	98006	Soil	14-JAN-2005 09:32	1.0	0.6649	1	2	1		
066	013_066	MSS	176983-002	98183	Soil	14-JAN-2005 10:05	1.0	0.6748		2	1		
067	013_067	SAMPLE	176915-002	98006	Soil	14-JAN-2005 10:38	20.0	0.6645	1		1		
068	013_068	MS	QC278804	98140	Soil	14-JAN-2005 11:12	1.0	0.6752			1		
069	013_069	MSD	QC278805	98140	Soil	14-JAN-2005 11:45	1.0	0.6689			1		
071	013_071	X	pcb250_50ug/			14-JAN-2005 12:51	1.0					1	

Stds used: 1=04WS1789 2=05WS0076 3=04WS1612 4=05WS0031 5=05WS0033

Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 176984 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 205018461 Instrument: GC06
Analytical Method: EPA 8082

Gas Chromatograph #6 ECD
SOP Version: PCB_rv3

Begun: 12-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
072	013_072	CCV	ccv			14-JAN-2005 13:28	1.0	1.0	1		1	1	
073	013_073	✓CCV	ar1254			14-JAN-2005 14:08	1.0	1.0			1	2	

353

Stds used: 1=04WS1789 2=05WS0076 3=04WS1612 4=05WS0031 5=05WS0033
Flags used: sh=out of sample hold

SEQUENCE SUMMARY FOR 176984 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 825019553 Instrument: GC25
Analytical Method: EPA 8082

Gas Chromatograph #25 ECD
SOP Version: PCB_rv3

Begun: 13-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
002	013_002	X	hex			13-JAN-2005 12:25	1.0						
003	013_003	ICAL	pcb10_2			13-JAN-2005 12:57	1.0	1.0				1	
004	013_004	ICAL	pcb25_5			13-JAN-2005 13:25	1.0	1.0				2	
005	013_005	ICAL	pcb100_20			13-JAN-2005 13:53	1.0	1.0				3	
006	013_006	ICAL	pcb250_50			13-JAN-2005 14:22	1.0	1.0				4	
007	013_007	ICAL	pcb500_100			13-JAN-2005 14:50	1.0	1.0				5	
008	013_008	ICAL	pcb750_150			13-JAN-2005 15:19	1.0	1.0				6	
009	013_009	ICAL	pcb1K_200			13-JAN-2005 16:05	1.0	1.0				7	
011	013_011	ICV	accu_1660			13-JAN-2005 17:02	1.0	1.0			1	8	
012	013_012	X	icv			13-JAN-2005 18:12	1.0					8	
013	013_013	X	arl254			13-JAN-2005 18:40	1.0					9	
014	013_014	ICAL	ccv - ICA L			13-JAN-2005 19:09	1.0	1.0				9	
016	013_016	BLANK	QC269970	95917	Soil	13-JAN-2005 20:06	1.0	0.6649	18		1	eh	
017	013_017	MDL	175502-001	95917	Soil	13-JAN-2005 20:35	1.0	0.6596	6		1	eh	
018	013_018	MDL	175502-002	95917	Soil	13-JAN-2005 21:03	1.0	0.668	6		1	eh	
019	013_019	MDL	175502-003	95917	Soil	13-JAN-2005 21:32	1.0	0.6684	6		1	eh	
020	013_020	MDL	175502-004	95917	Soil	13-JAN-2005 22:00	1.0	0.6693	6		1	eh	
021	013_021	MDL	175502-005	95917	Soil	13-JAN-2005 22:29	1.0	0.6684	6		1	eh	
022	013_022	MDL	175502-006	95917	Soil	13-JAN-2005 22:57	1.0	0.6725	6		1	eh	
023	013_023	MDL	175502-007	95917	Soil	13-JAN-2005 23:26	1.0	0.6702	6		1	eh	
024	013_024	MDL	175502-008	95917	Soil	13-JAN-2005 23:54	1.0	0.6757	6		1	eh	
026	013_026	X	arl254			14-JAN-2005 00:51	1.0					9	
027	013_027	CCV	ccv			14-JAN-2005 01:20	1.0	1.0			1	9	
029	013_029	BLANK	QC259513	93319	Water	14-JAN-2005 02:17	1.0						
030	013_030	SAMPLE	173258-001	93319	Water	14-JAN-2005 02:45	1.0						
031	013_031	SAMPLE	173258-002	93319	Water	14-JAN-2005 03:14	1.0						
032	013_032	SAMPLE	173258-003	93319	Water	14-JAN-2005 03:42	1.0						
033	013_033	SAMPLE	173258-004	93319	Water	14-JAN-2005 04:10	1.0						
034	013_034	SAMPLE	173258-005	93319	Water	14-JAN-2005 04:39	1.0						
035	013_035	SAMPLE	173258-006	93319	Water	14-JAN-2005 05:07	1.0						

Stds used: 1=05WS0029 2=05WS0030 3=05WS0031 4=05WS0032 5=05WS0033 6=05WS0034 7=05WS0035 8=04WS2171 9=04WS2370

Flags used: eh=out of extract hold

SEQUENCE SUMMARY FOR 176984 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 825019553 Instrument: GC25
Analytical Method: EPA 8082

Gas Chromatograph #25 ECD
SOP Version: PCB_rv3

Begun: 13-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
036	013_036	SAMPLE	173258-007	93319	Water	14-JAN-2005 05:36	1.0						
037	013_037	SAMPLE	173258-008	93319	Water	14-JAN-2005 06:04	1.0						
039	013_039	X	ar1254			14-JAN-2005 07:01	1.0					9	
040	013_040	CCV	ccv			14-JAN-2005 07:30	1.0	1.0			1	9	

355

Stds used: 1=05WS0029 2=05WS0030 3=05WS0031 4=05WS0032 5=05WS0033 6=05WS0034 7=05WS0035 8=04WS2171 9=04WS2370
Flags used: eh=out of extract hold

SEQUENCE SUMMARY FOR 176984 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 205021085 Instrument: GC06
Analytical Method: EPA 8082

Gas Chromatograph #6 ECD
SOP Version: PCB_rv3

Begun: 14-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
002	014_002	X	pcb250_50ug/			14-JAN-2005 15:25	1.0					1	
003	014_003	CCV	ccv			14-JAN-2005 16:12	1.0	1.0		1		1	
004	014_004	CCV	ar1254			14-JAN-2005 16:54	1.0	1.0		1		2	
005	014_005	CCV	ar 1242			14-JAN-2005 17:31	1.0	1.0		1		3	
007	014_007	BLANK	QC279507	98327	Soil	14-JAN-2005 19:41	1.0	0.8319		2	1		
008	014_008	LCS	QC279508	98327	Soil	14-JAN-2005 20:14	1.0	0.8344		2	1		
009	014_009	BS	QC279309	98271	Oil	14-JAN-2005 20:47	1.0	50.0		2	1		
010	014_010	BSD	QC279310	98271	Oil	14-JAN-2005 21:20	1.0	50.0		2	1		
012	014_012	SAMPLE	177147-001	98327	Soil	14-JAN-2005 22:27	1.0	0.8353		2	1		
013	014_013	MSS	177121-001	98327	Soil	14-JAN-2005 23:00	1.0	0.827		2	1		
014	014_014	MS	QC279509	98327	Soil	14-JAN-2005 23:33	1.0	0.8358		2	1		
015	014_015	MSD	QC279510	98327	Soil	15-JAN-2005 00:06	1.0	0.83		3	1		
016	014_016	MS	QC279174	98239	Soil	15-JAN-2005 00:40	1.0	0.8469		2	1		
017	014_017	MSD	QC279175	98239	Soil	15-JAN-2005 01:13	1.0	0.8418		2	1		
019	014_019	X	pcb100_20			15-JAN-2005 02:19	1.0					4	
020	014_020	X	ccv			15-JAN-2005 02:52	1.0					4	
021	014_021	X	ccv			15-JAN-2005 03:25	1.0					5	
022	014_022	CCV	ccv			15-JAN-2005 03:59	1.0	1.0		1		5	
023	014_023	CCV	ar1254			15-JAN-2005 04:32	1.0	1.0		1		2	
024	014_024	X	ccv			15-JAN-2005 05:05	1.0					2	
025	014_025	CCV	ar 1242			15-JAN-2005 05:38	1.0	1.0		1		3	
026	014_026	X	ccv			15-JAN-2005 06:11	1.0					3	
028	014_028	SAMPLE	176984-020	98140	Soil	15-JAN-2005 07:18	1.0	0.6658		2	1		
029	014_029	SAMPLE	176984-021	98140	Soil	15-JAN-2005 07:51	1.0	0.6662			1		
030	014_030	SAMPLE	176984-022	98140	Soil	15-JAN-2005 08:24	1.0	0.6618		2	1		
031	014_031	SAMPLE	176984-026	98140	Soil	15-JAN-2005 08:57	1.0						
032	014_032	SAMPLE	176984-027	98140	Soil	15-JAN-2005 09:30	1.0						
033	014_033	SAMPLE	176984-028	98140	Soil	15-JAN-2005 10:03	1.0	0.6716		2	1		
034	014_034	SAMPLE	176984-029	98140	Soil	15-JAN-2005 10:37	1.0						
035	014_035	SAMPLE	176984-030	98140	Soil	15-JAN-2005 11:10	1.0	0.6596		2	1		
036	014_036	SAMPLE	177097-001	98271	Oil	15-JAN-2005 11:43	1.0	49.90		2	1		

Stds used: 1=04WS1789 2=05WS0076 3=04WS1612 4=05WS0031 5=05WS0033

* Extract
+
hold

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SEQUENCE SUMMARY FOR 176984 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 205021085 Instrument: GC06
Analytical Method: EPA 8082

Gas Chromatograph #6 ECD
SOP Version: PCB_rv3

Begun: 14-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Std's Used	>LR
037	014_037	SAMPLE	177097-002	98271	Oil	15-JAN-2005 12:16	1.0	49.26		2	1		
039	014_039	X	pcb250_50ug/			15-JAN-2005 13:23	1.0					1	
040	014_040	CCV ↑	ccv			15-JAN-2005 13:56	1.0	1.0	4		1	1	
041	014_041	CCV	ar1254			15-JAN-2005 14:29	1.0	1.0	1		1	2	
042	014_042	X	ccv			15-JAN-2005 15:02	1.0					2	
044	014_044	SAMPLE	176961-009	98183	Soil	15-JAN-2005 16:09	1.0	0.6693			1		
045	014_045	SAMPLE	176961-010	98183	Soil	15-JAN-2005 16:42	1.0	0.6702		1	1		
046	014_046	SAMPLE	176961-011	98183	Soil	15-JAN-2005 17:15	1.0	0.6693			1		
047	014_047	SAMPLE	176961-013	98183	Soil	15-JAN-2005 17:48	1.0	0.6662		1	1		
048	014_048	SAMPLE	176961-014	98183	Soil	15-JAN-2005 18:22	1.0	0.6592		1	1		
049	014_049	SAMPLE	176961-015	98183	Soil	15-JAN-2005 18:55	1.0	0.6752		2	1		
053	014_053	X	pcb100_20			15-JAN-2005 21:08	1.0					4	
054	014_054	X	ccv			15-JAN-2005 21:41	1.0					4	
055	014_055	CCV	pcb500_100			15-JAN-2005 22:14	1.0	1.0	3		1	5	3:PCB126=585.535
056	014_056	X	ccv			15-JAN-2005 22:47	1.0					5	
057	014_057	X	ar1254			15-JAN-2005 23:21	1.0					2	
058	014_058	CCV	ccv			15-JAN-2005 23:54	1.0	1.0	1		1	2	

Std's used: 1=04WS1789 2=05WS0076 3=04WS1612 4=05WS0031 5=05WS0033

SEQUENCE SUMMARY FOR 176984 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 825025419 Instrument: GC25
Analytical Method: EPA 8082

Gas Chromatograph #25 ECD
SOP Version: PCB_rv3

Begun: 17-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	017_001	CCV	pcb250_50			17-JAN-2005 15:39	1.0	1.0			1	1	
002	017_002	CCV	ar1254			17-JAN-2005 16:23	1.0	1.0			1	2	
003	017_003	CCV	ar1242			17-JAN-2005 20:26	1.0	1.0			1	3	
004	017_004	X	ccv			17-JAN-2005 20:55	1.0					3	
006	017_006	BLANK	QC279507	98327	Soil	17-JAN-2005 21:52	1.0	0.8319		1	1		
007	017_007	LCS	QC279508	98327	Soil	17-JAN-2005 22:20	1.0	0.8344		1	1		
008	017_008	SAMPLE	176984-026	98140	Soil	17-JAN-2005 22:49	1.0	0.6693		2	1		
009	017_009	SAMPLE	176984-027	98140	Soil	17-JAN-2005 23:17	1.0	0.6689			1		
010	017_010	SAMPLE	176984-029	98140	Soil	17-JAN-2005 23:46	1.0	0.6734		1	1		
011	017_011	SAMPLE	177153-001	98327	Soil	18-JAN-2005 00:14	1.0	0.8319		1	1		
012	017_012	SAMPLE	177155-001	98327	Soil	18-JAN-2005 00:43	1.0	0.8333		2	1		
013	017_013	MSS	177121-001	98327	Soil	18-JAN-2005 01:11	1.0	0.827		1	1		
014	017_014	MS	QC279509	98327	Soil	18-JAN-2005 01:40	1.0	0.8358		1	1		
015	017_015	MSD	QC279510	98327	Soil	18-JAN-2005 02:08	1.0	0.83		2	1		
017	017_017	X	pcb100_20			18-JAN-2005 03:06	1.0					4	
018	017_018	X	ccv			18-JAN-2005 03:34	1.0					4	
019	017_019	CCV	ccv			18-JAN-2005 04:03	1.0	1.0			1	5	
020	017_020	CCV	ar1254			18-JAN-2005 04:31	1.0	1.0			1	2	
021	017_021	X	ccv			18-JAN-2005 05:00	1.0					2	
022	017_022	CCV	ar1242			18-JAN-2005 05:28	1.0	1.0			1	3	
023	017_023	X	ccv			18-JAN-2005 05:57	1.0					3	
025	017_025	SAMPLE	177118-001	98327	Soil	18-JAN-2005 08:57	1.0	0.8344	1	1	1	2:PCB101=1051.55	
026	017_026	SAMPLE	177118-002	98327	Soil	18-JAN-2005 09:25	1.0	0.8344		3	1		
027	017_027	SAMPLE	177118-003	98327	Soil	18-JAN-2005 09:53	1.0	0.8342		1	1		
028	017_028	SAMPLE	177156-001	98327	Soil	18-JAN-2005 10:22	1.0	0.8361		1	1		
029	017_029	SAMPLE	177158-001	98327	Soil	18-JAN-2005 10:50	1.0	0.8322		1	1		
030	017_030	MSS	176983-002	98183	Soil	18-JAN-2005 12:31	1.0	0.6748			1		
031	017_031	SAMPLE	176984-026	98140	Soil	18-JAN-2005 12:59	1.0	0.6693			1		
033	017_033	CCV	pcb250_50			18-JAN-2005 13:56	1.0	1.0			1	1	
034	017_034	X	ccv			18-JAN-2005 14:25	1.0					1	
035	017_035	CCV	ar1254			18-JAN-2005 14:53	1.0	1.0			1	2	

Stds used: 1=05WS0032 2=04WS2370 3=04WS1612 4=05WS0031 5=05WS0033

SEQUENCE SUMMARY FOR 176984 PCB Soil
Curtis & Tompkins Laboratories

Sequence: 825025419 Instrument: GC25
Analytical Method: EPA 8082

Gas Chromatograph #25 ECD
SOP Version: PCB_rv3

Begun: 17-JAN-2005

359

Stds used: 1=05WS0032 2=04WS2370 3=04WS1612 4=05WS0031 5=05WS0033

Curtis & Tompkins Laboratories Sample Preparation Summary

10-JAN-2005 11:49

Batch Number : 98140
Date Extracted: 08-JAN-2005
Extracted by : Kevin Riley
Prep Method : 3545

Analysis : PCB
Bgroup : N/A
Units : g
Clean-up :

Spike #1 ID : 04WS2446C
Spike #2 ID : 04WS2341A
Spike #3 ID : 04SS445I
SOP Version : PCB-ASE_rv0

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH D.F.	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176952-021		U.S. Army Corps of Engineers	Soil	14.81	g	10	0.675219	1	.02	0	0	8081, PCB	3620/3665	mss
176984-020		Ninyo & Moore	Soil	15.02	g	10	0.665779	1	.02	0	0	PCB	3665	
176984-021		Ninyo & Moore	Soil	15.01	g	10	0.666223	1	.02	0	0	PCB	3665	
176984-022		Ninyo & Moore	Soil	15.11	g	10	0.661813	1	.02	0	0	PCB	3665	
176984-026		Ninyo & Moore	Soil	14.94	g	10	0.669344	1	.02	0	0	PCB	3665	
176984-027		Ninyo & Moore	Soil	14.95	g	10	0.668896	1	.02	0	0	PCB	3665	
176984-028		Ninyo & Moore	Soil	14.89	g	10	0.671592	1	.02	0	0	PCB	3665	
176984-029		Ninyo & Moore	Soil	14.85	g	10	0.673401	1	.02	0	0	PCB	3665	
176984-030		Ninyo & Moore	Soil	15.16	g	10	0.659631	1	.02	0	0	PCB	3665	
176986-001		Montezuma Wetlands LLC	Soil	15.2	g	10	0.657895	1	.02	0	0	8081, PCB	3620/3665	
177024-004		Montezuma Wetlands LLC	Soil	15.08	g	10	0.663130	1	.02	0	0	8081, PCB	3620/3665	
QC278802	MB		Soil	15.15	g	10	0.660066	1	.02	0	0	PCB	3620/3665	for PCB and 8081
QC278803	LCS		Soil	14.87	g	10	0.672495	1	.02	.025	0	PCB	3665	
QC278804	MS	of 176952-021	Soil	14.81	g	10	0.675219	1	.02	.025	0	PCB	3665	
QC278805	MSD	of 176952-021	Soil	14.95	g	10	0.668896	1	.02	.025	0	PCB	3665	
QC278806	LCS		Soil	15.21	g	10	0.000000	1	.02	0	.025	8081	3620	
QC278807	MS	of 176952-021	Soil	15.23	g	10	0.000000	1	.02	0	.025	8081	3620	
QC278808	MSD	of 176952-021	Soil	14.81	g	10	0.000000	1	.02	0	.025	8081	3620	

Prep Chemist: JRD for KR 1/10/05

Reviewed By: Jessie Mee Date: 10 Jan 05

Relinquished By: Jessie Mee

Received By: [Signature] Date: 1/14/05

LIMS Batch No: 98140
 LIMS Analysis: ACB
 Extracted by: KR
 Date Extracted: 8 JAN 05

☐ EPA 3550b Sonication
☐ EPA 3540c Soxhlet
☒ EPA 3545 PFE (ASE Method# 10)
☐ Other _____

Page 56

Sample ID	Sample Wt (g)	Final Vol (mL)	Comments
MB QC 278807	15.15	10.0	
LCS 3	14.87		
MS 4	14.81		
MSD 5	14.95		
176952-021: A	14.81		MSS
176984-020: A	15.02		
21	15.01		
22	15.11		
26	14.94		
27	14.95		
28	14.89		
29	14.85		
30	15.16		
176986-001: A-D	15.20		
177024-004: A-D	15.08		
DM 10 Jan 05			

Mfg & Lot # / LIMS # / Time Initials / Date

Sand weighed out for QC samples dried with CH_2Cl_2 -rinsed ☐ granular Na_2SO_4 ☒ diatomaceous earth
0.02 mL of surrogate solution was added to all samples
0.025 mL of spike solution 1254 was added to all spikes
 1:1 CH_2Cl_2 (lot# EM44302): Acetone (lot# EM44233) was added to all
☐ sonicated 3 times w/ $\geq 100\text{mL}$ ☒ PFE extracted ☐ soxhlet extracted
 ASE Cellulose Filters used: Whatman D28
 PFE (ASE) / soxhlets on at: NA
 PFE (ASE) / soxhlets off at: NA
 Extracts filtered through baked, CH_2Cl_2 -rinsed granular Na_2SO_4
 Concentrated to volumes noted above after exchange to Hexane Lot# CM623
 EPA 3665A Clean-up: vortexed w/ 10mL H_2SO_4 Lot# STB A30036
 Centrifuged for 1 min; 10mL transferred to labelled vial
 Centrifuged for 1 min; 10mL transferred to labelled vial

Kr 8 JAN 05
 Extraction Chemist / Date

Continued from 361 page
 Continued on page _____

Jessie V Mee 10 Jan 05
 Reviewed by / Date

Continued from Page

10M
5 Jan 02

Continued on Page

Date _____

sample ID	Weight (g)	Analyses	Comments
176984-020 A	15.02	PKB	
-021	15.01		
-022	15.11		
-026	14.94		
-027	14.95		
-028	14.89		
-029	14.85		
↓ -030 ↓	15.16		
176986-001	15.20		comp A-D
MB	15.17		
UCS	15.10		
MS	15.05		176983-002A
MSD	14.99		↓
176961-003 A	49.59	TEH	
-005	49.80		
-008	49.94		
-011	50.11		
↓ -015 ↓	49.62		
176984-003 A	49.91		
-006	49.96		
-010	50.18		
-013	50.04		
-016	50.17		
-019	50.09		
-022	49.71		
-025	50.38		
-028	49.89		
-030	49.81		
-035	49.79		
↓ -040 ↓	49.95		
MB	49.99		
UCS	50.32		

AMS 11/7/05

Continued on Page

Read and Understood By

Aphewberg

Signed

1/7/05

Date

363

Signed

Date

Sample	ID	Weight (g)	Analysis	Comments
176952-021:A		14.81	8081/2	MSS
MS		14.81	PCB	
MSD		14.99	↓	
MS		15.23	8081	
MSD		14.81	↓	

Continued on Page

Read and Understood By

K. Key

Signed

8 JAN 05

Date

364

Signed

Date

Sample ID	Weight (g)	Analysis	Comments
177024-004	14.95	8081	Comp A-D
174024-004	15.08	PLB	↓
	32.17		aliasd 176772-007A, MS
	30.50		176772-008A
MB	29.63		
LLS	29.53		
MS	30.04		176772-007A
MSD	29.74		↓

Continued on Page

Read and Understood By

Andersson
Signed

1/7/05
Date

365

Signed

Date

Metals

Curtis & Tompkins Laboratories Analytical Report

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3010A
Project#:	400582002	Analysis:	EPA 6010B
Field ID:	B50-GW-1	Sampled:	01/05/05
Matrix:	Water	Received:	01/05/05
Units:	ug/L	Prepared:	01/06/05
Diln Fac:	1.000	Analyzed:	01/06/05
Batch#:	98062		

Type: SAMPLE Lab ID: 176984-037

Analyte	Result	RL
Chromium	ND	10
Lead	ND	3.0

Type: BLANK Lab ID: QC278528

Analyte	Result	RL
Chromium	ND	10
Lead	ND	3.0

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3010A
Project#:	400582002	Analysis:	EPA 6010B
Matrix:	Water	Batch#:	98062
Units:	ug/L	Prepared:	01/06/05
Diln Fac:	1.000	Analyzed:	01/06/05

Type: BS Lab ID: QC278529

Analyte	Spiked	Result	%REC	Limits
Chromium	200.0	200.0	100	80-120
Lead	100.0	101.0	101	61-138

Type: BSD Lab ID: QC278530

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Chromium	200.0	199.0	100	80-120	1	20
Lead	100.0	102.0	102	61-138	1	28

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3010A
Project#:	400582002	Analysis:	EPA 6010B
Field ID:	B50-GW-1	Batch#:	98062
MSS Lab ID:	176984-037	Sampled:	01/05/05
Matrix:	Water	Received:	01/05/05
Units:	ug/L	Prepared:	01/06/05
Diln Fac:	1.000	Analyzed:	01/06/05

Type: MS Lab ID: QC278531

Analyte	MSS Result	Spiked	Result	%REC	Limits
Chromium	<0.9220	200.0	207.0	104	73-120
Lead	<1.086	100.0	105.0	105	43-152

Type: MSD Lab ID: QC278532

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Chromium	200.0	195.0	98	73-120	6	20
Lead	100.0	98.60	99	43-152	6	36

REPORTING SUMMARY FOR 176984 METALS Water
Curtis & Tompkins Laboratories

Lab ID	Inst ID	AnalYZed	IDF	C R	P B	
176984-037	MET07	01/06/05 19:40	1.0	+	+	
QC278528	MET07	01/06/05 19:25	1.0	+	+	
QC278529	MET07	01/06/05 19:30	1.0	+	+	
QC278530	MET07	01/06/05 19:34	1.0	+	+	
QC278531	MET07	01/06/05 19:45	1.0	+	+	
QC278532	MET07	01/06/05 19:50	1.0	+	+	

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 75009061 Instrument: MET07
Analytical Method: EPA 6010B

TJA Trace ICP
SOP Version: 6010B_rv7

Begun: 06-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
001	tr259864	CS				06-JAN-2005 07:01	1.0	1.0				1	
002	tr259865	ICV				06-JAN-2005 07:06	1.0	1.0				2	
003	tr259866	ICB				06-JAN-2005 07:10	1.0	1.0					
004	tr259867	CRI				06-JAN-2005 07:15	1.0	1.0				3	
005	tr259868	ICSA				06-JAN-2005 07:23	1.0	1.0				4	4:MG=527800
006	tr259869	ICSAB				06-JAN-2005 07:27	1.0	1.0				5	5:AL=499300
007	tr259870	BLANK	QC278508	98058	Soil	06-JAN-2005 07:40	1.0	50.0					
008	tr259871	BS	QC278509	98058	Soil	06-JAN-2005 07:46	1.0	50.0	1				
009	tr259872	BSD	QC278510	98058	Soil	06-JAN-2005 07:50	1.0	50.0	1				
010	tr259873	MSS	176984-033	98058	Soil	06-JAN-2005 07:56	1.0	33.78	3				3:FE=376700
011	tr259874	SER	QC278513	98058	Soil	06-JAN-2005 08:01	5.0	33.78	1				
012	tr259875	MSS	176984-033	98058	Soil	06-JAN-2005 08:05	1.0	33.78	3				3:FE=376200
013	tr259876	MSS	176984-033	98058	Soil	06-JAN-2005 08:11	10.0	33.78	2				
014	tr259877	CCV				06-JAN-2005 08:16	1.0	1.0	1			6	
015	tr259878	CCB				06-JAN-2005 08:20	1.0	1.0					
016	tr259879	MS	QC278511	98058	Soil	06-JAN-2005 08:24	1.0	43.48	1				4:FE=343800
017	tr259880	MSD	QC278512	98058	Soil	06-JAN-2005 08:28	1.0	40.65		1			4:FE=332500
018	tr259881	SAMPLE	176966-001	98058	Miscel	06-JAN-2005 08:33	1.0	39.37					
019	tr259882	SAMPLE	176971-001	98058	Miscel	06-JAN-2005 08:37	1.0	38.46	1				1:ZN=7500.00
020	tr259883	SAMPLE	176971-001	98058	Miscel	06-JAN-2005 08:42	1.0	38.46	1				1:ZN=7550.00
021	tr259884	SAMPLE	176975-002	98058	Soil	06-JAN-2005 08:46	1.0	38.17					2:FE=606100
022	tr259885	SAMPLE	176971-001	98058	Miscel	06-JAN-2005 08:50	20.0	38.46					
023	tr259886	SAMPLE	176975-003	98058	Soil	06-JAN-2005 08:55	1.0	36.23					3:FE=430400
024	tr259887	SAMPLE	176975-004	98058	Soil	06-JAN-2005 08:59	1.0	49.02					2:FE=329300
025	tr259888	SAMPLE	176975-005	98058	Soil	06-JAN-2005 09:03	1.0	37.31					2:FE=465200
026	tr259889	CCV				06-JAN-2005 09:12	1.0	1.0	1			7	
027	tr259890	CCB				06-JAN-2005 09:28	1.0	1.0					
028	tr259891	SAMPLE	176975-006	98058	Soil	06-JAN-2005 09:33	1.0	26.46					3:FE=628900
029	tr259892	SAMPLE	176975-007	98058	Soil	06-JAN-2005 09:43	1.0	47.62					3:FE=337400
030	tr259893	SAMPLE	176984-029	98058	Soil	06-JAN-2005 09:47	1.0	42.02					4:CA=1404000
031	tr259894	SAMPLE	176984-031	98058	Soil	06-JAN-2005 09:51	1.0	46.30					5:FE=2208000

Stds used: 1=04WS2257 2=04WS2356 3=04WS2346 4=04WS2355 5=04WS2189 6=04WS2357 7=04WS2419 8=05WS0016

Analyst: J. Carlson Date: 1/6/05
Page 1 of 5

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 75009061 Instrument: MET07
Analytical Method: EPA 6010B

TJA Trace ICP
SOP Version: 6010B_rv7

Begun: 06-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
032	tr259895	SAMPLE	176984-032	98058	Soil	06-JAN-2005 09:55	1.0	53.76				4:FE=514800	
033	tr259896	SAMPLE	176984-034	98058	Soil	06-JAN-2005 10:00	1.0	54.35				2:FE=153200	
034	tr259897	SAMPLE	176964-001	98058	Miscel	06-JAN-2005 10:04	1.0	51.55	2			5:CA=2416000	
035	tr259898	SAMPLE	176964-002	98058	Miscel	06-JAN-2005 10:08	1.0	52.63	2			5:CA=2744000	
036	tr259899	SAMPLE	176964-001	98058	Miscel	06-JAN-2005 10:12	1.0	51.55	2			5:CA=2568000	
037	tr259900	SAMPLE	176964-001	98058	Miscel	06-JAN-2005 10:19	25.0	51.55				1:CA=206400	
038	tr259901	CCV				06-JAN-2005 10:26	1.0	1.0				6	
039	tr259902	CCB				06-JAN-2005 10:39	1.0	1.0				1:CA=225600	
040	tr259903	SAMPLE	176964-002	98058	Miscel	06-JAN-2005 10:43	25.0	52.63	1				
041	tr259904	SAMPLE	176940-001	98019	Filtra	06-JAN-2005 10:47	1.0	1.0	1			1:CA=105600	
042	tr259905	SAMPLE	176940-002	98019	Filtra	06-JAN-2005 10:51	1.0	1.0				3:MG=938700	
043	tr259906	SAMPLE	176962-002	98019	Filtra	06-JAN-2005 10:55	1.0	1.0					
044	tr259907	SAMPLE	176962-003	98019	Filtra	06-JAN-2005 10:59	1.0	1.0					
045	tr259908	SAMPLE	176962-004	98019	Filtra	06-JAN-2005 11:03	1.0	1.0					
046	tr259909	SAMPLE	176940-001	98019	Filtra	06-JAN-2005 11:07	1.0	1.0	1			3:MG=1008000	
047	tr259910	SAMPLE	176962-002	98019	Water	06-JAN-2005 11:11	1.0	1.0					
048	tr259911	SAMPLE	176962-003	98019	Water	06-JAN-2005 11:16	1.0	1.0					
049	tr259912	SAMPLE	176962-004	98019	Water	06-JAN-2005 11:20	1.0	1.0				7	
050	tr259913	CCV				06-JAN-2005 11:26	1.0	1.0					
051	tr259914	CCB				06-JAN-2005 11:31	1.0	1.0					
052	tr259915	X		98021	Water	06-JAN-2005 11:35	1.0	1.0					
053	tr259916	X		98021	Water	06-JAN-2005 11:39	1.0	1.0					
054	tr259917	MSS	176959-002	98021	Water	06-JAN-2005 11:45	1.0	1.0	1				
055	tr259918	SAMPLE	176959-008	98021	Water	06-JAN-2005 11:50	1.0	1.0					
056	tr259919	MS	QC278378	98021	Water	06-JAN-2005 11:55	1.0	1.0	1				
057	tr259920	MSD	QC278379	98021	Water	06-JAN-2005 11:59	1.0	1.0	1				
058	tr259921	SAMPLE	176959-009	98021	Water	06-JAN-2005 12:04	1.0	1.0					
059	tr259922	SAMPLE	176959-011	98021	Water	06-JAN-2005 12:08	1.0	1.0				5	5:MG=510600
060	tr259923	ICSAB				06-JAN-2005 12:22	1.0	1.0				6	
061	tr259924	CCV				06-JAN-2005 12:29	1.0	1.0	1				
062	tr259925	CCB				06-JAN-2005 12:33	1.0	1.0					

Stds used: 1=04WS2257 2=04WS2356 3=04WS2346 4=04WS2355 5=04WS2189 6=04WS2357 7=04WS2419 8=05WS0016

Analyst: *K Carlyn* Date: *1/6/05*
Page 2 of 5

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 75009061 Instrument: MET07
Analytical Method: EPA 6010B

TJA Trace ICP
SOP Version: 6010B_rv7

Begun: 06-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
063	tr259926	BLANK	QC278515	98059	Soil	06-JAN-2005 12:37	1.0	50.0					
064	tr259927	BS	QC278516	98059	Soil	06-JAN-2005 12:41	1.0	50.0	1				
065	tr259928	BSD	QC278517	98059	Soil	06-JAN-2005 12:45	1.0	50.0	1				
066	tr259929	MSS	176984-007	98059	Soil	06-JAN-2005 12:51	1.0	51.02	4			4:CA=1108000	
067	tr259930	SER	QC278520	98059	Soil	06-JAN-2005 12:57	5.0	51.02		2		1:CA=261500	
068	tr259931	MS	QC278518	98059	Soil	06-JAN-2005 13:01	1.0	38.17		1		6:CA=1399000	
069	tr259932	MSD	QC278519	98059	Soil	06-JAN-2005 13:05	1.0	48.08		1		7:CA=1167000	
070	tr259933	BLANK	QC278535	98064	Water	06-JAN-2005 13:21	1.0	1.0					
071	tr259934	BS	QC278536	98064	Water	06-JAN-2005 13:25	1.0	1.0	1				
072	tr259935	BSD	QC278537	98064	Water	06-JAN-2005 13:29	1.0	1.0	1				
073	tr259936	CCV				06-JAN-2005 13:35	1.0	1.0				7	
074	tr259937	CCB				06-JAN-2005 13:38	1.0	1.0					
075	tr259938	MSS	176975-001	98064	Water	06-JAN-2005 13:43	1.0	1.0					
076	tr259939	MS	QC278538	98064	Water	06-JAN-2005 13:47	1.0	1.0					
077	tr259940	MSD	QC278539	98064	Water	06-JAN-2005 13:51	1.0	1.0					
078	tr259941	SAMPLE	176975-008	98064	Water	06-JAN-2005 13:57	1.0	1.0				6	
079	tr259942	CCV				06-JAN-2005 14:01	1.0	1.0					
080	tr259943	CCB				06-JAN-2005 14:05	1.0	1.0				5	5:MG=508800
081	tr259945	ICSAB				06-JAN-2005 14:09	1.0	1.0					3:CA=1348000
082	tr259946	SAMPLE	176984-001	98059	Soil	06-JAN-2005 14:18	1.0	42.37					5:CA=1857000
083	tr259947	SAMPLE	176984-002	98059	Soil	06-JAN-2005 14:22	1.0	44.64					5:CA=1107000
084	tr259948	SAMPLE	176984-004	98059	Soil	06-JAN-2005 14:27	1.0	45.87					
085	tr259949	SAMPLE	176959-012	98021	Water	06-JAN-2005 14:50	1.0	1.0					3:CA=1382000
086	tr259950	SAMPLE	176984-005	98059	Soil	06-JAN-2005 14:55	1.0	40.65					3:FE=331000
087	tr259951	SAMPLE	176984-008	98059	Soil	06-JAN-2005 14:59	1.0	37.59					2:CA=2389000
088	tr259952	SAMPLE	176984-009	98059	Soil	06-JAN-2005 15:09	1.0	40.32					3:FE=359500
089	tr259953	SAMPLE	176984-011	98059	Soil	06-JAN-2005 15:13	1.0	40.98				5	5:MG=524100
090	tr259954	ICSAB				06-JAN-2005 15:18	1.0	1.0				7	
091	tr259955	CCV				06-JAN-2005 15:27	1.0	1.0	1				
092	tr259956	CCB				06-JAN-2005 15:32	1.0	1.0	1				2:FE=328500
093	tr259957	SAMPLE	176984-012	98059	Soil	06-JAN-2005 15:40	1.0	39.06					

Stds used: 1=04WS2257 2=04WS2356 3=04WS2346 4=04WS2355 5=04WS2189 6=04WS2357 7=04WS2419 8=05WS0016

Analyst: K Carlyn Date: 1/6/05
Page 3 of 5

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 75009061 Instrument: MET07
Analytical Method: EPA 6010B

TJA Trace ICP
SOP Version: 6010B_rv7

Begun: 06-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
094	tr259958	SAMPLE	176984-014	98059	Soil	06-JAN-2005 15:44	1.0	54.35				4:FE=4970000	
095	tr259959	SAMPLE	176984-015	98059	Soil	06-JAN-2005 15:49	1.0	47.17				2:FE=161700	
096	tr259960	SAMPLE	176984-017	98059	Soil	06-JAN-2005 15:53	1.0	34.72				3:FE=266200	
097	tr259961	SAMPLE	176984-018	98059	Soil	06-JAN-2005 15:57	1.0	49.02				2:FE=149200	
098	tr259962	SAMPLE	176984-020	98059	Soil	06-JAN-2005 16:02	1.0	38.17				6:FE=897100	
099	tr259963	SAMPLE	176984-021	98059	Soil	06-JAN-2005 16:06	1.0	45.87				5:CA=504100	
100	tr259964	SAMPLE	176984-023	98059	Soil	06-JAN-2005 16:11	1.0	37.59				5:CA=1403000	
101	tr259965	SAMPLE	176984-024	98059	Soil	06-JAN-2005 16:15	1.0	47.17				4:CA=1393000	
102	tr259966	SAMPLE	176984-026	98059	Soil	06-JAN-2005 16:19	1.0	45.87				4:CA=1139000	
103	tr259967	CCV				06-JAN-2005 16:28	1.0	1.0	1			6	
104	tr259968	CCB				06-JAN-2005 16:41	1.0	1.0					
105	tr259969	SAMPLE	176984-027	98059	Soil	06-JAN-2005 16:48	1.0	49.02				4:CA=1732000	
106	tr259970	SAMPLE	176965-001	98064	Water	06-JAN-2005 17:06	1.0	1.0				1:CA=181600	
107	tr259971	SAMPLE	176968-001	98064	Water	06-JAN-2005 17:10	1.0	1.0				2:MG=366100	
108	tr259972	SAMPLE	176969-001	98064	Water	06-JAN-2005 17:15	1.0	1.0				1:CA=109900	
109	tr259973	SAMPLE	176969-002	98064	Water	06-JAN-2005 17:19	1.0	1.0					
110	tr259974	SAMPLE	176969-003	98064	Water	06-JAN-2005 17:23	1.0	1.0					
111	tr259975	SAMPLE	176969-004	98064	Water	06-JAN-2005 17:28	1.0	1.0					
112	tr259976	SAMPLE	176969-005	98064	Water	06-JAN-2005 17:32	1.0	1.0	1			1:AS=20600.0	
113	tr259977	SAMPLE	176969-006	98064	Water	06-JAN-2005 17:36	1.0	1.0					
114	tr259978	SAMPLE	176969-007	98064	Water	06-JAN-2005 17:41	1.0	1.0					
115	tr259980	CCV				06-JAN-2005 17:55	1.0	1.0	1			8	
116	tr259981	CCB				06-JAN-2005 18:07	1.0	1.0					
117	tr259982	SAMPLE	176969-005	98064	Water	06-JAN-2005 18:21	2.0	1.0					
118	tr259983	SAMPLE	176969-008	98064	Water	06-JAN-2005 18:27	1.0	1.0					
119	tr259984	SAMPLE	176969-009	98064	Water	06-JAN-2005 18:31	1.0	1.0					
120	tr259985	SAMPLE	176969-010	98064	Water	06-JAN-2005 18:35	1.0	1.0					
121	tr259986	SAMPLE	176969-011	98064	Water	06-JAN-2005 18:40	1.0	1.0					
122	tr259987	SAMPLE	176969-012	98064	Water	06-JAN-2005 18:44	1.0	1.0					
123	tr259988	SAMPLE	176969-013	98064	Water	06-JAN-2005 18:49	1.0	1.0					
124	tr259989	SAMPLE	176969-014	98064	Water	06-JAN-2005 18:53	1.0	1.0					

Stds used: 1=04WS2257 2=04WS2356 3=04WS2346 4=04WS2355 5=04WS2189 6=04WS2357 7=04WS2419 8=05WS0016

Analyst: A. Carlson Date: 1/6/05
Page 4 of 5

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 06-JAN-2005

Sequence: 75009061 Instrument: MET07
Analytical Method: EPA 6010B

TJA Trace ICP
SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC SPK uL	Stds Used	>LR
125	tr259990	SAMPLE	176969-015	98064	Water	06-JAN-2005 18:57	1.0	1.0			
126	tr259991	SAMPLE	176972-001	98064	Water	06-JAN-2005 19:02	1.0	1.0		1:CA=129600	
127	tr259992	CCV				06-JAN-2005 19:07	1.0	1.0		6	
128	tr259993	CCB				06-JAN-2005 19:13	1.0	1.0			
129	tr259994	SAMPLE	176972-001	98064	Water	06-JAN-2005 19:17	1.0	1.0		1:CA=127100	
130	tr259995	BLANK	QC278528	98062	Water	06-JAN-2005 19:25	1.0	1.0			
131	tr259996	BS	QC278529	98062	Water	06-JAN-2005 19:30	1.0	1.0			
132	tr259997	BSD	QC278530	98062	Water	06-JAN-2005 19:34	1.0	1.0			
133	tr259998	MSS	176984-037	98062	Water	06-JAN-2005 19:40	1.0	1.0			
134	tr259999	MS	QC278531	98062	Water	06-JAN-2005 19:45	1.0	1.0			
135	tr260000	MSD	QC278532	98062	Water	06-JAN-2005 19:50	1.0	1.0		1:CA=171900	
136	tr260001	SAMPLE	176965-001	98062	Filtra	06-JAN-2005 19:56	1.0	1.0	1	1:CA=169800	
137	tr260002	SAMPLE	176965-001	98062	Filtra	06-JAN-2005 20:02	1.0	1.0		5	5:AL=520500
138	tr260003	ICSAB				06-JAN-2005 20:06	1.0	1.0		7	
139	tr260004	CCV				06-JAN-2005 20:13	1.0	1.0			
140	tr260005	CCB				06-JAN-2005 20:20	1.0	1.0			

Stds used: 1=04WS2257 2=04WS2356 3=04WS2346 4=04WS2355 5=04WS2189 6=04WS2357 7=04WS2419 8=05WS0016

Analyst: K Carlyn Date: 1/6/05
Page 5 of 5

Method: 6010B Standard: blank
Run Time: 01/06/05 06:54:26

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.002	-.000	-.001	.004	-.231	.005	.001
SDev	.003	.000	.001	.001	.000	.001	.000
%RSD	169.	173.	58.5	16.4	.043	25.9	53.2
#1	-.004	-.000	-.002	.005	-.232	.005	.000
#2	.000	.000	-.001	.004	-.231	.004	.001
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.001	.004	.001	-.002	.001	.002	-.003
SDev	.000	.001	.000	.001	.001	.001	.001
%RSD	70.6	19.7	4.31	35.2	57.4	53.5	40.5
#1	-.000	.004	.001	-.001	.001	.001	-.003
#2	-.001	.003	.001	-.002	.002	.003	-.002
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.003	-.002	-.002	.001	.020	.0517	-.0033
SDev	.001	.001	.001	.001	.000	.0001	.0000
%RSD	33.7	50.6	32.4	127.	.455	.2623	.3081
#1	.002	-.002	-.002	.001	.020	.0518	-.0033
#2	.004	-.001	-.002	.000	.020	.0516	-.0033
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0010	.0002	.001	.182			
SDev	.0005	.0003	.000	.000			
%RSD	51.82	159.1	44.3	.100			
#1	-.0007	.0004	.001	.182			
#2	-.0014	-.0000	.000	.182			

Method: 6010B Standard: cst hi
Run Time: 01/06/05 06:58:07

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.830	.441	.170	15.4	2.75	.864	.214
SDev	.004	.000	.001	.0	.01	.002	.001
%RSD	.418	.057	.790	.086	.357	.268	.378
#1	.832	.441	.171	15.4	2.74	.862	.213
#2	.827	.441	.169	15.4	2.76	.865	.214
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.603	.465	.660	.627	1.33	1.54	.188
SDev	.002	.001	.001	.002	.01	.00	.002
%RSD	.272	.161	.193	.312	.846	.130	.778
#1	.601	.464	.659	.625	1.32	1.54	.187
#2	.604	.465	.661	.628	1.33	1.54	.189
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.207	.266	.110	.806	.138	.1468	.2827
SDev	.000	.001	.001	.001	.000	.0001	.0008
%RSD	.118	.360	.630	.110	.235	.0681	.2978
#1	.207	.267	.109	.805	.138	.1469	.2821
#2	.207	.266	.110	.806	.138	.1468	.2832
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.1057	.1607	.958	6.66			
SDev	.0006	.0004	.002	.02			
%RSD	.5795	.2582	.152	.248			
#1	.1062	.1604	.957	6.65			
#2	.1053	.1610	.959	6.67			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	1195.75	2.24210	01/06/05 06:58:07
Sb206A	206.832	Multiple	Standards	2221.91	.423695	01/06/05 06:58:07
As1890	189.042	Multiple	Standards	2926.36	3.37633	01/06/05 06:58:07
Ba4934	493.409	Multiple	Standards	65.0123	-.275177	01/06/05 06:58:07
Be3130	313.042	Multiple	Standards	32.3907	7.49777	01/06/05 06:58:07
Cd2265	226.502	Multiple	Standards	116.342	-.533105	01/06/05 06:58:07
Cr2677	267.716	Multiple	Standards	939.614	-.606197	01/06/05 06:58:07
Co2286	228.616	Multiple	Standards	831.189	.421910	01/06/05 06:58:07
Cu3247	324.754	Multiple	Standards	433.553	-1.58816	01/06/05 06:58:07
Pb2203	220.351	Multiple	Standards	759.784	-1.09332	01/06/05 06:58:07
Pb220A	220.352	Multiple	Standards	788.641	1.40146	01/06/05 06:58:07
Mo2020	202.030	Multiple	Standards	754.823	-.941994	01/06/05 06:58:07
Ni2316	231.604	Multiple	Standards	324.255	-.596717	01/06/05 06:58:07
Se1960	196.021	Multiple	Standards	2628.56	6.62106	01/06/05 06:58:07
Se196A	196.022	Multiple	Standards	2449.84	-7.69647	01/06/05 06:58:07
Ag3280	328.068	Multiple	Standards	373.775	.565733	01/06/05 06:58:07
Tl1908	190.864	Multiple	Standards	4520.74	8.80308	01/06/05 06:58:07
V_2924	292.402	Multiple	Standards	621.058	-.394632	01/06/05 06:58:07
Zn2138	213.856	Multiple	Standards	874.245	-17.4082	01/06/05 06:58:07
Al3082	308.215	Multiple	Standards	10710.5	-554.147	01/06/05 06:58:07
Ca3179	317.933	Multiple	Standards	6994.05	23.0140	01/06/05 06:58:07
Fe2714	271.441	Multiple	Standards	9803.97	10.1617	01/06/05 06:58:07
Mg2790	279.079	Multiple	Standards	12454.8	-2.11091	01/06/05 06:58:07
Mn2576	257.610	Multiple	Standards	104.536	-.070810	01/06/05 06:58:07
Pb sum	220.353	NONE	NONE	1.00000	.000000	*01/06/05 06:58:07
Sb sum	206.838	NONE	NONE	1.00000	.000000	*01/06/05 06:58:07
Se sum	196.026	NONE	NONE	1.00000	.000000	*01/06/05 06:58:07
Ti3349	334.941	Multiple	Standards	154.453	-28.1667	01/06/05 06:58:07

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061001

Run Name :
Filename : tr259864

Injected : 06-JAN-2005 07:01
Caltpe :

Standards: 04WS2257

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	1000.000	983.1000	ug/L	-2	5	
Antimony	1000.000	986.0000	ug/L	-1	5	
Arsenic	500.0000	497.0000	ug/L	-1	5	
Barium	1000.000	979.0000	ug/L	-2	5	
Beryllium	100.0000	99.00000	ug/L	-1	5	
Cadmium	100.0000	99.10000	ug/L	-1	5	
Calcium	2000.000	1987.000	ug/L	-1	5	
Chromium	200.0000	197.0000	ug/L	-2	5	
Cobalt	500.0000	495.0000	ug/L	-1	5	
Copper	200.0000	197.0000	ug/L	-2	5	
Iron	1000.000	983.2000	ug/L	-2	5	
Lead	500.0000	496.0000	ug/L	-1	5	
Magnesium	2000.000	1985.000	ug/L	-1	5	
Manganese	100.0000	99.00000	ug/L	-1	5	
Molybdenum	1000.000	986.0000	ug/L	-1	5	
Nickel	500.0000	493.0000	ug/L	-1	5	
Selenium	500.0000	495.0000	ug/L	-1	5	
Silver	100.0000	98.60000	ug/L	-1	5	
Thallium	500.0000	499.0000	ug/L	0	5	
Titanium	1000.000	986.0000	ug/L	-1	5	
Vanadium	500.0000	494.0000	ug/L	-1	5	
Zinc	100.0000	98.60000	ug/L	-1	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061002

Run Name :
Filename : tr259865

Injected : 06-JAN-2005 07:06
Caltpe :

Standards: 04WS2356

Analyte	SpkAmt	QuantAmt	Units	%D	Max Flags
Aluminum	500.0000	523.2000	ug/L	5	10
Antimony	500.0000	507.0000	ug/L	1	10
Arsenic	250.0000	257.0000	ug/L	3	10
Barium	500.0000	491.0000	ug/L	-2	10
Beryllium	50.00000	50.50000	ug/L	1	10
Cadmium	50.00000	51.50000	ug/L	3	10
Calcium	1000.000	1032.000	ug/L	3	10
Chromium	100.0000	102.0000	ug/L	2	10
Cobalt	250.0000	250.0000	ug/L	0	10
Copper	100.0000	103.0000	ug/L	3	10
Iron	500.0000	522.9000	ug/L	5	10
Lead	250.0000	254.0000	ug/L	2	10
Magnesium	1000.000	1026.000	ug/L	3	10
Manganese	50.00000	49.70000	ug/L	-1	10
Molybdenum	500.0000	508.0000	ug/L	2	10
Nickel	250.0000	255.0000	ug/L	2	10
Selenium	250.0000	247.0000	ug/L	-1	10
Silver	50.00000	51.10000	ug/L	2	10
Thallium	250.0000	247.0000	ug/L	-1	10
Titanium	500.0000	492.0000	ug/L	-2	10
Vanadium	250.0000	250.0000	ug/L	0	10
Zinc	50.00000	51.90000	ug/L	4	10

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061003
Filename: tr259866

TJA Trace ICP
Run Name:
Run Type: ICB

Injected: 06-JAN-2005 07:10

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND	100.0000		ug/L	<	RL
Antimony	ND	60.00000		ug/L	<	RL
Arsenic	[2.6900]	5.000000		ug/L	<	RL
Barium	ND	10.00000		ug/L	<	RL
Beryllium	ND	2.000000		ug/L	<	RL
Cadmium	ND	5.000000		ug/L	<	RL
Calcium	ND	500.0000		ug/L	<	RL
Chromium	ND	10.00000		ug/L	<	RL
Cobalt	ND	10.00000		ug/L	<	RL
Copper	ND	10.00000		ug/L	<	RL
Iron	ND	100.0000		ug/L	<	RL
Lead	ND	3.000000		ug/L	<	RL
Magnesium	ND	500.0000		ug/L	<	RL
Manganese	ND	10.00000		ug/L	<	RL
Molybdenum	[3.1200]	20.00000		ug/L	<	RL
Nickel	ND	20.00000		ug/L	<	RL
Selenium	ND	5.000000		ug/L	<	RL
Silver	ND	5.000000		ug/L	<	RL
Thallium	ND	5.000000		ug/L	<	RL
Titanium	[1.2200]	10.00000		ug/L	<	RL
Vanadium	ND	10.00000		ug/L	<	RL
Zinc	ND	20.00000		ug/L	<	RL

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061004

Run Name :
Filename : tr259867

Injected : 06-JAN-2005 07:15
Caltype :

Standards: 04WS2346

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D Flags
Aluminum	100.0000	122.6000	ug/L	23	50
Antimony	60.00000	64.80000	ug/L	8	50
Arsenic	5.000000	5.220000	ug/L	4	50
Barium	10.00000	9.550000	ug/L	-5	50
Beryllium	2.000000	1.620000	ug/L	-19	50
Cadmium	5.000000	4.880000	ug/L	-2	50
Calcium	200.0000	223.0000	ug/L	12	50
Chromium	10.00000	9.770000	ug/L	-2	50
Cobalt	20.00000	19.20000	ug/L	-4	50
Copper	10.00000	10.30000	ug/L	3	50
Iron	100.0000	90.45000	ug/L	-10	50
Lead	3.000000	3.300000	ug/L	10	50
Magnesium	200.0000	204.1000	ug/L	2	50
Manganese	10.00000	9.750000	ug/L	-3	50
Molybdenum	20.00000	20.90000	ug/L	5	50
Nickel	20.00000	19.80000	ug/L	-1	50
Selenium	5.000000	5.430000	ug/L	9	50
Silver	5.000000	4.900000	ug/L	-2	50
Thallium	5.000000	5.860000	ug/L	17	50
Vanadium	10.00000	9.640000	ug/L	-4	50
Zinc	20.00000	21.10000	ug/L	6	50

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061005
Filename: tr259868

TJA Trace ICP
Run Name:
Run Type: ICSA

Injected: 06-JAN-2005 07:23

Analyte	QuantAmt	RL	Units	Req	Flags
Antimony	[4.9900]	60.00000	ug/L	<	RL
Arsenic	[3.1500]	5.000000	ug/L	<	RL
Barium	[-0.040]	10.00000	ug/L	<	RL
Beryllium	[-0.889]	2.000000	ug/L	<	RL
Cadmium	[0.6820]	5.000000	ug/L	<	RL
Chromium	[2.4800]	10.00000	ug/L	<	RL
Cobalt	[0.2110]	10.00000	ug/L	<	RL
Copper	[-3.300]	10.00000	ug/L	<	RL
Lead	[-0.214]	3.000000	ug/L	<	RL
Manganese	[1.8700]	10.00000	ug/L	<	RL
Molybdenum	[-0.402]	20.00000	ug/L	<	RL
Nickel	[1.8300]	20.00000	ug/L	<	RL
Selenium	[1.3300]	5.000000	ug/L	<	RL
Silver	[0.2890]	5.000000	ug/L	<	RL
Thallium	[4.1200]	5.000000	ug/L	<	RL
Titanium	19.50000	10.00000	ug/L	<	RL
Vanadium	[-3.210]	10.00000	ug/L	<	RL
Zinc	[3.8900]	20.00000	ug/L	<	RL

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	500000	525200	ug/L	105
Calcium	500000	454100.	ug/L	91
Iron	200000	182200	ug/L	91
Magnesium	500000	527800	ug/L	106

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061006

Run Name :
Filename : tr259869

Injected : 06-JAN-2005 07:27
Caltype :

Standards: 04WS2189

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	499300.0	ug/L	0			
Antimony	500.0000	503.0000	ug/L	1	20		
Arsenic	500.0000	498.0000	ug/L	0	20		
Barium	500.0000	464.0000	ug/L	-7	20		
Beryllium	500.0000	466.0000	ug/L	-7	20		
Cadmium	1000.000	877.0000	ug/L	-12	20		
Calcium	500000.0	431300.0	ug/L	-14			
Chromium	500.0000	447.0000	ug/L	-11	20		
Cobalt	500.0000	446.0000	ug/L	-11	20		
Copper	500.0000	497.0000	ug/L	-1	20		
Iron	200000.0	172400.0	ug/L	-14			
Lead	1000.000	913.0000	ug/L	-9	20		
Magnesium	500000.0	495100.0	ug/L	-1			
Manganese	500.0000	446.0000	ug/L	-11	20		
Molybdenum	500.0000	463.0000	ug/L	-7	20		
Nickel	1000.000	845.0000	ug/L	-16	20		
Selenium	500.0000	509.0000	ug/L	2	20		
Silver	1000.000	902.0000	ug/L	-10	20		
Thallium	500.0000	467.0000	ug/L	-7	20		
Titanium	20000.00	19900.00	ug/L	-1			
Vanadium	500.0000	458.0000	ug/L	-8	20		
Zinc	1000.000	928.0000	ug/L	-7	20		

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061014

Run Name :
Filename : tr259877

IDF : 1.0
Injected : 06-JAN-2005 08:16
Caltpe :

Standards: 04WS2357

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flag
Aluminum		500.0000	496.5000	ug/L	-1		10	
Antimony		500.0000	502.0000	ug/L	0		10	
Arsenic		250.0000	256.0000	ug/L	2		10	
Barium		500.0000	471.0000	ug/L	-6		10	
Beryllium		50.00000	51.60000	ug/L	3		10	
Cadmium		50.00000	51.60000	ug/L	3		10	
Calcium		1000.000	1038.000	ug/L	4		10	
Chromium		100.0000	103.0000	ug/L	3		10	
Cobalt		250.0000	254.0000	ug/L	2		10	
Copper		100.0000	103.0000	ug/L	3		10	
Iron		500.0000	566.0000	ug/L	13		10	c+ *
Lead		250.0000	260.0000	ug/L	4		10	
Magnesium		1000.000	1039.000	ug/L	4		10	
Manganese		50.00000	51.00000	ug/L	2		10	
Molybdenum		500.0000	520.0000	ug/L	4		10	
Nickel		250.0000	259.0000	ug/L	4		10	
Selenium		250.0000	251.0000	ug/L	0		10	
Silver		50.00000	50.90000	ug/L	2		10	
Thallium		250.0000	250.0000	ug/L	0		10	
Titanium		500.0000	491.0000	ug/L	-2		10	
Vanadium		250.0000	251.0000	ug/L	0		10	
Zinc		50.00000	53.90000	ug/L	8		10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061015
Filename: tr259878

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 08:20

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[4.1300]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	ND		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[23.360]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	[16.120]		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[8.9900]		500.0000	ug/L	<	RL
Manganese	[0.5050]		10.00000	ug/L	<	RL
Molybdenum	[2.3100]		20.00000	ug/L	<	RL
Nickel	ND		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[2.4300]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07 Run Name : IDF : 1.0
Seqnum : 75009061026 Filename : tr259889 Injected : 06-JAN-2005 09:12
Caltpe :

Standards: 04WS2419

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	739.5000	ug/L	-1	10	
Antimony		750.0000	720.0000	ug/L	-4	10	
Arsenic		375.0000	367.0000	ug/L	-2	10	
Barium		750.0000	687.0000	ug/L	-8	10	
Beryllium		75.00000	75.00000	ug/L	0	10	
Cadmium		75.00000	74.50000	ug/L	-1	10	
Calcium		1500.000	1471.000	ug/L	-2	10	
Chromium		150.0000	149.0000	ug/L	-1	10	
Cobalt		375.0000	364.0000	ug/L	-3	10	
Copper		150.0000	146.0000	ug/L	-3	10	
Iron		750.0000	914.2000	ug/L	22	10	c+ **
Lead		375.0000	375.0000	ug/L	0	10	
Magnesium		1500.000	1496.000	ug/L	0	10	
Manganese		75.00000	75.90000	ug/L	1	10	
Molybdenum		750.0000	725.0000	ug/L	-3	10	
Nickel		375.0000	371.0000	ug/L	-1	10	
Selenium		375.0000	369.0000	ug/L	-2	10	
Silver		75.00000	73.90000	ug/L	-1	10	
Thallium		375.0000	367.0000	ug/L	-2	10	
Titanium		750.0000	723.0000	ug/L	-4	10	
Vanadium		375.0000	360.0000	ug/L	-4	10	
Zinc		75.00000	76.90000	ug/L	3	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061027
Filename: tr259890

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 09:28

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	ND		60.00000	ug/L	<	RL
Arsenic	[2.8900]		5.000000	ug/L	<	RL
Barium	ND		10.00000	ug/L	<	RL
Beryllium	[0.3800]		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[17.910]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	[14.080]		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	ND		500.0000	ug/L	<	RL
Manganese	ND		10.00000	ug/L	<	RL
Molybdenum	[1.5800]		20.00000	ug/L	<	RL
Nickel	ND		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[1.4500]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07 Run Name : IDF : 1.0
Seqnum : 75009061038 Filename : tr259901 Injected : 06-JAN-2005 10:26
Caltype :
Standards: 04WS2357

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	479.5000	ug/L	-4	10	
Antimony		500.0000	470.0000	ug/L	-6	10	
Arsenic		250.0000	240.0000	ug/L	-4	10	
Barium		500.0000	457.0000	ug/L	-9	10	
Beryllium		50.00000	47.40000	ug/L	-5	10	
Cadmium		50.00000	48.60000	ug/L	-3	10	
Calcium		1000.000	1090.000	ug/L	9	10	
Chromium		100.0000	95.80000	ug/L	-4	10	
Cobalt		250.0000	232.0000	ug/L	-7	10	
Copper		100.0000	95.70000	ug/L	-4	10	
Iron		500.0000	470.5000	ug/L	-6	10	
Lead		250.0000	239.0000	ug/L	-4	10	
Magnesium		1000.000	980.9000	ug/L	-2	10	
Manganese		50.00000	45.30000	ug/L	-9	10	
Molybdenum		500.0000	469.0000	ug/L	-6	10	
Nickel		250.0000	241.0000	ug/L	-4	10	
Selenium		250.0000	232.0000	ug/L	-7	10	
Silver		50.00000	48.50000	ug/L	-3	10	
Thallium		250.0000	226.0000	ug/L	-10	10	
Titanium		500.0000	459.0000	ug/L	-8	10	
Vanadium		250.0000	235.0000	ug/L	-6	10	
Zinc		50.00000	51.30000	ug/L	3	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061039
Filename: tr259902

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 10:39

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	ND		60.00000	ug/L	<	RL
Arsenic	[3.3500]		5.000000	ug/L	<	RL
Barium	ND		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[20.810]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	ND		500.0000	ug/L	<	RL
Manganese	ND		10.00000	ug/L	<	RL
Molybdenum	[1.4600]		20.00000	ug/L	<	RL
Nickel	ND		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[8.5000]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Segnum : 75009061050

Run Name :
Filename : tr259913

IDF : 1.0
Injected : 06-JAN-2005 11:26
Caltpe :

Standards: 04WS2419

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	742.5000	ug/L	-1	10	
Antimony		750.0000	753.0000	ug/L	0	10	
Arsenic		375.0000	384.0000	ug/L	2	10	
Barium		750.0000	755.0000	ug/L	1	10	
Beryllium		75.00000	76.10000	ug/L	1	10	
Cadmium		75.00000	77.80000	ug/L	4	10	
Calcium		1500.000	1458.000	ug/L	-3	10	
Chromium		150.0000	152.0000	ug/L	1	10	
Cobalt		375.0000	371.0000	ug/L	-1	10	
Copper		150.0000	152.0000	ug/L	1	10	
Iron		750.0000	759.6000	ug/L	1	10	
Lead		375.0000	378.0000	ug/L	1	10	
Magnesium		1500.000	1539.000	ug/L	3	10	
Manganese		75.00000	74.10000	ug/L	-1	10	
Molybdenum		750.0000	733.0000	ug/L	-2	10	
Nickel		375.0000	382.0000	ug/L	2	10	
Selenium		375.0000	378.0000	ug/L	1	10	
Silver		75.00000	76.60000	ug/L	2	10	
Thallium		375.0000	372.0000	ug/L	-1	10	
Titanium		750.0000	755.0000	ug/L	1	10	
Vanadium		375.0000	372.0000	ug/L	-1	10	
Zinc		75.00000	78.70000	ug/L	5	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061051
Filename: tr259914

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 11:31

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	[4.2200]	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[0.6060]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[16.940]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[16.270]	500.0000	ug/L	<RL	
Manganese	[0.4750]	10.00000	ug/L	<RL	
Molybdenum	[6.1800]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[8.1700]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061060

Run Name :
Filename : tr259923

Injected : 06-JAN-2005 12:22
Caltype :

Standards: 04WS2189

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	497400.0	ug/L	-1			
Antimony	500.0000	541.0000	ug/L	8	20		
Arsenic	500.0000	536.0000	ug/L	7	20		
Barium	500.0000	511.0000	ug/L	2	20		
Beryllium	500.0000	477.0000	ug/L	-5	20		
Cadmium	1000.000	954.0000	ug/L	-5	20		
Calcium	500000.0	417000.0	ug/L	-17			
Chromium	500.0000	475.0000	ug/L	-5	20		
Cobalt	500.0000	466.0000	ug/L	-7	20		
Copper	500.0000	510.0000	ug/L	2	20		
Iron	200000.0	179000.0	ug/L	-11			
Lead	1000.000	958.0000	ug/L	-4	20		
Magnesium	500000.0	510600.0	ug/L	2			
Manganese	500.0000	454.0000	ug/L	-9	20		
Molybdenum	500.0000	489.0000	ug/L	-2	20		
Nickel	1000.000	916.0000	ug/L	-8	20		
Selenium	500.0000	532.0000	ug/L	6	20		
Silver	1000.000	936.0000	ug/L	-6	20		
Thallium	500.0000	510.0000	ug/L	2	20		
Titanium	20000.00	21000.00	ug/L	5			
Vanadium	500.0000	479.0000	ug/L	-4	20		
Zinc	1000.000	984.0000	ug/L	-2	20		

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07 Run Name : IDF : 1.0
Seqnum : 75009061061 Filename : tr259924 Injected : 06-JAN-2005 12:29
Caltype :
Standards: 04WS2357

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	557.6000	ug/L	12	10	c+ **
Antimony		500.0000	516.0000	ug/L	3	10	
Arsenic		250.0000	263.0000	ug/L	5	10	
Barium		500.0000	520.0000	ug/L	4	10	
Beryllium		50.00000	51.50000	ug/L	3	10	
Cadmium		50.00000	52.90000	ug/L	6	10	
Calcium		1000.000	982.2000	ug/L	-2	10	
Chromium		100.0000	103.0000	ug/L	3	10	
Cobalt		250.0000	249.0000	ug/L	0	10	
Copper		100.0000	103.0000	ug/L	3	10	
Iron		500.0000	528.0000	ug/L	6	10	
Lead		250.0000	255.0000	ug/L	2	10	
Magnesium		1000.000	1063.000	ug/L	6	10	
Manganese		50.00000	48.60000	ug/L	-3	10	
Molybdenum		500.0000	504.0000	ug/L	1	10	
Nickel		250.0000	261.0000	ug/L	4	10	
Selenium		250.0000	250.0000	ug/L	0	10	
Silver		50.00000	51.00000	ug/L	2	10	
Thallium		250.0000	253.0000	ug/L	1	10	
Titanium		500.0000	506.0000	ug/L	1	10	
Vanadium		250.0000	250.0000	ug/L	0	10	
Zinc		50.00000	53.50000	ug/L	7	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061062
Filename: tr259925

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 12:33

Analyte	QuantAmt	RL	Units	Reg	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[5.1100]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[1.5500]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[27.320]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[13.340]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[35.680]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[3.3500]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[6.9800]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instdid : MET07
Seqnum : 75009061073

Run Name :
Filename : tr259936

IDF : 1.0
Injected : 06-JAN-2005 13:35
Caltype :

Standards: 04WS2419

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	742.4000	ug/L	-1		10	
Antimony		750.0000	771.0000	ug/L	3		10	
Arsenic		375.0000	395.0000	ug/L	5		10	
Barium		750.0000	781.0000	ug/L	4		10	
Beryllium		75.00000	75.00000	ug/L	0		10	
Cadmium		75.00000	79.90000	ug/L	7		10	
Calcium		1500.000	1369.000	ug/L	-9		10	
Chromium		150.0000	151.0000	ug/L	1		10	
Cobalt		375.0000	366.0000	ug/L	-2		10	
Copper		150.0000	149.0000	ug/L	-1		10	
Iron		750.0000	757.5000	ug/L	1		10	
Lead		375.0000	379.0000	ug/L	1		10	
Magnesium		1500.000	1515.000	ug/L	1		10	
Manganese		75.00000	70.70000	ug/L	-6		10	
Molybdenum		750.0000	736.0000	ug/L	-2		10	
Nickel		375.0000	390.0000	ug/L	4		10	
Selenium		375.0000	390.0000	ug/L	4		10	
Silver		75.00000	74.80000	ug/L	0		10	
Thallium		375.0000	384.0000	ug/L	2		10	
Titanium		750.0000	754.0000	ug/L	1		10	
Vanadium		375.0000	366.0000	ug/L	-2		10	
Zinc		75.00000	79.10000	ug/L	5		10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061074
Filename: tr259937

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 13:38

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[5.3000]		60.00000	ug/L	<	RL
Arsenic	[3.2100]		5.000000	ug/L	<	RL
Barium	[0.5270]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	ND		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	[1.1700]		3.000000	ug/L	<	RL
Magnesium	[14.200]		500.0000	ug/L	<	RL
Manganese	ND		10.00000	ug/L	<	RL
Molybdenum	[7.3600]		20.00000	ug/L	<	RL
Nickel	ND		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[6.0500]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061079

Run Name :
Filename : tr259942

IDF : 1.0
Injected : 06-JAN-2005 14:01
Caltype :

Standards: 04WS2357

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	531.0000	ug/L	6		10	
Antimony		500.0000	531.0000	ug/L	6		10	
Arsenic		250.0000	271.0000	ug/L	8		10	
Barium		500.0000	539.0000	ug/L	8		10	
Beryllium		50.00000	50.90000	ug/L	2		10	
Cadmium		50.00000	54.60000	ug/L	9		10	
Calcium		1000.000	916.7000	ug/L	-8		10	
Chromium		100.0000	104.0000	ug/L	4		10	
Cobalt		250.0000	250.0000	ug/L	0		10	
Copper		100.0000	102.0000	ug/L	2		10	
Iron		500.0000	504.0000	ug/L	1		10	
Lead		250.0000	260.0000	ug/L	4		10	
Magnesium		1000.000	1028.000	ug/L	3		10	
Manganese		50.00000	47.70000	ug/L	-5		10	
Molybdenum		500.0000	516.0000	ug/L	3		10	
Nickel		250.0000	268.0000	ug/L	7		10	
Selenium		250.0000	260.0000	ug/L	4		10	
Silver		50.00000	50.50000	ug/L	1		10	
Thallium		250.0000	263.0000	ug/L	5		10	
Titanium		500.0000	508.0000	ug/L	2		10	
Vanadium		250.0000	250.0000	ug/L	0		10	
Zinc		50.00000	54.50000	ug/L	9		10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061080
Filename: tr259943

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 14:05

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[76.640]	100.0000	ug/L	<RL		
Antimony	[3.8000]	60.00000	ug/L	<RL		
Arsenic	[4.1100]	5.000000	ug/L	<RL		
Barium	ND	10.00000	ug/L	<RL		
Beryllium	[0.5680]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	ND	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[12.000]	100.0000	ug/L	<RL		
Lead	[1.2700]	3.000000	ug/L	<RL		
Magnesium	[12.780]	500.0000	ug/L	<RL		
Manganese	ND	10.00000	ug/L	<RL		
Molybdenum	[2.7800]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[5.6600]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061081

Run Name :
Filename : tr259945

Injected : 06-JAN-2005 14:09
Caltpe :

Standards: 04WS2189

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	487600.0	ug/L	-2			
Antimony	500.0000	556.0000	ug/L	11	20		
Arsenic	500.0000	546.0000	ug/L	9	20		
Barium	500.0000	531.0000	ug/L	6	20		
Beryllium	500.0000	476.0000	ug/L	-5	20		
Cadmium	1000.000	989.0000	ug/L	-1	20		
Calcium	500000.0	402900.0	ug/L	-19			
Chromium	500.0000	475.0000	ug/L	-5	20		
Cobalt	500.0000	464.0000	ug/L	-7	20		
Copper	500.0000	505.0000	ug/L	1	20		
Iron	200000.0	178100.0	ug/L	-11			
Lead	1000.000	966.0000	ug/L	-3	20		
Magnesium	500000.0	508800.0	ug/L	2			
Manganese	500.0000	442.0000	ug/L	-12	20		
Molybdenum	500.0000	496.0000	ug/L	-1	20		
Nickel	1000.000	938.0000	ug/L	-6	20		
Selenium	500.0000	542.0000	ug/L	8	20		
Silver	1000.000	925.0000	ug/L	-8	20		
Thallium	500.0000	519.0000	ug/L	4	20		
Titanium	20000.00	21100.00	ug/L	6			
Vanadium	500.0000	477.0000	ug/L	-5	20		
Zinc	1000.000	1000.000	ug/L	0	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061090

Run Name :
Filename : tr259954

Injected : 06-JAN-2005 15:18
Caltpe :

Standards: 04WS2189

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	491200.0	ug/L	-2			
Antimony	500.0000	575.0000	ug/L	15	20		
Arsenic	500.0000	573.0000	ug/L	15	20		
Barium	500.0000	561.0000	ug/L	12	20		
Beryllium	500.0000	487.0000	ug/L	-3	20		
Cadmium	1000.000	1040.000	ug/L	4	20		
Calcium	500000.0	406000.0	ug/L	-19			
Chromium	500.0000	491.0000	ug/L	-2	20		
Cobalt	500.0000	478.0000	ug/L	-4	20		
Copper	500.0000	518.0000	ug/L	4	20		
Iron	200000.0	183000.0	ug/L	-9			
Lead	1000.000	992.0000	ug/L	-1	20		
Magnesium	500000.0	524100.0	ug/L	5			
Manganese	500.0000	452.0000	ug/L	-10	20		
Molybdenum	500.0000	507.0000	ug/L	1	20		
Nickel	1000.000	984.0000	ug/L	-2	20		
Selenium	500.0000	553.0000	ug/L	11	20		
Silver	1000.000	947.0000	ug/L	-5	20		
Thallium	500.0000	535.0000	ug/L	7	20		
Titanium	20000.00	21900.00	ug/L	10			
Vanadium	500.0000	492.0000	ug/L	-2	20		
Zinc	1000.000	1060.000	ug/L	6	20		

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061091

Run Name :
Filename : tr259955

IDF : 1.0
Injected : 06-JAN-2005 15:27
Caltpe :

Standards: 04WS2419

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	743.5000	ug/L	-1	10	
Antimony		750.0000	756.0000	ug/L	1	10	
Arsenic		375.0000	388.0000	ug/L	3	10	
Barium		750.0000	799.0000	ug/L	7	10	
Beryllium		75.00000	71.70000	ug/L	-4	10	
Cadmium		75.00000	78.90000	ug/L	5	10	
Calcium		1500.000	1350.000	ug/L	-10	10	
Chromium		150.0000	145.0000	ug/L	-3	10	
Cobalt		375.0000	350.0000	ug/L	-7	10	
Copper		150.0000	142.0000	ug/L	-5	10	
Iron		750.0000	745.2000	ug/L	-1	10	
Lead		375.0000	361.0000	ug/L	-4	10	
Magnesium		1500.000	1463.000	ug/L	-2	10	
Manganese		75.00000	66.50000	ug/L	-11	10	c- **
Molybdenum		750.0000	707.0000	ug/L	-6	10	
Nickel		375.0000	382.0000	ug/L	2	10	
Selenium		375.0000	376.0000	ug/L	0	10	
Silver		75.00000	72.00000	ug/L	-4	10	
Thallium		375.0000	372.0000	ug/L	-1	10	
Titanium		750.0000	734.0000	ug/L	-2	10	
Vanadium		375.0000	348.0000	ug/L	-7	10	
Zinc		75.00000	77.10000	ug/L	3	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061092
Filename: tr259956

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 15:32

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	108.9000		100.0000	ug/L	<RL	ib ***
Antimony	[6.3300]		60.00000	ug/L	<RL	
Arsenic	ND		5.000000	ug/L	<RL	
Barium	[0.5030]		10.00000	ug/L	<RL	
Beryllium	ND		2.000000	ug/L	<RL	
Cadmium	ND		5.000000	ug/L	<RL	
Calcium	[33.680]		500.0000	ug/L	<RL	
Chromium	ND		10.00000	ug/L	<RL	
Cobalt	ND		10.00000	ug/L	<RL	
Copper	ND		10.00000	ug/L	<RL	
Iron	[18.970]		100.0000	ug/L	<RL	
Lead	[1.3000]		3.000000	ug/L	<RL	
Magnesium	[28.150]		500.0000	ug/L	<RL	
Manganese	[0.4690]		10.00000	ug/L	<RL	
Molybdenum	[5.5800]		20.00000	ug/L	<RL	
Nickel	ND		20.00000	ug/L	<RL	
Selenium	ND		5.000000	ug/L	<RL	
Silver	ND		5.000000	ug/L	<RL	
Thallium	ND		5.000000	ug/L	<RL	
Titanium	[6.9500]		10.00000	ug/L	<RL	
Vanadium	ND		10.00000	ug/L	<RL	
Zinc	ND		20.00000	ug/L	<RL	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061103

Run Name :
Filename : tr259967

IDF : 1.0
Injected : 06-JAN-2005 16:28
Caltpe :

Standards: 04WS2357

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	519.7000	ug/L	4	10		
Antimony		500.0000	499.0000	ug/L	0	10		
Arsenic		250.0000	252.0000	ug/L	1	10		
Barium		500.0000	495.0000	ug/L	-1	10		
Beryllium		50.00000	49.80000	ug/L	0	10		
Cadmium		50.00000	50.80000	ug/L	2	10		
Calcium		1000.000	1147.000	ug/L	15	10		C+ **
Chromium		100.0000	100.0000	ug/L	0	10		
Cobalt		250.0000	245.0000	ug/L	-2	10		
Copper		100.0000	100.0000	ug/L	0	10		
Iron		500.0000	537.1000	ug/L	7	10		
Lead		250.0000	246.0000	ug/L	-2	10		
Magnesium		1000.000	1015.000	ug/L	2	10		
Manganese		50.00000	49.80000	ug/L	0	10		
Molybdenum		500.0000	491.0000	ug/L	-2	10		
Nickel		250.0000	250.0000	ug/L	0	10		
Selenium		250.0000	243.0000	ug/L	-3	10		
Silver		50.00000	50.30000	ug/L	1	10		
Thallium		250.0000	239.0000	ug/L	-4	10		
Titanium		500.0000	491.0000	ug/L	-2	10		
Vanadium		250.0000	247.0000	ug/L	-1	10		
Zinc		50.00000	51.80000	ug/L	4	10		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061104
Filename: tr259968

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 16:41

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND	100.0000		ug/L	<	RL
Antimony	ND	60.00000		ug/L	<	RL
Arsenic	ND	5.000000		ug/L	<	RL
Barium	ND	10.00000		ug/L	<	RL
Beryllium	ND	2.000000		ug/L	<	RL
Cadmium	ND	5.000000		ug/L	<	RL
Calcium	ND	500.0000		ug/L	<	RL
Chromium	ND	10.00000		ug/L	<	RL
Cobalt	ND	10.00000		ug/L	<	RL
Copper	ND	10.00000		ug/L	<	RL
Iron	[25.780]	100.0000		ug/L	<	RL
Lead	ND	3.000000		ug/L	<	RL
Magnesium	[18.510]	500.0000		ug/L	<	RL
Manganese	ND	10.00000		ug/L	<	RL
Molybdenum	ND	20.00000		ug/L	<	RL
Nickel	ND	20.00000		ug/L	<	RL
Selenium	ND	5.000000		ug/L	<	RL
Silver	ND	5.000000		ug/L	<	RL
Thallium	ND	5.000000		ug/L	<	RL
Titanium	[6.8700]	10.00000		ug/L	<	RL
Vanadium	ND	10.00000		ug/L	<	RL
Zinc	ND	20.00000		ug/L	<	RL

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061115

Run Name :
Filename : tr259980

IDF : 1.0
Injected : 06-JAN-2005 17:55
Caltpe :

Standards: 05WS0016

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		250.0000	229.7000	ug/L	-8		10	
Antimony		250.0000	230.0000	ug/L	-8		10	
Arsenic		125.0000	126.0000	ug/L	1		10	
Barium		250.0000	241.0000	ug/L	-4		10	
Beryllium		25.00000	24.40000	ug/L	-2		10	
Cadmium		25.00000	24.70000	ug/L	-1		10	
Calcium		500.0000	417.0000	ug/L	-17		10	c- **
Chromium		50.00000	48.10000	ug/L	-4		10	
Cobalt		125.0000	118.0000	ug/L	-6		10	
Copper		50.00000	46.00000	ug/L	-8		10	
Iron		250.0000	238.4000	ug/L	-5		10	
Lead		125.0000	121.0000	ug/L	-3		10	
Magnesium		500.0000	499.7000	ug/L	0		10	
Manganese		25.00000	23.90000	ug/L	-4		10	
Molybdenum		250.0000	232.0000	ug/L	-7		10	
Nickel		125.0000	122.0000	ug/L	-2		10	
Selenium		125.0000	121.0000	ug/L	-3		10	
Silver		25.00000	24.30000	ug/L	-3		10	
Thallium		125.0000	114.0000	ug/L	-9		10	
Titanium		250.0000	245.0000	ug/L	-2		10	
Vanadium		125.0000	118.0000	ug/L	-6		10	
Zinc		25.00000	24.80000	ug/L	-1		10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061116
Filename: tr259981

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 18:07

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[4.2500]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	ND		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	ND		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	ND		500.0000	ug/L	<	RL
Manganese	ND		10.00000	ug/L	<	RL
Molybdenum	ND		20.00000	ug/L	<	RL
Nickel	ND		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[7.1800]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07 Run Name : IDF : 1.0
 Seqnum : 75009061127 Filename : tr259992 Injected : 06-JAN-2005 19:07
 Caltype :
 Standards: 04WS2357

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	487.8000	ug/L	-2	10	
Antimony		500.0000	511.0000	ug/L	2	10	
Arsenic		250.0000	256.0000	ug/L	2	10	
Barium		500.0000	512.0000	ug/L	2	10	
Beryllium		50.00000	50.10000	ug/L	0	10	
Cadmium		50.00000	52.30000	ug/L	5	10	
Calcium		1000.000	943.8000	ug/L	-6	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	247.0000	ug/L	-1	10	
Copper		100.0000	99.70000	ug/L	0	10	
Iron		500.0000	473.7000	ug/L	-5	10	
Lead		250.0000	251.0000	ug/L	0	10	
Magnesium		1000.000	1017.000	ug/L	2	10	
Manganese		50.00000	49.20000	ug/L	-2	10	
Molybdenum		500.0000	495.0000	ug/L	-1	10	
Nickel		250.0000	256.0000	ug/L	2	10	
Selenium		250.0000	246.0000	ug/L	-2	10	
Silver		50.00000	50.10000	ug/L	0	10	
Thallium		250.0000	238.0000	ug/L	-5	10	
Titanium		500.0000	494.0000	ug/L	-1	10	
Vanadium		250.0000	248.0000	ug/L	-1	10	
Zinc		50.00000	51.40000	ug/L	3	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061128
Filename: tr259993

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 19:13

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	ND		60.00000	ug/L	<	RL
Arsenic	[3.2700]		5.000000	ug/L	<	RL
Barium	ND		10.00000	ug/L	<	RL
Beryllium	[0.2700]		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[17.790]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[9.1390]		500.0000	ug/L	<	RL
Manganese	[0.6220]		10.00000	ug/L	<	RL
Molybdenum	[1.9200]		20.00000	ug/L	<	RL
Nickel	ND		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[8.0000]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061138

Run Name :
Filename : tr260003

Injected : 06-JAN-2005 20:06
Caltpe :

Standards: 04WS2189

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	520500.0	ug/L	4			
Antimony	500.0000	555.0000	ug/L	11	20		
Arsenic	500.0000	548.0000	ug/L	10	20		
Barium	500.0000	522.0000	ug/L	4	20		
Beryllium	500.0000	481.0000	ug/L	-4	20		
Cadmium	1000.000	978.0000	ug/L	-2	20		
Calcium	500000.0	405900.0	ug/L	-19			
Chromium	500.0000	475.0000	ug/L	-5	20		
Cobalt	500.0000	472.0000	ug/L	-6	20		
Copper	500.0000	519.0000	ug/L	4	20		
Iron	200000.0	176200.0	ug/L	-12			
Lead	1000.000	967.0000	ug/L	-3	20		
Magnesium	500000.0	517200.0	ug/L	3			
Manganese	500.0000	458.0000	ug/L	-8	20		
Molybdenum	500.0000	491.0000	ug/L	-2	20		
Nickel	1000.000	928.0000	ug/L	-7	20		
Selenium	500.0000	539.0000	ug/L	8	20		
Silver	1000.000	939.0000	ug/L	-6	20		
Thallium	500.0000	497.0000	ug/L	-1	20		
Titanium	20000.00	21100.00	ug/L	6			
Vanadium	500.0000	491.0000	ug/L	-2	20		
Zinc	1000.000	1030.000	ug/L	3	20		

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07 Run Name : IDF : 1.0
Seqnum : 75009061139 Filename : tr260004 Injected : 06-JAN-2005 20:13
Caltpe :

Standards: 04WS2419

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	764.0000	ug/L	2	10	
Antimony		750.0000	743.0000	ug/L	-1	10	
Arsenic		375.0000	379.0000	ug/L	1	10	
Barium		750.0000	741.0000	ug/L	-1	10	
Beryllium		75.00000	72.60000	ug/L	-3	10	
Cadmium		75.00000	77.00000	ug/L	3	10	
Calcium		1500.000	1371.000	ug/L	-9	10	
Chromium		150.0000	145.0000	ug/L	-3	10	
Cobalt		375.0000	357.0000	ug/L	-5	10	
Copper		150.0000	144.0000	ug/L	-4	10	
Iron		750.0000	739.3000	ug/L	-1	10	
Lead		375.0000	367.0000	ug/L	-2	10	
Magnesium		1500.000	1519.000	ug/L	1	10	
Manganese		75.00000	69.40000	ug/L	-7	10	
Molybdenum		750.0000	697.0000	ug/L	-7	10	
Nickel		375.0000	372.0000	ug/L	-1	10	
Selenium		375.0000	377.0000	ug/L	1	10	
Silver		75.00000	72.40000	ug/L	-3	10	
Thallium		375.0000	353.0000	ug/L	-6	10	
Titanium		750.0000	727.0000	ug/L	-3	10	
Vanadium		375.0000	355.0000	ug/L	-5	10	
Zinc		75.00000	75.20000	ug/L	0	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061140
Filename: tr260005

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 20:20

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	ND	100.0000	ug/L	<RL		
Antimony	[5.9500]	60.00000	ug/L	<RL		
Arsenic	[3.0700]	5.000000	ug/L	<RL		
Barium	ND	10.00000	ug/L	<RL		
Beryllium	[0.5810]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[20.610]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	ND	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[20.000]	500.0000	ug/L	<RL		
Manganese	ND	10.00000	ug/L	<RL		
Molybdenum	[6.0400]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[9.1100]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

Curtis & Tompkins Laboratories

Sample Preparation Summary

06-JAN-2005 08:45

Batch Number : 98062
Date Extracted: 06-JAN-2005
Extracted by : Kevin Gaines
Prep Method : 3010A

Analysis : N/A
Bgroup : ICAP
Units : ml
Clean-up :

Spike #1 ID : 04SS365
Spike #2 ID : 04SS366
Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176965-001		Iris Environmental	Filtrate	50	ml	50	1.000000	1					T26/ICP		
176969-001		Camp, Dresser & McKee	Filtrate	50	ml	50	1.000000	1					AS, FE		
176969-002		Camp, Dresser & McKee	Filtrate	50	ml	50	1.000000	1					AS, FE		
176969-003		Camp, Dresser & McKee	Filtrate	50	ml	50	1.000000	1					AS, FE		
176969-004		Camp, Dresser & McKee	Filtrate	50	ml	50	1.000000	1					AS, FE		
176969-005		Camp, Dresser & McKee	Filtrate	50	ml	50	1.000000	1					AS, FE		
176969-006		Camp, Dresser & McKee	Filtrate	50	ml	50	1.000000	1					AS, FE		
176969-007		Camp, Dresser & McKee	Filtrate	50	ml	50	1.000000	1					AS, FE		
176969-008		Camp, Dresser & McKee	Filtrate	50	ml	50	1.000000	1					AS, FE		
176969-009		Camp, Dresser & McKee	Filtrate	50	ml	50	1.000000	1					AS, FE		
176969-010		Camp, Dresser & McKee	Filtrate	50	ml	50	1.000000	1					AS, FE		
176969-011		Camp, Dresser & McKee	Filtrate	50	ml	50	1.000000	1					AS, FE		
176969-012		Camp, Dresser & McKee	Filtrate	50	ml	50	1.000000	1					AS, FE		
176969-013		Camp, Dresser & McKee	Filtrate	50	ml	50	1.000000	1					AS, FE		
176969-014		Camp, Dresser & McKee	Filtrate	50	ml	50	1.000000	1					AS, FE		
176969-015		Camp, Dresser & McKee	Filtrate	50	ml	50	1.000000	1					AS, FE		
176970-001		SAIC	Water	50	ml	50	1.000000	1					T26/ICP		
176980-002		SAIC	Water	50	ml	50	1.000000	1					T26/ICP		
176984-037		Ninyo & Moore	Water	50	ml	50	1.000000	1					CR, PB		
QC278528	BLANK		Water	50	ml	50	1.000000	1					ICAP		
QC278529	BS		Water	50	ml	50	1.000000	1		.5	.5		ICAP		
QC278530	BSD		Water	50	ml	50	1.000000	1		.5	.5		ICAP		
QC278531	MS	of 176984-037	Water	50	ml	50	1.000000	1		.5	.5		ICAP		
QC278532	MSD	of 176984-037	Water	50	ml	50	1.000000	1		.5	.5		ICAP		
QC278533	SER	of 176984-037	Water	50	ml	50	1.000000	1					ICAP		

Prep Chemist:

Paul L. 1/6/05

Reviewed By:

K. Carlyn 1/6/05

Relinquished By:

Paul L. 1/6/05

Received By:

K. Carlyn 1/6/05

LIMS Batch #: 98062
 Date Digested: 1/6/05
 Digested by: hkl

Digestion Method

☒ EPA 3010a for ICP

☐ _____

BK 2026

Page 58

Sample # and letter	Volume Sample (mL)	Final Volume (mL)	Filtered? (y/n)	Comments
B/K	50	50	N	
B3				
B3D				
M3 - 37A				
M312 - 37				
176984 - 37				
965 - 01H				FILTRATE
969 - 01				
- 02				
- 03				
- 04				
- 05				
- 06				
- 07				
- 08				
- 09				
- 10				
- 11				
- 12				
- 13				
- 14				
- 15				
✓ 970 - 01 E	✓	✓	✓	
02	✓	✓	✓	

— digestion temperature (90-95 degrees C)
 .5 mL of spike solution was added to all spikes

concentrated HNO₃ used in digestion
 1:1 HCl added to all samples

☐ filtered thru' Whatman # 541

Reagent ID or LIMS #	Initials / Date
9500	hkl 1/6
0433365	
0433366	
A27061 BAKER	
A33044 H304	
N/A	✓

hkl 1/6/05
 Extraction Chemist / Date

Continued from page
 Continued on page

hkl 1/6/05
 Reviewed by / Date

Chromium			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3050B
Project#:	400582002	Analysis:	EPA 6010B
Analyte:	Chromium	Diln Fac:	1.000
Matrix:	Soil	Sampled:	01/05/05
Units:	mg/Kg	Received:	01/05/05

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Prepared	Analyzed
B10-S-2.0-1	SAMPLE	176984-001	26	0.50	dry	16%	98059	01/05/05	01/06/05
B10-S-3.5-1	SAMPLE	176984-002	24	0.53	dry	15%	98059	01/05/05	01/06/05
B9-S-2.0-1	SAMPLE	176984-004	36	0.50	dry	8%	98059	01/05/05	01/06/05
B9-S-3.5-1	SAMPLE	176984-005	32	0.48	dry	15%	98059	01/05/05	01/06/05
B14-S-2.0-1	SAMPLE	176984-007	27	0.69	dry	26%	98059	01/05/05	01/06/05
B34-S-2.0-1	SAMPLE	176984-008	27	0.43	dry	12%	98059	01/05/05	01/06/05
B14-S-3.5-1	SAMPLE	176984-009	2.8	0.47	dry	15%	98059	01/05/05	01/06/05
B15-S-2.0-1	SAMPLE	176984-011	26	0.47	dry	13%	98059	01/05/05	01/06/05
B15-S-3.5-1	SAMPLE	176984-012	27	0.47	dry	16%	98059	01/05/05	01/06/05
B5B-S-2.0-1	SAMPLE	176984-014	59	0.65	dry	17%	98059	01/05/05	01/06/05
B5B-S-3.5-1	SAMPLE	176984-015	23	0.58	dry	18%	98059	01/05/05	01/06/05
B7-S-2.0-1	SAMPLE	176984-017	23	0.39	dry	11%	98059	01/05/05	01/06/05
B7-S-3.5-1	SAMPLE	176984-018	22	0.58	dry	15%	98059	01/05/05	01/06/05
B8-S-2.0-1	SAMPLE	176984-020	22	0.43	dry	11%	98059	01/05/05	01/06/05
B8-S-3.5-1	SAMPLE	176984-021	27	0.57	dry	19%	98059	01/05/05	01/06/05
B12-S-2.0-1	SAMPLE	176984-023	35	0.46	dry	18%	98059	01/05/05	01/06/05
B12-S-3.5-1	SAMPLE	176984-024	27	0.55	dry	14%	98059	01/05/05	01/06/05
B11-S-2.0-1	SAMPLE	176984-026	29	0.50	dry	9%	98059	01/05/05	01/06/05
B11-S-3.5-1	SAMPLE	176984-027	37	0.55	dry	11%	98059	01/05/05	01/06/05
B6-S-2.0-1	SAMPLE	176984-029	32	0.45	dry	6%	98058	01/05/05	01/06/05
B25-S-2.0-1	SAMPLE	176984-031	71	0.53	dry	13%	98058	01/05/05	01/06/05
B5-S-3.5-1	SAMPLE	176984-032	49	0.66	dry	18%	98058	01/05/05	01/06/05
B22-S-3.5-1	SAMPLE	176984-033	34	0.39	dry	14%	98058	01/05/05	01/06/05
B42-S-3.5-1	SAMPLE	176984-034	22	0.66	dry	18%	98058	01/05/05	01/06/05
B18-S-2.0-1	SAMPLE	176984-038	65	0.47	dry	5%	98253	01/13/05	01/13/05
B18-S-3.5-1	SAMPLE	176984-039	27	0.52	dry	14%	98253	01/13/05	01/13/05
	BLANK	QC278508	ND	0.50	as received		98058	01/05/05	01/06/05
	BLANK	QC278515	ND	0.50	as received		98059	01/05/05	01/06/05
	BLANK	QC279235	ND	0.50	as received		98253	01/13/05	01/13/05

ND= Not Detected

RL= Reporting Limit

Page 1 of 1

13.2

Batch QC Report

Chromium									
Lab #:	176984	Location:	City of Emeryville						
Client:	Ninyo & Moore	Prep:	EPA 3050B						
Project#:	400582002	Analysis:	EPA 6010B						
Analyte:	Chromium	Units:	mg/Kg						
Matrix:	Soil	Diln Fac:	1.000						

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	Basis	Moisture	RPD	Lim	Batch#	Sampled	Received	Prepared	Analyzed
	BS		QC278509		100.0	100.5	101	80-120	as received				98058			01/05/05	01/06/05
	BSD		QC278510		100.0	103.0	103	80-120	as received		2	20	98058			01/05/05	01/06/05
B22-S-3.5-1	MS	176984-033	QC278511	33.78	101.1	136.5	102	60-120	dry	14%			98058	01/05/05	01/05/05	01/05/05	01/06/05
B22-S-3.5-1	MSD	176984-033	QC278512		94.54	122.4	94	60-120	dry	14%	6	20	98058	01/05/05	01/05/05	01/05/05	01/06/05
	BS		QC278516		100.0	101.5	102	80-120	as received				98059			01/05/05	01/06/05
	BSD		QC278517		100.0	100.5	101	80-120	as received		1	20	98059			01/05/05	01/06/05
B14-S-2.0-1	MS	176984-007	QC278518	27.37	103.2	122.8	92	60-120	dry	26%			98059	01/05/05	01/05/05	01/05/05	01/06/05
B14-S-2.0-1	MSD	176984-007	QC278519		129.9	146.2	91	60-120	dry	26%	1	20	98059	01/05/05	01/05/05	01/05/05	01/06/05
	BS		QC279236		100.0	103.5	104	80-120	as received				98253			01/13/05	01/13/05
	BSD		QC279237		100.0	104.0	104	80-120	as received		0	20	98253			01/13/05	01/13/05
ZZZZZZZZZZ	MS	177105-021	QC279238	43.91	95.24	119.0	79	60-120	as received				98253	01/12/05	01/12/05	01/13/05	01/13/05
ZZZZZZZZZZ	MSD	177105-021	QC279239		85.47	131.6	103	60-120	as received		17	20	98253	01/12/05	01/12/05	01/13/05	01/13/05

RPD= Relative Percent Difference

Page 1 of 1



Curtis & Tompkins, Ltd.

Batch QC Report

Chromium			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3050B
Project#:	400582002	Analysis:	EPA 6010B
Analyte:	Chromium	Basis:	dry
Field ID:	B22-S-3.5-1	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	98058
MSS Lab ID:	176984-033	Sampled:	01/05/05
Lab ID:	QC278513	Received:	01/05/05
Matrix:	Soil	Analyzed:	01/06/05
Units:	mg/Kg		

MSS Result	MSS RL	Result	RL	Moisture %	Diff	Lim
33.78	0.3928	34	2.0	14%	1	10

Batch QC Report

Chromium			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3050B
Project#:	400582002	Analysis:	EPA 6010B
Analyte:	Chromium	Basis:	dry
Field ID:	B14-S-2.0-1	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	98059
MSS Lab ID:	176984-007	Sampled:	01/05/05
Lab ID:	QC278520	Received:	01/05/05
Matrix:	Soil	Analyzed:	01/06/05
Units:	mg/Kg		

MSS Result	MSS RL	Result	RL	Moisture %	Diff	Lim
27.37	0.6895	28	3.4	26%	2	10

Lead			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3050B
Project#:	400582002	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Sampled:	01/05/05
Units:	mg/Kg	Received:	01/05/05

Field ID	Type	Lab ID	Result	RL	Basis	Moisture	Batch#	Prepared	Analyzed
B10-S-2.0-1	SAMPLE	176984-001	270	0.15	dry	16%	98059	01/05/05	01/06/05
B10-S-3.5-1	SAMPLE	176984-002	65	0.16	dry	15%	98059	01/05/05	01/06/05
B9-S-2.0-1	SAMPLE	176984-004	13	0.15	dry	8%	98059	01/05/05	01/06/05
B9-S-3.5-1	SAMPLE	176984-005	470	0.14	dry	15%	98059	01/05/05	01/06/05
B9-S-5.0-1	SAMPLE	176984-006	28	0.12	dry	18%	99199	02/16/05	02/16/05
B14-S-2.0-1	SAMPLE	176984-007	1,200	0.21	dry	26%	98059	01/05/05	01/06/05
B34-S-2.0-1	SAMPLE	176984-008	52	0.13	dry	12%	98059	01/05/05	01/06/05
B14-S-3.5-1	SAMPLE	176984-009	6.8	0.14	dry	15%	98059	01/05/05	01/06/05
B15-S-2.0-1	SAMPLE	176984-011	270	0.14	dry	13%	98059	01/05/05	01/06/05
B15-S-3.5-1	SAMPLE	176984-012	14	0.14	dry	16%	98059	01/05/05	01/06/05
B5B-S-2.0-1	SAMPLE	176984-014	2,100	0.20	dry	17%	98059	01/05/05	01/06/05
B5B-S-3.5-1	SAMPLE	176984-015	6.2	0.17	dry	18%	98059	01/05/05	01/06/05
B7-S-2.0-1	SAMPLE	176984-017	85	0.12	dry	11%	98059	01/05/05	01/06/05
B7-S-3.5-1	SAMPLE	176984-018	8.2	0.17	dry	15%	98059	01/05/05	01/06/05
B8-S-2.0-1	SAMPLE	176984-020	11	0.13	dry	11%	98059	01/05/05	01/06/05
B8-S-3.5-1	SAMPLE	176984-021	320	0.17	dry	19%	98059	01/05/05	01/06/05
B8-S-5.0-1	SAMPLE	176984-022	3.5	0.16	dry	18%	99246	02/17/05	02/17/05
B12-S-2.0-1	SAMPLE	176984-023	4.4	0.14	dry	18%	98059	01/05/05	01/06/05
B12-S-3.5-1	SAMPLE	176984-024	60	0.16	dry	14%	98059	01/05/05	01/06/05
B11-S-2.0-1	SAMPLE	176984-026	14	0.15	dry	9%	98059	01/05/05	01/06/05
B11-S-3.5-1	SAMPLE	176984-027	84	0.17	dry	11%	98059	01/05/05	01/06/05
B6-S-2.0-1	SAMPLE	176984-029	72	0.13	dry	6%	98058	01/05/05	01/06/05
B25-S-2.0-1	SAMPLE	176984-031	160	0.16	dry	13%	98058	01/05/05	01/06/05
B5-S-3.5-1	SAMPLE	176984-032	52	0.20	dry	18%	98058	01/05/05	01/06/05
B22-S-3.5-1	SAMPLE	176984-033	46	0.12	dry	14%	98058	01/05/05	01/06/05
B42-S-3.5-1	SAMPLE	176984-034	13	0.20	dry	18%	98058	01/05/05	01/06/05
B18-S-2.0-1	SAMPLE	176984-038	210	0.14	dry	5%	98253	01/13/05	01/13/05
B18-S-3.5-1	SAMPLE	176984-039	7.7	0.16	dry	14%	98253	01/13/05	01/13/05
	BLANK	QC278508	ND	0.15	as received		98058	01/05/05	01/06/05
	BLANK	QC278515	ND	0.15	as received		98059	01/05/05	01/06/05
	BLANK	QC279235	ND	0.15	as received		98253	01/13/05	01/13/05
	BLANK	QC282765	0.57	0.15	as received		99199	02/16/05	02/16/05
	BLANK	QC282939	0.27	0.15	as received		99246	02/17/05	02/17/05

ND= Not Detected

RL= Reporting Limit

Page 1 of 1

17.3

Batch QC Report

Lead									
Lab #:	176984	Location:	City of Emeryville						
Client:	Ninyo & Moore	Prep:	EPA 3050B						
Project#:	400582002	Analysis:	EPA 6010B						
Analyte:	Lead	Units:	mg/Kg						
Matrix:	Soil	Diln Fac:	1.000						

Field ID	Type	MSE	Lab ID	Lab ID	MSE Result	Spiked	Result	%REC	Limits	Basis	Moisture	RPD	Lim	Batch#	Sampled	Received	Prepared	Analyzed
B22-S-3.5-1	BS			QC278509		100.0	101.0	101	80-120 as received					98058			01/05/05	01/06/05
	BSD			QC278510		100.0	103.5	104	80-120 as received			2	20	98058			01/05/05	01/06/05
	MS	176984-033	QC278511		46.35	101.1	154.2	107	47-126 dry	14%				98058	01/05/05	01/05/05	01/05/05	01/06/05
	MSD	176984-033	QC278512			94.54	131.4	90	47-126 dry	14%		11	28	98058	01/05/05	01/05/05	01/05/05	01/06/05
B14-S-2.0-1	BS			QC278516		100.0	101.0	101	80-120 as received					98059			01/05/05	01/06/05
	BSD			QC278517		100.0	100.0	100	80-120 as received			1	20	98059			01/05/05	01/06/05
	MS	176984-007	QC278518		1,158	103.2	2,336	1142 *	NM 47-126 dry	26%				98059	01/05/05	01/05/05	01/05/05	01/06/05
	MSD	176984-007	QC278519			129.9	3,742 >LR	1989 *	NM 47-126 dry	26%		NC	28	98059	01/05/05	01/05/05	01/05/05	01/06/05
ZZZZZZZZZZ	BS			QC279236		100.0	105.5	106	80-120 as received					98253			01/13/05	01/13/05
	BSD			QC279237		100.0	105.5	106	80-120 as received			0	20	98253			01/13/05	01/13/05
	MS	177105-021	QC279238		14.52	95.24	101.0	91	47-126 as received					98253	01/12/05	01/12/05	01/13/05	01/13/05
	MSD	177105-021	QC279239			85.47	91.88	91	47-126 as received			0	28	98253	01/12/05	01/12/05	01/13/05	01/13/05
B9-S-5.0-1	BS			QC282766		100.0	104.0	104	80-120 as received					99199			02/16/05	02/16/05
	BSD			QC282767		100.0	103.5	104	80-120 as received			0	20	99199			02/16/05	02/16/05
	MS	176984-006	QC282768		28.17	86.49	107.2	91	47-126 dry	18%				99199	01/05/05	01/05/05	02/16/05	02/16/05
	MSD	176984-006	QC282769			123.2	139.2	90	47-126 dry	18%		2	28	99199	01/05/05	01/05/05	02/16/05	02/16/05
ZZZZZZZZZZ	BS			QC282940		100.0	102.0	102	80-120 as received					99246			02/17/05	02/17/05
	BSD			QC282941		100.0	102.5	103	80-120 as received			0	20	99246			02/17/05	02/17/05
	MS	177723-001	QC282942		256.5	63.29	290.5	54 NM	47-126 as received					99246	02/16/05	02/16/05	02/17/05	02/17/05
	MSD	177723-001	QC282943			102.0	353.6	95	47-126 as received			8	28	99246	02/16/05	02/16/05	02/17/05	02/17/05

*= Value outside of QC limits; see narrative

NC= Not Calculated

NM= Not Meaningful: Sample concentration > 4X spike concentration

>LR= Response exceeds instrument's linear range

RPD= Relative Percent Difference

Page 1 of 1



Curtis & Tompkins, Ltd.

Batch QC Report

Lead			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3050B
Project#:	400582002	Analysis:	EPA 6010B
Analyte:	Lead	Basis:	dry
Field ID:	B22-S-3.5-1	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	98058
MSS Lab ID:	176984-033	Sampled:	01/05/05
Lab ID:	QC278513	Received:	01/05/05
Matrix:	Soil	Analyzed:	01/06/05
Units:	mg/Kg		

MSS Result	MSS RL	Result	RL	Moisture	% Diff	Lim
46.35	0.1179	47	0.59	14%	2	10

Batch QC Report

Lead			
Lab #:	176984	Location:	City of Emeryville
Client:	Ninyo & Moore	Prep:	EPA 3050B
Project#:	400582002	Analysis:	EPA 6010B
Analyte:	Lead	Basis:	dry
Field ID:	B14-S-2.0-1	Diln Fac:	5.000
Type:	Serial Dilution	Batch#:	98059
MSS Lab ID:	176984-007	Sampled:	01/05/05
Lab ID:	QC278520	Received:	01/05/05
Matrix:	Soil	Analyzed:	01/06/05
Units:	mg/Kg		

MSS Result	MSS RL	Result	RL	Moisture %	Diff	Lim
1,158	0.2068	1,200	1.0	26%	3	10

REPORTING SUMMARY FOR 176984 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	C R	P B	
176984-001	MET07	01/06/05 14:18	1.0	+	+	
176984-002	MET07	01/06/05 14:22	1.0	+	+	
176984-004	MET07	01/06/05 14:27	1.0	+	+	
176984-005	MET07	01/06/05 14:55	1.0	+	+	
176984-006	MET07	02/16/05 08:43	1.0		+	
176984-007	MET07	01/06/05 12:51	1.0	+	+	
176984-008	MET07	01/06/05 14:59	1.0	+	+	
176984-009	MET07	01/06/05 15:09	1.0	+	+	
176984-011	MET07	01/06/05 15:13	1.0	+	+	
176984-012	MET07	01/06/05 15:40	1.0	+	+	
176984-014	MET07	01/06/05 15:44	1.0	+	+	
176984-015	MET07	01/06/05 15:49	1.0	+	+	
176984-017	MET07	01/06/05 15:53	1.0	+	+	
176984-018	MET07	01/06/05 15:57	1.0	+	+	
176984-020	MET07	01/06/05 16:02	1.0	+	+	
176984-021	MET07	01/06/05 16:06	1.0	+	+	
176984-022	MET07	02/16/05 09:11	1.0			
176984-022	MET07	02/17/05 10:31	1.0		+	
176984-023	MET07	01/06/05 16:11	1.0	+	+	
176984-024	MET07	01/06/05 16:15	1.0	+	+	
176984-026	MET07	01/06/05 16:19	1.0	+	+	
176984-027	MET07	01/06/05 16:48	1.0	+	+	
176984-029	MET07	01/06/05 09:47	1.0	+	+	
176984-031	MET07	01/06/05 09:51	1.0	+	+	
176984-032	MET07	01/06/05 09:55	1.0	+	+	

REPORTING SUMMARY FOR 176984 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	C R	P B
176984-033	MET07	01/06/05 07:56	1.0	+	+
176984-033	MET07	01/06/05 08:05	1.0		
176984-033	MET07	01/06/05 08:11	10.0		
176984-034	MET07	01/06/05 10:00	1.0	+	+
176984-038	MET07	01/13/05 14:36	1.0	+	+
176984-039	MET07	01/13/05 14:40	1.0	+	+
QC278508	MET07	01/06/05 07:40	1.0	+	+
QC278509	MET07	01/06/05 07:46	1.0	+	+
QC278510	MET07	01/06/05 07:50	1.0	+	+
QC278511	MET07	01/06/05 08:24	1.0	+	+
QC278512	MET07	01/06/05 08:28	1.0	+	+
QC278513	MET07	01/06/05 08:01	5.0	+	+
QC278515	MET07	01/06/05 12:37	1.0	+	+
QC278516	MET07	01/06/05 12:41	1.0	+	+
QC278517	MET07	01/06/05 12:45	1.0	+	+
QC278518	MET07	01/06/05 13:01	1.0	+	+
QC278519	MET07	01/06/05 13:05	1.0	+	+
QC278520	MET07	01/06/05 12:57	5.0	+	+
QC279235	MET07	01/13/05 13:26	1.0	+	+
QC279236	MET07	01/13/05 13:30	1.0	+	+
QC279237	MET07	01/13/05 13:34	1.0	+	+
QC279238	MET07	01/13/05 13:44	1.0	+	+
QC279239	MET07	01/13/05 13:48	1.0	+	+
QC282765	MET07	02/16/05 08:17	1.0	+	
QC282765	MET07	02/16/05 08:24	1.0		+

REPORTING SUMMARY FOR 176984 METALS Soil
Curtis & Tompkins Laboratories

Lab ID	Inst ID	Analyzed	IDF	C R	P B
QC282766	MET07	02/16/05 08:34	1.0	+	+
QC282767	MET07	02/16/05 08:38	1.0	+	+
QC282768	MET07	02/16/05 09:03	1.0	+	+
QC282769	MET07	02/16/05 09:07	1.0	+	+
QC282939	MET07	02/17/05 09:18	1.0	+	
QC282939	MET07	02/17/05 09:26	1.0		+
QC282940	MET07	02/17/05 09:36	1.0	+	+
QC282941	MET07	02/17/05 09:46	1.0	+	+
QC282942	MET07	02/17/05 10:21	1.0	+	+
QC282943	MET07	02/17/05 10:25	1.0	+	+

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07
Seqnum : 75009061066	Seqnum : 75009061067
Filename : tr259929	Filename : tr259930
IDF : 1.0	IDF : 5.0
PDF : 51.02	PDF : 51.02
Run type : MSS	Run type : SER
Samplenum: 176984-007	Samplenum: QC278520
Matrix : Soil	Matrix : Soil
Batchnum : 98059	Batchnum : 98059
Inj : 06-JAN-2005 12:51	Inj : 06-JAN-2005 12:57
Units : mg/Kg	

Analyte	MSS	RL	SER	RL	%D	MAX	%D	Flags
Aluminum	*** usable MSS data not found ***							
Antimony	ND	3.06	1.82 J	15.3	--	10		
Arsenic	6.33	0.255	7.22	1.28	14*	10		
Barium	136	0.510	132	2.55	3	10		
Beryllium	0.262	0.102	0.597	0.510	--	10		
Cadmium	1.64	0.255	1.44	1.28	12*	10		
Calcium	*** usable MSS data not found ***							
Chromium	20.3	0.510	20.6	2.55	2	10		u
Cobalt	5.41	1.02	5.56	5.10	3	10		
Copper	62.8	0.510	60.2	2.55	4	10		
Iron	*** usable MSS data not found ***							
Lead	857	0.153	883	0.765	3	10		u
Magnesium	5020	25.5	5080	128	1	10		
Manganese	327	0.510	327	2.55	0	10		
Molybdenum	1.87	1.02	1.69 J	5.10	--	10		
Nickel	25.7	1.02	27.0	5.10	5	10		
Selenium	0.261	0.255	ND	1.28	--	10		
Silver	ND	0.255	ND	1.28	--	10		
Thallium	ND	0.255	ND	1.28	--	10		
Vanadium	17.8	0.510	18.2	2.55	2	10		
Zinc	*** usable MSS data not found ***							
Titanium	422	0.510	411	2.55	3	10		

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 75009061 Instrument: MET07
Analytical Method: EPA 6010B

TJA Trace ICP
SOP Version: 6010B_rv7

Begun: 06-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
001	tr259864	CS				06-JAN-2005 07:01	1.0	1.0				1	
002	tr259865	ICV				06-JAN-2005 07:06	1.0	1.0				2	
003	tr259866	ICB				06-JAN-2005 07:10	1.0	1.0					
004	tr259867	CRI				06-JAN-2005 07:15	1.0	1.0				3	
005	tr259868	ICSA				06-JAN-2005 07:23	1.0	1.0				4	4:MG=527800
006	tr259869	ICSAB				06-JAN-2005 07:27	1.0	1.0				5	5:AL=499300
007	tr259870	BLANK	QC278508	98058	Soil	06-JAN-2005 07:40	1.0	50.0					
008	tr259871	BS	QC278509	98058	Soil	06-JAN-2005 07:46	1.0	50.0	1				
009	tr259872	BSD	QC278510	98058	Soil	06-JAN-2005 07:50	1.0	50.0	1				
010	tr259873	MSS	176984-033	98058	Soil	06-JAN-2005 07:56	1.0	33.78	3				3:FE=376700
011	tr259874	SER	QC278513	98058	Soil	06-JAN-2005 08:01	5.0	33.78	1				
012	tr259875	MSS	176984-033	98058	Soil	06-JAN-2005 08:05	1.0	33.78	3				3:FE=376200
013	tr259876	MSS	176984-033	98058	Soil	06-JAN-2005 08:11	10.0	33.78	2				
014	tr259877	CCV				06-JAN-2005 08:16	1.0	1.0	1			6	
015	tr259878	CCB				06-JAN-2005 08:20	1.0	1.0					
016	tr259879	MS	QC278511	98058	Soil	06-JAN-2005 08:24	1.0	43.48	1				4:FE=343800
017	tr259880	MSD	QC278512	98058	Soil	06-JAN-2005 08:28	1.0	40.65		1			4:FE=332500
018	tr259881	SAMPLE	176966-001	98058	Miscel	06-JAN-2005 08:33	1.0	39.37					
019	tr259882	SAMPLE	176971-001	98058	Miscel	06-JAN-2005 08:37	1.0	38.46	1				1:ZN=7500.00
020	tr259883	SAMPLE	176971-001	98058	Miscel	06-JAN-2005 08:42	1.0	38.46	1				1:ZN=7550.00
021	tr259884	SAMPLE	176975-002	98058	Soil	06-JAN-2005 08:46	1.0	38.17					2:FE=606100
022	tr259885	SAMPLE	176971-001	98058	Miscel	06-JAN-2005 08:50	20.0	38.46					3:FE=430400
023	tr259886	SAMPLE	176975-003	98058	Soil	06-JAN-2005 08:55	1.0	36.23					2:FE=329300
024	tr259887	SAMPLE	176975-004	98058	Soil	06-JAN-2005 08:59	1.0	49.02					2:FE=465200
025	tr259888	SAMPLE	176975-005	98058	Soil	06-JAN-2005 09:03	1.0	37.31					
026	tr259889	CCV				06-JAN-2005 09:12	1.0	1.0	1			7	
027	tr259890	CCB				06-JAN-2005 09:28	1.0	1.0					
028	tr259891	SAMPLE	176975-006	98058	Soil	06-JAN-2005 09:33	1.0	26.46					3:FE=628900
029	tr259892	SAMPLE	176975-007	98058	Soil	06-JAN-2005 09:43	1.0	47.62					3:FE=337400
030	tr259893	SAMPLE	176984-029	98058	Soil	06-JAN-2005 09:47	1.0	42.02					4:CA=1404000
031	tr259894	SAMPLE	176984-031	98058	Soil	06-JAN-2005 09:51	1.0	46.30					5:FE=2208000

Stds used: 1=04WS2257 2=04WS2356 3=04WS2346 4=04WS2355 5=04WS2189 6=04WS2357 7=04WS2419 8=05WS0016

Analyst: *K. Carlson* Date: *1/6/05*
Page 1 of 5

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 75009061 Instrument: MET07
Analytical Method: EPA 6010B

TJA Trace ICP
SOP Version: 6010B_rv7

Begun: 06-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
032	tr259895	SAMPLE	176984-032	98058	Soil	06-JAN-2005 09:55	1.0	53.76				4:FE=514800	
033	tr259896	SAMPLE	176984-034	98058	Soil	06-JAN-2005 10:00	1.0	54.35				2:FE=153200	
034	tr259897	SAMPLE	176964-001	98058	Miscel	06-JAN-2005 10:04	1.0	51.55	2			5:CA=2416000	
035	tr259898	SAMPLE	176964-002	98058	Miscel	06-JAN-2005 10:08	1.0	52.63	2			5:CA=2744000	
036	tr259899	SAMPLE	176964-001	98058	Miscel	06-JAN-2005 10:12	1.0	51.55	2			5:CA=2568000	
037	tr259900	SAMPLE	176964-001	98058	Miscel	06-JAN-2005 10:19	25.0	51.55				1:CA=206400	
038	tr259901	CCV				06-JAN-2005 10:26	1.0	1.0				6	
039	tr259902	CCB				06-JAN-2005 10:39	1.0	1.0				1:CA=225600	
040	tr259903	SAMPLE	176964-002	98058	Miscel	06-JAN-2005 10:43	25.0	52.63	1				
041	tr259904	SAMPLE	176940-001	98019	Filtra	06-JAN-2005 10:47	1.0	1.0	1			1:CA=105600	
042	tr259905	SAMPLE	176940-002	98019	Filtra	06-JAN-2005 10:51	1.0	1.0				3:MG=938700	
043	tr259906	SAMPLE	176962-002	98019	Filtra	06-JAN-2005 10:55	1.0	1.0					
044	tr259907	SAMPLE	176962-003	98019	Filtra	06-JAN-2005 10:59	1.0	1.0					
045	tr259908	SAMPLE	176962-004	98019	Filtra	06-JAN-2005 11:03	1.0	1.0					
046	tr259909	SAMPLE	176940-001	98019	Filtra	06-JAN-2005 11:07	1.0	1.0	1			3:MG=1008000	
047	tr259910	SAMPLE	176962-002	98019	Water	06-JAN-2005 11:11	1.0	1.0					
048	tr259911	SAMPLE	176962-003	98019	Water	06-JAN-2005 11:16	1.0	1.0					
049	tr259912	SAMPLE	176962-004	98019	Water	06-JAN-2005 11:20	1.0	1.0				7	
050	tr259913	CCV				06-JAN-2005 11:26	1.0	1.0					
051	tr259914	CCB				06-JAN-2005 11:31	1.0	1.0					
052	tr259915	X		98021	Water	06-JAN-2005 11:35	1.0	1.0					
053	tr259916	X		98021	Water	06-JAN-2005 11:39	1.0	1.0					
054	tr259917	MSS	176959-002	98021	Water	06-JAN-2005 11:45	1.0	1.0	1				
055	tr259918	SAMPLE	176959-008	98021	Water	06-JAN-2005 11:50	1.0	1.0					
056	tr259919	MS	QC278378	98021	Water	06-JAN-2005 11:55	1.0	1.0	1				
057	tr259920	MSD	QC278379	98021	Water	06-JAN-2005 11:59	1.0	1.0	1				
058	tr259921	SAMPLE	176959-009	98021	Water	06-JAN-2005 12:04	1.0	1.0					
059	tr259922	SAMPLE	176959-011	98021	Water	06-JAN-2005 12:08	1.0	1.0				5	5:MG=510600
060	tr259923	ICSAB				06-JAN-2005 12:22	1.0	1.0				6	
061	tr259924	CCV				06-JAN-2005 12:29	1.0	1.0	1				
062	tr259925	CCB				06-JAN-2005 12:33	1.0	1.0					

Stds used: 1=04WS2257 2=04WS2356 3=04WS2346 4=04WS2355 5=04WS2189 6=04WS2357 7=04WS2419 8=05WS0016

Analyst: K Carlyn Date: 1/6/05
Page 2 of 5

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 75009061 Instrument: MET07
Analytical Method: EPA 6010B

TJA Trace ICP
SOP Version: 6010B_rv7

Begun: 06-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
063	tr259926	BLANK	QC278515	98059	Soil	06-JAN-2005 12:37	1.0	50.0					
064	tr259927	BS	QC278516	98059	Soil	06-JAN-2005 12:41	1.0	50.0	1				
065	tr259928	BSD	QC278517	98059	Soil	06-JAN-2005 12:45	1.0	50.0	1				
066	tr259929	MSS	176984-007	98059	Soil	06-JAN-2005 12:51	1.0	51.02	4			4:CA=1108000	
067	tr259930	SER	QC278520	98059	Soil	06-JAN-2005 12:57	5.0	51.02		2		1:CA=261500	
068	tr259931	MS	QC278518	98059	Soil	06-JAN-2005 13:01	1.0	38.17		1		6:CA=1399000	
069	tr259932	MSD	QC278519	98059	Soil	06-JAN-2005 13:05	1.0	48.08		1		7:CA=1167000	
070	tr259933	BLANK	QC278535	98064	Water	06-JAN-2005 13:21	1.0	1.0					
071	tr259934	BS	QC278536	98064	Water	06-JAN-2005 13:25	1.0	1.0	1				
072	tr259935	BSD	QC278537	98064	Water	06-JAN-2005 13:29	1.0	1.0	1				
073	tr259936	CCV				06-JAN-2005 13:35	1.0	1.0				7	
074	tr259937	CCB				06-JAN-2005 13:38	1.0	1.0					
075	tr259938	MSS	176975-001	98064	Water	06-JAN-2005 13:43	1.0	1.0					
076	tr259939	MS	QC278538	98064	Water	06-JAN-2005 13:47	1.0	1.0					
077	tr259940	MSD	QC278539	98064	Water	06-JAN-2005 13:51	1.0	1.0					
078	tr259941	SAMPLE	176975-008	98064	Water	06-JAN-2005 13:57	1.0	1.0				6	
079	tr259942	CCV				06-JAN-2005 14:01	1.0	1.0					
080	tr259943	CCB				06-JAN-2005 14:05	1.0	1.0				5	5:MG=508800
081	tr259945	ICSAB				06-JAN-2005 14:09	1.0	1.0					3:CA=1348000
082	tr259946	SAMPLE	176984-001	98059	Soil	06-JAN-2005 14:18	1.0	42.37					5:CA=1857000
083	tr259947	SAMPLE	176984-002	98059	Soil	06-JAN-2005 14:22	1.0	44.64					5:CA=1107000
084	tr259948	SAMPLE	176984-004	98059	Soil	06-JAN-2005 14:27	1.0	45.87					
085	tr259949	SAMPLE	176959-012	98021	Water	06-JAN-2005 14:50	1.0	1.0					3:CA=1382000
086	tr259950	SAMPLE	176984-005	98059	Soil	06-JAN-2005 14:55	1.0	40.65					3:FE=331000
087	tr259951	SAMPLE	176984-008	98059	Soil	06-JAN-2005 14:59	1.0	37.59					2:CA=2389000
088	tr259952	SAMPLE	176984-009	98059	Soil	06-JAN-2005 15:09	1.0	40.32					3:FE=359500
089	tr259953	SAMPLE	176984-011	98059	Soil	06-JAN-2005 15:13	1.0	40.98					5:MG=524100
090	tr259954	ICSAB				06-JAN-2005 15:18	1.0	1.0				5	
091	tr259955	CCV				06-JAN-2005 15:27	1.0	1.0	1			7	
092	tr259956	CCB				06-JAN-2005 15:32	1.0	1.0	1				2:FE=328500
093	tr259957	SAMPLE	176984-012	98059	Soil	06-JAN-2005 15:40	1.0	39.06					

Stds used: 1=04WS2257 2=04WS2356 3=04WS2346 4=04WS2355 5=04WS2189 6=04WS2357 7=04WS2419 8=05WS0016

Analyst: K. Carlyn Date: 1/6/05
Page 3 of 5

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 75009061 Instrument: MET07
Analytical Method: EPA 6010B

TJA Trace ICP
SOP Version: 6010B_rv7

Begun: 06-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
094	tr259958	SAMPLE	176984-014	98059	Soil	06-JAN-2005 15:44	1.0	54.35				4:FE=4970000	
095	tr259959	SAMPLE	176984-015	98059	Soil	06-JAN-2005 15:49	1.0	47.17				2:FE=161700	
096	tr259960	SAMPLE	176984-017	98059	Soil	06-JAN-2005 15:53	1.0	34.72				3:FE=266200	
097	tr259961	SAMPLE	176984-018	98059	Soil	06-JAN-2005 15:57	1.0	49.02				2:FE=149200	
098	tr259962	SAMPLE	176984-020	98059	Soil	06-JAN-2005 16:02	1.0	38.17				6:FE=897100	
099	tr259963	SAMPLE	176984-021	98059	Soil	06-JAN-2005 16:06	1.0	45.87				5:CA=504100	
100	tr259964	SAMPLE	176984-023	98059	Soil	06-JAN-2005 16:11	1.0	37.59				5:CA=1403000	
101	tr259965	SAMPLE	176984-024	98059	Soil	06-JAN-2005 16:15	1.0	47.17				4:CA=1393000	
102	tr259966	SAMPLE	176984-026	98059	Soil	06-JAN-2005 16:19	1.0	45.87				4:CA=1139000	
103	tr259967	CCV				06-JAN-2005 16:28	1.0	1.0	1			6	
104	tr259968	CCB				06-JAN-2005 16:41	1.0	1.0					
105	tr259969	SAMPLE	176984-027	98059	Soil	06-JAN-2005 16:48	1.0	49.02				4:CA=1732000	
106	tr259970	SAMPLE	176965-001	98064	Water	06-JAN-2005 17:06	1.0	1.0				1:CA=181600	
107	tr259971	SAMPLE	176968-001	98064	Water	06-JAN-2005 17:10	1.0	1.0				2:MG=366100	
108	tr259972	SAMPLE	176969-001	98064	Water	06-JAN-2005 17:15	1.0	1.0				1:CA=109900	
109	tr259973	SAMPLE	176969-002	98064	Water	06-JAN-2005 17:19	1.0	1.0					
110	tr259974	SAMPLE	176969-003	98064	Water	06-JAN-2005 17:23	1.0	1.0					
111	tr259975	SAMPLE	176969-004	98064	Water	06-JAN-2005 17:28	1.0	1.0					
112	tr259976	SAMPLE	176969-005	98064	Water	06-JAN-2005 17:32	1.0	1.0	1			1:AS=20600.0	
113	tr259977	SAMPLE	176969-006	98064	Water	06-JAN-2005 17:36	1.0	1.0					
114	tr259978	SAMPLE	176969-007	98064	Water	06-JAN-2005 17:41	1.0	1.0					
115	tr259980	CCV				06-JAN-2005 17:55	1.0	1.0	1			8	
116	tr259981	CCB				06-JAN-2005 18:07	1.0	1.0					
117	tr259982	SAMPLE	176969-005	98064	Water	06-JAN-2005 18:21	2.0	1.0					
118	tr259983	SAMPLE	176969-008	98064	Water	06-JAN-2005 18:27	1.0	1.0					
119	tr259984	SAMPLE	176969-009	98064	Water	06-JAN-2005 18:31	1.0	1.0					
120	tr259985	SAMPLE	176969-010	98064	Water	06-JAN-2005 18:35	1.0	1.0					
121	tr259986	SAMPLE	176969-011	98064	Water	06-JAN-2005 18:40	1.0	1.0					
122	tr259987	SAMPLE	176969-012	98064	Water	06-JAN-2005 18:44	1.0	1.0					
123	tr259988	SAMPLE	176969-013	98064	Water	06-JAN-2005 18:49	1.0	1.0					
124	tr259989	SAMPLE	176969-014	98064	Water	06-JAN-2005 18:53	1.0	1.0					

Stds used: 1=04WS2257 2=04WS2356 3=04WS2346 4=04WS2355 5=04WS2189 6=04WS2357 7=04WS2419 8=05WS0016

Analyst: A Carlyn Date: 1/6/05
Page 4 of 5

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 75009061 Instrument: MET07
Analytical Method: EPA 6010B

TJA Trace ICP
SOP Version: 6010B_rv7

Begun: 06-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
125	tr259990	SAMPLE	176969-015	98064	Water	06-JAN-2005 18:57	1.0	1.0					
126	tr259991	SAMPLE	176972-001	98064	Water	06-JAN-2005 19:02	1.0	1.0				1:CA=129600	
127	tr259992	CCV				06-JAN-2005 19:07	1.0	1.0				6	
128	tr259993	CCB				06-JAN-2005 19:13	1.0	1.0					
129	tr259994	SAMPLE	176972-001	98064	Water	06-JAN-2005 19:17	1.0	1.0				1:CA=127100	
130	tr259995	BLANK	QC278528	98062	Water	06-JAN-2005 19:25	1.0	1.0					
131	tr259996	BS	QC278529	98062	Water	06-JAN-2005 19:30	1.0	1.0					
132	tr259997	BSD	QC278530	98062	Water	06-JAN-2005 19:34	1.0	1.0					
133	tr259998	MSS	176984-037	98062	Water	06-JAN-2005 19:40	1.0	1.0					
134	tr259999	MS	QC278531	98062	Water	06-JAN-2005 19:45	1.0	1.0					
135	tr260000	MSD	QC278532	98062	Water	06-JAN-2005 19:50	1.0	1.0				1:CA=171900	
136	tr260001	SAMPLE	176965-001	98062	Filtra	06-JAN-2005 19:56	1.0	1.0	1			1:CA=169800	
137	tr260002	SAMPLE	176965-001	98062	Filtra	06-JAN-2005 20:02	1.0	1.0				5	5:AL=520500
138	tr260003	ICSAB				06-JAN-2005 20:06	1.0	1.0				7	
139	tr260004	CCV				06-JAN-2005 20:13	1.0	1.0					
140	tr260005	CCB				06-JAN-2005 20:20	1.0	1.0					

Stds used: 1=04WS2257 2=04WS2356 3=04WS2346 4=04WS2355 5=04WS2189 6=04WS2357 7=04WS2419 8=05WS0016

Analyst: K Carlyn Date: 1/6/05
Page 5 of 5

Method: 6010B Standard: blank
Run Time: 01/06/05 06:54:26

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.002	-.000	-.001	.004	-.231	.005	.001
SDev	.003	.000	.001	.001	.000	.001	.000
%RSD	169.	173.	58.5	16.4	.043	25.9	53.2
#1	-.004	-.000	-.002	.005	-.232	.005	.000
#2	.000	.000	-.001	.004	-.231	.004	.001
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.001	.004	.001	-.002	.001	.002	-.003
SDev	.000	.001	.000	.001	.001	.001	.001
%RSD	70.6	19.7	4.31	35.2	57.4	53.5	40.5
#1	-.000	.004	.001	-.001	.001	.001	-.003
#2	-.001	.003	.001	-.002	.002	.003	-.002
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.003	-.002	-.002	.001	.020	.0517	-.0033
SDev	.001	.001	.001	.001	.000	.0001	.0000
%RSD	33.7	50.6	32.4	127.	.455	.2623	.3081
#1	.002	-.002	-.002	.001	.020	.0518	-.0033
#2	.004	-.001	-.002	.000	.020	.0516	-.0033
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0010	.0002	.001	.182			
SDev	.0005	.0003	.000	.000			
%RSD	51.82	159.1	44.3	.100			
#1	-.0007	.0004	.001	.182			
#2	-.0014	-.0000	.000	.182			

Method: 6010B Standard: cst hi
 Run Time: 01/06/05 06:58:07

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.830	.441	.170	15.4	2.75	.864	.214
SDev	.004	.000	.001	.0	.01	.002	.001
%RSD	.418	.057	.790	.086	.357	.268	.378
#1	.832	.441	.171	15.4	2.74	.862	.213
#2	.827	.441	.169	15.4	2.76	.865	.214
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.603	.465	.660	.627	1.33	1.54	.188
SDev	.002	.001	.001	.002	.01	.00	.002
%RSD	.272	.161	.193	.312	.846	.130	.778
#1	.601	.464	.659	.625	1.32	1.54	.187
#2	.604	.465	.661	.628	1.33	1.54	.189
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.207	.266	.110	.806	.138	.1468	.2827
SDev	.000	.001	.001	.001	.000	.0001	.0008
%RSD	.118	.360	.630	.110	.235	.0681	.2978
#1	.207	.267	.109	.805	.138	.1469	.2821
#2	.207	.266	.110	.806	.138	.1468	.2832
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.1057	.1607	.958	6.66			
SDev	.0006	.0004	.002	.02			
%RSD	.5795	.2582	.152	.248			
#1	.1062	.1604	.957	6.65			
#2	.1053	.1610	.959	6.67			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	1195.75	2.24210	01/06/05 06:58:07
Sb206A	206.832	Multiple	Standards	2221.91	.423695	01/06/05 06:58:07
As1890	189.042	Multiple	Standards	2926.36	3.37633	01/06/05 06:58:07
Ba4934	493.409	Multiple	Standards	65.0123	-.275177	01/06/05 06:58:07
Be3130	313.042	Multiple	Standards	32.3907	7.49777	01/06/05 06:58:07
Cd2265	226.502	Multiple	Standards	116.342	-.533105	01/06/05 06:58:07
Cr2677	267.716	Multiple	Standards	939.614	-.606197	01/06/05 06:58:07
Co2286	228.616	Multiple	Standards	831.189	.421910	01/06/05 06:58:07
Cu3247	324.754	Multiple	Standards	433.553	-1.58816	01/06/05 06:58:07
Pb2203	220.351	Multiple	Standards	759.784	-1.09332	01/06/05 06:58:07
Pb220A	220.352	Multiple	Standards	788.641	1.40146	01/06/05 06:58:07
Mo2020	202.030	Multiple	Standards	754.823	-.941994	01/06/05 06:58:07
Ni2316	231.604	Multiple	Standards	324.255	-.596717	01/06/05 06:58:07
Se1960	196.021	Multiple	Standards	2628.56	6.62106	01/06/05 06:58:07
Se196A	196.022	Multiple	Standards	2449.84	-7.69647	01/06/05 06:58:07
Ag3280	328.068	Multiple	Standards	373.775	.565733	01/06/05 06:58:07
Tl1908	190.864	Multiple	Standards	4520.74	8.80308	01/06/05 06:58:07
V_2924	292.402	Multiple	Standards	621.058	-.394632	01/06/05 06:58:07
Zn2138	213.856	Multiple	Standards	874.245	-17.4082	01/06/05 06:58:07
Al3082	308.215	Multiple	Standards	10710.5	-554.147	01/06/05 06:58:07
Ca3179	317.933	Multiple	Standards	6994.05	23.0140	01/06/05 06:58:07
Fe2714	271.441	Multiple	Standards	9803.97	10.1617	01/06/05 06:58:07
Mg2790	279.079	Multiple	Standards	12454.8	-2.11091	01/06/05 06:58:07
Mn2576	257.610	Multiple	Standards	104.536	-.070810	01/06/05 06:58:07
Pb sum	220.353	NONE	NONE	1.00000	.000000	*01/06/05 06:58:07
Sb sum	206.838	NONE	NONE	1.00000	.000000	*01/06/05 06:58:07
Se sum	196.026	NONE	NONE	1.00000	.000000	*01/06/05 06:58:07
Ti3349	334.941	Multiple	Standards	154.453	-28.1667	01/06/05 06:58:07

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061001

Run Name :
Filename : tr259864

Injected : 06-JAN-2005 07:01
Caltype :

Standards: 04WS2257

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	1000.000	983.1000	ug/L	-2	5	
Antimony	1000.000	986.0000	ug/L	-1	5	
Arsenic	500.0000	497.0000	ug/L	-1	5	
Barium	1000.000	979.0000	ug/L	-2	5	
Beryllium	100.0000	99.00000	ug/L	-1	5	
Cadmium	100.0000	99.10000	ug/L	-1	5	
Calcium	2000.000	1987.000	ug/L	-1	5	
Chromium	200.0000	197.0000	ug/L	-2	5	
Cobalt	500.0000	495.0000	ug/L	-1	5	
Copper	200.0000	197.0000	ug/L	-2	5	
Iron	1000.000	983.2000	ug/L	-2	5	
Lead	500.0000	496.0000	ug/L	-1	5	
Magnesium	2000.000	1985.000	ug/L	-1	5	
Manganese	100.0000	99.00000	ug/L	-1	5	
Molybdenum	1000.000	986.0000	ug/L	-1	5	
Nickel	500.0000	493.0000	ug/L	-1	5	
Selenium	500.0000	495.0000	ug/L	-1	5	
Silver	100.0000	98.60000	ug/L	-1	5	
Thallium	500.0000	499.0000	ug/L	0	5	
Titanium	1000.000	986.0000	ug/L	-1	5	
Vanadium	500.0000	494.0000	ug/L	-1	5	
Zinc	100.0000	98.60000	ug/L	-1	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061002

Run Name :
Filename : tr259865

Injected : 06-JAN-2005 07:06
Caltype :

Standards: 04WS2356

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Aluminum	500.0000	523.2000	ug/L	5	10	
Antimony	500.0000	507.0000	ug/L	1	10	
Arsenic	250.0000	257.0000	ug/L	3	10	
Barium	500.0000	491.0000	ug/L	-2	10	
Beryllium	50.00000	50.50000	ug/L	1	10	
Cadmium	50.00000	51.50000	ug/L	3	10	
Calcium	1000.000	1032.000	ug/L	3	10	
Chromium	100.0000	102.0000	ug/L	2	10	
Cobalt	250.0000	250.0000	ug/L	0	10	
Copper	100.0000	103.0000	ug/L	3	10	
Iron	500.0000	522.9000	ug/L	5	10	
Lead	250.0000	254.0000	ug/L	2	10	
Magnesium	1000.000	1026.000	ug/L	3	10	
Manganese	50.00000	49.70000	ug/L	-1	10	
Molybdenum	500.0000	508.0000	ug/L	2	10	
Nickel	250.0000	255.0000	ug/L	2	10	
Selenium	250.0000	247.0000	ug/L	-1	10	
Silver	50.00000	51.10000	ug/L	2	10	
Thallium	250.0000	247.0000	ug/L	-1	10	
Titanium	500.0000	492.0000	ug/L	-2	10	
Vanadium	250.0000	250.0000	ug/L	0	10	
Zinc	50.00000	51.90000	ug/L	4	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061003
Filename: tr259866

TJA Trace ICP
Run Name:
Run Type: ICB

Injected: 06-JAN-2005 07:10

Analyte	QuantAmt	RL	Units	Req Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	[2.6900]	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	ND	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	ND	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	[3.1200]	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[1.2200]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061004

Run Name :
Filename : tr259867

Injected : 06-JAN-2005 07:15
Caltype :

Standards: 04WS2346

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	100.0000	122.6000	ug/L	23	50	
Antimony	60.00000	64.80000	ug/L	8	50	
Arsenic	5.000000	5.220000	ug/L	4	50	
Barium	10.00000	9.550000	ug/L	-5	50	
Beryllium	2.000000	1.620000	ug/L	-19	50	
Cadmium	5.000000	4.880000	ug/L	-2	50	
Calcium	200.0000	223.0000	ug/L	12	50	
Chromium	10.00000	9.770000	ug/L	-2	50	
Cobalt	20.00000	19.20000	ug/L	-4	50	
Copper	10.00000	10.30000	ug/L	3	50	
Iron	100.0000	90.45000	ug/L	-10	50	
Lead	3.000000	3.300000	ug/L	10	50	
Magnesium	200.0000	204.1000	ug/L	2	50	
Manganese	10.00000	9.750000	ug/L	-3	50	
Molybdenum	20.00000	20.90000	ug/L	5	50	
Nickel	20.00000	19.80000	ug/L	-1	50	
Selenium	5.000000	5.430000	ug/L	9	50	
Silver	5.000000	4.900000	ug/L	-2	50	
Thallium	5.000000	5.860000	ug/L	17	50	
Vanadium	10.00000	9.640000	ug/L	-4	50	
Zinc	20.00000	21.10000	ug/L	6	50	

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061005
Filename: tr259868

TJA Trace ICP
Run Name:
Run Type: ICSA

Injected: 06-JAN-2005 07:23

Analyte	QuantAmt	RL	Units	Req	Flags
Antimony	[4.9900]	60.00000	ug/L	<RL	
Arsenic	[3.1500]	5.000000	ug/L	<RL	
Barium	[-0.040]	10.00000	ug/L	<RL	
Beryllium	[-0.889]	2.000000	ug/L	<RL	
Cadmium	[0.6820]	5.000000	ug/L	<RL	
Chromium	[2.4800]	10.00000	ug/L	<RL	
Cobalt	[0.2110]	10.00000	ug/L	<RL	
Copper	[-3.300]	10.00000	ug/L	<RL	
Lead	[-0.214]	3.000000	ug/L	<RL	
Manganese	[1.8700]	10.00000	ug/L	<RL	
Molybdenum	[-0.402]	20.00000	ug/L	<RL	
Nickel	[1.8300]	20.00000	ug/L	<RL	
Selenium	[1.3300]	5.000000	ug/L	<RL	
Silver	[0.2890]	5.000000	ug/L	<RL	
Thallium	[4.1200]	5.000000	ug/L	<RL	
Titanium	19.50000	10.00000	ug/L	<RL	
Vanadium	[-3.210]	10.00000	ug/L	<RL	
Zinc	[3.8900]	20.00000	ug/L	<RL	

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	500000	525200	ug/L	105
Calcium	500000	454100.	ug/L	91
Iron	200000	182200	ug/L	91
Magnesium	500000	527800	ug/L	106

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061006

Run Name :
Filename : tr259869

Injected : 06-JAN-2005 07:27
Calttype :

Standards: 04WS2189

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	499300.0	ug/L	0			
Antimony	500.0000	503.0000	ug/L	1		20	
Arsenic	500.0000	498.0000	ug/L	0		20	
Barium	500.0000	464.0000	ug/L	-7		20	
Beryllium	500.0000	466.0000	ug/L	-7		20	
Cadmium	1000.000	877.0000	ug/L	-12		20	
Calcium	500000.0	431300.0	ug/L	-14			
Chromium	500.0000	447.0000	ug/L	-11		20	
Cobalt	500.0000	446.0000	ug/L	-11		20	
Copper	500.0000	497.0000	ug/L	-1		20	
Iron	200000.0	172400.0	ug/L	-14			
Lead	1000.000	913.0000	ug/L	-9		20	
Magnesium	500000.0	495100.0	ug/L	-1			
Manganese	500.0000	446.0000	ug/L	-11		20	
Molybdenum	500.0000	463.0000	ug/L	-7		20	
Nickel	1000.000	845.0000	ug/L	-16		20	
Selenium	500.0000	509.0000	ug/L	2		20	
Silver	1000.000	902.0000	ug/L	-10		20	
Thallium	500.0000	467.0000	ug/L	-7		20	
Titanium	20000.00	19900.00	ug/L	-1			
Vanadium	500.0000	458.0000	ug/L	-8		20	
Zinc	1000.000	928.0000	ug/L	-7		20	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061014

Run Name :
Filename : tr259877

IDF : 1.0
Injected : 06-JAN-2005 08:16
Caltype :

Standards: 04WS2357

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	496.5000	ug/L	-1		10	
Antimony		500.0000	502.0000	ug/L	0		10	
Arsenic		250.0000	256.0000	ug/L	2		10	
Barium		500.0000	471.0000	ug/L	-6		10	
Beryllium		50.00000	51.60000	ug/L	3		10	
Cadmium		50.00000	51.60000	ug/L	3		10	
Calcium		1000.000	1038.000	ug/L	4		10	
Chromium		100.0000	103.0000	ug/L	3		10	
Cobalt		250.0000	254.0000	ug/L	2		10	
Copper		100.0000	103.0000	ug/L	3		10	
Iron		500.0000	566.0000	ug/L	13		10	c+ *
Lead		250.0000	260.0000	ug/L	4		10	
Magnesium		1000.000	1039.000	ug/L	4		10	
Manganese		50.00000	51.00000	ug/L	2		10	
Molybdenum		500.0000	520.0000	ug/L	4		10	
Nickel		250.0000	259.0000	ug/L	4		10	
Selenium		250.0000	251.0000	ug/L	0		10	
Silver		50.00000	50.90000	ug/L	2		10	
Thallium		250.0000	250.0000	ug/L	0		10	
Titanium		500.0000	491.0000	ug/L	-2		10	
Vanadium		250.0000	251.0000	ug/L	0		10	
Zinc		50.00000	53.90000	ug/L	8		10	

+ = high bias c = CCV
Page 1 of 1

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061015
Filename: tr259878

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 08:20

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum		ND	100.0000	ug/L	<	RL
Antimony	[4.1300]		60.00000	ug/L	<	RL
Arsenic		ND	5.000000	ug/L	<	RL
Barium		ND	10.00000	ug/L	<	RL
Beryllium		ND	2.000000	ug/L	<	RL
Cadmium		ND	5.000000	ug/L	<	RL
Calcium	[23.360]		500.0000	ug/L	<	RL
Chromium		ND	10.00000	ug/L	<	RL
Cobalt		ND	10.00000	ug/L	<	RL
Copper		ND	10.00000	ug/L	<	RL
Iron	[16.120]		100.0000	ug/L	<	RL
Lead		ND	3.000000	ug/L	<	RL
Magnesium	[8.9900]		500.0000	ug/L	<	RL
Manganese	[0.5050]		10.00000	ug/L	<	RL
Molybdenum	[2.3100]		20.00000	ug/L	<	RL
Nickel		ND	20.00000	ug/L	<	RL
Selenium		ND	5.000000	ug/L	<	RL
Silver		ND	5.000000	ug/L	<	RL
Thallium		ND	5.000000	ug/L	<	RL
Titanium	[2.4300]		10.00000	ug/L	<	RL
Vanadium		ND	10.00000	ug/L	<	RL
Zinc		ND	20.00000	ug/L	<	RL

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061026

Run Name :
Filename : tr259889

IDF : 1.0
Injected : 06-JAN-2005 09:12
Caltype :

Standards: 04WS2419

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	739.5000	ug/L	-1	10	
Antimony		750.0000	720.0000	ug/L	-4	10	
Arsenic		375.0000	367.0000	ug/L	-2	10	
Barium		750.0000	687.0000	ug/L	-8	10	
Beryllium		75.00000	75.00000	ug/L	0	10	
Cadmium		75.00000	74.50000	ug/L	-1	10	
Calcium		1500.000	1471.000	ug/L	-2	10	
Chromium		150.0000	149.0000	ug/L	-1	10	
Cobalt		375.0000	364.0000	ug/L	-3	10	
Copper		150.0000	146.0000	ug/L	-3	10	
Iron		750.0000	914.2000	ug/L	22	10	c+ **
Lead		375.0000	375.0000	ug/L	0	10	
Magnesium		1500.000	1496.000	ug/L	0	10	
Manganese		75.00000	75.90000	ug/L	1	10	
Molybdenum		750.0000	725.0000	ug/L	-3	10	
Nickel		375.0000	371.0000	ug/L	-1	10	
Selenium		375.0000	369.0000	ug/L	-2	10	
Silver		75.00000	73.90000	ug/L	-1	10	
Thallium		375.0000	367.0000	ug/L	-2	10	
Titanium		750.0000	723.0000	ug/L	-4	10	
Vanadium		375.0000	360.0000	ug/L	-4	10	
Zinc		75.00000	76.90000	ug/L	3	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061027
Filename: tr259890

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 09:28

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	ND		60.00000	ug/L	<	RL
Arsenic	[2.8900]		5.000000	ug/L	<	RL
Barium	ND		10.00000	ug/L	<	RL
Beryllium	[0.3800]		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[17.910]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	[14.080]		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	ND		500.0000	ug/L	<	RL
Manganese	ND		10.00000	ug/L	<	RL
Molybdenum	[1.5800]		20.00000	ug/L	<	RL
Nickel	ND		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[1.4500]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061038

Run Name :
Filename : tr259901

IDF : 1.0
Injected : 06-JAN-2005 10:26
Caltype :

Standards: 04WS2357

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	479.5000	ug/L	-4		10	
Antimony		500.0000	470.0000	ug/L	-6		10	
Arsenic		250.0000	240.0000	ug/L	-4		10	
Barium		500.0000	457.0000	ug/L	-9		10	
Beryllium		50.00000	47.40000	ug/L	-5		10	
Cadmium		50.00000	48.60000	ug/L	-3		10	
Calcium		1000.000	1090.000	ug/L	9		10	
Chromium		100.0000	95.80000	ug/L	-4		10	
Cobalt		250.0000	232.0000	ug/L	-7		10	
Copper		100.0000	95.70000	ug/L	-4		10	
Iron		500.0000	470.5000	ug/L	-6		10	
Lead		250.0000	239.0000	ug/L	-4		10	
Magnesium		1000.000	980.9000	ug/L	-2		10	
Manganese		50.00000	45.30000	ug/L	-9		10	
Molybdenum		500.0000	469.0000	ug/L	-6		10	
Nickel		250.0000	241.0000	ug/L	-4		10	
Selenium		250.0000	232.0000	ug/L	-7		10	
Silver		50.00000	48.50000	ug/L	-3		10	
Thallium		250.0000	226.0000	ug/L	-10		10	
Titanium		500.0000	459.0000	ug/L	-8		10	
Vanadium		250.0000	235.0000	ug/L	-6		10	
Zinc		50.00000	51.30000	ug/L	3		10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061039
Filename: tr259902

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 10:39

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	ND		60.00000	ug/L	<	RL
Arsenic	[3.3500]		5.000000	ug/L	<	RL
Barium	ND		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[20.810]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	ND		500.0000	ug/L	<	RL
Manganese	ND		10.00000	ug/L	<	RL
Molybdenum	[1.4600]		20.00000	ug/L	<	RL
Nickel	ND		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[8.5000]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061050

Run Name :
Filename : tr259913

IDF : 1.0
Injected : 06-JAN-2005 11:26
Caltpe :

Standards: 04WS2419

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	742.5000	ug/L	-1		10	
Antimony		750.0000	753.0000	ug/L	0		10	
Arsenic		375.0000	384.0000	ug/L	2		10	
Barium		750.0000	755.0000	ug/L	1		10	
Beryllium		75.00000	76.10000	ug/L	1		10	
Cadmium		75.00000	77.80000	ug/L	4		10	
Calcium		1500.000	1458.000	ug/L	-3		10	
Chromium		150.0000	152.0000	ug/L	1		10	
Cobalt		375.0000	371.0000	ug/L	-1		10	
Copper		150.0000	152.0000	ug/L	1		10	
Iron		750.0000	759.6000	ug/L	1		10	
Lead		375.0000	378.0000	ug/L	1		10	
Magnesium		1500.000	1539.000	ug/L	3		10	
Manganese		75.00000	74.10000	ug/L	-1		10	
Molybdenum		750.0000	733.0000	ug/L	-2		10	
Nickel		375.0000	382.0000	ug/L	2		10	
Selenium		375.0000	378.0000	ug/L	1		10	
Silver		75.00000	76.60000	ug/L	2		10	
Thallium		375.0000	372.0000	ug/L	-1		10	
Titanium		750.0000	755.0000	ug/L	1		10	
Vanadium		375.0000	372.0000	ug/L	-1		10	
Zinc		75.00000	78.70000	ug/L	5		10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061051
Filename: tr259914

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 11:31

Analyte	Quant	Amt	RL	Units	Reg	Flags
Aluminum	ND	100.0000		ug/L	<	RL
Antimony	ND	60.00000		ug/L	<	RL
Arsenic	[4.2200]	5.000000		ug/L	<	RL
Barium	ND	10.00000		ug/L	<	RL
Beryllium	[0.6060]	2.000000		ug/L	<	RL
Cadmium	ND	5.000000		ug/L	<	RL
Calcium	[16.940]	500.0000		ug/L	<	RL
Chromium	ND	10.00000		ug/L	<	RL
Cobalt	ND	10.00000		ug/L	<	RL
Copper	ND	10.00000		ug/L	<	RL
Iron	ND	100.0000		ug/L	<	RL
Lead	ND	3.000000		ug/L	<	RL
Magnesium	[16.270]	500.0000		ug/L	<	RL
Manganese	[0.4750]	10.00000		ug/L	<	RL
Molybdenum	[6.1800]	20.00000		ug/L	<	RL
Nickel	ND	20.00000		ug/L	<	RL
Selenium	ND	5.000000		ug/L	<	RL
Silver	ND	5.000000		ug/L	<	RL
Thallium	ND	5.000000		ug/L	<	RL
Titanium	[8.1700]	10.00000		ug/L	<	RL
Vanadium	ND	10.00000		ug/L	<	RL
Zinc	ND	20.00000		ug/L	<	RL

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instdid : MET07
Seqnum : 75009061060

Run Name :
Filename : tr259923

Injected : 06-JAN-2005 12:22
Calttype :

Standards: 04WS2189

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	497400.0	ug/L	-1			
Antimony	500.0000	541.0000	ug/L	8	20		
Arsenic	500.0000	536.0000	ug/L	7	20		
Barium	500.0000	511.0000	ug/L	2	20		
Beryllium	500.0000	477.0000	ug/L	-5	20		
Cadmium	1000.000	954.0000	ug/L	-5	20		
Calcium	500000.0	417000.0	ug/L	-17			
Chromium	500.0000	475.0000	ug/L	-5	20		
Cobalt	500.0000	466.0000	ug/L	-7	20		
Copper	500.0000	510.0000	ug/L	2	20		
Iron	200000.0	179000.0	ug/L	-11			
Lead	1000.000	958.0000	ug/L	-4	20		
Magnesium	500000.0	510600.0	ug/L	2			
Manganese	500.0000	454.0000	ug/L	-9	20		
Molybdenum	500.0000	489.0000	ug/L	-2	20		
Nickel	1000.000	916.0000	ug/L	-8	20		
Selenium	500.0000	532.0000	ug/L	6	20		
Silver	1000.000	936.0000	ug/L	-6	20		
Thallium	500.0000	510.0000	ug/L	2	20		
Titanium	20000.00	21000.00	ug/L	5			
Vanadium	500.0000	479.0000	ug/L	-4	20		
Zinc	1000.000	984.0000	ug/L	-2	20		

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061061

Run Name :
Filename : tr259924

IDF : 1.0
Injected : 06-JAN-2005 12:29
Caltype :

Standards: 04WS2357

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	557.6000	ug/L	12	10	c+ **
Antimony		500.0000	516.0000	ug/L	3	10	
Arsenic		250.0000	263.0000	ug/L	5	10	
Barium		500.0000	520.0000	ug/L	4	10	
Beryllium		50.00000	51.50000	ug/L	3	10	
Cadmium		50.00000	52.90000	ug/L	6	10	
Calcium		1000.000	982.2000	ug/L	-2	10	
Chromium		100.0000	103.0000	ug/L	3	10	
Cobalt		250.0000	249.0000	ug/L	0	10	
Copper		100.0000	103.0000	ug/L	3	10	
Iron		500.0000	528.0000	ug/L	6	10	
Lead		250.0000	255.0000	ug/L	2	10	
Magnesium		1000.000	1063.000	ug/L	6	10	
Manganese		50.00000	48.60000	ug/L	-3	10	
Molybdenum		500.0000	504.0000	ug/L	1	10	
Nickel		250.0000	261.0000	ug/L	4	10	
Selenium		250.0000	250.0000	ug/L	0	10	
Silver		50.00000	51.00000	ug/L	2	10	
Thallium		250.0000	253.0000	ug/L	1	10	
Titanium		500.0000	506.0000	ug/L	1	10	
Vanadium		250.0000	250.0000	ug/L	0	10	
Zinc		50.00000	53.50000	ug/L	7	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061062
Filename: tr259925

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 12:33

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[5.1100]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	ND		10.00000	ug/L	<	RL
Beryllium	[1.5500]		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[27.320]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	[13.340]		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[35.680]		500.0000	ug/L	<	RL
Manganese	ND		10.00000	ug/L	<	RL
Molybdenum	[3.3500]		20.00000	ug/L	<	RL
Nickel	ND		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[6.9800]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061073

Run Name :
Filename : tr259936

IDF : 1.0
Injected : 06-JAN-2005 13:35
Caltpe :

Standards: 04WS2419

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	742.4000	ug/L	-1	10	
Antimony		750.0000	771.0000	ug/L	3	10	
Arsenic		375.0000	395.0000	ug/L	5	10	
Barium		750.0000	781.0000	ug/L	4	10	
Beryllium		75.00000	75.00000	ug/L	0	10	
Cadmium		75.00000	79.90000	ug/L	7	10	
Calcium		1500.000	1369.000	ug/L	-9	10	
Chromium		150.0000	151.0000	ug/L	1	10	
Cobalt		375.0000	366.0000	ug/L	-2	10	
Copper		150.0000	149.0000	ug/L	-1	10	
Iron		750.0000	757.5000	ug/L	1	10	
Lead		375.0000	379.0000	ug/L	1	10	
Magnesium		1500.000	1515.000	ug/L	1	10	
Manganese		75.00000	70.70000	ug/L	-6	10	
Molybdenum		750.0000	736.0000	ug/L	-2	10	
Nickel		375.0000	390.0000	ug/L	4	10	
Selenium		375.0000	390.0000	ug/L	4	10	
Silver		75.00000	74.80000	ug/L	0	10	
Thallium		375.0000	384.0000	ug/L	2	10	
Titanium		750.0000	754.0000	ug/L	1	10	
Vanadium		375.0000	366.0000	ug/L	-2	10	
Zinc		75.00000	79.10000	ug/L	5	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061074
Filename: tr259937

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 13:38

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<	RL
Antimony	[5.3000]	60.00000	ug/L	<	RL
Arsenic	[3.2100]	5.000000	ug/L	<	RL
Barium	[0.5270]	10.00000	ug/L	<	RL
Beryllium	ND	2.000000	ug/L	<	RL
Cadmium	ND	5.000000	ug/L	<	RL
Calcium	ND	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	ND	10.00000	ug/L	<	RL
Copper	ND	10.00000	ug/L	<	RL
Iron	ND	100.0000	ug/L	<	RL
Lead	[1.1700]	3.000000	ug/L	<	RL
Magnesium	[14.200]	500.0000	ug/L	<	RL
Manganese	ND	10.00000	ug/L	<	RL
Molybdenum	[7.3600]	20.00000	ug/L	<	RL
Nickel	ND	20.00000	ug/L	<	RL
Selenium	ND	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	ND	5.000000	ug/L	<	RL
Titanium	[6.0500]	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	ND	20.00000	ug/L	<	RL

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061079

Run Name :
Filename : tr259942

IDF : 1.0
Injected : 06-JAN-2005 14:01
Caltype :

Standards: 04WS2357

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	531.0000	ug/L	6	10	
Antimony		500.0000	531.0000	ug/L	6	10	
Arsenic		250.0000	271.0000	ug/L	8	10	
Barium		500.0000	539.0000	ug/L	8	10	
Beryllium		50.00000	50.90000	ug/L	2	10	
Cadmium		50.00000	54.60000	ug/L	9	10	
Calcium		1000.000	916.7000	ug/L	-8	10	
Chromium		100.0000	104.0000	ug/L	4	10	
Cobalt		250.0000	250.0000	ug/L	0	10	
Copper		100.0000	102.0000	ug/L	2	10	
Iron		500.0000	504.0000	ug/L	1	10	
Lead		250.0000	260.0000	ug/L	4	10	
Magnesium		1000.000	1028.000	ug/L	3	10	
Manganese		50.00000	47.70000	ug/L	-5	10	
Molybdenum		500.0000	516.0000	ug/L	3	10	
Nickel		250.0000	268.0000	ug/L	7	10	
Selenium		250.0000	260.0000	ug/L	4	10	
Silver		50.00000	50.50000	ug/L	1	10	
Thallium		250.0000	263.0000	ug/L	5	10	
Titanium		500.0000	508.0000	ug/L	2	10	
Vanadium		250.0000	250.0000	ug/L	0	10	
Zinc		50.00000	54.50000	ug/L	9	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061080
Filename: tr259943

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 14:05

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[76.640]	100.0000	ug/L	<RL	
Antimony	[3.8000]	60.00000	ug/L	<RL	
Arsenic	[4.1100]	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[0.5680]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[12.000]	100.0000	ug/L	<RL	
Lead	[1.2700]	3.000000	ug/L	<RL	
Magnesium	[12.780]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[2.7800]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[5.6600]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061081

Run Name :
Filename : tr259945

Injected : 06-JAN-2005 14:09
Caltpe :

Standards: 04WS2189

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	487600.0	ug/L	-2			
Antimony	500.0000	556.0000	ug/L	11	20		
Arsenic	500.0000	546.0000	ug/L	9	20		
Barium	500.0000	531.0000	ug/L	6	20		
Beryllium	500.0000	476.0000	ug/L	-5	20		
Cadmium	1000.000	989.0000	ug/L	-1	20		
Calcium	500000.0	402900.0	ug/L	-19			
Chromium	500.0000	475.0000	ug/L	-5	20		
Cobalt	500.0000	464.0000	ug/L	-7	20		
Copper	500.0000	505.0000	ug/L	1	20		
Iron	200000.0	178100.0	ug/L	-11			
Lead	1000.000	966.0000	ug/L	-3	20		
Magnesium	500000.0	508800.0	ug/L	2			
Manganese	500.0000	442.0000	ug/L	-12	20		
Molybdenum	500.0000	496.0000	ug/L	-1	20		
Nickel	1000.000	938.0000	ug/L	-6	20		
Selenium	500.0000	542.0000	ug/L	8	20		
Silver	1000.000	925.0000	ug/L	-8	20		
Thallium	500.0000	519.0000	ug/L	4	20		
Titanium	20000.00	21100.00	ug/L	6			
Vanadium	500.0000	477.0000	ug/L	-5	20		
Zinc	1000.000	1000.000	ug/L	0	20		

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061090

Run Name :
Filename : tr259954

Injected : 06-JAN-2005 15:18
Caltpe :

Standards: 04WS2189

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	491200.0	ug/L	-2			
Antimony	500.0000	575.0000	ug/L	15	20		
Arsenic	500.0000	573.0000	ug/L	15	20		
Barium	500.0000	561.0000	ug/L	12	20		
Beryllium	500.0000	487.0000	ug/L	-3	20		
Cadmium	1000.000	1040.000	ug/L	4	20		
Calcium	500000.0	406000.0	ug/L	-19			
Chromium	500.0000	491.0000	ug/L	-2	20		
Cobalt	500.0000	478.0000	ug/L	-4	20		
Copper	500.0000	518.0000	ug/L	4	20		
Iron	200000.0	183000.0	ug/L	-9			
Lead	1000.000	992.0000	ug/L	-1	20		
Magnesium	500000.0	524100.0	ug/L	5			
Manganese	500.0000	452.0000	ug/L	-10	20		
Molybdenum	500.0000	507.0000	ug/L	1	20		
Nickel	1000.000	984.0000	ug/L	-2	20		
Selenium	500.0000	553.0000	ug/L	11	20		
Silver	1000.000	947.0000	ug/L	-5	20		
Thallium	500.0000	535.0000	ug/L	7	20		
Titanium	20000.00	21900.00	ug/L	10			
Vanadium	500.0000	492.0000	ug/L	-2	20		
Zinc	1000.000	1060.000	ug/L	6	20		

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061091

Run Name :
Filename : tr259955

IDF : 1.0
Injected : 06-JAN-2005 15:27
Caltype :

Standards: 04WS2419

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	743.5000	ug/L	-1	10	
Antimony		750.0000	756.0000	ug/L	1	10	
Arsenic		375.0000	388.0000	ug/L	3	10	
Barium		750.0000	799.0000	ug/L	7	10	
Beryllium		75.00000	71.70000	ug/L	-4	10	
Cadmium		75.00000	78.90000	ug/L	5	10	
Calcium		1500.000	1350.000	ug/L	-10	10	
Chromium		150.0000	145.0000	ug/L	-3	10	
Cobalt		375.0000	350.0000	ug/L	-7	10	
Copper		150.0000	142.0000	ug/L	-5	10	
Iron		750.0000	745.2000	ug/L	-1	10	
Lead		375.0000	361.0000	ug/L	-4	10	
Magnesium		1500.000	1463.000	ug/L	-2	10	
Manganese		75.00000	66.50000	ug/L	-11	10	c- **
Molybdenum		750.0000	707.0000	ug/L	-6	10	
Nickel		375.0000	382.0000	ug/L	2	10	
Selenium		375.0000	376.0000	ug/L	0	10	
Silver		75.00000	72.00000	ug/L	-4	10	
Thallium		375.0000	372.0000	ug/L	-1	10	
Titanium		750.0000	734.0000	ug/L	-2	10	
Vanadium		375.0000	348.0000	ug/L	-7	10	
Zinc		75.00000	77.10000	ug/L	3	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061092
Filename: tr259956

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 15:32

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	108.9000		100.0000	ug/L	<RL	ib ***
Antimony	[6.3300]		60.00000	ug/L	<RL	
Arsenic	ND		5.000000	ug/L	<RL	
Barium	[0.5030]		10.00000	ug/L	<RL	
Beryllium	ND		2.000000	ug/L	<RL	
Cadmium	ND		5.000000	ug/L	<RL	
Calcium	[33.680]		500.0000	ug/L	<RL	
Chromium	ND		10.00000	ug/L	<RL	
Cobalt	ND		10.00000	ug/L	<RL	
Copper	ND		10.00000	ug/L	<RL	
Iron	[18.970]		100.0000	ug/L	<RL	
Lead	[1.3000]		3.000000	ug/L	<RL	
Magnesium	[28.150]		500.0000	ug/L	<RL	
Manganese	[0.4690]		10.00000	ug/L	<RL	
Molybdenum	[5.5800]		20.00000	ug/L	<RL	
Nickel	ND		20.00000	ug/L	<RL	
Selenium	ND		5.000000	ug/L	<RL	
Silver	ND		5.000000	ug/L	<RL	
Thallium	ND		5.000000	ug/L	<RL	
Titanium	[6.9500]		10.00000	ug/L	<RL	
Vanadium	ND		10.00000	ug/L	<RL	
Zinc	ND		20.00000	ug/L	<RL	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061103

Run Name :
Filename : tr259967

IDF : 1.0
Injected : 06-JAN-2005 16:28
Caltpe :

Standards: 04WS2357

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	519.7000	ug/L	4		10	
Antimony		500.0000	499.0000	ug/L	0		10	
Arsenic		250.0000	252.0000	ug/L	1		10	
Barium		500.0000	495.0000	ug/L	-1		10	
Beryllium		50.00000	49.80000	ug/L	0		10	
Cadmium		50.00000	50.80000	ug/L	2		10	
Calcium		1000.000	1147.000	ug/L	15		10	c+ **
Chromium		100.0000	100.0000	ug/L	0		10	
Cobalt		250.0000	245.0000	ug/L	-2		10	
Copper		100.0000	100.0000	ug/L	0		10	
Iron		500.0000	537.1000	ug/L	7		10	
Lead		250.0000	246.0000	ug/L	-2		10	
Magnesium		1000.000	1015.000	ug/L	2		10	
Manganese		50.00000	49.80000	ug/L	0		10	
Molybdenum		500.0000	491.0000	ug/L	-2		10	
Nickel		250.0000	250.0000	ug/L	0		10	
Selenium		250.0000	243.0000	ug/L	-3		10	
Silver		50.00000	50.30000	ug/L	1		10	
Thallium		250.0000	239.0000	ug/L	-4		10	
Titanium		500.0000	491.0000	ug/L	-2		10	
Vanadium		250.0000	247.0000	ug/L	-1		10	
Zinc		50.00000	51.80000	ug/L	4		10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061104
Filename: tr259968

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 16:41

Analyte	QuantAmt	RL	Units	Reg Flags
Aluminum	ND	100.0000	ug/L	<RL
Antimony	ND	60.00000	ug/L	<RL
Arsenic	ND	5.000000	ug/L	<RL
Barium	ND	10.00000	ug/L	<RL
Beryllium	ND	2.000000	ug/L	<RL
Cadmium	ND	5.000000	ug/L	<RL
Calcium	ND	500.0000	ug/L	<RL
Chromium	ND	10.00000	ug/L	<RL
Cobalt	ND	10.00000	ug/L	<RL
Copper	ND	10.00000	ug/L	<RL
Iron	[25.780]	100.0000	ug/L	<RL
Lead	ND	3.000000	ug/L	<RL
Magnesium	[18.510]	500.0000	ug/L	<RL
Manganese	ND	10.00000	ug/L	<RL
Molybdenum	ND	20.00000	ug/L	<RL
Nickel	ND	20.00000	ug/L	<RL
Selenium	ND	5.000000	ug/L	<RL
Silver	ND	5.000000	ug/L	<RL
Thallium	ND	5.000000	ug/L	<RL
Titanium	[6.8700]	10.00000	ug/L	<RL
Vanadium	ND	10.00000	ug/L	<RL
Zinc	ND	20.00000	ug/L	<RL

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061115

Run Name :
Filename : tr259980

IDF : 1.0
Injected : 06-JAN-2005 17:55
Caltype :

Standards: 05WS0016

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		250.0000	229.7000	ug/L	-8		10	
Antimony		250.0000	230.0000	ug/L	-8		10	
Arsenic		125.0000	126.0000	ug/L	1		10	
Barium		250.0000	241.0000	ug/L	-4		10	
Beryllium		25.00000	24.40000	ug/L	-2		10	
Cadmium		25.00000	24.70000	ug/L	-1		10	
Calcium		500.0000	417.0000	ug/L	-17		10	c- **
Chromium		50.00000	48.10000	ug/L	-4		10	
Cobalt		125.0000	118.0000	ug/L	-6		10	
Copper		50.00000	46.00000	ug/L	-8		10	
Iron		250.0000	238.4000	ug/L	-5		10	
Lead		125.0000	121.0000	ug/L	-3		10	
Magnesium		500.0000	499.7000	ug/L	0		10	
Manganese		25.00000	23.90000	ug/L	-4		10	
Molybdenum		250.0000	232.0000	ug/L	-7		10	
Nickel		125.0000	122.0000	ug/L	-2		10	
Selenium		125.0000	121.0000	ug/L	-3		10	
Silver		25.00000	24.30000	ug/L	-3		10	
Thallium		125.0000	114.0000	ug/L	-9		10	
Titanium		250.0000	245.0000	ug/L	-2		10	
Vanadium		125.0000	118.0000	ug/L	-6		10	
Zinc		25.00000	24.80000	ug/L	-1		10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061116
Filename: tr259981

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 18:07

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[4.2500]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	ND		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	ND		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	ND		500.0000	ug/L	<	RL
Manganese	ND		10.00000	ug/L	<	RL
Molybdenum	ND		20.00000	ug/L	<	RL
Nickel	ND		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[7.1800]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061127

Run Name :
Filename : tr259992

IDF : 1.0
Injected : 06-JAN-2005 19:07
Caltype :

Standards: 04WS2357

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	487.8000	ug/L	-2		10	
Antimony		500.0000	511.0000	ug/L	2		10	
Arsenic		250.0000	256.0000	ug/L	2		10	
Barium		500.0000	512.0000	ug/L	2		10	
Beryllium		50.00000	50.10000	ug/L	0		10	
Cadmium		50.00000	52.30000	ug/L	5		10	
Calcium		1000.000	943.8000	ug/L	-6		10	
Chromium		100.0000	101.0000	ug/L	1		10	
Cobalt		250.0000	247.0000	ug/L	-1		10	
Copper		100.0000	99.70000	ug/L	0		10	
Iron		500.0000	473.7000	ug/L	-5		10	
Lead		250.0000	251.0000	ug/L	0		10	
Magnesium		1000.000	1017.000	ug/L	2		10	
Manganese		50.00000	49.20000	ug/L	-2		10	
Molybdenum		500.0000	495.0000	ug/L	-1		10	
Nickel		250.0000	256.0000	ug/L	2		10	
Selenium		250.0000	246.0000	ug/L	-2		10	
Silver		50.00000	50.10000	ug/L	0		10	
Thallium		250.0000	238.0000	ug/L	-5		10	
Titanium		500.0000	494.0000	ug/L	-1		10	
Vanadium		250.0000	248.0000	ug/L	-1		10	
Zinc		50.00000	51.40000	ug/L	3		10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061128
Filename: tr259993

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 19:13

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<	RL
Antimony	ND	60.00000	ug/L	<	RL
Arsenic	[3.2700]	5.000000	ug/L	<	RL
Barium	ND	10.00000	ug/L	<	RL
Beryllium	[0.2700]	2.000000	ug/L	<	RL
Cadmium	ND	5.000000	ug/L	<	RL
Calcium	[17.790]	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	ND	10.00000	ug/L	<	RL
Copper	ND	10.00000	ug/L	<	RL
Iron	ND	100.0000	ug/L	<	RL
Lead	ND	3.000000	ug/L	<	RL
Magnesium	[9.1390]	500.0000	ug/L	<	RL
Manganese	[0.6220]	10.00000	ug/L	<	RL
Molybdenum	[1.9200]	20.00000	ug/L	<	RL
Nickel	ND	20.00000	ug/L	<	RL
Selenium	ND	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	ND	5.000000	ug/L	<	RL
Titanium	[8.0000]	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	ND	20.00000	ug/L	<	RL

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061138

Run Name :
Filename : tr260003

Injected : 06-JAN-2005 20:06
Caltpe :

Standards: 04WS2189

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	520500.0	ug/L	4			
Antimony	500.0000	555.0000	ug/L	11		20	
Arsenic	500.0000	548.0000	ug/L	10		20	
Barium	500.0000	522.0000	ug/L	4		20	
Beryllium	500.0000	481.0000	ug/L	-4		20	
Cadmium	1000.000	978.0000	ug/L	-2		20	
Calcium	500000.0	405900.0	ug/L	-19			
Chromium	500.0000	475.0000	ug/L	-5		20	
Cobalt	500.0000	472.0000	ug/L	-6		20	
Copper	500.0000	519.0000	ug/L	4		20	
Iron	200000.0	176200.0	ug/L	-12			
Lead	1000.000	967.0000	ug/L	-3		20	
Magnesium	500000.0	517200.0	ug/L	3			
Manganese	500.0000	458.0000	ug/L	-8		20	
Molybdenum	500.0000	491.0000	ug/L	-2		20	
Nickel	1000.000	928.0000	ug/L	-7		20	
Selenium	500.0000	539.0000	ug/L	8		20	
Silver	1000.000	939.0000	ug/L	-6		20	
Thallium	500.0000	497.0000	ug/L	-1		20	
Titanium	20000.00	21100.00	ug/L	6			
Vanadium	500.0000	491.0000	ug/L	-2		20	
Zinc	1000.000	1030.000	ug/L	3		20	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061139

Run Name :
Filename : tr260004

IDF : 1.0
Injected : 06-JAN-2005 20:13
Caltpe :

Standards: 04WS2419

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	764.0000	ug/L	2	10	
Antimony		750.0000	743.0000	ug/L	-1	10	
Arsenic		375.0000	379.0000	ug/L	1	10	
Barium		750.0000	741.0000	ug/L	-1	10	
Beryllium		75.00000	72.60000	ug/L	-3	10	
Cadmium		75.00000	77.00000	ug/L	3	10	
Calcium		1500.000	1371.000	ug/L	-9	10	
Chromium		150.0000	145.0000	ug/L	-3	10	
Cobalt		375.0000	357.0000	ug/L	-5	10	
Copper		150.0000	144.0000	ug/L	-4	10	
Iron		750.0000	739.3000	ug/L	-1	10	
Lead		375.0000	367.0000	ug/L	-2	10	
Magnesium		1500.000	1519.000	ug/L	1	10	
Manganese		75.00000	69.40000	ug/L	-7	10	
Molybdenum		750.0000	697.0000	ug/L	-7	10	
Nickel		375.0000	372.0000	ug/L	-1	10	
Selenium		375.0000	377.0000	ug/L	1	10	
Silver		75.00000	72.40000	ug/L	-3	10	
Thallium		375.0000	353.0000	ug/L	-6	10	
Titanium		750.0000	727.0000	ug/L	-3	10	
Vanadium		375.0000	355.0000	ug/L	-5	10	
Zinc		75.00000	75.20000	ug/L	0	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061140
Filename: tr260005

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 20:20

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<	RL
Antimony	[5.9500]	60.00000	ug/L	<	RL
Arsenic	[3.0700]	5.000000	ug/L	<	RL
Barium	ND	10.00000	ug/L	<	RL
Beryllium	[0.5810]	2.000000	ug/L	<	RL
Cadmium	ND	5.000000	ug/L	<	RL
Calcium	[20.610]	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	ND	10.00000	ug/L	<	RL
Copper	ND	10.00000	ug/L	<	RL
Iron	ND	100.0000	ug/L	<	RL
Lead	ND	3.000000	ug/L	<	RL
Magnesium	[20.000]	500.0000	ug/L	<	RL
Manganese	ND	10.00000	ug/L	<	RL
Molybdenum	[6.0400]	20.00000	ug/L	<	RL
Nickel	ND	20.00000	ug/L	<	RL
Selenium	ND	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	ND	5.000000	ug/L	<	RL
Titanium	[9.1100]	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	ND	20.00000	ug/L	<	RL

Curtis & Tompkins Laboratories

Sample Preparation Summary

06-JAN-2005 00:03

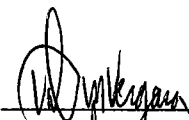
Batch Number : 98059
 Date Extracted: 05-JAN-2005
 Extracted by : Victor Vergara
 Prep Method : 3050B

Analysis : N/A
 Bgroup : ICAP
 Units : g
 Clean-up :

Spike #1 ID : 04SS171
 Spike #2 ID : 04SS172
 Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176984-001		Ninyo & Moore	Soil	1.18	g	50	42.372881	1				CR, PB		
176984-002		Ninyo & Moore	Soil	1.12	g	50	44.642857	1				CR, PB		
176984-004		Ninyo & Moore	Soil	1.09	g	50	45.871560	1				CR, PB		
176984-005		Ninyo & Moore	Soil	1.23	g	50	40.650407	1				CR, PB		
176984-007		Ninyo & Moore	Soil	.98	g	50	51.020408	1				CR, PB		mss
176984-008		Ninyo & Moore	Soil	1.33	g	50	37.593985	1				CR, PB		
176984-009		Ninyo & Moore	Soil	1.24	g	50	40.322581	1				CR, PB		
176984-011		Ninyo & Moore	Soil	1.22	g	50	40.983607	1				CR, PB		
176984-012		Ninyo & Moore	Soil	1.28	g	50	39.062500	1				CR, PB		
176984-014		Ninyo & Moore	Soil	.92	g	50	54.347826	1				CR, PB		
176984-015		Ninyo & Moore	Soil	1.06	g	50	47.169811	1				CR, PB		
176984-017		Ninyo & Moore	Soil	1.44	g	50	34.722222	1				CR, PB		
176984-018		Ninyo & Moore	Soil	1.02	g	50	49.019608	1				CR, PB		
176984-020		Ninyo & Moore	Soil	1.31	g	50	38.167939	1				CR, PB		
176984-021		Ninyo & Moore	Soil	1.09	g	50	45.871560	1				CR, PB		
176984-023		Ninyo & Moore	Soil	1.33	g	50	37.593985	1				CR, PB		
176984-024		Ninyo & Moore	Soil	1.06	g	50	47.169811	1				CR, PB		
176984-026		Ninyo & Moore	Soil	1.09	g	50	45.871560	1				CR, PB		
176984-027		Ninyo & Moore	Soil	1.02	g	50	49.019608	1				CR, PB		
QC278515	BLANK		Soil	1	g	50	50.000000	1				ICAP		
QC278516	BS		Soil	1	g	50	50.000000	1	.5	.5		ICAP		
QC278517	BSD		Soil	1	g	50	50.000000	1	.5	.5		ICAP		
QC278518	MS	of 176984-007	Soil	1.31	g	50	38.167939	1	.5	.5		ICAP		
QC278519	MSD	of 176984-007	Soil	1.04	g	50	48.076923	1	.5	.5		ICAP		
QC278520	SER	of 176984-007	Soil	.98	g	50	51.020408	1				ICAP		
QC278521	PDS	of 176984-007	Soil	.98	g	50	51.020408	1				ICAP		

Prep Chemist:



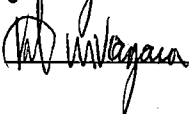
Reviewed By:




Date:

1/06/05

Relinquished By:



Received By:



Date:

1/06/05

LIMS Batch #: 98059
 Date Digested: 1/5/05
 Digested by: VV

Digestion Method

☒ EPA 3050b

☐

BK 2057

Page 15

Sample # and letter	Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
Blank QC 278515	0	50.0	Y	
* BS 278516				
* BSD 278517				
* 176984-007 MS A	1.31			
* -007 MS0	1.04			
- 001	1.18			
- 002	1.12			
- 004	1.09			
- 005	1.23			
10 - 007	0.98			WSS
- 008	1.33			
- 009	1.24			
- 011	1.22			
- 012	1.28			
15 - 014	0.92			
- 015	1.06			
- 017	1.44			
- 018	1.02			
- 020	1.31			
20 - 021	1.09			
- 023	1.33			
- 024	1.06			
- 026	1.09			
- 027	1.02			

digestion temperature (90 - 95 degrees C)
0.5 mL of spike solution was added to all spikes

1:1 HNO₃
 concentrated HNO₃
 3mL 30% hydrogen peroxide
 concentrated HCl
☒ filtered thru' Whatman # 541

Reagent ID or LIMS # Initials / Date

95°C	VV 1/5/05
0455171*	
0455172*	
A40031-122804	
A40031-122804	
43297401 WSR	
#32096-1 Baker	
E1566057	

1/5/05
W. M. K. G. M.
 Extraction Chemist / Date

Continued from page 8
 Continued 470 page 8

1/26/05
[Signature]
 Reviewed by / Date

SERIAL DILUTION USER REPORT
Curtis & Tompkins Laboratories
EPA 6010B

Instid : MET07	Instid : MET07	
Seqnum : 75009061010	Seqnum : 75009061011	
Filename : tr259873	Filename : tr259874	
IDF : 1.0	IDF : 5.0	
PDF : 33.78	PDF : 33.78	
Run type : MSS	Run type : SER	
Samplenum: 176984-033	Samplenum: QC278513	
Matrix : Soil	Matrix : Soil	
Batchnum : 98058	Batchnum : 98058	
Inj : 06-JAN-2005 07:56	Inj : 06-JAN-2005 08:01	
Units : mg/Kg		

Analyte	MSS	RL	SER	RL	%D	MAX	%D	Flags
Aluminum	*** usable MSS data not found ***							
Antimony	2.43	2.03	2.67 J	10.1	--	10		u
Arsenic	3.13	0.169	3.02	0.845	--	10		u
Barium	326	0.338	294	1.69	10	10		u
Beryllium	0.392	0.0676	0.373	0.338	5	10		u
Cadmium	0.234	0.169	0.109 J	0.845	--	10		u
Calcium	3310	16.9	3360	84.5	2	10		
Chromium	29.1	0.338	29.2	1.69	1	10		u
Cobalt	8.38	0.676	8.43	3.38	1	10		u
Copper	21.9	0.338	20.9	1.69	4	10		u
Iron	*** usable MSS data not found ***							
Lead	39.9	0.101	40.7	0.507	2	10		u
Magnesium	2300	16.9	2290	84.5	0	10		
Manganese	325	0.338	318	1.69	2	10		
Molybdenum	1.53	0.676	1.53 J	3.38	--	10		u
Nickel	29.2	0.676	29.9	3.38	2	10		u
Selenium	*** SER not processed completely ***							
Silver	ND	0.169	ND	0.845	--	10		u
Thallium	ND	0.169	1.08	0.845	--	10		r b*
Vanadium	28.0	0.338	27.7	1.69	1	10		u
Zinc	*** usable MSS data not found ***							
Titanium	192	0.338	186	1.69	3	10		

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

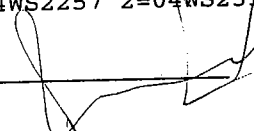
Sequence: 75009061 Instrument: MET07
Analytical Method: EPA 6010B

TJA Trace ICP
SOP Version: 6010B_rv7

Begun: 06-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
001	tr259864	CS				06-JAN-2005 07:01	1.0	1.0				1	
002	tr259865	ICV				06-JAN-2005 07:06	1.0	1.0				2	
003	tr259866	ICB				06-JAN-2005 07:10	1.0	1.0					
004	tr259867	CRI				06-JAN-2005 07:15	1.0	1.0				3	
005	tr259868	ICSA				06-JAN-2005 07:23	1.0	1.0				4	4:MG=527800
006	tr259869	ICSAB				06-JAN-2005 07:27	1.0	1.0				5	5:AL=499300
007	tr259870	BLANK	QC278508	98058	Soil	06-JAN-2005 07:40	1.0	50.0					
008	tr259871	BS	QC278509	98058	Soil	06-JAN-2005 07:46	1.0	50.0	1				
009	tr259872	BSD	QC278510	98058	Soil	06-JAN-2005 07:50	1.0	50.0	1				
010	tr259873	MSS	176984-033	98058	Soil	06-JAN-2005 07:56	1.0	33.78	3				3:FE=376700
011	tr259874	SER	QC278513	98058	Soil	06-JAN-2005 08:01	5.0	33.78	1				
012	tr259875	MSS	176984-033	98058	Soil	06-JAN-2005 08:05	1.0	33.78	3				3:FE=376200
013	tr259876	MSS	176984-033	98058	Soil	06-JAN-2005 08:11	10.0	33.78	2				
014	tr259877	CCV				06-JAN-2005 08:16	1.0	1.0	1			6	
015	tr259878	CCB				06-JAN-2005 08:20	1.0	1.0					
016	tr259879	MS	QC278511	98058	Soil	06-JAN-2005 08:24	1.0	43.48	1				4:FE=343800
017	tr259880	MSD	QC278512	98058	Soil	06-JAN-2005 08:28	1.0	40.65		1			4:FE=332500
018	tr259881	SAMPLE	176966-001	98058	Miscel	06-JAN-2005 08:33	1.0	39.37					
019	tr259882	SAMPLE	176971-001	98058	Miscel	06-JAN-2005 08:37	1.0	38.46	1				1:ZN=7500.00
020	tr259883	SAMPLE	176971-001	98058	Miscel	06-JAN-2005 08:42	1.0	38.46	1				1:ZN=7550.00
021	tr259884	SAMPLE	176975-002	98058	Soil	06-JAN-2005 08:46	1.0	38.17					2:FE=606100
022	tr259885	SAMPLE	176971-001	98058	Miscel	06-JAN-2005 08:50	20.0	38.46					
023	tr259886	SAMPLE	176975-003	98058	Soil	06-JAN-2005 08:55	1.0	36.23					3:FE=430400
024	tr259887	SAMPLE	176975-004	98058	Soil	06-JAN-2005 08:59	1.0	49.02					2:FE=329300
025	tr259888	SAMPLE	176975-005	98058	Soil	06-JAN-2005 09:03	1.0	37.31					2:FE=465200
026	tr259889	CCV				06-JAN-2005 09:12	1.0	1.0	1			7	
027	tr259890	CCB				06-JAN-2005 09:28	1.0	1.0					
028	tr259891	SAMPLE	176975-006	98058	Soil	06-JAN-2005 09:33	1.0	26.46					3:FE=628900
029	tr259892	SAMPLE	176975-007	98058	Soil	06-JAN-2005 09:43	1.0	47.62					3:FE=337400
030	tr259893	SAMPLE	176984-029	98058	Soil	06-JAN-2005 09:47	1.0	42.02					4:CA=1404000
031	tr259894	SAMPLE	176984-031	98058	Soil	06-JAN-2005 09:51	1.0	46.30					5:FE=2208000

Stds used: 1=04WS2257 2=04WS2356 3=04WS2346 4=04WS2355 5=04WS2189 6=04WS2357 7=04WS2419

Analyst: 

Date: 1/06/05

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

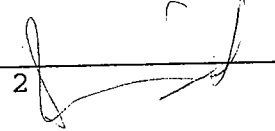
Sequence: 75009061 Instrument: MET07
Analytical Method: EPA 6010B

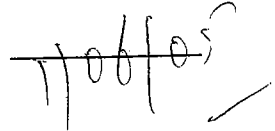
TJA Trace ICP
SOP Version: 6010B_rv7

Begun: 06-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
032	tr259895	SAMPLE	176984-032	98058	Soil	06-JAN-2005 09:55	1.0	53.76				4:FE=514800	
033	tr259896	SAMPLE	176984-034	98058	Soil	06-JAN-2005 10:00	1.0	54.35				2:FE=153200	
034	tr259897	SAMPLE	176964-001	98058	Miscel	06-JAN-2005 10:04	1.0	51.55	2			5:CA=2416000	
035	tr259898	SAMPLE	176964-002	98058	Miscel	06-JAN-2005 10:08	1.0	52.63	2			5:CA=2744000	
036	tr259899	SAMPLE	176964-001	98058	Miscel	06-JAN-2005 10:12	1.0	51.55	2			5:CA=2568000	
037	tr259900	SAMPLE	176964-001	98058	Miscel	06-JAN-2005 10:19	25.0	51.55				1:CA=206400	
038	tr259901	CCV				06-JAN-2005 10:26	1.0	1.0				6	
039	tr259902	CCB				06-JAN-2005 10:39	1.0	1.0				1:CA=225600	
040	tr259903	SAMPLE	176964-002	98058	Miscel	06-JAN-2005 10:43	25.0	52.63	1				
041	tr259904	SAMPLE	176940-001	98019	Filtra	06-JAN-2005 10:47	1.0	1.0	1			1:CA=105600	
042	tr259905	SAMPLE	176940-002	98019	Filtra	06-JAN-2005 10:51	1.0	1.0				3:MG=938700	
043	tr259906	SAMPLE	176962-002	98019	Filtra	06-JAN-2005 10:55	1.0	1.0					
044	tr259907	SAMPLE	176962-003	98019	Filtra	06-JAN-2005 10:59	1.0	1.0					
045	tr259908	SAMPLE	176962-004	98019	Filtra	06-JAN-2005 11:03	1.0	1.0					
046	tr259909	SAMPLE	176940-001	98019	Filtra	06-JAN-2005 11:07	1.0	1.0	1			3:MG=1008000	
047	tr259910	SAMPLE	176962-002	98019	Water	06-JAN-2005 11:11	1.0	1.0					
048	tr259911	SAMPLE	176962-003	98019	Water	06-JAN-2005 11:16	1.0	1.0					
049	tr259912	SAMPLE	176962-004	98019	Water	06-JAN-2005 11:20	1.0	1.0				7	
050	tr259913	CCV				06-JAN-2005 11:26	1.0	1.0					
051	tr259914	CCB				06-JAN-2005 11:31	1.0	1.0					
052	tr259915	X		98021	Water	06-JAN-2005 11:35	1.0	1.0					
053	tr259916	X		98021	Water	06-JAN-2005 11:39	1.0	1.0					
054	tr259917	MSS	176959-002	98021	Water	06-JAN-2005 11:45	1.0	1.0	1				
055	tr259918	SAMPLE	176959-008	98021	Water	06-JAN-2005 11:50	1.0	1.0					
056	tr259919	MS	QC278378	98021	Water	06-JAN-2005 11:55	1.0	1.0	1				
057	tr259920	MSD	QC278379	98021	Water	06-JAN-2005 11:59	1.0	1.0	1				
058	tr259921	SAMPLE	176959-009	98021	Water	06-JAN-2005 12:04	1.0	1.0					
059	tr259922	SAMPLE	176959-011	98021	Water	06-JAN-2005 12:08	1.0	1.0				5	5:MG=510600
060	tr259923	ICSAB				06-JAN-2005 12:22	1.0	1.0				6	
061	tr259924	CCV				06-JAN-2005 12:29	1.0	1.0	1				
062	tr259925	CCB				06-JAN-2005 12:33	1.0	1.0					

Stds used: 1=04WS2257 2=04WS2356 3=04WS2346 4=04WS2355 5=04WS2189 6=04WS2357 7=04WS2419

Analyst: 

Date: 1/06/05 

Method: 6010B Standard: blank
Run Time: 01/06/05 06:54:26

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.002	-.000	-.001	.004	-.231	.005	.001
SDev	.003	.000	.001	.001	.000	.001	.000
%RSD	169.	173.	58.5	16.4	.043	25.9	53.2

#1	-.004	-.000	-.002	.005	-.232	.005	.000
#2	.000	.000	-.001	.004	-.231	.004	.001

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.001	.004	.001	-.002	.001	.002	-.003
SDev	.000	.001	.000	.001	.001	.001	.001
%RSD	70.6	19.7	4.31	35.2	57.4	53.5	40.5

#1	-.000	.004	.001	-.001	.001	.001	-.003
#2	-.001	.003	.001	-.002	.002	.003	-.002

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.003	-.002	-.002	.001	.020	.0517	-.0033
SDev	.001	.001	.001	.001	.000	.0001	.0000
%RSD	33.7	50.6	32.4	127.	.455	.2623	.3081

#1	.002	-.002	-.002	.001	.020	.0518	-.0033
#2	.004	-.001	-.002	.000	.020	.0516	-.0033

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	-.0010	.0002	.001	.182
SDev	.0005	.0003	.000	.000
%RSD	51.82	159.1	44.3	.100

#1	-.0007	.0004	.001	.182
#2	-.0014	-.0000	.000	.182

Method: 6010B Standard: cst hi
Run Time: 01/06/05 06:58:07

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.830	.441	.170	15.4	2.75	.864	.214
SDev	.004	.000	.001	.0	.01	.002	.001
%RSD	.418	.057	.790	.086	.357	.268	.378
#1	.832	.441	.171	15.4	2.74	.862	.213
#2	.827	.441	.169	15.4	2.76	.865	.214
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.603	.465	.660	.627	1.33	1.54	.188
SDev	.002	.001	.001	.002	.01	.00	.002
%RSD	.272	.161	.193	.312	.846	.130	.778
#1	.601	.464	.659	.625	1.32	1.54	.187
#2	.604	.465	.661	.628	1.33	1.54	.189
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.207	.266	.110	.806	.138	.1468	.2827
SDev	.000	.001	.001	.001	.000	.0001	.0008
%RSD	.118	.360	.630	.110	.235	.0681	.2978
#1	.207	.267	.109	.805	.138	.1469	.2821
#2	.207	.266	.110	.806	.138	.1468	.2832
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.1057	.1607	.958	6.66			
SDev	.0006	.0004	.002	.02			
%RSD	.5795	.2582	.152	.248			
#1	.1062	.1604	.957	6.65			
#2	.1053	.1610	.959	6.67			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	1195.75	2.24210	01/06/05 06:58:07
Sb206A	206.832	Multiple	Standards	2221.91	.423695	01/06/05 06:58:07
As1890	189.042	Multiple	Standards	2926.36	3.37633	01/06/05 06:58:07
Ba4934	493.409	Multiple	Standards	65.0123	-.275177	01/06/05 06:58:07
Be3130	313.042	Multiple	Standards	32.3907	7.49777	01/06/05 06:58:07
Cd2265	226.502	Multiple	Standards	116.342	-.533105	01/06/05 06:58:07
Cr2677	267.716	Multiple	Standards	939.614	-.606197	01/06/05 06:58:07
Co2286	228.616	Multiple	Standards	831.189	.421910	01/06/05 06:58:07
Cu3247	324.754	Multiple	Standards	433.553	-1.58816	01/06/05 06:58:07
Pb2203	220.351	Multiple	Standards	759.784	-1.09332	01/06/05 06:58:07
Pb220A	220.352	Multiple	Standards	788.641	1.40146	01/06/05 06:58:07
Mo2020	202.030	Multiple	Standards	754.823	-.941994	01/06/05 06:58:07
Ni2316	231.604	Multiple	Standards	324.255	-.596717	01/06/05 06:58:07
Se1960	196.021	Multiple	Standards	2628.56	6.62106	01/06/05 06:58:07
Se196A	196.022	Multiple	Standards	2449.84	-7.69647	01/06/05 06:58:07
Ag3280	328.068	Multiple	Standards	373.775	.565733	01/06/05 06:58:07
Tl1908	190.864	Multiple	Standards	4520.74	8.80308	01/06/05 06:58:07
V_2924	292.402	Multiple	Standards	621.058	-.394632	01/06/05 06:58:07
Zn2138	213.856	Multiple	Standards	874.245	-17.4082	01/06/05 06:58:07
Al3082	308.215	Multiple	Standards	10710.5	-554.147	01/06/05 06:58:07
Ca3179	317.933	Multiple	Standards	6994.05	23.0140	01/06/05 06:58:07
Fe2714	271.441	Multiple	Standards	9803.97	10.1617	01/06/05 06:58:07
Mg2790	279.079	Multiple	Standards	12454.8	-2.11091	01/06/05 06:58:07
Mn2576	257.610	Multiple	Standards	104.536	-.070810	01/06/05 06:58:07
Pb sum	220.353	NONE	NONE	1.00000	.000000	*01/06/05 06:58:07
Sb sum	206.838	NONE	NONE	1.00000	.000000	*01/06/05 06:58:07
Se sum	196.026	NONE	NONE	1.00000	.000000	*01/06/05 06:58:07
Ti3349	334.941	Multiple	Standards	154.453	-28.1667	01/06/05 06:58:07

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061001

Run Name :
Filename : tr259864

Injected : 06-JAN-2005 07:01
Caltype :

Standards: 04WS2257

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	1000.000	983.1000	ug/L	-2	5	
Antimony	1000.000	986.0000	ug/L	-1	5	
Arsenic	500.0000	497.0000	ug/L	-1	5	
Barium	1000.000	979.0000	ug/L	-2	5	
Beryllium	100.0000	99.00000	ug/L	-1	5	
Cadmium	100.0000	99.10000	ug/L	-1	5	
Calcium	2000.000	1987.000	ug/L	-1	5	
Chromium	200.0000	197.0000	ug/L	-2	5	
Cobalt	500.0000	495.0000	ug/L	-1	5	
Copper	200.0000	197.0000	ug/L	-2	5	
Iron	1000.000	983.2000	ug/L	-2	5	
Lead	500.0000	496.0000	ug/L	-1	5	
Magnesium	2000.000	1985.000	ug/L	-1	5	
Manganese	100.0000	99.00000	ug/L	-1	5	
Molybdenum	1000.000	986.0000	ug/L	-1	5	
Nickel	500.0000	493.0000	ug/L	-1	5	
Selenium	500.0000	495.0000	ug/L	-1	5	
Silver	100.0000	98.60000	ug/L	-1	5	
Thallium	500.0000	499.0000	ug/L	0	5	
Titanium	1000.000	986.0000	ug/L	-1	5	
Vanadium	500.0000	494.0000	ug/L	-1	5	
Zinc	100.0000	98.60000	ug/L	-1	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061002

Run Name :
Filename : tr259865

Injected : 06-JAN-2005 07:06
Caltpe :

Standards: 04WS2356

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Aluminum	500.0000	523.2000	ug/L	5	10	
Antimony	500.0000	507.0000	ug/L	1	10	
Arsenic	250.0000	257.0000	ug/L	3	10	
Barium	500.0000	491.0000	ug/L	-2	10	
Beryllium	50.00000	50.50000	ug/L	1	10	
Cadmium	50.00000	51.50000	ug/L	3	10	
Calcium	1000.000	1032.000	ug/L	3	10	
Chromium	100.0000	102.0000	ug/L	2	10	
Cobalt	250.0000	250.0000	ug/L	0	10	
Copper	100.0000	103.0000	ug/L	3	10	
Iron	500.0000	522.9000	ug/L	5	10	
Lead	250.0000	254.0000	ug/L	2	10	
Magnesium	1000.000	1026.000	ug/L	3	10	
Manganese	50.00000	49.70000	ug/L	-1	10	
Molybdenum	500.0000	508.0000	ug/L	2	10	
Nickel	250.0000	255.0000	ug/L	2	10	
Selenium	250.0000	247.0000	ug/L	-1	10	
Silver	50.00000	51.10000	ug/L	2	10	
Thallium	250.0000	247.0000	ug/L	-1	10	
Titanium	500.0000	492.0000	ug/L	-2	10	
Vanadium	250.0000	250.0000	ug/L	0	10	
Zinc	50.00000	51.90000	ug/L	4	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061003
Filename: tr259866

TJA Trace ICP
Run Name:
Run Type: ICB

Injected: 06-JAN-2005 07:10

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND	100.0000		ug/L	<	RL
Antimony	ND	60.00000		ug/L	<	RL
Arsenic	[2.6900]	5.000000		ug/L	<	RL
Barium	ND	10.00000		ug/L	<	RL
Beryllium	ND	2.000000		ug/L	<	RL
Cadmium	ND	5.000000		ug/L	<	RL
Calcium	ND	500.0000		ug/L	<	RL
Chromium	ND	10.00000		ug/L	<	RL
Cobalt	ND	10.00000		ug/L	<	RL
Copper	ND	10.00000		ug/L	<	RL
Iron	ND	100.0000		ug/L	<	RL
Lead	ND	3.000000		ug/L	<	RL
Magnesium	ND	500.0000		ug/L	<	RL
Manganese	ND	10.00000		ug/L	<	RL
Molybdenum	[3.1200]	20.00000		ug/L	<	RL
Nickel	ND	20.00000		ug/L	<	RL
Selenium	ND	5.000000		ug/L	<	RL
Silver	ND	5.000000		ug/L	<	RL
Thallium	ND	5.000000		ug/L	<	RL
Titanium	[1.2200]	10.00000		ug/L	<	RL
Vanadium	ND	10.00000		ug/L	<	RL
Zinc	ND	20.00000		ug/L	<	RL

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061004

Run Name :
Filename : tr259867

Injected : 06-JAN-2005 07:15
Caltpe :

Standards: 04WS2346

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	100.0000	122.6000	ug/L	23		50	
Antimony	60.00000	64.80000	ug/L	8		50	
Arsenic	5.000000	5.220000	ug/L	4		50	
Barium	10.00000	9.550000	ug/L	-5		50	
Beryllium	2.000000	1.620000	ug/L	-19		50	
Cadmium	5.000000	4.880000	ug/L	-2		50	
Calcium	200.0000	223.0000	ug/L	12		50	
Chromium	10.00000	9.770000	ug/L	-2		50	
Cobalt	20.00000	19.20000	ug/L	-4		50	
Copper	10.00000	10.30000	ug/L	3		50	
Iron	100.0000	90.45000	ug/L	-10		50	
Lead	3.000000	3.300000	ug/L	10		50	
Magnesium	200.0000	204.1000	ug/L	2		50	
Manganese	10.00000	9.750000	ug/L	-3		50	
Molybdenum	20.00000	20.90000	ug/L	5		50	
Nickel	20.00000	19.80000	ug/L	-1		50	
Selenium	5.000000	5.430000	ug/L	9		50	
Silver	5.000000	4.900000	ug/L	-2		50	
Thallium	5.000000	5.860000	ug/L	17		50	
Vanadium	10.00000	9.640000	ug/L	-4		50	
Zinc	20.00000	21.10000	ug/L	6		50	

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061005
Filename: tr259868

TJA Trace ICP
Run Name:
Run Type: ICSA

Injected: 06-JAN-2005 07:23

Analyte	QuantAmt	RL	Units	Req	Flags
Antimony	[4.9900]	60.00000	ug/L	<RL	
Arsenic	[3.1500]	5.000000	ug/L	<RL	
Barium	[-0.040]	10.00000	ug/L	<RL	
Beryllium	[-0.889]	2.000000	ug/L	<RL	
Cadmium	[0.6820]	5.000000	ug/L	<RL	
Chromium	[2.4800]	10.00000	ug/L	<RL	
Cobalt	[0.2110]	10.00000	ug/L	<RL	
Copper	[-3.300]	10.00000	ug/L	<RL	
Lead	[-0.214]	3.000000	ug/L	<RL	
Manganese	[1.8700]	10.00000	ug/L	<RL	
Molybdenum	[-0.402]	20.00000	ug/L	<RL	
Nickel	[1.8300]	20.00000	ug/L	<RL	
Selenium	[1.3300]	5.000000	ug/L	<RL	
Silver	[0.2890]	5.000000	ug/L	<RL	
Thallium	[4.1200]	5.000000	ug/L	<RL	
Titanium	19.50000	10.00000	ug/L	<RL	
Vanadium	[-3.210]	10.00000	ug/L	<RL	
Zinc	[3.8900]	20.00000	ug/L	<RL	

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	500000	525200	ug/L	105
Calcium	500000	454100.	ug/L	91
Iron	200000	182200	ug/L	91
Magnesium	500000	527800	ug/L	106

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061006

Run Name :
Filename : tr259869

Injected : 06-JAN-2005 07:27
Caltpe :

Standards: 04WS2189

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	499300.0	ug/L	0			
Antimony	500.0000	503.0000	ug/L	1	20		
Arsenic	500.0000	498.0000	ug/L	0	20		
Barium	500.0000	464.0000	ug/L	-7	20		
Beryllium	500.0000	466.0000	ug/L	-7	20		
Cadmium	1000.000	877.0000	ug/L	-12	20		
Calcium	500000.0	431300.0	ug/L	-14			
Chromium	500.0000	447.0000	ug/L	-11	20		
Cobalt	500.0000	446.0000	ug/L	-11	20		
Copper	500.0000	497.0000	ug/L	-1	20		
Iron	200000.0	172400.0	ug/L	-14			
Lead	1000.000	913.0000	ug/L	-9	20		
Magnesium	500000.0	495100.0	ug/L	-1			
Manganese	500.0000	446.0000	ug/L	-11	20		
Molybdenum	500.0000	463.0000	ug/L	-7	20		
Nickel	1000.000	845.0000	ug/L	-16	20		
Selenium	500.0000	509.0000	ug/L	2	20		
Silver	1000.000	902.0000	ug/L	-10	20		
Thallium	500.0000	467.0000	ug/L	-7	20		
Titanium	20000.00	19900.00	ug/L	-1			
Vanadium	500.0000	458.0000	ug/L	-8	20		
Zinc	1000.000	928.0000	ug/L	-7	20		

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061014

Run Name :
Filename : tr259877

IDF : 1.0
Injected : 06-JAN-2005 08:16
Caltype :

Standards: 04WS2357

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	496.5000	ug/L	-1	10		
Antimony		500.0000	502.0000	ug/L	0	10		
Arsenic		250.0000	256.0000	ug/L	2	10		
Barium		500.0000	471.0000	ug/L	-6	10		
Beryllium		50.00000	51.60000	ug/L	3	10		
Cadmium		50.00000	51.60000	ug/L	3	10		
Calcium		1000.000	1038.000	ug/L	4	10		
Chromium		100.0000	103.0000	ug/L	3	10		
Cobalt		250.0000	254.0000	ug/L	2	10		
Copper		100.0000	103.0000	ug/L	3	10		
Iron		500.0000	566.0000	ug/L	13	10		C+ **
Lead		250.0000	260.0000	ug/L	4	10		
Magnesium		1000.000	1039.000	ug/L	4	10		
Manganese		50.00000	51.00000	ug/L	2	10		
Molybdenum		500.0000	520.0000	ug/L	4	10		
Nickel		250.0000	259.0000	ug/L	4	10		
Selenium		250.0000	251.0000	ug/L	0	10		
Silver		50.00000	50.90000	ug/L	2	10		
Thallium		250.0000	250.0000	ug/L	0	10		
Titanium		500.0000	491.0000	ug/L	-2	10		
Vanadium		250.0000	251.0000	ug/L	0	10		
Zinc		50.00000	53.90000	ug/L	8	10		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Segnum: 75009061015
Filename: tr259878

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 08:20

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[4.1300]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	ND		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[23.360]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	[16.120]		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[8.9900]		500.0000	ug/L	<	RL
Manganese	[0.5050]		10.00000	ug/L	<	RL
Molybdenum	[2.3100]		20.00000	ug/L	<	RL
Nickel	ND		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[2.4300]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061026

Run Name :
Filename : tr259889

IDF : 1.0
Injected : 06-JAN-2005 09:12
Caltype :

Standards: 04WS2419

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	739.5000	ug/L	-1	10	
Antimony		750.0000	720.0000	ug/L	-4	10	
Arsenic		375.0000	367.0000	ug/L	-2	10	
Barium		750.0000	687.0000	ug/L	-8	10	
Beryllium		75.00000	75.00000	ug/L	0	10	
Cadmium		75.00000	74.50000	ug/L	-1	10	
Calcium		1500.000	1471.000	ug/L	-2	10	
Chromium		150.0000	149.0000	ug/L	-1	10	
Cobalt		375.0000	364.0000	ug/L	-3	10	
Copper		150.0000	146.0000	ug/L	-3	10	
Iron		750.0000	914.2000	ug/L	22	10	C+ **
Lead		375.0000	375.0000	ug/L	0	10	
Magnesium		1500.000	1496.000	ug/L	0	10	
Manganese		75.00000	75.90000	ug/L	1	10	
Molybdenum		750.0000	725.0000	ug/L	-3	10	
Nickel		375.0000	371.0000	ug/L	-1	10	
Selenium		375.0000	369.0000	ug/L	-2	10	
Silver		75.00000	73.90000	ug/L	-1	10	
Thallium		375.0000	367.0000	ug/L	-2	10	
Titanium		750.0000	723.0000	ug/L	-4	10	
Vanadium		375.0000	360.0000	ug/L	-4	10	
Zinc		75.00000	76.90000	ug/L	3	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061027
Filename: tr259890

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 09:28

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<	RL
Antimony	ND	60.00000	ug/L	<	RL
Arsenic	[2.8900]	5.000000	ug/L	<	RL
Barium	ND	10.00000	ug/L	<	RL
Beryllium	[0.3800]	2.000000	ug/L	<	RL
Cadmium	ND	5.000000	ug/L	<	RL
Calcium	[17.910]	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	ND	10.00000	ug/L	<	RL
Copper	ND	10.00000	ug/L	<	RL
Iron	[14.080]	100.0000	ug/L	<	RL
Lead	ND	3.000000	ug/L	<	RL
Magnesium	ND	500.0000	ug/L	<	RL
Manganese	ND	10.00000	ug/L	<	RL
Molybdenum	[1.5800]	20.00000	ug/L	<	RL
Nickel	ND	20.00000	ug/L	<	RL
Selenium	ND	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	ND	5.000000	ug/L	<	RL
Titanium	[1.4500]	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	ND	20.00000	ug/L	<	RL

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061038

Run Name :
Filename : tr259901

IDF : 1.0
Injected : 06-JAN-2005 10:26
Caltype :

Standards: 04WS2357

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	479.5000	ug/L	-4		10	
Antimony		500.0000	470.0000	ug/L	-6		10	
Arsenic		250.0000	240.0000	ug/L	-4		10	
Barium		500.0000	457.0000	ug/L	-9		10	
Beryllium		50.00000	47.40000	ug/L	-5		10	
Cadmium		50.00000	48.60000	ug/L	-3		10	
Calcium		1000.000	1090.000	ug/L	9		10	
Chromium		100.0000	95.80000	ug/L	-4		10	
Cobalt		250.0000	232.0000	ug/L	-7		10	
Copper		100.0000	95.70000	ug/L	-4		10	
Iron		500.0000	470.5000	ug/L	-6		10	
Lead		250.0000	239.0000	ug/L	-4		10	
Magnesium		1000.000	980.9000	ug/L	-2		10	
Manganese		50.00000	45.30000	ug/L	-9		10	
Molybdenum		500.0000	469.0000	ug/L	-6		10	
Nickel		250.0000	241.0000	ug/L	-4		10	
Selenium		250.0000	232.0000	ug/L	-7		10	
Silver		50.00000	48.50000	ug/L	-3		10	
Thallium		250.0000	226.0000	ug/L	-10		10	
Titanium		500.0000	459.0000	ug/L	-8		10	
Vanadium		250.0000	235.0000	ug/L	-6		10	
Zinc		50.00000	51.30000	ug/L	3		10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061039
Filename: tr259902

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 10:39

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	ND		60.00000	ug/L	<	RL
Arsenic	[3.3500]		5.000000	ug/L	<	RL
Barium	ND		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[20.810]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	ND		500.0000	ug/L	<	RL
Manganese	ND		10.00000	ug/L	<	RL
Molybdenum	[1.4600]		20.00000	ug/L	<	RL
Nickel	ND		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[8.5000]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07 Run Name : IDF : 1.0
Seqnum : 75009061050 Filename : tr259913 Injected : 06-JAN-2005 11:26
Caltype :

Standards: 04WS2419

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D Flags
Aluminum		750.0000	742.5000	ug/L	-1	10
Antimony		750.0000	753.0000	ug/L	0	10
Arsenic		375.0000	384.0000	ug/L	2	10
Barium		750.0000	755.0000	ug/L	1	10
Beryllium		75.00000	76.10000	ug/L	1	10
Cadmium		75.00000	77.80000	ug/L	4	10
Calcium		1500.000	1458.000	ug/L	-3	10
Chromium		150.0000	152.0000	ug/L	1	10
Cobalt		375.0000	371.0000	ug/L	-1	10
Copper		150.0000	152.0000	ug/L	1	10
Iron		750.0000	759.6000	ug/L	1	10
Lead		375.0000	378.0000	ug/L	1	10
Magnesium		1500.000	1539.000	ug/L	3	10
Manganese		75.00000	74.10000	ug/L	-1	10
Molybdenum		750.0000	733.0000	ug/L	-2	10
Nickel		375.0000	382.0000	ug/L	2	10
Selenium		375.0000	378.0000	ug/L	1	10
Silver		75.00000	76.60000	ug/L	2	10
Thallium		375.0000	372.0000	ug/L	-1	10
Titanium		750.0000	755.0000	ug/L	1	10
Vanadium		375.0000	372.0000	ug/L	-1	10
Zinc		75.00000	78.70000	ug/L	5	10

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061051
Filename: tr259914

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 11:31

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	ND		60.00000	ug/L	<	RL
Arsenic	[4.2200]		5.000000	ug/L	<	RL
Barium	ND		10.00000	ug/L	<	RL
Beryllium	[0.6060]		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[16.940]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[16.270]		500.0000	ug/L	<	RL
Manganese	[0.4750]		10.00000	ug/L	<	RL
Molybdenum	[6.1800]		20.00000	ug/L	<	RL
Nickel	ND		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[8.1700]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061060

Run Name :
Filename : tr259923

Injected : 06-JAN-2005 12:2
Caltype :

Standards: 04WS2189

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	497400.0	ug/L	-1			
Antimony	500.0000	541.0000	ug/L	8	20		
Arsenic	500.0000	536.0000	ug/L	7	20		
Barium	500.0000	511.0000	ug/L	2	20		
Beryllium	500.0000	477.0000	ug/L	-5	20		
Cadmium	1000.000	954.0000	ug/L	-5	20		
Calcium	500000.0	417000.0	ug/L	-17			
Chromium	500.0000	475.0000	ug/L	-5	20		
Cobalt	500.0000	466.0000	ug/L	-7	20		
Copper	500.0000	510.0000	ug/L	2	20		
Iron	200000.0	179000.0	ug/L	-11			
Lead	1000.000	958.0000	ug/L	-4	20		
Magnesium	500000.0	510600.0	ug/L	2			
Manganese	500.0000	454.0000	ug/L	-9	20		
Molybdenum	500.0000	489.0000	ug/L	-2	20		
Nickel	1000.000	916.0000	ug/L	-8	20		
Selenium	500.0000	532.0000	ug/L	6	20		
Silver	1000.000	936.0000	ug/L	-6	20		
Thallium	500.0000	510.0000	ug/L	2	20		
Titanium	20000.00	21000.00	ug/L	5			
Vanadium	500.0000	479.0000	ug/L	-4	20		
Zinc	1000.000	984.0000	ug/L	-2	20		

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061061

Run Name :
Filename : tr259924

IDF : 1.0
Injected : 06-JAN-2005 12:29
Caltype :

Standards: 04WS2357

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	557.6000	ug/L	12	10	c+ **	
Antimony		500.0000	516.0000	ug/L	3	10		
Arsenic		250.0000	263.0000	ug/L	5	10		
Barium		500.0000	520.0000	ug/L	4	10		
Beryllium		50.00000	51.50000	ug/L	3	10		
Cadmium		50.00000	52.90000	ug/L	6	10		
Calcium		1000.000	982.2000	ug/L	-2	10		
Chromium		100.0000	103.0000	ug/L	3	10		
Cobalt		250.0000	249.0000	ug/L	0	10		
Copper		100.0000	103.0000	ug/L	3	10		
Iron		500.0000	528.0000	ug/L	6	10		
Lead		250.0000	255.0000	ug/L	2	10		
Magnesium		1000.000	1063.000	ug/L	6	10		
Manganese		50.00000	48.60000	ug/L	-3	10		
Molybdenum		500.0000	504.0000	ug/L	1	10		
Nickel		250.0000	261.0000	ug/L	4	10		
Selenium		250.0000	250.0000	ug/L	0	10		
Silver		50.00000	51.00000	ug/L	2	10		
Thallium		250.0000	253.0000	ug/L	1	10		
Titanium		500.0000	506.0000	ug/L	1	10		
Vanadium		250.0000	250.0000	ug/L	0	10		
Zinc		50.00000	53.50000	ug/L	7	10		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061062
Filename: tr259925

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 12:33

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<	RL
Antimony	[5.1100]	60.00000	ug/L	<	RL
Arsenic	ND	5.000000	ug/L	<	RL
Barium	ND	10.00000	ug/L	<	RL
Beryllium	[1.5500]	2.000000	ug/L	<	RL
Cadmium	ND	5.000000	ug/L	<	RL
Calcium	[27.320]	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	ND	10.00000	ug/L	<	RL
Copper	ND	10.00000	ug/L	<	RL
Iron	[13.340]	100.0000	ug/L	<	RL
Lead	ND	3.000000	ug/L	<	RL
Magnesium	[35.680]	500.0000	ug/L	<	RL
Manganese	ND	10.00000	ug/L	<	RL
Molybdenum	[3.3500]	20.00000	ug/L	<	RL
Nickel	ND	20.00000	ug/L	<	RL
Selenium	ND	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	ND	5.000000	ug/L	<	RL
Titanium	[6.9800]	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	ND	20.00000	ug/L	<	RL

Curtis & Tompkins Laboratories

Sample Preparation Summary

06-JAN-2005 00:03

Batch Number : 98058
Date Extracted: 05-JAN-2005
Extracted by : Victor Vergara
Prep Method : 3050B

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : 04SS171
Spike #2 ID : 04SS172
Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH	Sp 1 D.F.	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176964-001		GWF Power Systems	Miscell.	.97	g	50	51.546392	1				T26/ICP		
176964-002		GWF Power Systems	Miscell.	.95	g	50	52.631579	1				T26/ICP		
176966-001		ConocoPhillips Company	Miscell.	1.27	g	50	39.370079	1				V		
176971-001		SAIC	Miscell.	1.3	g	50	38.461538	1				T26/ICP		
176975-002		Presidio Trust	Soil	1.31	g	50	38.167939	1				PB		
176975-003		Presidio Trust	Soil	1.38	g	50	36.231884	1				PB		
176975-004		Presidio Trust	Soil	1.02	g	50	49.019608	1				PB		
176975-005		Presidio Trust	Soil	1.34	g	50	37.313433	1				PB		
176975-006		Presidio Trust	Soil	1.89	g	50	26.455026	1				PB		
176975-007		Presidio Trust	Soil	1.05	g	50	47.619048	1				PB		
176984-029		Ninyo & Moore	Soil	1.19	g	50	42.016807	1				CR, PB		
176984-031		Ninyo & Moore	Soil	1.08	g	50	46.296296	1				CR, PB		
176984-032		Ninyo & Moore	Soil	.93	g	50	53.763441	1				CR, PB		
176984-033		Ninyo & Moore	Soil	1.48	g	50	33.783784	1				CR, PB		mes
176984-034		Ninyo & Moore	Soil	.92	g	50	54.347826	1				CR, PB		
QC278508	BLANK		Soil	1	g	50	50.000000	1				ICAP		
QC278509	BS		Soil	1	g	50	50.000000	1		.5	.5	ICAP		
QC278510	BSD		Soil	1	g	50	50.000000	1		.5	.5	ICAP		
QC278511	MS	of 176984-033	Soil	1.15	g	50	43.478261	1		.5	.5	ICAP		
QC278512	MSD	of 176984-033	Soil	1.23	g	50	40.650407	1		.5	.5	ICAP		
QC278513	SER	of 176984-033	Soil	1.48	g	50	33.783784	1				ICAP		
QC278514	PDS	of 176984-033	Soil	1.48	g	50	33.783784	1				ICAP		

Prep Chemist:



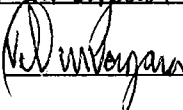
Reviewed By:




Date:

1/06/05

Relinquished By:



Received By:



Date:

1/06/05

LIMS Batch #: 97058
 Date Digested: 11/5/05
 Digested by: VV

Digestion Method

☒ EPA 3050b
☐

BK 2057

Page 14

Sample # and letter	Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
BIKQC 278508	Ø	50.0	y	
* BS 278509	↓			
* BS 278510	↓			
* 176981-033 MS A	1.15			
* 5 ↓ -033 MSO	1.23			
176961-001 A	0.97			
↓ -002	0.95			
176966-001	1.27			comp 3 jars.
176971-001 A	1.30			
10 176975-002	1.31			
↓ -003	1.38			
↓ -004	1.02			
↓ -005	1.34			
↓ -006	1.89			
15 ↓ -007	1.05			
176981-029 A	1.19			
↓ -031	1.08			
↓ -032	0.93			
↓ -033	1.48			MS
20 ↓ -034	0.92			

digestion temperature (90 - 95 degrees C)
0.5 mL of spike solution was added to all spikes

1:1 HNO₃
 concentrated HNO₃
 3mL 30% hydrogen peroxide
 concentrated HCl
☒ filtered thru' Whatman # 541

Reagent ID or LIMS # Initials / Date

95°C	VV 11/5/05
0.5% 171*	
0.5% 172*	
A40031-122804	
A40031 JT Baker	
A5297404-VWR	
A33046-JT Baker	
E1566057	

VV
 Extraction Chemist / Date

Continued from page Ø
 Continued on page 495

VV
 Reviewed by / Date

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 75009061 Instrument: MET07
Analytical Method: EPA 6010B

TJA Trace ICP
SOP Version: 6010B_rv7

Begun: 06-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
001	tr259864	CS				06-JAN-2005 07:01	1.0	1.0				1	
002	tr259865	ICV				06-JAN-2005 07:06	1.0	1.0				2	
003	tr259866	ICB				06-JAN-2005 07:10	1.0	1.0					
004	tr259867	CRI				06-JAN-2005 07:15	1.0	1.0				3	
005	tr259868	ICSA				06-JAN-2005 07:23	1.0	1.0				4	4:MG=527800
006	tr259869	ICSAB				06-JAN-2005 07:27	1.0	1.0				5	5:AL=499300
007	tr259870	BLANK	QC278508	98058	Soil	06-JAN-2005 07:40	1.0	50.0					
008	tr259871	BS	QC278509	98058	Soil	06-JAN-2005 07:46	1.0	50.0	1				
009	tr259872	BSD	QC278510	98058	Soil	06-JAN-2005 07:50	1.0	50.0	1				
010	tr259873	MSS	176984-033	98058	Soil	06-JAN-2005 07:56	1.0	33.78	3				3:FE=376700
011	tr259874	SER	QC278513	98058	Soil	06-JAN-2005 08:01	5.0	33.78	1				
012	tr259875	MSS	176984-033	98058	Soil	06-JAN-2005 08:05	1.0	33.78	3				3:FE=376200
013	tr259876	MSS	176984-033	98058	Soil	06-JAN-2005 08:11	10.0	33.78	2				
014	tr259877	CCV				06-JAN-2005 08:16	1.0	1.0	1			6	
015	tr259878	CCB				06-JAN-2005 08:20	1.0	1.0					
016	tr259879	MS	QC278511	98058	Soil	06-JAN-2005 08:24	1.0	43.48	1				4:FE=343800
017	tr259880	MSD	QC278512	98058	Soil	06-JAN-2005 08:28	1.0	40.65		1			4:FE=332500
018	tr259881	SAMPLE	176966-001	98058	Miscel	06-JAN-2005 08:33	1.0	39.37					
019	tr259882	SAMPLE	176971-001	98058	Miscel	06-JAN-2005 08:37	1.0	38.46	1				1:ZN=7500.00
020	tr259883	SAMPLE	176971-001	98058	Miscel	06-JAN-2005 08:42	1.0	38.46	1				1:ZN=7550.00
021	tr259884	SAMPLE	176975-002	98058	Soil	06-JAN-2005 08:46	1.0	38.17					2:FE=606100
022	tr259885	SAMPLE	176971-001	98058	Miscel	06-JAN-2005 08:50	20.0	38.46					
023	tr259886	SAMPLE	176975-003	98058	Soil	06-JAN-2005 08:55	1.0	36.23					3:FE=430400
024	tr259887	SAMPLE	176975-004	98058	Soil	06-JAN-2005 08:59	1.0	49.02					2:FE=329300
025	tr259888	SAMPLE	176975-005	98058	Soil	06-JAN-2005 09:03	1.0	37.31					2:FE=465200
026	tr259889	CCV				06-JAN-2005 09:12	1.0	1.0	1			7	
027	tr259890	CCB				06-JAN-2005 09:28	1.0	1.0					
028	tr259891	SAMPLE	176975-006	98058	Soil	06-JAN-2005 09:33	1.0	26.46					3:FE=628900
029	tr259892	SAMPLE	176975-007	98058	Soil	06-JAN-2005 09:43	1.0	47.62					3:FE=337400
030	tr259893	SAMPLE	176984-029	98058	Soil	06-JAN-2005 09:47	1.0	42.02					4:CA=1404000
031	tr259894	SAMPLE	176984-031	98058	Soil	06-JAN-2005 09:51	1.0	46.30					5:FE=2208000

Stds used: 1=04WS2257 2=04WS2356 3=04WS2346 4=04WS2355 5=04WS2189 6=04WS2357 7=04WS2419 8=05WS0016

Analyst: *K. Carley* Date: *1/6/05*
Page 1 of 6

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 75009061 Instrument: MET07
Analytical Method: EPA 6010B

TJA Trace ICP
SOP Version: 6010B_rv7

Begun: 06-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
32	tr259895	SAMPLE	176984-032	98058	Soil	06-JAN-2005 09:55	1.0	53.76				4:FE=514800	
33	tr259896	SAMPLE	176984-034	98058	Soil	06-JAN-2005 10:00	1.0	54.35				2:FE=153200	
34	tr259897	SAMPLE	176964-001	98058	Miscel	06-JAN-2005 10:04	1.0	51.55	2			5:CA=2416000	
35	tr259898	SAMPLE	176964-002	98058	Miscel	06-JAN-2005 10:08	1.0	52.63	2			5:CA=2744000	
36	tr259899	SAMPLE	176964-001	98058	Miscel	06-JAN-2005 10:12	1.0	51.55	2			5:CA=2568000	
37	tr259900	SAMPLE	176964-001	98058	Miscel	06-JAN-2005 10:19	25.0	51.55				1:CA=206400	
38	tr259901	CCV				06-JAN-2005 10:26	1.0	1.0				6	
39	tr259902	CCB				06-JAN-2005 10:39	1.0	1.0					
40	tr259903	SAMPLE	176964-002	98058	Miscel	06-JAN-2005 10:43	25.0	52.63	1			1:CA=225600	
41	tr259904	SAMPLE	176940-001	98019	Filtra	06-JAN-2005 10:47	1.0	1.0	1				
42	tr259905	SAMPLE	176940-002	98019	Filtra	06-JAN-2005 10:51	1.0	1.0				1:CA=105600	
43	tr259906	SAMPLE	176962-002	98019	Filtra	06-JAN-2005 10:55	1.0	1.0				3:MG=938700	
44	tr259907	SAMPLE	176962-003	98019	Filtra	06-JAN-2005 10:59	1.0	1.0					
45	tr259908	SAMPLE	176962-004	98019	Filtra	06-JAN-2005 11:03	1.0	1.0					
46	tr259909	SAMPLE	176940-001	98019	Filtra	06-JAN-2005 11:07	1.0	1.0	1				
47	tr259910	SAMPLE	176962-002	98019	Water	06-JAN-2005 11:11	1.0	1.0				3:MG=1008000	
48	tr259911	SAMPLE	176962-003	98019	Water	06-JAN-2005 11:16	1.0	1.0					
49	tr259912	SAMPLE	176962-004	98019	Water	06-JAN-2005 11:20	1.0	1.0					
50	tr259913	CCV				06-JAN-2005 11:26	1.0	1.0				7	
51	tr259914	CCB				06-JAN-2005 11:31	1.0	1.0					
52	tr259915	X		98021	Water	06-JAN-2005 11:35	1.0	1.0					
53	tr259916	X		98021	Water	06-JAN-2005 11:39	1.0	1.0					
54	tr259917	MSS	176959-002	98021	Water	06-JAN-2005 11:45	1.0	1.0	1				
55	tr259918	SAMPLE	176959-008	98021	Water	06-JAN-2005 11:50	1.0	1.0					
56	tr259919	MS	QC278378	98021	Water	06-JAN-2005 11:55	1.0	1.0	1				
57	tr259920	MSD	QC278379	98021	Water	06-JAN-2005 11:59	1.0	1.0	1				
58	tr259921	SAMPLE	176959-009	98021	Water	06-JAN-2005 12:04	1.0	1.0					
59	tr259922	SAMPLE	176959-011	98021	Water	06-JAN-2005 12:08	1.0	1.0				5	5:MG=510600
60	tr259923	ICSAB				06-JAN-2005 12:22	1.0	1.0				6	
61	tr259924	CCV				06-JAN-2005 12:29	1.0	1.0	1				
62	tr259925	CCB				06-JAN-2005 12:33	1.0	1.0					

Stds used: 1=04WS2257 2=04WS2356 3=04WS2346 4=04WS2355 5=04WS2189 6=04WS2357 7=04WS2419 8=05WS0016

Analyst: K Carlyn Date: 1/6/05
Page 2 of 6

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 75009061 Instrument: MET07
Analytical Method: EPA 6010B

TJA Trace ICP
SOP Version: 6010B_rv7

Begun: 06-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
063	tr259926	BLANK	QC278515	98059	Soil	06-JAN-2005 12:37	1.0	50.0					
064	tr259927	BS	QC278516	98059	Soil	06-JAN-2005 12:41	1.0	50.0	1				
065	tr259928	BSD	QC278517	98059	Soil	06-JAN-2005 12:45	1.0	50.0	1				
066	tr259929	MSS	176984-007	98059	Soil	06-JAN-2005 12:51	1.0	51.02	4			4:CA=1108000	
067	tr259930	SER	QC278520	98059	Soil	06-JAN-2005 12:57	5.0	51.02		2		1:CA=261500	
068	tr259931	MS	QC278518	98059	Soil	06-JAN-2005 13:01	1.0	38.17		1		6:CA=1399000	
069	tr259932	MSD	QC278519	98059	Soil	06-JAN-2005 13:05	1.0	48.08		1		7:CA=1167000	
070	tr259933	BLANK	QC278535	98064	Water	06-JAN-2005 13:21	1.0	1.0					
071	tr259934	BS	QC278536	98064	Water	06-JAN-2005 13:25	1.0	1.0	1				
072	tr259935	BSD	QC278537	98064	Water	06-JAN-2005 13:29	1.0	1.0	1				
073	tr259936	CCV				06-JAN-2005 13:35	1.0	1.0				7	
074	tr259937	CCB				06-JAN-2005 13:38	1.0	1.0					
075	tr259938	MSS	176975-001	98064	Water	06-JAN-2005 13:43	1.0	1.0					
076	tr259939	MS	QC278538	98064	Water	06-JAN-2005 13:47	1.0	1.0					
077	tr259940	MSD	QC278539	98064	Water	06-JAN-2005 13:51	1.0	1.0					
078	tr259941	SAMPLE	176975-008	98064	Water	06-JAN-2005 13:57	1.0	1.0				6	
079	tr259942	CCV				06-JAN-2005 14:01	1.0	1.0					
080	tr259943	CCB				06-JAN-2005 14:05	1.0	1.0				5	5:MG=508800
081	tr259945	ICSAB				06-JAN-2005 14:09	1.0	1.0					3:CA=1348000
082	tr259946	SAMPLE	176984-001	98059	Soil	06-JAN-2005 14:18	1.0	42.37					5:CA=1857000
083	tr259947	SAMPLE	176984-002	98059	Soil	06-JAN-2005 14:22	1.0	44.64					5:CA=1107000
084	tr259948	SAMPLE	176984-004	98059	Soil	06-JAN-2005 14:27	1.0	45.87					
085	tr259949	SAMPLE	176959-012	98021	Water	06-JAN-2005 14:50	1.0	1.0					3:CA=1382000
086	tr259950	SAMPLE	176984-005	98059	Soil	06-JAN-2005 14:55	1.0	40.65					3:FE=331000
087	tr259951	SAMPLE	176984-008	98059	Soil	06-JAN-2005 14:59	1.0	37.59					2:CA=2389000
088	tr259952	SAMPLE	176984-009	98059	Soil	06-JAN-2005 15:09	1.0	40.32					3:FE=359500
089	tr259953	SAMPLE	176984-011	98059	Soil	06-JAN-2005 15:13	1.0	40.98				5	5:MG=524100
090	tr259954	ICSAB				06-JAN-2005 15:18	1.0	1.0				7	
091	tr259955	CCV				06-JAN-2005 15:27	1.0	1.0	1				
092	tr259956	CCB				06-JAN-2005 15:32	1.0	1.0	1				2:FE=328500
093	tr259957	SAMPLE	176984-012	98059	Soil	06-JAN-2005 15:40	1.0	39.06					

Stds used: 1=04WS2257 2=04WS2356 3=04WS2346 4=04WS2355 5=04WS2189 6=04WS2357 7=04WS2419 8=05WS0016

Analyst: K. Carlson Date: 1/6/05
Page 3 of 6

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 75009061 Instrument: MET07
Analytical Method: EPA 6010B

TJA Trace ICP
SOP Version: 6010B_rv7

Begun: 06-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
094	tr259958	SAMPLE	176984-014	98059	Soil	06-JAN-2005 15:44	1.0	54.35				4:FE=4970000	
095	tr259959	SAMPLE	176984-015	98059	Soil	06-JAN-2005 15:49	1.0	47.17				2:FE=161700	
096	tr259960	SAMPLE	176984-017	98059	Soil	06-JAN-2005 15:53	1.0	34.72				3:FE=266200	
097	tr259961	SAMPLE	176984-018	98059	Soil	06-JAN-2005 15:57	1.0	49.02				2:FE=149200	
098	tr259962	SAMPLE	176984-020	98059	Soil	06-JAN-2005 16:02	1.0	38.17				6:FE=897100	
099	tr259963	SAMPLE	176984-021	98059	Soil	06-JAN-2005 16:06	1.0	45.87				5:CA=504100	
100	tr259964	SAMPLE	176984-023	98059	Soil	06-JAN-2005 16:11	1.0	37.59				5:CA=1403000	
101	tr259965	SAMPLE	176984-024	98059	Soil	06-JAN-2005 16:15	1.0	47.17				4:CA=1393000	
102	tr259966	SAMPLE	176984-026	98059	Soil	06-JAN-2005 16:19	1.0	45.87				4:CA=1139000	
103	tr259967	CCV				06-JAN-2005 16:28	1.0	1.0	1			6	
104	tr259968	CCB				06-JAN-2005 16:41	1.0	1.0					
105	tr259969	SAMPLE	176984-027	98059	Soil	06-JAN-2005 16:48	1.0	49.02				4:CA=1732000	
106	tr259970	SAMPLE	176965-001	98064	Water	06-JAN-2005 17:06	1.0	1.0				1:CA=181600	
107	tr259971	SAMPLE	176968-001	98064	Water	06-JAN-2005 17:10	1.0	1.0				2:MG=366100	
108	tr259972	SAMPLE	176969-001	98064	Water	06-JAN-2005 17:15	1.0	1.0				1:CA=109900	
109	tr259973	SAMPLE	176969-002	98064	Water	06-JAN-2005 17:19	1.0	1.0					
110	tr259974	SAMPLE	176969-003	98064	Water	06-JAN-2005 17:23	1.0	1.0					
111	tr259975	SAMPLE	176969-004	98064	Water	06-JAN-2005 17:28	1.0	1.0					
112	tr259976	SAMPLE	176969-005	98064	Water	06-JAN-2005 17:32	1.0	1.0	1			1:AS=20600.0	
113	tr259977	SAMPLE	176969-006	98064	Water	06-JAN-2005 17:36	1.0	1.0					
114	tr259978	SAMPLE	176969-007	98064	Water	06-JAN-2005 17:41	1.0	1.0					
115	tr259980	CCV				06-JAN-2005 17:55	1.0	1.0	1			8	
116	tr259981	CCB				06-JAN-2005 18:07	1.0	1.0					
117	tr259982	SAMPLE	176969-005	98064	Water	06-JAN-2005 18:21	2.0	1.0					
118	tr259983	SAMPLE	176969-008	98064	Water	06-JAN-2005 18:27	1.0	1.0					
119	tr259984	SAMPLE	176969-009	98064	Water	06-JAN-2005 18:31	1.0	1.0					
120	tr259985	SAMPLE	176969-010	98064	Water	06-JAN-2005 18:35	1.0	1.0					
121	tr259986	SAMPLE	176969-011	98064	Water	06-JAN-2005 18:40	1.0	1.0					
122	tr259987	SAMPLE	176969-012	98064	Water	06-JAN-2005 18:44	1.0	1.0					
123	tr259988	SAMPLE	176969-013	98064	Water	06-JAN-2005 18:49	1.0	1.0					
124	tr259989	SAMPLE	176969-014	98064	Water	06-JAN-2005 18:53	1.0	1.0					

Stds used: 1=04WS2257 2=04WS2356 3=04WS2346 4=04WS2355 5=04WS2189 6=04WS2357 7=04WS2419 8=05WS0016

Analyst: K Carlyn Date: 1/6/05
Page 4 of 6

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 75009061 Instrument: MET07
Analytical Method: EPA 6010B

TJA Trace ICP
SOP Version: 6010B_rv7

Begun: 06-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
125	tr259990	SAMPLE	176969-015	98064	Water	06-JAN-2005 18:57	1.0	1.0					
126	tr259991	SAMPLE	176972-001	98064	Water	06-JAN-2005 19:02	1.0	1.0				1:CA=129600	
127	tr259992	CCV				06-JAN-2005 19:07	1.0	1.0				6	
128	tr259993	CCB				06-JAN-2005 19:13	1.0	1.0					
129	tr259994	SAMPLE	176972-001	98064	Water	06-JAN-2005 19:17	1.0	1.0				1:CA=127100	
130	tr259995	BLANK	QC278528	98062	Water	06-JAN-2005 19:25	1.0	1.0					
131	tr259996	BS	QC278529	98062	Water	06-JAN-2005 19:30	1.0	1.0					
132	tr259997	BSD	QC278530	98062	Water	06-JAN-2005 19:34	1.0	1.0					
133	tr259998	MSS	176984-037	98062	Water	06-JAN-2005 19:40	1.0	1.0					
134	tr259999	MS	QC278531	98062	Water	06-JAN-2005 19:45	1.0	1.0					
135	tr260000	MSD	QC278532	98062	Water	06-JAN-2005 19:50	1.0	1.0					
136	tr260001	SAMPLE	176965-001	98062	Filtra	06-JAN-2005 19:56	1.0	1.0	1			1:CA=171900	
137	tr260002	SAMPLE	176965-001	98062	Filtra	06-JAN-2005 20:02	1.0	1.0				1:CA=169800	
138	tr260003	ICSAB				06-JAN-2005 20:06	1.0	1.0				5	5:AL=520500
139	tr260004	CCV				06-JAN-2005 20:13	1.0	1.0				7	
140	tr260005	CCB				06-JAN-2005 20:20	1.0	1.0					
141	tr260006	SAMPLE	176969-001	98062	Filtra	06-JAN-2005 20:26	1.0	1.0				1:CA=102200	
142	tr260007	SAMPLE	176969-002	98062	Filtra	06-JAN-2005 20:30	1.0	1.0					
143	tr260008	SAMPLE	176969-003	98062	Filtra	06-JAN-2005 20:35	1.0	1.0					
144	tr260009	X	176969-004	98062	Filtra	06-JAN-2005 20:39	1.0	1.0					
145	tr260010	X	176969-005	98062	Filtra	06-JAN-2005 20:43	1.0	1.0					
146	tr260011	X	176969-006	98062	Filtra	06-JAN-2005 20:48	1.0	1.0					
147	tr260012	X	176969-007	98062	Filtra	06-JAN-2005 20:52	1.0	1.0					
148	tr260013	X	176969-008	98062	Filtra	06-JAN-2005 20:57	1.0	1.0					
149	tr260014	X	176969-009	98062	Filtra	06-JAN-2005 21:01	1.0	1.0					
150	tr260015	SAMPLE	176969-004	98062	Filtra	06-JAN-2005 21:09	1.0	1.0					
151	tr260016	CCV				06-JAN-2005 21:14	1.0	1.0				6	
152	tr260017	CCB				06-JAN-2005 21:22	1.0	1.0					
153	tr260018	SAMPLE	176969-005	98062	Filtra	06-JAN-2005 21:31	1.0	1.0					
154	tr260019	SAMPLE	176969-006	98062	Filtra	06-JAN-2005 21:35	1.0	1.0					
155	tr260020	SAMPLE	176969-007	98062	Filtra	06-JAN-2005 21:40	1.0	1.0					

Stds used: 1=04WS2257 2=04WS2356 3=04WS2346 4=04WS2355 5=04WS2189 6=04WS2357 7=04WS2419 8=05WS0016

Analyst: K. Carls Date: 1/6/05
Page 5 of 6

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 75009061 Instrument: MET07
Analytical Method: EPA 6010B

TJA Trace ICP
SOP Version: 6010B_rv7

Begun: 06-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
156	tr260021	SAMPLE	176969-008	98062	Filtra	06-JAN-2005 21:44	1.0	1.0					
157	tr260022	SAMPLE	176969-009	98062	Filtra	06-JAN-2005 21:48	1.0	1.0					
158	tr260023	SAMPLE	176969-010	98062	Filtra	06-JAN-2005 21:53	1.0	1.0					
159	tr260024	SAMPLE	176969-011	98062	Filtra	06-JAN-2005 21:57	1.0	1.0					
160	tr260025	SAMPLE	176969-012	98062	Filtra	06-JAN-2005 22:01	1.0	1.0					
161	tr260026	SAMPLE	176969-013	98062	Filtra	06-JAN-2005 22:08	1.0	1.0					
162	tr260027	SAMPLE	176969-014	98062	Filtra	06-JAN-2005 22:13	1.0	1.0					
163	tr260028	CCV				06-JAN-2005 22:18	1.0	1.0	1			7	
164	tr260029	CCB				06-JAN-2005 22:22	1.0	1.0					
165	tr260030	SAMPLE	176969-015	98062	Filtra	06-JAN-2005 22:27	1.0	1.0					
166	tr260031	SAMPLE	176970-001	98062	Water	06-JAN-2005 22:32	1.0	1.0	1			1:ZN=7170.00	
167	tr260032	SAMPLE	176970-002	98062	Water	06-JAN-2005 22:36	1.0	1.0					
168	tr260033	SAMPLE	176970-001	98062	Water	06-JAN-2005 22:41	5.0	1.0					
169	tr260034	ICSAB				06-JAN-2005 22:46	1.0	1.0				5	5:MG=497000
170	tr260035	CCV				06-JAN-2005 22:53	1.0	1.0	1			6	
171	tr260036	CCB				06-JAN-2005 22:56	1.0	1.0	1				

Stds used: 1=04WS2257 2=04WS2356 3=04WS2346 4=04WS2355 5=04WS2189 6=04WS2357 7=04WS2419 8=05WS0016

Analyst: K. Carlin Date: 1/6/05
Page 6 of 6

Method: 6010B Standard: blank
Run Time: 01/06/05 06:54:26

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.002	-.000	-.001	.004	-.231	.005	.001
SDev	.003	.000	.001	.001	.000	.001	.000
%RSD	169.	173.	58.5	16.4	.043	25.9	53.2
#1	-.004	-.000	-.002	.005	-.232	.005	.000
#2	.000	.000	-.001	.004	-.231	.004	.001
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.001	.004	.001	-.002	.001	.002	-.003
SDev	.000	.001	.000	.001	.001	.001	.001
%RSD	70.6	19.7	4.31	35.2	57.4	53.5	40.5
#1	-.000	.004	.001	-.001	.001	.001	-.003
#2	-.001	.003	.001	-.002	.002	.003	-.002
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.003	-.002	-.002	.001	.020	.0517	-.0033
SDev	.001	.001	.001	.001	.000	.0001	.0000
%RSD	33.7	50.6	32.4	127.	.455	.2623	.3081
#1	.002	-.002	-.002	.001	.020	.0518	-.0033
#2	.004	-.001	-.002	.000	.020	.0516	-.0033
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0010	.0002	.001	.182			
SDev	.0005	.0003	.000	.000			
%RSD	51.82	159.1	44.3	.100			
#1	-.0007	.0004	.001	.182			
#2	-.0014	-.0000	.000	.182			

Method: 6010B Standard: cst hi
Run Time: 01/06/05 06:58:07

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.830	.441	.170	15.4	2.75	.864	.214
SDev	.004	.000	.001	.0	.01	.002	.001
%RSD	.418	.057	.790	.086	.357	.268	.378

#1	.832	.441	.171	15.4	2.74	.862	.213
#2	.827	.441	.169	15.4	2.76	.865	.214

Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.603	.465	.660	.627	1.33	1.54	.188
SDev	.002	.001	.001	.002	.01	.00	.002
%RSD	.272	.161	.193	.312	.846	.130	.778

#1	.601	.464	.659	.625	1.32	1.54	.187
#2	.604	.465	.661	.628	1.33	1.54	.189

Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.207	.266	.110	.806	.138	.1468	.2827
SDev	.000	.001	.001	.001	.000	.0001	.0008
%RSD	.118	.360	.630	.110	.235	.0681	.2978

#1	.207	.267	.109	.805	.138	.1469	.2821
#2	.207	.266	.110	.806	.138	.1468	.2832

Elem	Fe2714	Mg2790	Mn2576	Ti3349
Avge	.1057	.1607	.958	6.66
SDev	.0006	.0004	.002	.02
%RSD	.5795	.2582	.152	.248

#1	.1062	.1604	.957	6.65
#2	.1053	.1610	.959	6.67

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	1195.75	2.24210	01/06/05 06:58:07
Sb206A	206.832	Multiple	Standards	2221.91	.423695	01/06/05 06:58:07
As1890	189.042	Multiple	Standards	2926.36	3.37633	01/06/05 06:58:07
Ba4934	493.409	Multiple	Standards	65.0123	-.275177	01/06/05 06:58:07
Be3130	313.042	Multiple	Standards	32.3907	7.49777	01/06/05 06:58:07
Cd2265	226.502	Multiple	Standards	116.342	-.533105	01/06/05 06:58:07
Cr2677	267.716	Multiple	Standards	939.614	-.606197	01/06/05 06:58:07
Co2286	228.616	Multiple	Standards	831.189	.421910	01/06/05 06:58:07
Cu3247	324.754	Multiple	Standards	433.553	-1.58816	01/06/05 06:58:07
Pb2203	220.351	Multiple	Standards	759.784	-1.09332	01/06/05 06:58:07
Pb220A	220.352	Multiple	Standards	788.641	1.40146	01/06/05 06:58:07
Mo2020	202.030	Multiple	Standards	754.823	-.941994	01/06/05 06:58:07
Ni2316	231.604	Multiple	Standards	324.255	-.596717	01/06/05 06:58:07
Se1960	196.021	Multiple	Standards	2628.56	6.62106	01/06/05 06:58:07
Se196A	196.022	Multiple	Standards	2449.84	-7.69647	01/06/05 06:58:07
Ag3280	328.068	Multiple	Standards	373.775	.565733	01/06/05 06:58:07
Tl1908	190.864	Multiple	Standards	4520.74	8.80308	01/06/05 06:58:07
V_2924	292.402	Multiple	Standards	621.058	-.394632	01/06/05 06:58:07
Zn2138	213.856	Multiple	Standards	874.245	-17.4082	01/06/05 06:58:07
Al3082	308.215	Multiple	Standards	10710.5	-554.147	01/06/05 06:58:07
Ca3179	317.933	Multiple	Standards	6994.05	23.0140	01/06/05 06:58:07
Fe2714	271.441	Multiple	Standards	9803.97	10.1617	01/06/05 06:58:07
Mg2790	279.079	Multiple	Standards	12454.8	-2.11091	01/06/05 06:58:07
Mn2576	257.610	Multiple	Standards	104.536	-.070810	01/06/05 06:58:07
Pb sum	220.353	NONE	NONE	1.00000	.000000	*01/06/05 06:58:07
Sb sum	206.838	NONE	NONE	1.00000	.000000	*01/06/05 06:58:07
Se sum	196.026	NONE	NONE	1.00000	.000000	*01/06/05 06:58:07
Ti3349	334.941	Multiple	Standards	154.453	-28.1667	01/06/05 06:58:07

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061001

Run Name :
Filename : tr259864

Injected : 06-JAN-2005 07:01
Caltpe :

Standards: 04WS2257

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	1000.000	983.1000	ug/L	-2		5	
Antimony	1000.000	986.0000	ug/L	-1		5	
Arsenic	500.0000	497.0000	ug/L	-1		5	
Barium	1000.000	979.0000	ug/L	-2		5	
Beryllium	100.0000	99.00000	ug/L	-1		5	
Cadmium	100.0000	99.10000	ug/L	-1		5	
Calcium	2000.000	1987.000	ug/L	-1		5	
Chromium	200.0000	197.0000	ug/L	-2		5	
Cobalt	500.0000	495.0000	ug/L	-1		5	
Copper	200.0000	197.0000	ug/L	-2		5	
Iron	1000.000	983.2000	ug/L	-2		5	
Lead	500.0000	496.0000	ug/L	-1		5	
Magnesium	2000.000	1985.000	ug/L	-1		5	
Manganese	100.0000	99.00000	ug/L	-1		5	
Molybdenum	1000.000	986.0000	ug/L	-1		5	
Nickel	500.0000	493.0000	ug/L	-1		5	
Selenium	500.0000	495.0000	ug/L	-1		5	
Silver	100.0000	98.60000	ug/L	-1		5	
Thallium	500.0000	499.0000	ug/L	0		5	
Titanium	1000.000	986.0000	ug/L	-1		5	
Vanadium	500.0000	494.0000	ug/L	-1		5	
Zinc	100.0000	98.60000	ug/L	-1		5	

Curtis & Tompkins Laboratories

Injected : 06-JAN-2005 07:06
Caltype :

Standards: 04WS2356

Analyte	SpkAmt	QuantAmt	Units	%D	Max Flags
Aluminum	500.0000	523.2000	ug/L	5	10
Antimony	500.0000	507.0000	ug/L	1	10
Arsenic	250.0000	257.0000	ug/L	3	10
Barium	500.0000	491.0000	ug/L	-2	10
Beryllium	50.00000	50.50000	ug/L	1	10
Cadmium	50.00000	51.50000	ug/L	3	10
Calcium	1000.000	1032.000	ug/L	3	10
Chromium	100.0000	102.0000	ug/L	2	10
Cobalt	250.0000	250.0000	ug/L	0	10
Copper	100.0000	103.0000	ug/L	3	10
Iron	500.0000	522.9000	ug/L	5	10
Lead	250.0000	254.0000	ug/L	2	10
Magnesium	1000.000	1026.000	ug/L	3	10
Manganese	50.00000	49.70000	ug/L	-1	10
Molybdenum	500.0000	508.0000	ug/L	2	10
Nickel	250.0000	255.0000	ug/L	2	10
Selenium	250.0000	247.0000	ug/L	-1	10
Silver	50.00000	51.10000	ug/L	2	10
Thallium	250.0000	247.0000	ug/L	-1	10
Titanium	500.0000	492.0000	ug/L	-2	10
Vanadium	250.0000	250.0000	ug/L	0	10
Zinc	50.00000	51.90000	ug/L	4	10

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061003
Filename: tr259866

TJA Trace ICP
Run Name:
Run Type: ICB

Injected: 06-JAN-2005 07:10

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	[2.6900]	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	ND	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[3.1200]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[1.2200]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061004

Run Name :
Filename : tr259867

Injected : 06-JAN-2005 07:15
Caltype :

Standards: 04WS2346

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	100.0000	122.6000	ug/L	23	50	
Antimony	60.00000	64.80000	ug/L	8	50	
Arsenic	5.000000	5.220000	ug/L	4	50	
Barium	10.00000	9.550000	ug/L	-5	50	
Beryllium	2.000000	1.620000	ug/L	-19	50	
Cadmium	5.000000	4.880000	ug/L	-2	50	
Calcium	200.0000	223.0000	ug/L	12	50	
Chromium	10.00000	9.770000	ug/L	-2	50	
Cobalt	20.00000	19.20000	ug/L	-4	50	
Copper	10.00000	10.30000	ug/L	3	50	
Iron	100.0000	90.45000	ug/L	-10	50	
Lead	3.000000	3.300000	ug/L	10	50	
Magnesium	200.0000	204.1000	ug/L	2	50	
Manganese	10.00000	9.750000	ug/L	-3	50	
Molybdenum	20.00000	20.90000	ug/L	5	50	
Nickel	20.00000	19.80000	ug/L	-1	50	
Selenium	5.000000	5.430000	ug/L	9	50	
Silver	5.000000	4.900000	ug/L	-2	50	
Thallium	5.000000	5.860000	ug/L	17	50	
Vanadium	10.00000	9.640000	ug/L	-4	50	
Zinc	20.00000	21.10000	ug/L	6	50	

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061005
Filename: tr259868

TJA Trace ICP
Run Name:
Run Type: ICSA

Injected: 06-JAN-2005 07:23

Analyte	QuantAmt	RL	Units	Req	Flags
Antimony	[4.9900]	60.00000	ug/L	<RL	
Arsenic	[3.1500]	5.000000	ug/L	<RL	
Barium	[-0.040]	10.00000	ug/L	<RL	
Beryllium	[-0.889]	2.000000	ug/L	<RL	
Cadmium	[0.6820]	5.000000	ug/L	<RL	
Chromium	[2.4800]	10.00000	ug/L	<RL	
Cobalt	[0.2110]	10.00000	ug/L	<RL	
Copper	[-3.300]	10.00000	ug/L	<RL	
Lead	[-0.214]	3.000000	ug/L	<RL	
Manganese	[1.8700]	10.00000	ug/L	<RL	
Molybdenum	[-0.402]	20.00000	ug/L	<RL	
Nickel	[1.8300]	20.00000	ug/L	<RL	
Selenium	[1.3300]	5.000000	ug/L	<RL	
Silver	[0.2890]	5.000000	ug/L	<RL	
Thallium	[4.1200]	5.000000	ug/L	<RL	
Titanium	19.50000	10.00000	ug/L	<RL	
Vanadium	[-3.210]	10.00000	ug/L	<RL	
Zinc	[3.8900]	20.00000	ug/L	<RL	

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	500000	525200	ug/L	105
Calcium	500000	454100.	ug/L	91
Iron	200000	182200	ug/L	91
Magnesium	500000	527800	ug/L	106

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061006

Run Name :
Filename : tr259869

Injected : 06-JAN-2005 07:27
Caltpe :

Standards: 04WS2189

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	499300.0	ug/L	0			
Antimony	500.0000	503.0000	ug/L	1		20	
Arsenic	500.0000	498.0000	ug/L	0		20	
Barium	500.0000	464.0000	ug/L	-7		20	
Beryllium	500.0000	466.0000	ug/L	-7		20	
Cadmium	1000.000	877.0000	ug/L	-12		20	
Calcium	500000.0	431300.0	ug/L	-14			
Chromium	500.0000	447.0000	ug/L	-11		20	
Cobalt	500.0000	446.0000	ug/L	-11		20	
Copper	500.0000	497.0000	ug/L	-1		20	
Iron	200000.0	172400.0	ug/L	-14			
Lead	1000.000	913.0000	ug/L	-9		20	
Magnesium	500000.0	495100.0	ug/L	-1			
Manganese	500.0000	446.0000	ug/L	-11		20	
Molybdenum	500.0000	463.0000	ug/L	-7		20	
Nickel	1000.000	845.0000	ug/L	-16		20	
Selenium	500.0000	509.0000	ug/L	2		20	
Silver	1000.000	902.0000	ug/L	-10		20	
Thallium	500.0000	467.0000	ug/L	-7		20	
Titanium	20000.00	19900.00	ug/L	-1			
Vanadium	500.0000	458.0000	ug/L	-8		20	
Zinc	1000.000	928.0000	ug/L	-7		20	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061014

Run Name :
Filename : tr259877

IDF : 1.0
Injected : 06-JAN-2005 08:16
Caltype :

Standards: 04WS2357

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	496.5000	ug/L	-1	10	
Antimony		500.0000	502.0000	ug/L	0	10	
Arsenic		250.0000	256.0000	ug/L	2	10	
Barium		500.0000	471.0000	ug/L	-6	10	
Beryllium		50.00000	51.60000	ug/L	3	10	
Cadmium		50.00000	51.60000	ug/L	3	10	
Calcium		1000.000	1038.000	ug/L	4	10	
Chromium		100.0000	103.0000	ug/L	3	10	
Cobalt		250.0000	254.0000	ug/L	2	10	
Copper		100.0000	103.0000	ug/L	3	10	
Iron		500.0000	566.0000	ug/L	13	10	c+ **
Lead		250.0000	260.0000	ug/L	4	10	
Magnesium		1000.000	1039.000	ug/L	4	10	
Manganese		50.00000	51.00000	ug/L	2	10	
Molybdenum		500.0000	520.0000	ug/L	4	10	
Nickel		250.0000	259.0000	ug/L	4	10	
Selenium		250.0000	251.0000	ug/L	0	10	
Silver		50.00000	50.90000	ug/L	2	10	
Thallium		250.0000	250.0000	ug/L	0	10	
Titanium		500.0000	491.0000	ug/L	-2	10	
Vanadium		250.0000	251.0000	ug/L	0	10	
Zinc		50.00000	53.90000	ug/L	8	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061015
Filename: tr259878

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 08:20

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	[4.1300]	60.00000	ug/L	<RL	
Arsenic	ND	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	ND	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[23.360]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[16.120]	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[8.9900]	500.0000	ug/L	<RL	
Manganese	[0.5050]	10.00000	ug/L	<RL	
Molybdenum	[2.3100]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[2.4300]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instdid : MET07
Seqnum : 75009061026

Run Name :
Filename : tr259889

IDF : 1.0
Injected : 06-JAN-2005 09:12
Caltype :

Standards: 04WS2419

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	739.5000	ug/L	-1	10	
Antimony		750.0000	720.0000	ug/L	-4	10	
Arsenic		375.0000	367.0000	ug/L	-2	10	
Barium		750.0000	687.0000	ug/L	-8	10	
Beryllium		75.00000	75.00000	ug/L	0	10	
Cadmium		75.00000	74.50000	ug/L	-1	10	
Calcium		1500.000	1471.000	ug/L	-2	10	
Chromium		150.0000	149.0000	ug/L	-1	10	
Cobalt		375.0000	364.0000	ug/L	-3	10	
Copper		150.0000	146.0000	ug/L	-3	10	
Iron		750.0000	914.2000	ug/L	22	10	c+ **
Lead		375.0000	375.0000	ug/L	0	10	
Magnesium		1500.000	1496.000	ug/L	0	10	
Manganese		75.00000	75.90000	ug/L	1	10	
Molybdenum		750.0000	725.0000	ug/L	-3	10	
Nickel		375.0000	371.0000	ug/L	-1	10	
Selenium		375.0000	369.0000	ug/L	-2	10	
Silver		75.00000	73.90000	ug/L	-1	10	
Thallium		375.0000	367.0000	ug/L	-2	10	
Titanium		750.0000	723.0000	ug/L	-4	10	
Vanadium		375.0000	360.0000	ug/L	-4	10	
Zinc		75.00000	76.90000	ug/L	3	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061027
Filename: tr259890

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 09:28

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	ND		60.00000	ug/L	<	RL
Arsenic	[2.8900]		5.000000	ug/L	<	RL
Barium	ND		10.00000	ug/L	<	RL
Beryllium	[0.3800]		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[17.910]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	[14.080]		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	ND		500.0000	ug/L	<	RL
Manganese	ND		10.00000	ug/L	<	RL
Molybdenum	[1.5800]		20.00000	ug/L	<	RL
Nickel	ND		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[1.4500]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061038

Run Name :
Filename : tr259901

IDF : 1.0
Injected : 06-JAN-2005 10:26
Caltpe :

Standards: 04WS2357

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	479.5000	ug/L	-4	10		
Antimony		500.0000	470.0000	ug/L	-6	10		
Arsenic		250.0000	240.0000	ug/L	-4	10		
Barium		500.0000	457.0000	ug/L	-9	10		
Beryllium		50.00000	47.40000	ug/L	-5	10		
Cadmium		50.00000	48.60000	ug/L	-3	10		
Calcium		1000.000	1090.000	ug/L	9	10		
Chromium		100.0000	95.80000	ug/L	-4	10		
Cobalt		250.0000	232.0000	ug/L	-7	10		
Copper		100.0000	95.70000	ug/L	-4	10		
Iron		500.0000	470.5000	ug/L	-6	10		
Lead		250.0000	239.0000	ug/L	-4	10		
Magnesium		1000.000	980.9000	ug/L	-2	10		
Manganese		50.00000	45.30000	ug/L	-9	10		
Molybdenum		500.0000	469.0000	ug/L	-6	10		
Nickel		250.0000	241.0000	ug/L	-4	10		
Selenium		250.0000	232.0000	ug/L	-7	10		
Silver		50.00000	48.50000	ug/L	-3	10		
Thallium		250.0000	226.0000	ug/L	-10	10		
Titanium		500.0000	459.0000	ug/L	-8	10		
Vanadium		250.0000	235.0000	ug/L	-6	10		
Zinc		50.00000	51.30000	ug/L	3	10		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061039
Filename: tr259902

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 10:39

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND	100.0000		ug/L	<	RL
Antimony	ND	60.00000		ug/L	<	RL
Arsenic	[3.3500]	5.000000		ug/L	<	RL
Barium	ND	10.00000		ug/L	<	RL
Beryllium	ND	2.000000		ug/L	<	RL
Cadmium	ND	5.000000		ug/L	<	RL
Calcium	[20.810]	500.0000		ug/L	<	RL
Chromium	ND	10.00000		ug/L	<	RL
Cobalt	ND	10.00000		ug/L	<	RL
Copper	ND	10.00000		ug/L	<	RL
Iron	ND	100.0000		ug/L	<	RL
Lead	ND	3.000000		ug/L	<	RL
Magnesium	ND	500.0000		ug/L	<	RL
Manganese	ND	10.00000		ug/L	<	RL
Molybdenum	[1.4600]	20.00000		ug/L	<	RL
Nickel	ND	20.00000		ug/L	<	RL
Selenium	ND	5.000000		ug/L	<	RL
Silver	ND	5.000000		ug/L	<	RL
Thallium	ND	5.000000		ug/L	<	RL
Titanium	[8.5000]	10.00000		ug/L	<	RL
Vanadium	ND	10.00000		ug/L	<	RL
Zinc	ND	20.00000		ug/L	<	RL

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07 Run Name : IDF : 1.0
Seqnum : 75009061050 Filename : tr259913 Injected : 06-JAN-2005 11:26
Caltype :
Standards: 04WS2419

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	742.5000	ug/L	-1	10	
Antimony		750.0000	753.0000	ug/L	0	10	
Arsenic		375.0000	384.0000	ug/L	2	10	
Barium		750.0000	755.0000	ug/L	1	10	
Beryllium		75.00000	76.10000	ug/L	1	10	
Cadmium		75.00000	77.80000	ug/L	4	10	
Calcium		1500.000	1458.000	ug/L	-3	10	
Chromium		150.0000	152.0000	ug/L	1	10	
Cobalt		375.0000	371.0000	ug/L	-1	10	
Copper		150.0000	152.0000	ug/L	1	10	
Iron		750.0000	759.6000	ug/L	1	10	
Lead		375.0000	378.0000	ug/L	1	10	
Magnesium		1500.000	1539.000	ug/L	3	10	
Manganese		75.00000	74.10000	ug/L	-1	10	
Molybdenum		750.0000	733.0000	ug/L	-2	10	
Nickel		375.0000	382.0000	ug/L	2	10	
Selenium		375.0000	378.0000	ug/L	1	10	
Silver		75.00000	76.60000	ug/L	2	10	
Thallium		375.0000	372.0000	ug/L	-1	10	
Titanium		750.0000	755.0000	ug/L	1	10	
Vanadium		375.0000	372.0000	ug/L	-1	10	
Zinc		75.00000	78.70000	ug/L	5	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061051
Filename: tr259914

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 11:31

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	ND		60.00000	ug/L	<	RL
Arsenic	[4.2200]		5.000000	ug/L	<	RL
Barium	ND		10.00000	ug/L	<	RL
Beryllium	[0.6060]		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[16.940]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[16.270]		500.0000	ug/L	<	RL
Manganese	[0.4750]		10.00000	ug/L	<	RL
Molybdenum	[6.1800]		20.00000	ug/L	<	RL
Nickel	ND		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[8.1700]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061060

Run Name :
Filename : tr259923

Injected : 06-JAN-2005 12:22
Caltpe :

Standards: 04WS2189

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	497400.0	ug/L	-1			
Antimony	500.0000	541.0000	ug/L	8	20		
Arsenic	500.0000	536.0000	ug/L	7	20		
Barium	500.0000	511.0000	ug/L	2	20		
Beryllium	500.0000	477.0000	ug/L	-5	20		
Cadmium	1000.000	954.0000	ug/L	-5	20		
Calcium	500000.0	417000.0	ug/L	-17			
Chromium	500.0000	475.0000	ug/L	-5	20		
Cobalt	500.0000	466.0000	ug/L	-7	20		
Copper	500.0000	510.0000	ug/L	2	20		
Iron	200000.0	179000.0	ug/L	-11			
Lead	1000.000	958.0000	ug/L	-4	20		
Magnesium	500000.0	510600.0	ug/L	2			
Manganese	500.0000	454.0000	ug/L	-9	20		
Molybdenum	500.0000	489.0000	ug/L	-2	20		
Nickel	1000.000	916.0000	ug/L	-8	20		
Selenium	500.0000	532.0000	ug/L	6	20		
Silver	1000.000	936.0000	ug/L	-6	20		
Thallium	500.0000	510.0000	ug/L	2	20		
Titanium	20000.00	21000.00	ug/L	5			
Vanadium	500.0000	479.0000	ug/L	-4	20		
Zinc	1000.000	984.0000	ug/L	-2	20		

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061061

Run Name :
Filename : tr259924

IDF : 1.0
Injected : 06-JAN-2005 12:29
Caltpe :

Standards: 04WS2357

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	557.6000	ug/L	12	10	c+ **
Antimony		500.0000	516.0000	ug/L	3	10	
Arsenic		250.0000	263.0000	ug/L	5	10	
Barium		500.0000	520.0000	ug/L	4	10	
Beryllium		50.00000	51.50000	ug/L	3	10	
Cadmium		50.00000	52.90000	ug/L	6	10	
Calcium		1000.000	982.2000	ug/L	-2	10	
Chromium		100.0000	103.0000	ug/L	3	10	
Cobalt		250.0000	249.0000	ug/L	0	10	
Copper		100.0000	103.0000	ug/L	3	10	
Iron		500.0000	528.0000	ug/L	6	10	
Lead		250.0000	255.0000	ug/L	2	10	
Magnesium		1000.000	1063.000	ug/L	6	10	
Manganese		50.00000	48.60000	ug/L	-3	10	
Molybdenum		500.0000	504.0000	ug/L	1	10	
Nickel		250.0000	261.0000	ug/L	4	10	
Selenium		250.0000	250.0000	ug/L	0	10	
Silver		50.00000	51.00000	ug/L	2	10	
Thallium		250.0000	253.0000	ug/L	1	10	
Titanium		500.0000	506.0000	ug/L	1	10	
Vanadium		250.0000	250.0000	ug/L	0	10	
Zinc		50.00000	53.50000	ug/L	7	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061062
Filename: tr259925

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 12:33

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<	RL
Antimony	[5.1100]	60.00000	ug/L	<	RL
Arsenic	ND	5.000000	ug/L	<	RL
Barium	ND	10.00000	ug/L	<	RL
Beryllium	[1.5500]	2.000000	ug/L	<	RL
Cadmium	ND	5.000000	ug/L	<	RL
Calcium	[27.320]	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	ND	10.00000	ug/L	<	RL
Copper	ND	10.00000	ug/L	<	RL
Iron	[13.340]	100.0000	ug/L	<	RL
Lead	ND	3.000000	ug/L	<	RL
Magnesium	[35.680]	500.0000	ug/L	<	RL
Manganese	ND	10.00000	ug/L	<	RL
Molybdenum	[3.3500]	20.00000	ug/L	<	RL
Nickel	ND	20.00000	ug/L	<	RL
Selenium	ND	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	ND	5.000000	ug/L	<	RL
Titanium	[6.9800]	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	ND	20.00000	ug/L	<	RL

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07 Run Name : IDF : 1.0
Seqnum : 75009061073 Filename : tr259936 Injected : 06-JAN-2005 13:35
Caltpe :
Standards: 04WS2419

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	742.4000	ug/L	-1	10	
Antimony		750.0000	771.0000	ug/L	3	10	
Arsenic		375.0000	395.0000	ug/L	5	10	
Barium		750.0000	781.0000	ug/L	4	10	
Beryllium		75.00000	75.00000	ug/L	0	10	
Cadmium		75.00000	79.90000	ug/L	7	10	
Calcium		1500.000	1369.000	ug/L	-9	10	
Chromium		150.0000	151.0000	ug/L	1	10	
Cobalt		375.0000	366.0000	ug/L	-2	10	
Copper		150.0000	149.0000	ug/L	-1	10	
Iron		750.0000	757.5000	ug/L	1	10	
Lead		375.0000	379.0000	ug/L	1	10	
Magnesium		1500.000	1515.000	ug/L	1	10	
Manganese		75.00000	70.70000	ug/L	-6	10	
Molybdenum		750.0000	736.0000	ug/L	-2	10	
Nickel		375.0000	390.0000	ug/L	4	10	
Selenium		375.0000	390.0000	ug/L	4	10	
Silver		75.00000	74.80000	ug/L	0	10	
Thallium		375.0000	384.0000	ug/L	2	10	
Titanium		750.0000	754.0000	ug/L	1	10	
Vanadium		375.0000	366.0000	ug/L	-2	10	
Zinc		75.00000	79.10000	ug/L	5	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061074
Filename: tr259937

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 13:38

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<RL	
Antimony	[5.3000]		60.00000	ug/L	<RL	
Arsenic	[3.2100]		5.000000	ug/L	<RL	
Barium	[0.5270]		10.00000	ug/L	<RL	
Beryllium	ND		2.000000	ug/L	<RL	
Cadmium	ND		5.000000	ug/L	<RL	
Calcium	ND		500.0000	ug/L	<RL	
Chromium	ND		10.00000	ug/L	<RL	
Cobalt	ND		10.00000	ug/L	<RL	
Copper	ND		10.00000	ug/L	<RL	
Iron	ND		100.0000	ug/L	<RL	
Lead	[1.1700]		3.000000	ug/L	<RL	
Magnesium	[14.200]		500.0000	ug/L	<RL	
Manganese	ND		10.00000	ug/L	<RL	
Molybdenum	[7.3600]		20.00000	ug/L	<RL	
Nickel	ND		20.00000	ug/L	<RL	
Selenium	ND		5.000000	ug/L	<RL	
Silver	ND		5.000000	ug/L	<RL	
Thallium	ND		5.000000	ug/L	<RL	
Titanium	[6.0500]		10.00000	ug/L	<RL	
Vanadium	ND		10.00000	ug/L	<RL	
Zinc	ND		20.00000	ug/L	<RL	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061079

Run Name :
Filename : tr259942

IDF : 1.0
Injected : 06-JAN-2005 14:01
Caltpe :

Standards: 04WS2357

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	531.0000	ug/L	6		10	
Antimony		500.0000	531.0000	ug/L	6		10	
Arsenic		250.0000	271.0000	ug/L	8		10	
Barium		500.0000	539.0000	ug/L	8		10	
Beryllium		50.00000	50.90000	ug/L	2		10	
Cadmium		50.00000	54.60000	ug/L	9		10	
Calcium		1000.000	916.7000	ug/L	-8		10	
Chromium		100.0000	104.0000	ug/L	4		10	
Cobalt		250.0000	250.0000	ug/L	0		10	
Copper		100.0000	102.0000	ug/L	2		10	
Iron		500.0000	504.0000	ug/L	1		10	
Lead		250.0000	260.0000	ug/L	4		10	
Magnesium		1000.000	1028.000	ug/L	3		10	
Manganese		50.00000	47.70000	ug/L	-5		10	
Molybdenum		500.0000	516.0000	ug/L	3		10	
Nickel		250.0000	268.0000	ug/L	7		10	
Selenium		250.0000	260.0000	ug/L	4		10	
Silver		50.00000	50.50000	ug/L	1		10	
Thallium		250.0000	263.0000	ug/L	5		10	
Titanium		500.0000	508.0000	ug/L	2		10	
Vanadium		250.0000	250.0000	ug/L	0		10	
Zinc		50.00000	54.50000	ug/L	9		10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061080
Filename: tr259943

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 14:05

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	[76.640]	100.0000	ug/L	<RL	
Antimony	[3.8000]	60.00000	ug/L	<RL	
Arsenic	[4.1100]	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[0.5680]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	ND	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	[12.000]	100.0000	ug/L	<RL	
Lead	[1.2700]	3.000000	ug/L	<RL	
Magnesium	[12.780]	500.0000	ug/L	<RL	
Manganese	ND	10.00000	ug/L	<RL	
Molybdenum	[2.7800]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[5.6600]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061081

Run Name :
Filename : tr259945

Injected : 06-JAN-2005 14:09
Caltype :

Standards: 04WS2189

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	487600.0	ug/L	-2		
Antimony	500.0000	556.0000	ug/L	11	20	
Arsenic	500.0000	546.0000	ug/L	9	20	
Barium	500.0000	531.0000	ug/L	6	20	
Beryllium	500.0000	476.0000	ug/L	-5	20	
Cadmium	1000.000	989.0000	ug/L	-1	20	
Calcium	500000.0	402900.0	ug/L	-19		
Chromium	500.0000	475.0000	ug/L	-5	20	
Cobalt	500.0000	464.0000	ug/L	-7	20	
Copper	500.0000	505.0000	ug/L	1	20	
Iron	200000.0	178100.0	ug/L	-11		
Lead	1000.000	966.0000	ug/L	-3	20	
Magnesium	500000.0	508800.0	ug/L	2		
Manganese	500.0000	442.0000	ug/L	-12	20	
Molybdenum	500.0000	496.0000	ug/L	-1	20	
Nickel	1000.000	938.0000	ug/L	-6	20	
Selenium	500.0000	542.0000	ug/L	8	20	
Silver	1000.000	925.0000	ug/L	-8	20	
Thallium	500.0000	519.0000	ug/L	4	20	
Titanium	20000.00	21100.00	ug/L	6		
Vanadium	500.0000	477.0000	ug/L	-5	20	
Zinc	1000.000	1000.000	ug/L	0	20	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061090

Run Name :
Filename : tr259954

Injected : 06-JAN-2005 15:18
Caltype :

Standards: 04WS2189

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	491200.0	ug/L	-2			
Antimony	500.0000	575.0000	ug/L	15		20	
Arsenic	500.0000	573.0000	ug/L	15		20	
Barium	500.0000	561.0000	ug/L	12		20	
Beryllium	500.0000	487.0000	ug/L	-3		20	
Cadmium	1000.000	1040.000	ug/L	4		20	
Calcium	500000.0	406000.0	ug/L	-19			
Chromium	500.0000	491.0000	ug/L	-2		20	
Cobalt	500.0000	478.0000	ug/L	-4		20	
Copper	500.0000	518.0000	ug/L	4		20	
Iron	200000.0	183000.0	ug/L	-9			
Lead	1000.000	992.0000	ug/L	-1		20	
Magnesium	500000.0	524100.0	ug/L	5			
Manganese	500.0000	452.0000	ug/L	-10		20	
Molybdenum	500.0000	507.0000	ug/L	1		20	
Nickel	1000.000	984.0000	ug/L	-2		20	
Selenium	500.0000	553.0000	ug/L	11		20	
Silver	1000.000	947.0000	ug/L	-5		20	
Thallium	500.0000	535.0000	ug/L	7		20	
Titanium	20000.00	21900.00	ug/L	10			
Vanadium	500.0000	492.0000	ug/L	-2		20	
Zinc	1000.000	1060.000	ug/L	6		20	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061091

Run Name :
Filename : tr259955

IDF : 1.0
Injected : 06-JAN-2005 15:27
Caltpe :

Standards: 04WS2419

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	743.5000	ug/L	-1	10	
Antimony		750.0000	756.0000	ug/L	1	10	
Arsenic		375.0000	388.0000	ug/L	3	10	
Barium		750.0000	799.0000	ug/L	7	10	
Beryllium		75.00000	71.70000	ug/L	-4	10	
Cadmium		75.00000	78.90000	ug/L	5	10	
Calcium		1500.000	1350.000	ug/L	-10	10	
Chromium		150.0000	145.0000	ug/L	-3	10	
Cobalt		375.0000	350.0000	ug/L	-7	10	
Copper		150.0000	142.0000	ug/L	-5	10	
Iron		750.0000	745.2000	ug/L	-1	10	
Lead		375.0000	361.0000	ug/L	-4	10	
Magnesium		1500.000	1463.000	ug/L	-2	10	
Manganese		75.00000	66.50000	ug/L	-11	10	c- **
Molybdenum		750.0000	707.0000	ug/L	-6	10	
Nickel		375.0000	382.0000	ug/L	2	10	
Selenium		375.0000	376.0000	ug/L	0	10	
Silver		75.00000	72.00000	ug/L	-4	10	
Thallium		375.0000	372.0000	ug/L	-1	10	
Titanium		750.0000	734.0000	ug/L	-2	10	
Vanadium		375.0000	348.0000	ug/L	-7	10	
Zinc		75.00000	77.10000	ug/L	3	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061092
Filename: tr259956

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 15:32

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	108.9000		100.0000	ug/L	<RL	ib ***
Antimony	[6.3300]		60.00000	ug/L	<RL	
Arsenic	ND		5.000000	ug/L	<RL	
Barium	[0.5030]		10.00000	ug/L	<RL	
Beryllium	ND		2.000000	ug/L	<RL	
Cadmium	ND		5.000000	ug/L	<RL	
Calcium	[33.680]		500.0000	ug/L	<RL	
Chromium	ND		10.00000	ug/L	<RL	
Cobalt	ND		10.00000	ug/L	<RL	
Copper	ND		10.00000	ug/L	<RL	
Iron	[18.970]		100.0000	ug/L	<RL	
Lead	[1.3000]		3.000000	ug/L	<RL	
Magnesium	[28.150]		500.0000	ug/L	<RL	
Manganese	[0.4690]		10.00000	ug/L	<RL	
Molybdenum	[5.5800]		20.00000	ug/L	<RL	
Nickel	ND		20.00000	ug/L	<RL	
Selenium	ND		5.000000	ug/L	<RL	
Silver	ND		5.000000	ug/L	<RL	
Thallium	ND		5.000000	ug/L	<RL	
Titanium	[6.9500]		10.00000	ug/L	<RL	
Vanadium	ND		10.00000	ug/L	<RL	
Zinc	ND		20.00000	ug/L	<RL	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061103

Run Name :
Filename : tr259967

IDF : 1.0
Injected : 06-JAN-2005 16:28
Caltype :

Standards: 04WS2357

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	519.7000	ug/L	4	10	
Antimony		500.0000	499.0000	ug/L	0	10	
Arsenic		250.0000	252.0000	ug/L	1	10	
Barium		500.0000	495.0000	ug/L	-1	10	
Beryllium		50.00000	49.80000	ug/L	0	10	
Cadmium		50.00000	50.80000	ug/L	2	10	
Calcium		1000.000	1147.000	ug/L	15	10	C+ **
Chromium		100.0000	100.0000	ug/L	0	10	
Cobalt		250.0000	245.0000	ug/L	-2	10	
Copper		100.0000	100.0000	ug/L	0	10	
Iron		500.0000	537.1000	ug/L	7	10	
Lead		250.0000	246.0000	ug/L	-2	10	
Magnesium		1000.000	1015.000	ug/L	2	10	
Manganese		50.00000	49.80000	ug/L	0	10	
Molybdenum		500.0000	491.0000	ug/L	-2	10	
Nickel		250.0000	250.0000	ug/L	0	10	
Selenium		250.0000	243.0000	ug/L	-3	10	
Silver		50.00000	50.30000	ug/L	1	10	
Thallium		250.0000	239.0000	ug/L	-4	10	
Titanium		500.0000	491.0000	ug/L	-2	10	
Vanadium		250.0000	247.0000	ug/L	-1	10	
Zinc		50.00000	51.80000	ug/L	4	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061104
Filename: tr259968

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 16:41

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	ND		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	ND		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	ND		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	[25.780]		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[18.510]		500.0000	ug/L	<	RL
Manganese	ND		10.00000	ug/L	<	RL
Molybdenum	ND		20.00000	ug/L	<	RL
Nickel	ND		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[6.8700]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instdid : MET07
Seqnum : 75009061115

Run Name :
Filename : tr259980

IDF : 1.0
Injected : 06-JAN-2005 17:55
Caltype :

Standards: 05WS0016

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		250.0000	229.7000	ug/L	-8		10	
Antimony		250.0000	230.0000	ug/L	-8		10	
Arsenic		125.0000	126.0000	ug/L	1		10	
Barium		250.0000	241.0000	ug/L	-4		10	
Beryllium		25.00000	24.40000	ug/L	-2		10	
Cadmium		25.00000	24.70000	ug/L	-1		10	
Calcium		500.0000	417.0000	ug/L	-17		10	c- **
Chromium		50.00000	48.10000	ug/L	-4		10	
Cobalt		125.0000	118.0000	ug/L	-6		10	
Copper		50.00000	46.00000	ug/L	-8		10	
Iron		250.0000	238.4000	ug/L	-5		10	
Lead		125.0000	121.0000	ug/L	-3		10	
Magnesium		500.0000	499.7000	ug/L	0		10	
Manganese		25.00000	23.90000	ug/L	-4		10	
Molybdenum		250.0000	232.0000	ug/L	-7		10	
Nickel		125.0000	122.0000	ug/L	-2		10	
Selenium		125.0000	121.0000	ug/L	-3		10	
Silver		25.00000	24.30000	ug/L	-3		10	
Thallium		125.0000	114.0000	ug/L	-9		10	
Titanium		250.0000	245.0000	ug/L	-2		10	
Vanadium		125.0000	118.0000	ug/L	-6		10	
Zinc		25.00000	24.80000	ug/L	-1		10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061116
Filename: tr259981

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 18:07

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<	RL
Antimony	[4.2500]	60.00000	ug/L	<	RL
Arsenic	ND	5.000000	ug/L	<	RL
Barium	ND	10.00000	ug/L	<	RL
Beryllium	ND	2.000000	ug/L	<	RL
Cadmium	ND	5.000000	ug/L	<	RL
Calcium	ND	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	ND	10.00000	ug/L	<	RL
Copper	ND	10.00000	ug/L	<	RL
Iron	ND	100.0000	ug/L	<	RL
Lead	ND	3.000000	ug/L	<	RL
Magnesium	ND	500.0000	ug/L	<	RL
Manganese	ND	10.00000	ug/L	<	RL
Molybdenum	ND	20.00000	ug/L	<	RL
Nickel	ND	20.00000	ug/L	<	RL
Selenium	ND	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	ND	5.000000	ug/L	<	RL
Titanium	[7.1800]	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	ND	20.00000	ug/L	<	RL

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061127

Run Name :
Filename : tr259992

IDF : 1.0
Injected : 06-JAN-2005 19:07
Caltype :

Standards: 04WS2357

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	487.8000	ug/L	-2	10	
Antimony		500.0000	511.0000	ug/L	2	10	
Arsenic		250.0000	256.0000	ug/L	2	10	
Barium		500.0000	512.0000	ug/L	2	10	
Beryllium		50.00000	50.10000	ug/L	0	10	
Cadmium		50.00000	52.30000	ug/L	5	10	
Calcium		1000.000	943.8000	ug/L	-6	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	247.0000	ug/L	-1	10	
Copper		100.0000	99.70000	ug/L	0	10	
Iron		500.0000	473.7000	ug/L	-5	10	
Lead		250.0000	251.0000	ug/L	0	10	
Magnesium		1000.000	1017.000	ug/L	2	10	
Manganese		50.00000	49.20000	ug/L	-2	10	
Molybdenum		500.0000	495.0000	ug/L	-1	10	
Nickel		250.0000	256.0000	ug/L	2	10	
Selenium		250.0000	246.0000	ug/L	-2	10	
Silver		50.00000	50.10000	ug/L	0	10	
Thallium		250.0000	238.0000	ug/L	-5	10	
Titanium		500.0000	494.0000	ug/L	-1	10	
Vanadium		250.0000	248.0000	ug/L	-1	10	
Zinc		50.00000	51.40000	ug/L	3	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061128
Filename: tr259993

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 19:13

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL	
Antimony	ND	60.00000	ug/L	<RL	
Arsenic	[3.2700]	5.000000	ug/L	<RL	
Barium	ND	10.00000	ug/L	<RL	
Beryllium	[0.2700]	2.000000	ug/L	<RL	
Cadmium	ND	5.000000	ug/L	<RL	
Calcium	[17.790]	500.0000	ug/L	<RL	
Chromium	ND	10.00000	ug/L	<RL	
Cobalt	ND	10.00000	ug/L	<RL	
Copper	ND	10.00000	ug/L	<RL	
Iron	ND	100.0000	ug/L	<RL	
Lead	ND	3.000000	ug/L	<RL	
Magnesium	[9.1390]	500.0000	ug/L	<RL	
Manganese	[0.6220]	10.00000	ug/L	<RL	
Molybdenum	[1.9200]	20.00000	ug/L	<RL	
Nickel	ND	20.00000	ug/L	<RL	
Selenium	ND	5.000000	ug/L	<RL	
Silver	ND	5.000000	ug/L	<RL	
Thallium	ND	5.000000	ug/L	<RL	
Titanium	[8.0000]	10.00000	ug/L	<RL	
Vanadium	ND	10.00000	ug/L	<RL	
Zinc	ND	20.00000	ug/L	<RL	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061138

Run Name :
Filename : tr260003

Injected : 06-JAN-2005 20:06
Caltype :

Standards: 04WS2189

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	520500.0	ug/L	4			
Antimony	500.0000	555.0000	ug/L	11	20		
Arsenic	500.0000	548.0000	ug/L	10	20		
Barium	500.0000	522.0000	ug/L	4	20		
Beryllium	500.0000	481.0000	ug/L	-4	20		
Cadmium	1000.000	978.0000	ug/L	-2	20		
Calcium	500000.0	405900.0	ug/L	-19			
Chromium	500.0000	475.0000	ug/L	-5	20		
Cobalt	500.0000	472.0000	ug/L	-6	20		
Copper	500.0000	519.0000	ug/L	4	20		
Iron	200000.0	176200.0	ug/L	-12			
Lead	1000.000	967.0000	ug/L	-3	20		
Magnesium	500000.0	517200.0	ug/L	3			
Manganese	500.0000	458.0000	ug/L	-8	20		
Molybdenum	500.0000	491.0000	ug/L	-2	20		
Nickel	1000.000	928.0000	ug/L	-7	20		
Selenium	500.0000	539.0000	ug/L	8	20		
Silver	1000.000	939.0000	ug/L	-6	20		
Thallium	500.0000	497.0000	ug/L	-1	20		
Titanium	20000.00	21100.00	ug/L	6			
Vanadium	500.0000	491.0000	ug/L	-2	20		
Zinc	1000.000	1030.000	ug/L	3	20		

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061139

Run Name :
Filename : tr260004

IDF : 1.0
Injected : 06-JAN-2005 20:13
Caltype :

Standards: 04WS2419

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	764.0000	ug/L	2	10	
Antimony		750.0000	743.0000	ug/L	-1	10	
Arsenic		375.0000	379.0000	ug/L	1	10	
Barium		750.0000	741.0000	ug/L	-1	10	
Beryllium		75.00000	72.60000	ug/L	-3	10	
Cadmium		75.00000	77.00000	ug/L	3	10	
Calcium		1500.000	1371.000	ug/L	-9	10	
Chromium		150.0000	145.0000	ug/L	-3	10	
Cobalt		375.0000	357.0000	ug/L	-5	10	
Copper		150.0000	144.0000	ug/L	-4	10	
Iron		750.0000	739.3000	ug/L	-1	10	
Lead		375.0000	367.0000	ug/L	-2	10	
Magnesium		1500.000	1519.000	ug/L	1	10	
Manganese		75.00000	69.40000	ug/L	-7	10	
Molybdenum		750.0000	697.0000	ug/L	-7	10	
Nickel		375.0000	372.0000	ug/L	-1	10	
Selenium		375.0000	377.0000	ug/L	1	10	
Silver		75.00000	72.40000	ug/L	-3	10	
Thallium		375.0000	353.0000	ug/L	-6	10	
Titanium		750.0000	727.0000	ug/L	-3	10	
Vanadium		375.0000	355.0000	ug/L	-5	10	
Zinc		75.00000	75.20000	ug/L	0	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061140
Filename: tr260005

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 20:20

Analyte	QuantAmt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<	RL
Antimony	[5.9500]	60.00000	ug/L	<	RL
Arsenic	[3.0700]	5.000000	ug/L	<	RL
Barium	ND	10.00000	ug/L	<	RL
Beryllium	[0.5810]	2.000000	ug/L	<	RL
Cadmium	ND	5.000000	ug/L	<	RL
Calcium	[20.610]	500.0000	ug/L	<	RL
Chromium	ND	10.00000	ug/L	<	RL
Cobalt	ND	10.00000	ug/L	<	RL
Copper	ND	10.00000	ug/L	<	RL
Iron	ND	100.0000	ug/L	<	RL
Lead	ND	3.000000	ug/L	<	RL
Magnesium	[20.000]	500.0000	ug/L	<	RL
Manganese	ND	10.00000	ug/L	<	RL
Molybdenum	[6.0400]	20.00000	ug/L	<	RL
Nickel	ND	20.00000	ug/L	<	RL
Selenium	ND	5.000000	ug/L	<	RL
Silver	ND	5.000000	ug/L	<	RL
Thallium	ND	5.000000	ug/L	<	RL
Titanium	[9.1100]	10.00000	ug/L	<	RL
Vanadium	ND	10.00000	ug/L	<	RL
Zinc	ND	20.00000	ug/L	<	RL

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061151

Run Name :
Filename : tr260016

IDF : 1.0
Injected : 06-JAN-2005 21:14
Caltype :

Standards: 04WS2357

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	530.5000	ug/L	6		10	
Antimony		500.0000	534.0000	ug/L	7		10	
Arsenic		250.0000	268.0000	ug/L	7		10	
Barium		500.0000	536.0000	ug/L	7		10	
Beryllium		50.00000	51.30000	ug/L	3		10	
Cadmium		50.00000	50.50000	ug/L	1		10	
Calcium		1000.000	896.4000	ug/L	-10		10	
Chromium		100.0000	102.0000	ug/L	2		10	
Cobalt		250.0000	253.0000	ug/L	1		10	
Copper		100.0000	100.0000	ug/L	0		10	
Iron		500.0000	483.4000	ug/L	-3		10	
Lead		250.0000	261.0000	ug/L	4		10	
Magnesium		1000.000	1026.000	ug/L	3		10	
Manganese		50.00000	50.10000	ug/L	0		10	
Molybdenum		500.0000	507.0000	ug/L	1		10	
Nickel		250.0000	266.0000	ug/L	6		10	
Selenium		250.0000	265.0000	ug/L	6		10	
Silver		50.00000	49.60000	ug/L	-1		10	
Thallium		250.0000	247.0000	ug/L	-1		10	
Titanium		500.0000	507.0000	ug/L	1		10	
Vanadium		250.0000	251.0000	ug/L	0		10	
Zinc		50.00000	53.70000	ug/L	7		10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061152
Filename: tr260017

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 21:22

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[4.2800]		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	[0.4460]		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	ND		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[9.7270]		500.0000	ug/L	<	RL
Manganese	[0.9270]		10.00000	ug/L	<	RL
Molybdenum	[6.9400]		20.00000	ug/L	<	RL
Nickel	ND		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[8.4400]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061163

Run Name :
Filename : tr260028

IDF : 1.0
Injected : 06-JAN-2005 22:18
Caltpe :

Standards: 04WS2419

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	714.4000	ug/L	-5		10	
Antimony		750.0000	756.0000	ug/L	1		10	
Arsenic		375.0000	384.0000	ug/L	2		10	
Barium		750.0000	765.0000	ug/L	2		10	
Beryllium		75.00000	72.50000	ug/L	-3		10	
Cadmium		75.00000	72.60000	ug/L	-3		10	
Calcium		1500.000	1307.000	ug/L	-13		10	c- **
Chromium		150.0000	146.0000	ug/L	-3		10	
Cobalt		375.0000	361.0000	ug/L	-4		10	
Copper		150.0000	144.0000	ug/L	-4		10	
Iron		750.0000	712.3000	ug/L	-5		10	
Lead		375.0000	371.0000	ug/L	-1		10	
Magnesium		1500.000	1481.000	ug/L	-1		10	
Manganese		75.00000	71.80000	ug/L	-4		10	
Molybdenum		750.0000	703.0000	ug/L	-6		10	
Nickel		375.0000	380.0000	ug/L	1		10	
Selenium		375.0000	387.0000	ug/L	3		10	
Silver		75.00000	72.40000	ug/L	-3		10	
Thallium		375.0000	363.0000	ug/L	-3		10	
Titanium		750.0000	731.0000	ug/L	-3		10	
Vanadium		375.0000	357.0000	ug/L	-5		10	
Zinc		75.00000	76.70000	ug/L	2		10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061164
Filename: tr260029

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 22:22

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	[5.4400]		60.00000	ug/L	<	RL
Arsenic	[3.1900]		5.000000	ug/L	<	RL
Barium	ND		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	ND		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	ND		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[16.730]		500.0000	ug/L	<	RL
Manganese	[1.6600]		10.00000	ug/L	<	RL
Molybdenum	[6.8000]		20.00000	ug/L	<	RL
Nickel	ND		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[7.3000]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061169

Run Name :
Filename : tr260034

Injected : 06-JAN-2005 22:46
Caltpe :

Standards: 04WS2189

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	493600.0	ug/L	-1			
Antimony	500.0000	542.0000	ug/L	8	20		
Arsenic	500.0000	536.0000	ug/L	7	20		
Barium	500.0000	518.0000	ug/L	4	20		
Beryllium	500.0000	463.0000	ug/L	-7	20		
Cadmium	1000.000	889.0000	ug/L	-11	20		
Calcium	500000.0	382000.0	ug/L	-24			
Chromium	500.0000	458.0000	ug/L	-8	20		
Cobalt	500.0000	458.0000	ug/L	-8	20		
Copper	500.0000	500.0000	ug/L	0	20		
Iron	200000.0	169200.0	ug/L	-15			
Lead	1000.000	949.0000	ug/L	-5	20		
Magnesium	500000.0	497000.0	ug/L	-1			
Manganese	500.0000	434.0000	ug/L	-13	20		
Molybdenum	500.0000	478.0000	ug/L	-4	20		
Nickel	1000.000	912.0000	ug/L	-9	20		
Selenium	500.0000	534.0000	ug/L	7	20		
Silver	1000.000	901.0000	ug/L	-10	20		
Thallium	500.0000	488.0000	ug/L	-2	20		
Titanium	20000.00	20400.00	ug/L	2			
Vanadium	500.0000	474.0000	ug/L	-5	20		
Zinc	1000.000	1010.000	ug/L	1	20		

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75009061170

Run Name :
Filename : tr260035

IDF : 1.0
Injected : 06-JAN-2005 22:53
Caltype :

Standards: 04WS2357

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	571.0000	ug/L	14	10	c+ **
Antimony		500.0000	524.0000	ug/L	5	10	
Arsenic		250.0000	265.0000	ug/L	6	10	
Barium		500.0000	528.0000	ug/L	6	10	
Beryllium		50.00000	49.70000	ug/L	-1	10	
Cadmium		50.00000	49.40000	ug/L	-1	10	
Calcium		1000.000	915.2000	ug/L	-8	10	
Chromium		100.0000	101.0000	ug/L	1	10	
Cobalt		250.0000	249.0000	ug/L	0	10	
Copper		100.0000	97.80000	ug/L	-2	10	
Iron		500.0000	498.5000	ug/L	0	10	
Lead		250.0000	254.0000	ug/L	2	10	
Magnesium		1000.000	1055.000	ug/L	6	10	
Manganese		50.00000	47.00000	ug/L	-6	10	
Molybdenum		500.0000	511.0000	ug/L	2	10	
Nickel		250.0000	261.0000	ug/L	4	10	
Selenium		250.0000	257.0000	ug/L	3	10	
Silver		50.00000	49.30000	ug/L	-1	10	
Thallium		250.0000	246.0000	ug/L	-2	10	
Titanium		500.0000	502.0000	ug/L	0	10	
Vanadium		250.0000	247.0000	ug/L	-1	10	
Zinc		50.00000	52.90000	ug/L	6	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75009061171
Filename: tr260036

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 06-JAN-2005 22:56

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[78.910]	100.0000	ug/L	<RL		
Antimony	[4.6400]	60.00000	ug/L	<RL		
Arsenic	[3.0700]	5.000000	ug/L	<RL		
Barium	ND	10.00000	ug/L	<RL		
Beryllium	ND	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[27.470]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[20.400]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[40.780]	500.0000	ug/L	<RL		
Manganese	ND	10.00000	ug/L	<RL		
Molybdenum	[6.2900]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	10.60000	10.00000	ug/L	<RL	ib	***
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 13-JAN-2005

Sequence: 75019172 Instrument: MET07
Analytical Method: EPA 6010B

TJA Trace ICP
SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
001	tr260401	CS				13-JAN-2005 07:32	1.0	1.0				1	
002	tr260402	ICV				13-JAN-2005 07:40	1.0	1.0				2	
003	tr260403	ICB				13-JAN-2005 07:44	1.0	1.0					
004	tr260404	CRI				13-JAN-2005 07:47	1.0	1.0				3	
005	tr260405	ICSA				13-JAN-2005 07:55	1.0	1.0	1			4	4:MG=531900
006	tr260406	ICSAB				13-JAN-2005 07:59	1.0	1.0				5	5:MG=526100
007	tr260407	BLANK	QC279208	98247	Soil	13-JAN-2005 08:06	1.0	50.0	1				
008	tr260408	BS	QC279209	98247	Soil	13-JAN-2005 08:11	1.0	50.0	3				
009	tr260409	BSD	QC279210	98247	Soil	13-JAN-2005 08:15	1.0	50.0	3				
010	tr260410	MSS	177110-007	98247	Soil	13-JAN-2005 08:20	1.0	44.64	6				5:FE=513100
011	tr260411	MS	QC279211	98247	Soil	13-JAN-2005 08:24	1.0	34.48	1	1			5:FE=813000
012	tr260412	MSD	QC279212	98247	Soil	13-JAN-2005 08:28	1.0	42.37	1	2			5:FE=491800
013	tr260413	MSS	177110-007	98247	Soil	13-JAN-2005 08:34	1.0	44.64	6				5:FE=519900
014	tr260414	MSS	177110-007	98247	Soil	13-JAN-2005 08:38	2.0	44.64	4				2:FE=264300
015	tr260415	CCV				13-JAN-2005 08:42	1.0	1.0	2			6	
016	tr260416	CCB				13-JAN-2005 08:46	1.0	1.0					
017	tr260417	SAMPLE	177092-001	98247	Soil	13-JAN-2005 08:52	1.0	34.72					4:FE=488700
018	tr260418	SAMPLE	177110-001	98247	Soil	13-JAN-2005 08:56	1.0	50.0					7:CA=1349000
019	tr260419	SAMPLE	177110-002	98247	Soil	13-JAN-2005 09:00	1.0	36.23					9:FE=4314000
020	tr260420	SAMPLE	177110-003	98247	Soil	13-JAN-2005 09:04	1.0	35.21					4:AL=623300
021	tr260421	SAMPLE	177110-004	98247	Soil	13-JAN-2005 09:08	1.0	43.86					4:FE=568500
022	tr260422	SAMPLE	177110-005	98247	Soil	13-JAN-2005 09:12	1.0	48.54					3:FE=937600
023	tr260423	SAMPLE	177110-006	98247	Soil	13-JAN-2005 09:16	1.0	38.46					5:FE=713700
024	tr260424	SAMPLE	177110-008	98247	Soil	13-JAN-2005 09:20	1.0	47.17					5:FE=629100
025	tr260425	SAMPLE	177088-001	98247	Miscel	13-JAN-2005 09:27	1.0	42.02					
026	tr260426	SAMPLE	177088-002	98247	Miscel	13-JAN-2005 09:31	1.0	40.98					
027	tr260427	CCV				13-JAN-2005 09:36	1.0	1.0	1			7	
028	tr260428	CCB				13-JAN-2005 09:50	1.0	1.0					
029	tr260429	SAMPLE	177068-021	98247	Soil	13-JAN-2005 09:54	1.0	40.98					2:FE=245000
030	tr260430	SAMPLE	177068-022	98247	Soil	13-JAN-2005 09:58	1.0	41.67	1				2:FE=119500
031	tr260431	SAMPLE	177068-023	98247	Soil	13-JAN-2005 10:02	1.0	47.62					3:FE=143800

Stds used: 1=04WS2257 2=04WS2356 3=04WS2346 4=04WS2355 5=04WS2189 6=04WS2357 7=04WS2419

Analyst: *K Carlyn* Date: *1/13/05*
Page 1 of 3

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 75019172 Instrument: MET07
Analytical Method: EPA 6010B

TJA Trace ICP
SOP Version: 6010B_rv7

Begun: 13-JAN-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
032	tr260432	SAMPLE	177068-022	98247	Soil	13-JAN-2005 10:07	1.0	41.67				2:FE=119500	
033	tr260433	SAMPLE	177068-024	98247	Soil	13-JAN-2005 10:11	1.0	51.55				3:FE=151300	
034	tr260434	SAMPLE	177068-025	98247	Soil	13-JAN-2005 10:16	1.0	43.10				3:FE=217700	
035	tr260435	SAMPLE	177068-026	98247	Soil	13-JAN-2005 10:20	1.0	45.05				3:CA=260000	
036	tr260436	SAMPLE	177068-027	98247	Soil	13-JAN-2005 10:24	1.0	32.89				3:CA=304100	
037	tr260437	BLANK	QC279213	98248	Soil	13-JAN-2005 10:28	1.0	50.0	1				
038	tr260438	BS	QC279214	98248	Soil	13-JAN-2005 10:32	1.0	50.0	2				
039	tr260439	CCV				13-JAN-2005 10:52	1.0	1.0				6	
040	tr260440	CCB				13-JAN-2005 11:08	1.0	1.0					
041	tr260441	BSD	QC279215	98248	Soil	13-JAN-2005 11:12	1.0	50.0	1				
042	tr260442	MSS	177105-001	98248	Soil	13-JAN-2005 11:17	1.0	53.76	4			3:FE=192400	
043	tr260443	MS	QC279216	98248	Soil	13-JAN-2005 11:22	1.0	34.48				5:FE=317600	
044	tr260444	MSD	QC279217	98248	Soil	13-JAN-2005 11:26	1.0	38.76				4:FE=264200	
045	tr260445	SAMPLE	177105-002	98248	Soil	13-JAN-2005 11:31	1.0	51.55				3:FE=434800	
046	tr260446	SAMPLE	177105-003	98248	Soil	13-JAN-2005 11:35	1.0	39.68				4:FE=478500	
047	tr260447	SAMPLE	177105-004	98248	Soil	13-JAN-2005 11:39	1.0	34.25				5:FE=429500	
048	tr260448	SAMPLE	177105-005	98248	Soil	13-JAN-2005 11:43	1.0	32.26				4:FE=679500	
049	tr260449	SAMPLE	177105-006	98248	Soil	13-JAN-2005 11:48	1.0	35.46				3:FE=333800	
050	tr260450	SAMPLE	177105-005	98248	Soil	13-JAN-2005 11:52	1.0	32.26				4:FE=682500	
051	tr260451	CCV				13-JAN-2005 11:59	1.0	1.0				7	
052	tr260452	CCB				13-JAN-2005 12:03	1.0	1.0					
053	tr260453	SAMPLE	177105-007	98248	Soil	13-JAN-2005 12:10	1.0	35.97				4:FE=372600	
054	tr260454	SAMPLE	177105-008	98248	Soil	13-JAN-2005 12:15	1.0	36.76				3:FE=301300	
055	tr260455	SAMPLE	177105-009	98248	Soil	13-JAN-2005 12:19	1.0	37.04				3:FE=277500	
056	tr260456	SAMPLE	177105-010	98248	Soil	13-JAN-2005 12:23	1.0	31.85				5:FE=349300	
057	tr260457	SAMPLE	177105-011	98248	Soil	13-JAN-2005 12:27	1.0	38.17				3:FE=236700	
058	tr260458	SAMPLE	177105-012	98248	Soil	13-JAN-2005 12:31	1.0	33.56				4:FE=629000	
059	tr260459	SAMPLE	177105-013	98248	Soil	13-JAN-2005 12:35	1.0	36.50				3:FE=586000	
060	tr260460	SAMPLE	177105-014	98248	Soil	13-JAN-2005 12:39	1.0	49.50				3:CA=353500	
061	tr260461	SAMPLE	177105-015	98248	Soil	13-JAN-2005 12:43	1.0	34.48				4:FE=470500	
062	tr260462	SAMPLE	177105-016	98248	Soil	13-JAN-2005 12:47	1.0	36.50				4:FE=534700	

Stds used: 1=04WS2257 2=04WS2356 3=04WS2346 4=04WS2355 5=04WS2189 6=04WS2357 7=04WS2419

Analyst: K Carlyn Date: 1/13/05
Page 2 of 3

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 13-JAN-2005

Sequence: 75019172 Instrument: MET07
Analytical Method: EPA 6010B

TJA Trace ICP
SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
063	tr260463	CCV				13-JAN-2005 12:52	1.0	1.0	2			6	
064	tr260464	CCB				13-JAN-2005 12:56	1.0	1.0					
065	tr260465	SAMPLE	177105-017	98248	Soil	13-JAN-2005 13:00	1.0	43.10				4:FE=408700	
066	tr260466	SAMPLE	177105-018	98248	Soil	13-JAN-2005 13:04	1.0	28.41				5:FE=589800	
067	tr260467	SAMPLE	177105-019	98248	Soil	13-JAN-2005 13:08	1.0	32.26				5:FE=595400	
068	tr260469	SAMPLE	177105-020	98248	Soil	13-JAN-2005 13:20	1.0	47.17				3:FE=298700	
069	tr260470	BLANK	QC279235	98253	Soil	13-JAN-2005 13:26	1.0	50.0	1				
070	tr260471	BS	QC279236	98253	Soil	13-JAN-2005 13:30	1.0	50.0	3				
071	tr260472	BSD	QC279237	98253	Soil	13-JAN-2005 13:34	1.0	50.0	3				
072	tr260473	MSS	177105-021	98253	Soil	13-JAN-2005 13:40	1.0	43.48	5			4:FE=418900	
073	tr260474	MS	QC279238	98253	Soil	13-JAN-2005 13:44	1.0	47.62		1		4:FE=390200	
074	tr260475	MSD	QC279239	98253	Soil	13-JAN-2005 13:48	1.0	42.74				4:FE=417100	
075	tr260476	CCV				13-JAN-2005 13:55	1.0	1.0				7	
076	tr260478	CCB				13-JAN-2005 14:17	1.0	1.0					
077	tr260479	SAMPLE	177105-022	98253	Soil	13-JAN-2005 14:23	1.0	40.0				4:FE=332100	
078	tr260480	SAMPLE	177105-023	98253	Soil	13-JAN-2005 14:27	1.0	41.32				3:FE=520400	
079	tr260481	SAMPLE	177105-024	98253	Soil	13-JAN-2005 14:31	1.0	43.10				3:FE=287400	
080	tr260482	SAMPLE	176984-038	98253	Soil	13-JAN-2005 14:36	1.0	45.05				4:FE=368600	
081	tr260483	SAMPLE	176984-039	98253	Soil	13-JAN-2005 14:40	1.0	44.64				2:FE=270100	
082	tr260484	ICSAB				13-JAN-2005 14:45	1.0	1.0				5	5:AL=489200
083	tr260485	CCV				13-JAN-2005 14:57	1.0	1.0				6	
084	tr260486	CCB				13-JAN-2005 15:03	1.0						

Stds used: 1=04WS2257 2=04WS2356 3=04WS2346 4=04WS2355 5=04WS2189 6=04WS2357 7=04WS2419

Analyst: K Carlson Date: 1/13/05
Page 3 of 3

Method: 6010B Standard: blank
 Run Time: 01/13/05 07:21:00

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	-.005	.004	.001	.005	-.318	.006	.001
SDev	.003	.001	.001	.002	.005	.001	.000
%RSD	55.3	17.9	81.9	28.1	1.43	15.6	43.1
#1	-.007	.005	.001	.006	-.315	.006	.001
#2	-.003	.004	.000	.004	-.322	.005	.000
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.000	.010	.010	-.004	.002	.002	-.002
SDev	.000	.000	.001	.003	.000	.000	.001
%RSD	101.	2.08	13.3	68.5	10.5	13.6	51.3
#1	-.000	.010	.010	-.006	.002	.002	-.002
#2	-.000	.010	.009	-.002	.002	.002	-.003
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	-.002	.000	-.002	.001	.026	.0465	.0017
SDev	.001	.001	.001	.000	.000	.0011	.0002
%RSD	54.7	565.	30.2	9.71	1.32	2.342	14.25
#1	-.001	.001	-.002	.001	.025	.0457	.0015
#2	-.003	-.001	-.001	.001	.026	.0473	.0018
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0021	-.0004	-.000	.251			
SDev	.0009	.0006	.001	.003			
%RSD	44.47	165.0	345.	1.22			
#1	-.0028	-.0008	-.001	.249			
#2	-.0015	.0001	.001	.253			

Method: 6010B Standard: cst hi
Run Time: 01/13/05 07:24:38

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.883	.535	.190	18.8	3.15	.981	.239
SDev	.032	.005	.002	.0	.02	.002	.001
%RSD	3.66	.957	1.13	.086	.543	.209	.299
#1	.860	.531	.188	18.7	3.14	.982	.239
#2	.906	.539	.191	18.8	3.16	.980	.240
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.668	.575	.748	.717	1.42	1.69	.204
SDev	.004	.002	.006	.016	.05	.00	.000
%RSD	.588	.330	.865	2.24	3.46	.220	.014
#1	.665	.574	.743	.705	1.39	1.69	.204
#2	.671	.576	.753	.728	1.46	1.69	.204
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.226	.337	.123	.958	.159	.1745	.3674
SDev	.006	.001	.001	.005	.001	.0004	.0017
%RSD	2.52	.406	.931	.505	.422	.2097	.4607
#1	.222	.336	.122	.954	.158	.1742	.3662
#2	.230	.338	.124	.961	.159	.1748	.3686
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.1215	.1812	1.14	7.90			
SDev	.0010	.0009	.01	.05			
%RSD	.7975	.4831	.437	.615			
#1	.1208	.1806	1.14	7.87			
#2	.1222	.1819	1.14	7.94			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	1120.08	5.55097	01/13/05 07:24:38
Sb206A	206.832	Multiple	Standards	1847.29	-7.80249	01/13/05 07:24:38
As1890	189.042	Multiple	Standards	2644.30	-1.53230	01/13/05 07:24:38
Ba4934	493.409	Multiple	Standards	53.3271	-.282164	01/13/05 07:24:38
Be3130	313.042	Multiple	Standards	27.8348	8.86529	01/13/05 07:24:38
Cd2265	226.502	Multiple	Standards	102.506	-.597076	01/13/05 07:24:38
Cr2677	267.716	Multiple	Standards	839.791	-.589061	01/13/05 07:24:38
Co2286	228.616	Multiple	Standards	750.121	.080055	01/13/05 07:24:38
Cu3247	324.754	Multiple	Standards	354.263	-3.65563	01/13/05 07:24:38
Pb2203	220.351	Multiple	Standards	677.922	-6.50198	01/13/05 07:24:38
Pb220A	220.352	Multiple	Standards	687.715	2.68468	01/13/05 07:24:38
Mo2020	202.030	Multiple	Standards	703.709	-1.29835	01/13/05 07:24:38
Ni2316	231.604	Multiple	Standards	296.203	-.609732	01/13/05 07:24:38
Se1960	196.021	Multiple	Standards	2421.05	5.79542	01/13/05 07:24:38
Se196A	196.022	Multiple	Standards	2193.93	4.14787	01/13/05 07:24:38
Ag3280	328.068	Multiple	Standards	297.166	-.063479	01/13/05 07:24:38
Tl1908	190.864	Multiple	Standards	4038.26	7.51240	01/13/05 07:24:38
V_2924	292.402	Multiple	Standards	522.822	-.581957	01/13/05 07:24:38
Zn2138	213.856	Multiple	Standards	774.696	-19.8449	01/13/05 07:24:38
Al3082	308.215	Multiple	Standards	7957.13	-369.932	01/13/05 07:24:38
Ca3179	317.933	Multiple	Standards	5468.53	-9.08863	01/13/05 07:24:38
Fe2714	271.441	Multiple	Standards	8465.93	18.0732	01/13/05 07:24:38
Mg2790	279.079	Multiple	Standards	11007.7	4.02905	01/13/05 07:24:38
Mn2576	257.610	Multiple	Standards	87.7843	.033477	01/13/05 07:24:38
Pb sum	220.353	NONE	NONE	1.00000	.000000	*01/13/05 07:24:38
Sb sum	206.838	NONE	NONE	1.00000	.000000	*01/13/05 07:24:38
Se sum	196.026	NONE	NONE	1.00000	.000000	*01/13/05 07:24:38
Ti3349	334.941	Multiple	Standards	130.681	-32.8083	01/13/05 07:24:38

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75019172001

Run Name :
Filename : tr260401

Injected : 13-JAN-2005 07:32
Caltype :

Standards: 04WS2257

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	1000.000	996.7000	ug/L	0		5	
Antimony	1000.000	986.0000	ug/L	-1		5	
Arsenic	500.0000	503.0000	ug/L	1		5	
Barium	1000.000	1000.000	ug/L	0		5	
Beryllium	100.0000	99.20000	ug/L	-1		5	
Cadmium	100.0000	99.30000	ug/L	-1		5	
Calcium	2000.000	1975.000	ug/L	-1		5	
Chromium	200.0000	198.0000	ug/L	-1		5	
Cobalt	500.0000	496.0000	ug/L	-1		5	
Copper	200.0000	199.0000	ug/L	-1		5	
Iron	1000.000	991.1000	ug/L	-1		5	
Lead	500.0000	490.0000	ug/L	-2		5	
Magnesium	2000.000	1982.000	ug/L	-1		5	
Manganese	100.0000	99.10000	ug/L	-1		5	
Molybdenum	1000.000	983.0000	ug/L	-2		5	
Nickel	500.0000	496.0000	ug/L	-1		5	
Selenium	500.0000	492.0000	ug/L	-2		5	
Silver	100.0000	99.50000	ug/L	-1		5	
Thallium	500.0000	495.0000	ug/L	-1		5	
Titanium	1000.000	993.0000	ug/L	-1		5	
Vanadium	500.0000	496.0000	ug/L	-1		5	
Zinc	100.0000	99.30000	ug/L	-1		5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75019172002

Run Name :
Filename : tr260402

Injected : 13-JAN-2005 07:40
Caltpe :

Standards: 04WS2356

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Aluminum	500.0000	490.0000	ug/L	-2	10	
Antimony	500.0000	508.0000	ug/L	2	10	
Arsenic	250.0000	253.0000	ug/L	1	10	
Barium	500.0000	497.0000	ug/L	-1	10	
Beryllium	50.00000	50.60000	ug/L	1	10	
Cadmium	50.00000	51.00000	ug/L	2	10	
Calcium	1000.000	1017.000	ug/L	2	10	
Chromium	100.0000	102.0000	ug/L	2	10	
Cobalt	250.0000	248.0000	ug/L	-1	10	
Copper	100.0000	103.0000	ug/L	3	10	
Iron	500.0000	511.9000	ug/L	2	10	
Lead	250.0000	257.0000	ug/L	3	10	
Magnesium	1000.000	1023.000	ug/L	2	10	
Manganese	50.00000	49.60000	ug/L	-1	10	
Molybdenum	500.0000	523.0000	ug/L	5	10	
Nickel	250.0000	254.0000	ug/L	2	10	
Selenium	250.0000	259.0000	ug/L	4	10	
Silver	50.00000	50.50000	ug/L	1	10	
Thallium	250.0000	245.0000	ug/L	-2	10	
Titanium	500.0000	495.0000	ug/L	-1	10	
Vanadium	250.0000	251.0000	ug/L	0	10	
Zinc	50.00000	51.10000	ug/L	2	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75019172003
Filename: tr260403

TJA Trace ICP
Run Name:
Run Type: ICB

Injected: 13-JAN-2005 07:44

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	ND		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	ND		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	ND		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	[13.040]		100.0000	ug/L	<	RL
Lead	[2.2800]		3.000000	ug/L	<	RL
Magnesium	ND		500.0000	ug/L	<	RL
Manganese	ND		10.00000	ug/L	<	RL
Molybdenum	[7.8400]		20.00000	ug/L	<	RL
Nickel	ND		20.00000	ug/L	<	RL
Selenium	[4.9100]		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	[4.5700]		5.000000	ug/L	<	RL
Titanium	[3.2200]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75019172004

```
Run Name :
Filename : tr260404
```

Injected : 13-JAN-2005 07:47
Caltype :

Standards: 04WS2346

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D Flags
Aluminum	100.0000	100.2000	ug/L	0	50
Antimony	60.00000	58.70000	ug/L	-2	50
Arsenic	5.000000	6.300000	ug/L	26	50
Barium	10.00000	9.560000	ug/L	-4	50
Beryllium	2.000000	2.010000	ug/L	1	50
Cadmium	5.000000	4.840000	ug/L	-3	50
Calcium	200.0000	216.2000	ug/L	8	50
Chromium	10.00000	9.600000	ug/L	-4	50
Cobalt	20.00000	19.20000	ug/L	-4	50
Copper	10.00000	11.20000	ug/L	12	50
Iron	100.0000	117.4000	ug/L	17	50
Lead	3.000000	3.370000	ug/L	12	50
Magnesium	200.0000	208.1000	ug/L	4	50
Manganese	10.00000	9.920000	ug/L	-1	50
Molybdenum	20.00000	23.40000	ug/L	17	50
Nickel	20.00000	19.50000	ug/L	-3	50
Selenium	5.000000	7.360000	ug/L	47	50
Silver	5.000000	4.540000	ug/L	-9	50
Thallium	5.000000	3.730000	ug/L	-25	50
Vanadium	10.00000	9.760000	ug/L	-2	50
Zinc	20.00000	21.20000	ug/L	6	50

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75019172005
Filename: tr260405

TJA Trace ICP
Run Name:
Run Type: ICSA

Injected: 13-JAN-2005 07:55

Analyte	QuantAmt	RL	Units	Req	Flags
Antimony	[0.3300]	60.00000	ug/L	<RL	
Arsenic	[-3.180]	5.000000	ug/L	<RL	
Barium	[-0.144]	10.00000	ug/L	<RL	
Beryllium	[-0.676]	2.000000	ug/L	<RL	
Cadmium	[2.0300]	5.000000	ug/L	<RL	
Chromium	[2.9500]	10.00000	ug/L	<RL	
Cobalt	[0.9630]	10.00000	ug/L	<RL	
Copper	[-1.310]	10.00000	ug/L	<RL	
Lead	[1.6700]	3.000000	ug/L	<RL	
Manganese	[1.9700]	10.00000	ug/L	<RL	
Molybdenum	[-0.930]	20.00000	ug/L	<RL	
Nickel	[1.3700]	20.00000	ug/L	<RL	
Selenium	-6.10000	5.000000	ug/L	<RL	
Silver	[-0.412]	5.000000	ug/L	<RL	
Thallium	[2.2300]	5.000000	ug/L	<RL	
Titanium	22.00000	10.00000	ug/L	<RL	a+ ***
Vanadium	[-3.150]	10.00000	ug/L	<RL	
Zinc	[6.5700]	20.00000	ug/L	<RL	

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	500000	522500	ug/L	105
Calcium	500000	468500.	ug/L	94
Iron	200000	183100	ug/L	92
Magnesium	500000	531900	ug/L	106

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75019172006

Run Name :
Filename : tr260406

Injected : 13-JAN-2005 07:59
Caltpe :

Standards: 04WS2189

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	517100.0	ug/L	3			
Antimony	500.0000	543.0000	ug/L	9	20		
Arsenic	500.0000	526.0000	ug/L	5	20		
Barium	500.0000	492.0000	ug/L	-2	20		
Beryllium	500.0000	505.0000	ug/L	1	20		
Cadmium	1000.000	944.0000	ug/L	-6	20		
Calcium	500000.0	469100.0	ug/L	-6			
Chromium	500.0000	485.0000	ug/L	-3	20		
Cobalt	500.0000	487.0000	ug/L	-3	20		
Copper	500.0000	529.0000	ug/L	6	20		
Iron	200000.0	182900.0	ug/L	-9			
Lead	1000.000	1000.000	ug/L	0	20		
Magnesium	500000.0	526100.0	ug/L	5			
Manganese	500.0000	480.0000	ug/L	-4	20		
Molybdenum	500.0000	512.0000	ug/L	2	20		
Nickel	1000.000	920.0000	ug/L	-8	20		
Selenium	500.0000	540.0000	ug/L	8	20		
Silver	1000.000	963.0000	ug/L	-4	20		
Thallium	500.0000	492.0000	ug/L	-2	20		
Titanium	20000.00	21400.00	ug/L	7			
Vanadium	500.0000	491.0000	ug/L	-2	20		
Zinc	1000.000	1000.000	ug/L	0	20		

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75019172015

Run Name :
Filename : tr260415

IDF : 1.0
Injected : 13-JAN-2005 08:42
Caltype :

Standards: 04WS2357

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	480.3000	ug/L	-4		10	
Antimony		500.0000	504.0000	ug/L	1		10	
Arsenic		250.0000	250.0000	ug/L	0		10	
Barium		500.0000	469.0000	ug/L	-6		10	
Beryllium		50.00000	52.50000	ug/L	5		10	
Cadmium		50.00000	49.80000	ug/L	0		10	
Calcium		1000.000	1118.000	ug/L	12		10	c+ **
Chromium		100.0000	104.0000	ug/L	4		10	
Cobalt		250.0000	255.0000	ug/L	2		10	
Copper		100.0000	106.0000	ug/L	6		10	
Iron		500.0000	580.3000	ug/L	16		10	c+ **
Lead		250.0000	261.0000	ug/L	4		10	
Magnesium		1000.000	1067.000	ug/L	7		10	
Manganese		50.00000	51.60000	ug/L	3		10	
Molybdenum		500.0000	526.0000	ug/L	5		10	
Nickel		250.0000	250.0000	ug/L	0		10	
Selenium		250.0000	254.0000	ug/L	2		10	
Silver		50.00000	51.00000	ug/L	2		10	
Thallium		250.0000	243.0000	ug/L	-3		10	
Titanium		500.0000	504.0000	ug/L	1		10	
Vanadium		250.0000	255.0000	ug/L	2		10	
Zinc		50.00000	52.50000	ug/L	5		10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75019172016
Filename: tr260416

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 13-JAN-2005 08:46

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	ND		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	ND		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[45.640]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	[53.680]		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[22.020]		500.0000	ug/L	<	RL
Manganese	[0.5560]		10.00000	ug/L	<	RL
Molybdenum	[3.0900]		20.00000	ug/L	<	RL
Nickel	ND		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[5.3300]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07 Run Name : IDF : 1.0
Seqnum : 75019172027 Filename : tr260427 Injected : 13-JAN-2005 09:36
Caltpe :
Standards: 04WS2419

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	693.4000	ug/L	-8	10	
Antimony		750.0000	769.0000	ug/L	3	10	
Arsenic		375.0000	368.0000	ug/L	-2	10	
Barium		750.0000	675.0000	ug/L	-10	10	
Beryllium		75.00000	80.10000	ug/L	7	10	
Cadmium		75.00000	72.80000	ug/L	-3	10	
Calcium		1500.000	1681.000	ug/L	12	10	c+ **
Chromium		150.0000	156.0000	ug/L	4	10	
Cobalt		375.0000	385.0000	ug/L	3	10	
Copper		150.0000	157.0000	ug/L	5	10	
Iron		750.0000	814.7000	ug/L	9	10	
Lead		375.0000	394.0000	ug/L	5	10	
Magnesium		1500.000	1606.000	ug/L	7	10	
Manganese		75.00000	77.50000	ug/L	3	10	
Molybdenum		750.0000	786.0000	ug/L	5	10	
Nickel		375.0000	370.0000	ug/L	-1	10	
Selenium		375.0000	391.0000	ug/L	4	10	
Silver		75.00000	77.00000	ug/L	3	10	
Thallium		375.0000	357.0000	ug/L	-5	10	
Titanium		750.0000	762.0000	ug/L	2	10	
Vanadium		375.0000	382.0000	ug/L	2	10	
Zinc		75.00000	78.70000	ug/L	5	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75019172028
Filename: tr260428

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 13-JAN-2005 09:50

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND	100.0000	ug/L	<RL		
Antimony	ND	60.00000	ug/L	<RL		
Arsenic	[2.9400]	5.000000	ug/L	<RL		
Barium	ND	10.00000	ug/L	<RL		
Beryllium	[0.3870]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[35.830]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	[3.4200]	10.00000	ug/L	<RL		
Iron	[24.240]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[13.030]	500.0000	ug/L	<RL		
Manganese	ND	10.00000	ug/L	<RL		
Molybdenum	ND	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[5.0500]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07 Run Name : IDF : 1.0
Seqnum : 75019172039 Filename : tr260439 Injected : 13-JAN-2005 10:52
Caltype :
Standards: 04WS2357

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	491.4000	ug/L	-2	10	
Antimony		500.0000	509.0000	ug/L	2	10	
Arsenic		250.0000	250.0000	ug/L	0	10	
Barium		500.0000	494.0000	ug/L	-1	10	
Beryllium		50.00000	51.00000	ug/L	2	10	
Cadmium		50.00000	50.80000	ug/L	2	10	
Calcium		1000.000	1023.000	ug/L	2	10	
Chromium		100.0000	102.0000	ug/L	2	10	
Cobalt		250.0000	251.0000	ug/L	0	10	
Copper		100.0000	104.0000	ug/L	4	10	
Iron		500.0000	509.8000	ug/L	2	10	
Lead		250.0000	256.0000	ug/L	2	10	
Magnesium		1000.000	1030.000	ug/L	3	10	
Manganese		50.00000	49.70000	ug/L	-1	10	
Molybdenum		500.0000	500.0000	ug/L	0	10	
Nickel		250.0000	253.0000	ug/L	1	10	
Selenium		250.0000	254.0000	ug/L	2	10	
Silver		50.00000	50.90000	ug/L	2	10	
Thallium		250.0000	253.0000	ug/L	1	10	
Titanium		500.0000	496.0000	ug/L	-1	10	
Vanadium		250.0000	251.0000	ug/L	0	10	
Zinc		50.00000	52.40000	ug/L	5	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75019172040
Filename: tr260440

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 13-JAN-2005 11:08

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND	100.0000		ug/L	<RL	
Antimony	ND	60.00000		ug/L	<RL	
Arsenic	[3.7500]	5.000000		ug/L	<RL	
Barium	ND	10.00000		ug/L	<RL	
Beryllium	[0.5040]	2.000000		ug/L	<RL	
Cadmium	ND	5.000000		ug/L	<RL	
Calcium	[33.460]	500.0000		ug/L	<RL	
Chromium	ND	10.00000		ug/L	<RL	
Cobalt	ND	10.00000		ug/L	<RL	
Copper	ND	10.00000		ug/L	<RL	
Iron	[20.780]	100.0000		ug/L	<RL	
Lead	ND	3.000000		ug/L	<RL	
Magnesium	[13.680]	500.0000		ug/L	<RL	
Manganese	ND	10.00000		ug/L	<RL	
Molybdenum	ND	20.00000		ug/L	<RL	
Nickel	ND	20.00000		ug/L	<RL	
Selenium	ND	5.000000		ug/L	<RL	
Silver	ND	5.000000		ug/L	<RL	
Thallium	ND	5.000000		ug/L	<RL	
Titanium	[5.2900]	10.00000		ug/L	<RL	
Vanadium	ND	10.00000		ug/L	<RL	
Zinc	ND	20.00000		ug/L	<RL	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75019172051

Run Name :
Filename : tr260451

IDF : 1.0
Injected : 13-JAN-2005 11:59
Caltype :

Standards: 04WS2419

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	789.1000	ug/L	5	10	
Antimony		750.0000	781.0000	ug/L	4	10	
Arsenic		375.0000	383.0000	ug/L	2	10	
Barium		750.0000	737.0000	ug/L	-2	10	
Beryllium		75.00000	76.50000	ug/L	2	10	
Cadmium		75.00000	77.00000	ug/L	3	10	
Calcium		1500.000	1502.000	ug/L	0	10	
Chromium		150.0000	154.0000	ug/L	3	10	
Cobalt		375.0000	376.0000	ug/L	0	10	
Copper		150.0000	152.0000	ug/L	1	10	
Iron		750.0000	811.3000	ug/L	8	10	
Lead		375.0000	393.0000	ug/L	5	10	
Magnesium		1500.000	1563.000	ug/L	4	10	
Manganese		75.00000	74.90000	ug/L	0	10	
Molybdenum		750.0000	759.0000	ug/L	1	10	
Nickel		375.0000	384.0000	ug/L	2	10	
Selenium		375.0000	401.0000	ug/L	7	10	
Silver		75.00000	76.40000	ug/L	2	10	
Thallium		375.0000	386.0000	ug/L	3	10	
Titanium		750.0000	753.0000	ug/L	0	10	
Vanadium		375.0000	373.0000	ug/L	-1	10	
Zinc		75.00000	78.00000	ug/L	4	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75019172052
Filename: tr260452

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 13-JAN-2005 12:03

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	ND		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	ND		10.00000	ug/L	<	RL
Beryllium	ND		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	[37.660]		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	[51.000]		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[22.460]		500.0000	ug/L	<	RL
Manganese	[0.6350]		10.00000	ug/L	<	RL
Molybdenum	[9.0000]		20.00000	ug/L	<	RL
Nickel	ND		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	ND		5.000000	ug/L	<	RL
Titanium	[6.4800]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75019172063

Run Name :
Filename : tr260463

IDF : 1.0
Injected : 13-JAN-2005 12:52
Caltype :

Standards: 04WS2357

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	569.5000	ug/L	14	10		c+ **
Antimony		500.0000	514.0000	ug/L	3	10		
Arsenic		250.0000	254.0000	ug/L	2	10		
Barium		500.0000	504.0000	ug/L	1	10		
Beryllium		50.00000	50.60000	ug/L	1	10		
Cadmium		50.00000	52.70000	ug/L	5	10		
Calcium		1000.000	1003.000	ug/L	0	10		
Chromium		100.0000	104.0000	ug/L	4	10		
Cobalt		250.0000	252.0000	ug/L	1	10		
Copper		100.0000	101.0000	ug/L	1	10		
Iron		500.0000	578.1000	ug/L	16	10		c+ **
Lead		250.0000	264.0000	ug/L	6	10		
Magnesium		1000.000	1054.000	ug/L	5	10		
Manganese		50.00000	49.90000	ug/L	0	10		
Molybdenum		500.0000	503.0000	ug/L	1	10		
Nickel		250.0000	260.0000	ug/L	4	10		
Selenium		250.0000	261.0000	ug/L	4	10		
Silver		50.00000	50.10000	ug/L	0	10		
Thallium		250.0000	259.0000	ug/L	4	10		
Titanium		500.0000	495.0000	ug/L	-1	10		
Vanadium		250.0000	249.0000	ug/L	0	10		
Zinc		50.00000	53.10000	ug/L	6	10		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75019172064
Filename: tr260464

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 13-JAN-2005 12:56

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	[85.500]	100.0000	ug/L	<RL		
Antimony	ND	60.00000	ug/L	<RL		
Arsenic	ND	5.000000	ug/L	<RL		
Barium	ND	10.00000	ug/L	<RL		
Beryllium	[0.3460]	2.000000	ug/L	<RL		
Cadmium	ND	5.000000	ug/L	<RL		
Calcium	[39.200]	500.0000	ug/L	<RL		
Chromium	ND	10.00000	ug/L	<RL		
Cobalt	ND	10.00000	ug/L	<RL		
Copper	ND	10.00000	ug/L	<RL		
Iron	[68.250]	100.0000	ug/L	<RL		
Lead	ND	3.000000	ug/L	<RL		
Magnesium	[29.740]	500.0000	ug/L	<RL		
Manganese	[0.9920]	10.00000	ug/L	<RL		
Molybdenum	[4.3200]	20.00000	ug/L	<RL		
Nickel	ND	20.00000	ug/L	<RL		
Selenium	ND	5.000000	ug/L	<RL		
Silver	ND	5.000000	ug/L	<RL		
Thallium	ND	5.000000	ug/L	<RL		
Titanium	[6.4100]	10.00000	ug/L	<RL		
Vanadium	ND	10.00000	ug/L	<RL		
Zinc	ND	20.00000	ug/L	<RL		

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75019172075

Run Name :
Filename : tr260476

IDF : 1.0
Injected : 13-JAN-2005 13:55
Caltpe :

Standards: 04WS2419

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	770.5000	ug/L	3	10		
Antimony		750.0000	753.0000	ug/L	0	10		
Arsenic		375.0000	378.0000	ug/L	1	10		
Barium		750.0000	740.0000	ug/L	-1	10		
Beryllium		75.00000	75.50000	ug/L	1	10		
Cadmium		75.00000	76.00000	ug/L	1	10		
Calcium		1500.000	1502.000	ug/L	0	10		
Chromium		150.0000	150.0000	ug/L	0	10		
Cobalt		375.0000	367.0000	ug/L	-2	10		
Copper		150.0000	151.0000	ug/L	1	10		
Iron		750.0000	771.5000	ug/L	3	10		
Lead		375.0000	368.0000	ug/L	-2	10		
Magnesium		1500.000	1523.000	ug/L	2	10		
Manganese		75.00000	74.10000	ug/L	-1	10		
Molybdenum		750.0000	689.0000	ug/L	-8	10		
Nickel		375.0000	377.0000	ug/L	1	10		
Selenium		375.0000	372.0000	ug/L	-1	10		
Silver		75.00000	75.10000	ug/L	0	10		
Thallium		375.0000	357.0000	ug/L	-5	10		
Titanium		750.0000	741.0000	ug/L	-1	10		
Vanadium		375.0000	368.0000	ug/L	-2	10		
Zinc		75.00000	76.10000	ug/L	1	10		

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75019172076
Filename: tr260478

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 13-JAN-2005 14:17

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<RL	
Antimony	ND		60.00000	ug/L	<RL	
Arsenic	ND		5.000000	ug/L	<RL	
Barium	ND		10.00000	ug/L	<RL	
Beryllium	[0.4220]		2.000000	ug/L	<RL	
Cadmium	ND		5.000000	ug/L	<RL	
Calcium	ND		500.0000	ug/L	<RL	
Chromium	ND		10.00000	ug/L	<RL	
Cobalt	ND		10.00000	ug/L	<RL	
Copper	ND		10.00000	ug/L	<RL	
Iron	[21.790]		100.0000	ug/L	<RL	
Lead	ND		3.000000	ug/L	<RL	
Magnesium	[13.700]		500.0000	ug/L	<RL	
Manganese	ND		10.00000	ug/L	<RL	
Molybdenum	ND		20.00000	ug/L	<RL	
Nickel	ND		20.00000	ug/L	<RL	
Selenium	ND		5.000000	ug/L	<RL	
Silver	ND		5.000000	ug/L	<RL	
Thallium	ND		5.000000	ug/L	<RL	
Titanium	[3.9200]		10.00000	ug/L	<RL	
Vanadium	ND		10.00000	ug/L	<RL	
Zinc	ND		20.00000	ug/L	<RL	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75019172082

Run Name :
Filename : tr260484

Injected : 13-JAN-2005 14:45
Caltype :

Standards: 04WS2189

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	489200.0	ug/L	-2			
Antimony	500.0000	516.0000	ug/L	3	20		
Arsenic	500.0000	521.0000	ug/L	4	20		
Barium	500.0000	491.0000	ug/L	-2	20		
Beryllium	500.0000	468.0000	ug/L	-6	20		
Cadmium	1000.000	922.0000	ug/L	-8	20		
Calcium	500000.0	420700.0	ug/L	-16			
Chromium	500.0000	459.0000	ug/L	-8	20		
Cobalt	500.0000	454.0000	ug/L	-9	20		
Copper	500.0000	493.0000	ug/L	-1	20		
Iron	200000.0	166300.0	ug/L	-17			
Lead	1000.000	915.0000	ug/L	-9	20		
Magnesium	500000.0	489200.0	ug/L	-2			
Manganese	500.0000	443.0000	ug/L	-11	20		
Molybdenum	500.0000	457.0000	ug/L	-9	20		
Nickel	1000.000	890.0000	ug/L	-11	20		
Selenium	500.0000	494.0000	ug/L	-1	20		
Silver	1000.000	910.0000	ug/L	-9	20		
Thallium	500.0000	470.0000	ug/L	-6	20		
Titanium	20000.00	20200.00	ug/L	1			
Vanadium	500.0000	463.0000	ug/L	-7	20		
Zinc	1000.000	941.0000	ug/L	-6	20		

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75019172083

Run Name :
Filename : tr260485

IDF : 1.0
Injected : 13-JAN-2005 14:57
Caltype :

Standards: 04WS2357

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	488.0000	ug/L	-2	10	
Antimony		500.0000	491.0000	ug/L	-2	10	
Arsenic		250.0000	249.0000	ug/L	0	10	
Barium		500.0000	495.0000	ug/L	-1	10	
Beryllium		50.00000	48.60000	ug/L	-3	10	
Cadmium		50.00000	50.20000	ug/L	0	10	
Calcium		1000.000	944.3000	ug/L	-6	10	
Chromium		100.0000	98.20000	ug/L	-2	10	
Cobalt		250.0000	239.0000	ug/L	-4	10	
Copper		100.0000	97.20000	ug/L	-3	10	
Iron		500.0000	488.2000	ug/L	-2	10	
Lead		250.0000	244.0000	ug/L	-2	10	
Magnesium		1000.000	994.9000	ug/L	-1	10	
Manganese		50.00000	46.90000	ug/L	-6	10	
Molybdenum		500.0000	464.0000	ug/L	-7	10	
Nickel		250.0000	249.0000	ug/L	0	10	
Selenium		250.0000	243.0000	ug/L	-3	10	
Silver		50.00000	48.50000	ug/L	-3	10	
Thallium		250.0000	237.0000	ug/L	-5	10	
Titanium		500.0000	476.0000	ug/L	-5	10	
Vanadium		250.0000	239.0000	ug/L	-4	10	
Zinc		50.00000	50.40000	ug/L	1	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75019172084
Filename: tr260486

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 13-JAN-2005 15:03

Analyte	Quant	Amt	RL	Units	Req	Flags
Aluminum	ND		100.0000	ug/L	<	RL
Antimony	ND		60.00000	ug/L	<	RL
Arsenic	ND		5.000000	ug/L	<	RL
Barium	ND		10.00000	ug/L	<	RL
Beryllium	[0.6040]		2.000000	ug/L	<	RL
Cadmium	ND		5.000000	ug/L	<	RL
Calcium	ND		500.0000	ug/L	<	RL
Chromium	ND		10.00000	ug/L	<	RL
Cobalt	ND		10.00000	ug/L	<	RL
Copper	ND		10.00000	ug/L	<	RL
Iron	[44.320]		100.0000	ug/L	<	RL
Lead	ND		3.000000	ug/L	<	RL
Magnesium	[25.840]		500.0000	ug/L	<	RL
Manganese	[0.4990]		10.00000	ug/L	<	RL
Molybdenum	[2.8800]		20.00000	ug/L	<	RL
Nickel	ND		20.00000	ug/L	<	RL
Selenium	ND		5.000000	ug/L	<	RL
Silver	ND		5.000000	ug/L	<	RL
Thallium	[3.5000]		5.000000	ug/L	<	RL
Titanium	[6.0800]		10.00000	ug/L	<	RL
Vanadium	ND		10.00000	ug/L	<	RL
Zinc	ND		20.00000	ug/L	<	RL

Table Name: 011305 Autosampler Type: TYPE TJA
 Sample Positions: 241/300 QC Positions: 19/19 # Sets: 3
 Rinse Station location is rack -1, pos. -1.

--- Racks ---

Rack #	Type	Usage	#Pos Left	Analyses/Pos
1	Aux. (L) Rack	STD/QC/BLANK	19	10
2	Sample (13mm)	Samples	16	1
3	Sample (13mm)	Samples	75	1
4	Sample (13mm)	Samples	75	1
5	Sample (13mm)	Samples	75	1

--- Sample Sets ---

Set#	Type	Prepare?	Description	Method	#Pos	Rack#	StartPos
1	Normal	No		6010B	23	2	1
2	Normal	No		6010B	25	2	24
3	Normal	No		6010B	11	2	49

--- Preparation Info ---

Set#	Uptake	Uptake#2	Final	Dil.Factor
No Samples Prepared.				

Rack #1

Pos	Row	Col	Sample Name	Set #	#Used	Type
(1...19 Not Used)						

Rack #2

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	qc279208	1	-NA-	Sample
2	1	2	qc279209	1	-NA-	Sample
3	1	3	qc279210	1	-NA-	Sample
4	1	4	177110-007	1	-NA-	Sample
5	1	5	qc279211	1	-NA-	Sample
6	1	6	qc279212	1	-NA-	Sample
7	1	7	177068-021	1	-NA-	Sample
8	1	8	177068-022	1	-NA-	Sample
9	1	9	177068-023	1	-NA-	Sample
10	1	10	177068-024	1	-NA-	Sample
11	1	11	177068-025	1	-NA-	Sample
12	1	12	177068-026	1	-NA-	Sample
13	1	13	177068-027	1	-NA-	Sample
14	1	14	177088-001	1	-NA-	Sample
15	1	15	177088-002	1	-NA-	Sample
16	2	1	177092-001	1	-NA-	Sample
17	2	2	177110-001	1	-NA-	Sample
18	2	3	177110-002	1	-NA-	Sample
19	2	4	177110-003	1	-NA-	Sample

Rack #2

Pos	Row	Col	Sample Name	Set #	#Used	Type
20	2	5	177110-004	1	-NA-	Sample
21	2	6	177110-005	1	-NA-	Sample
22	2	7	177110-006	1	-NA-	Sample
23	2	8	177110-008	1	-NA-	Sample
24	2	9	qc279213	2	-NA-	Sample
25	2	10	qc279214	2	-NA-	Sample
26	2	11	qc279215	2	-NA-	Sample
27	2	12	177105-001	2	-NA-	Sample
28	2	13	qc279216	2	-NA-	Sample
29	2	14	qc279217	2	-NA-	Sample
30	2	15	177105-002	2	-NA-	Sample
31	3	1	177105-003	2	-NA-	Sample
32	3	2	177105-004	2	-NA-	Sample
33	3	3	177105-005	2	-NA-	Sample
34	3	4	177105-006	2	-NA-	Sample
35	3	5	177105-007	2	-NA-	Sample
36	3	6	177105-008	2	-NA-	Sample
37	3	7	177105-009	2	-NA-	Sample
38	3	8	177105-010	2	-NA-	Sample
39	3	9	177105-011	2	-NA-	Sample
40	3	10	177105-012	2	-NA-	Sample
41	3	11	177105-013	2	-NA-	Sample
42	3	12	177105-014	2	-NA-	Sample
43	3	13	177105-015	2	-NA-	Sample
44	3	14	177105-016	2	-NA-	Sample
45	3	15	177105-017	2	-NA-	Sample
46	4	1	177105-018	2	-NA-	Sample
47	4	2	177105-019	2	-NA-	Sample
48	4	3	177105-020	2	-NA-	Sample
49	4	4	qc279235	3	-NA-	Sample
50	4	5	qc279236	3	-NA-	Sample
51	4	6	qc279237	3	-NA-	Sample
52	4	7	177105-021	3	-NA-	Sample
53	4	8	qc279238	3	-NA-	Sample
54	4	9	qc279239	3	-NA-	Sample
55	4	10	177105-022	3	-NA-	Sample
56	4	11	177105-023	3	-NA-	Sample
57	4	12	177105-024	3	-NA-	Sample
58	4	13	176984-038	3	-NA-	Sample
59	4	14	176984-039	3	-NA-	Sample
(60...75			Not Used)			

Rack #3

Pos	Row	Col	Sample Name	Set #	#Used	Type
(1...75			Not Used)			

Rack #4

Pos	Row	Col	Sample Name	Set #	#Used	Type
---	---	---	-----	-----	-----	-----
(1...	75		Not Used)			

Rack #5

Pos	Row	Col	Sample Name	Set #	#Used	Type
---	---	---	-----	-----	-----	-----
(1...	75		Not Used)			

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 75068116 Instrument: MET07
Analytical Method: EPA 6010B

TJA Trace ICP
SOP Version: 6010B_rv7

Begun: 16-FEB-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
001	tr262502	CS				16-FEB-2005 07:16	1.0	1.0				1	
002	tr262503	ICV				16-FEB-2005 07:20	1.0	1.0				2	
003	tr262504	ICB				16-FEB-2005 07:24	1.0	1.0					
004	tr262505	CRI				16-FEB-2005 07:28	1.0	1.0				3	
005	tr262506	ICSA				16-FEB-2005 07:50	1.0	1.0	2			4	4:MG=576100
006	tr262507	X	200 ppm Fe			16-FEB-2005 07:58	1.0						
007	tr262508	ICSA				16-FEB-2005 08:09	1.0	1.0	1			4	4:MG=568700
008	tr262509	ICSAB				16-FEB-2005 08:13	1.0	1.0				5	5:MG=564400
009	tr262510	BLANK	QC282765	99199	Soil	16-FEB-2005 08:17	1.0	50.0	1				
010	tr262511	BLANK	QC282765	99199	Soil	16-FEB-2005 08:24	1.0	50.0	1				
011	tr262512	X		99199	Soil	16-FEB-2005 08:28	1.0	50.0				spk	
012	tr262513	BS	QC282766	99199	Soil	16-FEB-2005 08:34	1.0	50.0	1				
013	tr262514	BSD	QC282767	99199	Soil	16-FEB-2005 08:38	1.0	50.0	1				
014	tr262515	MSS	176984-006	99199	Soil	16-FEB-2005 08:43	1.0	32.26	6				4:FE=346100
015	tr262516	CCV				16-FEB-2005 08:48	1.0	1.0				6	
016	tr262517	CCB				16-FEB-2005 08:59	1.0	1.0					
017	tr262518	MS	QC282768	99199	Soil	16-FEB-2005 09:03	1.0	35.46					3:FE=345700
018	tr262519	MSD	QC282769	99199	Soil	16-FEB-2005 09:07	1.0	50.51					3:FE=314200
019	tr262520	SAMPLE	176984-022	99199	Soil	16-FEB-2005 09:11	1.0	40.65					2:FE=378800
020	tr262521	SAMPLE	177490-016	99199	Miscel	16-FEB-2005 09:15	1.0	14.45					
021	tr262522	SAMPLE	177684-001	99199	Miscel	16-FEB-2005 09:19	1.0	34.25	1				1:V=26300.0
022	tr262523	SAMPLE	177684-002	99199	Miscel	16-FEB-2005 09:23	1.0	50.51					
023	tr262524	SAMPLE	177684-003	99199	Miscel	16-FEB-2005 09:27	1.0	38.46					
024	tr262525	SAMPLE	177684-004	99199	Miscel	16-FEB-2005 09:31	1.0	43.48					
025	tr262526	SAMPLE	177684-001	99199	Miscel	16-FEB-2005 09:35	2.0	34.25					
026	tr262527	SAMPLE	177690-004	99199	Soil	16-FEB-2005 09:39	1.0	35.97					2:FE=319600
027	tr262528	CCV				16-FEB-2005 09:45	1.0	1.0				7	
028	tr262529	CCB				16-FEB-2005 09:50	1.0	1.0					
029	tr262530	SAMPLE	177690-006	99199	Soil	16-FEB-2005 09:54	1.0	47.17					2:FE=257600
030	tr262531	SAMPLE	177690-007	99199	Soil	16-FEB-2005 09:58	1.0	28.74					3:FE=577000

Stds used: 1=05WS0125 2=05WS0014 3=05WS0221 4=04WS2355 5=05WS0126 6=05WS0015 7=04WS2419

Flags used: spk=5% spike rule

Analyst: Kristi Carlson Date: 2/16/05
Page 1 of 4

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 75068116 Instrument: MET07
Analytical Method: EPA 6010B

TJA Trace ICP
SOP Version: 6010B_rv7

Begun: 16-FEB-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
031	tr262532	SAMPLE	177690-009	99199	Soil	16-FEB-2005 10:02	1.0	28.90	1			4:FE=488900	
032	tr262533	SAMPLE	177690-009	99199	Soil	16-FEB-2005 10:08	50.0	28.90				3:FE=606100	
033	tr262534	SAMPLE	177690-010	99199	Soil	16-FEB-2005 10:13	1.0	33.56				2:FE=231000	
034	tr262535	SAMPLE	177690-014	99199	Soil	16-FEB-2005 10:17	1.0	54.35				4:FE=526800	
035	tr262536	SAMPLE	177690-015	99199	Soil	16-FEB-2005 10:30	1.0	37.31				3:FE=542400	
036	tr262537	SAMPLE	177690-017	99199	Soil	16-FEB-2005 10:34	1.0	35.71				4:FE=467600	
037	tr262538	SAMPLE	177690-018	99199	Soil	16-FEB-2005 10:40	1.0	32.05	1			3:FE=242800	
038	tr262539	SAMPLE	177690-018	99199	Soil	16-FEB-2005 10:45	2.0	32.05				6	
039	tr262540	CCV				16-FEB-2005 11:17	1.0	1.0					
040	tr262541	CCB				16-FEB-2005 11:23	1.0	1.0				5:FE=626600	
041	tr262542	SAMPLE	177690-021	99199	Soil	16-FEB-2005 11:28	1.0	38.76	1			4:FE=524700	
042	tr262543	SAMPLE	177690-022	99199	Soil	16-FEB-2005 11:37	1.0	32.47	1				
043	tr262544	SAMPLE	177690-021	99199	Soil	16-FEB-2005 11:42	10.0	38.76					
044	tr262545	SAMPLE	177690-022	99199	Soil	16-FEB-2005 11:46	10.0	32.47					
045	tr262546	BLANK	QC282770	99200	Soil	16-FEB-2005 12:00	1.0	50.0	4				
046	tr262547	BS	QC282771	99200	Soil	16-FEB-2005 12:11	1.0	50.0	4				
047	tr262548	BSD	QC282772	99200	Soil	16-FEB-2005 12:15	1.0	50.0	4			3:FE=457700	
048	tr262549	MSS	177690-045	99200	Soil	16-FEB-2005 12:20	1.0	40.65	7			3:FE=544600	
049	tr262550	MS	QC282773	99200	Soil	16-FEB-2005 12:24	1.0	35.21	3			3:FE=443800	
050	tr262551	MSD	QC282774	99200	Soil	16-FEB-2005 12:28	1.0	42.74	2			7	
051	tr262552	CCV				16-FEB-2005 12:35	1.0	1.0					
052	tr262553	CCB				16-FEB-2005 12:42	1.0	1.0	3			3:FE=510000	
053	tr262554	SAMPLE	177690-036	99200	Soil	16-FEB-2005 12:46	1.0	37.04				4:FE=662000	
054	tr262555	SAMPLE	177690-037	99200	Soil	16-FEB-2005 12:50	1.0	35.46				5:FE=582000	
055	tr262556	SAMPLE	177690-039	99200	Soil	16-FEB-2005 12:54	1.0	30.86				2:FE=477900	
056	tr262557	SAMPLE	177690-041	99200	Soil	16-FEB-2005 12:58	1.0	47.62				2:FE=322200	
057	tr262558	SAMPLE	177690-042	99200	Soil	16-FEB-2005 13:02	1.0	38.76				3:FE=444900	
058	tr262559	SAMPLE	177690-043	99200	Soil	16-FEB-2005 13:06	1.0	41.32				4:FE=447400	
059	tr262560	SAMPLE	177690-044	99200	Soil	16-FEB-2005 13:10	1.0	38.46				4:FE=712600	
060	tr262561	SAMPLE	177690-047	99200	Soil	16-FEB-2005 13:14	1.0	33.11					

Stds used: 1=05WS0125 2=05WS0014 3=05WS0221 4=04WS2355 5=05WS0126 6=05WS0015 7=04WS2419

Flags used: spk=5% spike rule

Analyst: *X Carlson* Date: *2/16/05*
Page 2 of 4

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 75068116 Instrument: MET07
Analytical Method: EPA 6010B

TJA Trace ICP
SOP Version: 6010B_rv7

Begun: 16-FEB-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
061	tr262562	SAMPLE	177690-048	99200	Soil	16-FEB-2005 13:18	1.0	49.02				1:ZN=27300.0	
062	tr262563	SAMPLE	177690-049	99200	Soil	16-FEB-2005 13:22	1.0	42.74				2:FE=255300	
063	tr262564	CCV				16-FEB-2005 13:28	1.0	1.0	1			6	
064	tr262565	CCB				16-FEB-2005 13:32	1.0	1.0					
065	tr262566	SAMPLE	177690-050	99200	Soil	16-FEB-2005 13:41	1.0	48.08				3:FE=601700	
066	tr262567	SAMPLE	177690-051	99200	Soil	16-FEB-2005 13:45	1.0	46.30				3:FE=268700	
067	tr262568	SAMPLE	177690-052	99200	Soil	16-FEB-2005 13:49	1.0	51.55				4:FE=431800	
068	tr262569	CCV				16-FEB-2005 14:32	1.0	1.0				7	
069	tr262570	CCB				16-FEB-2005 14:42	1.0	1.0					
070	tr262571	BLANK	QC282796	99207	Water	16-FEB-2005 15:16	1.0	1.0	1				
071	tr262572	BS	QC282797	99207	Water	16-FEB-2005 15:20	1.0	1.0	1				
072	tr262573	BSD	QC282798	99207	Water	16-FEB-2005 15:25	1.0	1.0	1				
073	tr262574	X	177691-001	99207	Water	16-FEB-2005 15:30	1.0	1.0					
074	tr262575	MS	QC282799	99207	Water	16-FEB-2005 15:35	1.0	1.0					
075	tr262576	X	QC282800	99207	Water	16-FEB-2005 15:39	1.0	1.0					
076	tr262577	X	177692-001	99207	Water	16-FEB-2005 15:45	1.0	1.0	1				
077	tr262578	MSS	177691-001	99207	Water	16-FEB-2005 15:49	1.0	1.0					
078	tr262579	MSD	QC282800	99207	Water	16-FEB-2005 15:54	1.0	1.0					
079	tr262580	SAMPLE	177692-001	99207	Water	16-FEB-2005 16:00	1.0	1.0				6	
080	tr262581	CCV				16-FEB-2005 16:21	1.0	1.0					
081	tr262582	CCB				16-FEB-2005 16:37	1.0	1.0					
082	tr262583	SAMPLE	177693-001	99207	Water	16-FEB-2005 16:47	1.0	1.0					
083	tr262584	SAMPLE	177694-001	99207	Water	16-FEB-2005 16:51	1.0	1.0					
084	tr262585	SAMPLE	177695-001	99207	Water	16-FEB-2005 17:03	1.0	1.0					
085	tr262586	SAMPLE	177696-001	99207	Water	16-FEB-2005 17:07	1.0	1.0					
086	tr262587	SAMPLE	177698-001	99207	Water	16-FEB-2005 17:11	1.0	1.0					
087	tr262588	SAMPLE	177600-004	99207	Water	16-FEB-2005 17:15	1.0	1.0					
088	tr262589	SAMPLE	177600-005	99207	Water	16-FEB-2005 17:20	1.0	1.0					
089	tr262590	SAMPLE	177600-006	99207	Water	16-FEB-2005 17:24	1.0	1.0	1				
090	tr262591	SAMPLE	177600-006	99207	Water	16-FEB-2005 17:36	1.0	1.0					

Stds used: 1=05WS0125 2=05WS0014 3=05WS0221 4=04WS2355 5=05WS0126 6=05WS0015 7=04WS2419

Flags used: spk=5% spike rule

Analyst: K Carlen Date: 2/16/05
Page 3 of 4

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Sequence: 75068116 Instrument: MET07
Analytical Method: EPA 6010B

TJA Trace ICP
SOP Version: 6010B_rv7

Begun: 16-FEB-2005

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
091	tr262592	ICSAB				16-FEB-2005 17:44	1.0	1.0				5	5:MG=515600
092	tr262593	CCV				16-FEB-2005 18:00	1.0	1.0				7	
093	tr262594	CCB				16-FEB-2005 18:13	1.0	1.0					

579

Stds used: 1=05WS0125 2=05WS0014 3=05WS0221 4=04WS2355 5=05WS0126 6=05WS0015 7=04WS2419
Flags used: spk=5% spike rule

Analyst: K Carlyon Date: 2/16/05
Page 4 of 4

Method: 6010B Standard: blank
 Run Time: 02/16/05 07:05:29

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.003	.002	-.001	.003	-.269	.007	.000
SDev	.004	.000	.000	.000	.008	.000	.000
%RSD	135.	16.5	59.8	3.46	2.99	3.17	25.4
#1	.000	.002	-.000	.003	-.263	.007	.000
#2	.006	.002	-.001	.003	-.274	.007	.000
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.001	.005	.009	.008	.012	.001	-.006
SDev	.000	.001	.004	.000	.003	.000	.004
%RSD	44.3	10.3	47.0	4.95	21.4	21.8	67.6
#1	-.001	.005	.006	.008	.014	.001	-.003
#2	-.001	.004	.012	.008	.011	.001	-.008
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.010	-.001	-.002	.000	.045	.0698	-.0017
SDev	.000	.001	.000	.001	.001	.0008	.0002
%RSD	3.01	90.7	3.60	104.	1.39	1.167	12.50
#1	.009	-.000	-.003	.001	.044	.0692	-.0015
#2	.010	-.002	-.002	.000	.045	.0704	-.0018
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0002	.0004	.002	.276			
SDev	.0009	.0001	.000	.003			
%RSD	539.5	30.89	17.7	1.18			
#1	.0005	.0005	.002	.274			
#2	-.0008	.0003	.002	.278			

Method: 6010B Standard: cst hi
 Run Time: 02/16/05 07:08:53

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	1.28	.733	.273	15.6	2.61	1.06	.229
SDev	.01	.018	.002	.0	.00	.01	.001
%RSD	.846	2.41	.811	.100	.094	.616	.534
#1	1.27	.721	.271	15.6	2.61	1.05	.228
#2	1.29	.746	.274	15.6	2.61	1.06	.230
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.699	.487	.816	.830	1.84	1.78	.303
SDev	.002	.005	.024	.003	.03	.01	.015
%RSD	.249	.988	2.94	.358	1.88	.342	4.84
#1	.697	.490	.799	.828	1.82	1.78	.292
#2	.700	.483	.833	.832	1.87	1.79	.313
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.341	.285	.178	.832	.209	.1806	.2823
SDev	.018	.001	.001	.002	.001	.0026	.0000
%RSD	5.28	.256	.773	.197	.436	1.457	.0043
#1	.328	.285	.177	.830	.208	.1825	.2823
#2	.353	.286	.179	.833	.209	.1787	.2823
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.1096	.1668	1.02	6.83			
SDev	.0019	.0014	.00	.02			
%RSD	1.780	.8135	.052	.287			
#1	.1110	.1678	1.02	6.82			
#2	.1082	.1659	1.02	6.85			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Sb2068	206.831	Multiple	Standards	777.550	-2.56317	02/16/05 07:08:53
Sb206A	206.832	Multiple	Standards	1340.89	-2.65296	02/16/05 07:08:53
As1890	189.042	Multiple	Standards	1832.14	.989917	02/16/05 07:08:53
Ba4934	493.409	Multiple	Standards	64.0709	-.189292	02/16/05 07:08:53
Be3130	313.042	Multiple	Standards	33.5598	9.01999	02/16/05 07:08:53
Cd2265	226.502	Multiple	Standards	95.1666	-.640897	02/16/05 07:08:53
Cr2677	267.716	Multiple	Standards	875.568	-.332876	02/16/05 07:08:53
Co2286	228.616	Multiple	Standards	716.350	.716155	02/16/05 07:08:53
Cu3247	324.754	Multiple	Standards	414.909	-1.98114	02/16/05 07:08:53
Pb2203	220.351	Multiple	Standards	619.956	-5.61881	02/16/05 07:08:53
Pb220A	220.352	Multiple	Standards	602.910	-4.76204	02/16/05 07:08:53
Mo2020	202.030	Multiple	Standards	545.931	-6.81987	02/16/05 07:08:53
Ni2316	231.604	Multiple	Standards	280.735	-.318807	02/16/05 07:08:53
Se1960	196.021	Multiple	Standards	1621.02	9.30623	02/16/05 07:08:53
Se196A	196.022	Multiple	Standards	1508.79	-14.4302	02/16/05 07:08:53
Ag3280	328.068	Multiple	Standards	349.636	.395623	02/16/05 07:08:53
Tl1908	190.864	Multiple	Standards	2789.86	6.87592	02/16/05 07:08:53
V_2924	292.402	Multiple	Standards	601.665	-.291976	02/16/05 07:08:53
Zn2138	213.856	Multiple	Standards	629.161	-28.0934	02/16/05 07:08:53
Al3082	308.215	Multiple	Standards	9191.60	-641.411	02/16/05 07:08:53
Ca3179	317.933	Multiple	Standards	7042.43	11.8112	02/16/05 07:08:53
Fe2714	271.441	Multiple	Standards	9536.07	1.58576	02/16/05 07:08:53
Mg2790	279.079	Multiple	Standards	12012.5	-4.92203	02/16/05 07:08:53
Mn2576	257.610	Multiple	Standards	97.8235	-.179045	02/16/05 07:08:53
Pb sum	220.353	NONE	NONE	1.00000	.000000	*02/16/05 07:08:53
Sb sum	206.838	NONE	NONE	1.00000	.000000	*02/16/05 07:08:53
Se sum	196.026	NONE	NONE	1.00000	.000000	*02/16/05 07:08:53
Ti3349	334.941	Multiple	Standards	152.512	-42.0956	02/16/05 07:08:53

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75068116001

Run Name :
Filename : tr262502

Injected : 16-FEB-2005 07:16
Caltpe :

Standards: 05WS0125

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	1000.000	969.0000	ug/L	-3		5	
Antimony	1000.000	984.0000	ug/L	-2		5	
Arsenic	500.0000	503.0000	ug/L	1		5	
Barium	1000.000	988.0000	ug/L	-1		5	
Beryllium	100.0000	101.0000	ug/L	1		5	
Cadmium	100.0000	102.0000	ug/L	2		5	
Calcium	2000.000	2015.000	ug/L	1		5	
Chromium	200.0000	200.0000	ug/L	0		5	
Cobalt	500.0000	502.0000	ug/L	0		5	
Copper	200.0000	197.0000	ug/L	-2		5	
Iron	1000.000	1028.000	ug/L	3		5	
Lead	500.0000	496.0000	ug/L	-1		5	
Magnesium	2000.000	2017.000	ug/L	1		5	
Manganese	100.0000	100.0000	ug/L	0		5	
Molybdenum	1000.000	1000.000	ug/L	0		5	
Nickel	500.0000	504.0000	ug/L	1		5	
Selenium	500.0000	493.0000	ug/L	-1		5	
Silver	100.0000	99.20000	ug/L	-1		5	
Thallium	500.0000	501.0000	ug/L	0		5	
Titanium	1000.000	995.0000	ug/L	-1		5	
Vanadium	500.0000	499.0000	ug/L	0		5	
Zinc	100.0000	100.0000	ug/L	0		5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75068116002

```
Run Name :
Filename : tr262503
```

Injected : 16-FEB-2005 07:20
Caltype :

Standards: 05WS0014

Analyte	SpkAmt	QuantAmt	Units	%D	Max Flags
Aluminum	500.0000	489.4000	ug/L	-2	10
Antimony	500.0000	501.0000	ug/L	0	10
Arsenic	250.0000	260.0000	ug/L	4	10
Barium	500.0000	492.0000	ug/L	-2	10
Beryllium	50.00000	50.40000	ug/L	1	10
Cadmium	50.00000	51.00000	ug/L	2	10
Calcium	1000.000	1032.000	ug/L	3	10
Chromium	100.0000	101.0000	ug/L	1	10
Cobalt	250.0000	247.0000	ug/L	-1	10
Copper	100.0000	103.0000	ug/L	3	10
Iron	500.0000	524.2000	ug/L	5	10
Lead	250.0000	250.0000	ug/L	0	10
Magnesium	1000.000	1024.000	ug/L	2	10
Manganese	50.00000	49.40000	ug/L	-1	10
Molybdenum	500.0000	534.0000	ug/L	7	10
Nickel	250.0000	253.0000	ug/L	1	10
Selenium	250.0000	268.0000	ug/L	7	10
Silver	50.00000	50.50000	ug/L	1	10
Thallium	250.0000	247.0000	ug/L	-1	10
Titanium	500.0000	502.0000	ug/L	0	10
Vanadium	250.0000	249.0000	ug/L	0	10
Zinc	50.00000	53.00000	ug/L	6	10

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75068116003
Filename: tr262504

TJA Trace ICP
Run Name:
Run Type: ICB

Injected: 16-FEB-2005 07:24

Analyte	Quant	Amt	RL	Units	Flags
Aluminum	ND		100.0000	ug/L	
Antimony	[3.9300]		60.00000	ug/L	
Arsenic	ND		5.000000	ug/L	
Barium	ND		10.00000	ug/L	
Beryllium	ND		2.000000	ug/L	
Cadmium	ND		5.000000	ug/L	
Calcium	ND		500.0000	ug/L	
Chromium	ND		10.00000	ug/L	
Cobalt	ND		10.00000	ug/L	
Copper	ND		10.00000	ug/L	
Iron	ND		100.0000	ug/L	
Lead	ND		3.000000	ug/L	
Magnesium	ND		500.0000	ug/L	
Manganese	ND		10.00000	ug/L	
Molybdenum	[5.5200]		20.00000	ug/L	
Nickel	ND		20.00000	ug/L	
Selenium	ND		5.000000	ug/L	
Silver	ND		5.000000	ug/L	
Thallium	ND		5.000000	ug/L	
Titanium	[3.5200]		10.00000	ug/L	
Vanadium	ND		10.00000	ug/L	
Zinc	ND		20.00000	ug/L	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

```
Instid      : MET07
Seqnum      : 75068116004
```

```
Run Name :
Filename : tr262505
```

Injected : 16-FEB-2005 07:28
Caltype :

Standards: 05WS0221

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D Flags
Aluminum	100.0000	100.8000	ug/L	1	50
Antimony	60.00000	58.50000	ug/L	-3	50
Arsenic	5.000000	6.420000	ug/L	28	50
Barium	10.00000	10.10000	ug/L	1	50
Beryllium	2.000000	2.140000	ug/L	7	50
Cadmium	5.000000	5.140000	ug/L	3	50
Calcium	200.0000	217.1000	ug/L	9	50
Chromium	10.00000	10.40000	ug/L	4	50
Cobalt	20.00000	19.90000	ug/L	-1	50
Copper	10.00000	10.80000	ug/L	8	50
Iron	100.0000	99.36000	ug/L	-1	50
Lead	3.000000	3.510000	ug/L	17	50
Magnesium	200.0000	211.8000	ug/L	6	50
Manganese	10.00000	10.00000	ug/L	0	50
Molybdenum	20.00000	21.00000	ug/L	5	50
Nickel	20.00000	20.80000	ug/L	4	50
Selenium	5.000000	3.200000	ug/L	-36	50
Silver	5.000000	5.570000	ug/L	11	50
Thallium	5.000000	3.510000	ug/L	-30	50
Vanadium	10.00000	10.60000	ug/L	6	50
Zinc	20.00000	21.70000	ug/L	9	50

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75068116005
Filename: tr262506

TJA Trace ICP
Run Name:
Run Type: ICSA

Injected: 16-FEB-2005 07:50

Analyte	QuantAmt	RL	Units	Flags
Antimony	[7.0800]	60.00000	ug/L	
Arsenic	[3.3700]	5.000000	ug/L	
Barium	[0.9730]	10.00000	ug/L	
Beryllium	[-0.837]	2.000000	ug/L	
Cadmium	-9.07000	5.000000	ug/L	
Chromium	[3.9300]	10.00000	ug/L	
Cobalt	[1.1900]	10.00000	ug/L	
Copper	[-3.410]	10.00000	ug/L	
Lead	[2.1800]	3.000000	ug/L	
Manganese	[2.2200]	10.00000	ug/L	
Molybdenum	[-3.380]	20.00000	ug/L	
Nickel	[2.8500]	20.00000	ug/L	
Selenium	-12.9000	5.000000	ug/L	a- ***
Silver	[-0.128]	5.000000	ug/L	
Thallium	[4.2800]	5.000000	ug/L	
Titanium	26.20000	10.00000	ug/L	a+ ***
Vanadium	[0.4030]	10.00000	ug/L	
Zinc	[5.4400]	20.00000	ug/L	

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	500000	539200	ug/L	108
Calcium	500000	508200.	ug/L	102
Iron	200000	207500	ug/L	104
Magnesium	500000	576100	ug/L	115

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75068116007
Filename: tr262508

TJA Trace ICP
Run Name:
Run Type: ICSA

Injected: 16-FEB-2005 08:09

Analyte	QuantAmt	RL	Units	Flags
Antimony	[7.7900]	60.00000	ug/L	
Arsenic	[-4.710]	5.000000	ug/L	
Barium	[0.8810]	10.00000	ug/L	
Beryllium	[-1.020]	2.000000	ug/L	
Cadmium	[2.2600]	5.000000	ug/L	
Chromium	[2.9900]	10.00000	ug/L	
Cobalt	[0.6560]	10.00000	ug/L	
Copper	[-3.680]	10.00000	ug/L	
Lead	[2.9300]	3.000000	ug/L	
Manganese	[2.1000]	10.00000	ug/L	
Molybdenum	[-7.330]	20.00000	ug/L	
Nickel	[2.2400]	20.00000	ug/L	
Selenium	-6.80000	5.000000	ug/L	
Silver	[0.5090]	5.000000	ug/L	
Thallium	-6.56000	5.000000	ug/L	
Titanium	25.30000	10.00000	ug/L	a+ ***
Vanadium	[-0.996]	10.00000	ug/L	
Zinc	[5.0800]	20.00000	ug/L	

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	500000	533200	ug/L	107
Calcium	500000	503100.	ug/L	101
Iron	200000	204500	ug/L	102
Magnesium	500000	568700	ug/L	114

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75068116008

Run Name :
Filename : tr262509

Injected : 16-FEB-2005 08:13
Caltpe :

Standards: 05WS0126

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	528900.0	ug/L	6			
Antimony	500.0000	558.0000	ug/L	12	20		
Arsenic	500.0000	558.0000	ug/L	12	20		
Barium	500.0000	517.0000	ug/L	3	20		
Beryllium	500.0000	537.0000	ug/L	7	20		
Cadmium	1000.000	1030.000	ug/L	3	20		
Calcium	500000.0	498400.0	ug/L	0			
Chromium	500.0000	513.0000	ug/L	3	20		
Cobalt	500.0000	520.0000	ug/L	4	20		
Copper	500.0000	549.0000	ug/L	10	20		
Iron	200000.0	201600.0	ug/L	1			
Lead	1000.000	1050.000	ug/L	5	20		
Magnesium	500000.0	564400.0	ug/L	13			
Manganese	500.0000	510.0000	ug/L	2	20		
Molybdenum	500.0000	539.0000	ug/L	8	20		
Nickel	1000.000	1000.000	ug/L	0	20		
Selenium	500.0000	556.0000	ug/L	11	20		
Silver	1000.000	1110.000	ug/L	11	20		
Thallium	500.0000	540.0000	ug/L	8	20		
Titanium	20000.00	22100.00	ug/L	11			
Vanadium	500.0000	523.0000	ug/L	5	20		
Zinc	1000.000	1050.000	ug/L	5	20		

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75068116015

Run Name :
Filename : tr262516

IDF : 1.0
Injected : 16-FEB-2005 08:48
Caltype :

Standards: 05WS0015

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	483.5000	ug/L	-3	10	
Antimony		500.0000	507.0000	ug/L	1	10	
Arsenic		250.0000	245.0000	ug/L	-2	10	
Barium		500.0000	490.0000	ug/L	-2	10	
Beryllium		50.00000	48.90000	ug/L	-2	10	
Cadmium		50.00000	49.70000	ug/L	-1	10	
Calcium		1000.000	1013.000	ug/L	1	10	
Chromium		100.0000	100.0000	ug/L	0	10	
Cobalt		250.0000	241.0000	ug/L	-4	10	
Copper		100.0000	101.0000	ug/L	1	10	
Iron		500.0000	501.7000	ug/L	0	10	
Lead		250.0000	248.0000	ug/L	-1	10	
Magnesium		1000.000	981.2000	ug/L	-2	10	
Manganese		50.00000	49.70000	ug/L	-1	10	
Molybdenum		500.0000	502.0000	ug/L	0	10	
Nickel		250.0000	246.0000	ug/L	-2	10	
Selenium		250.0000	247.0000	ug/L	-1	10	
Silver		50.00000	49.80000	ug/L	0	10	
Thallium		250.0000	241.0000	ug/L	-4	10	
Titanium		500.0000	497.0000	ug/L	-1	10	
Vanadium		250.0000	245.0000	ug/L	-2	10	
Zinc		50.00000	52.70000	ug/L	5	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75068116016
Filename: tr262517

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 16-FEB-2005 08:59

Analyte	Quant	Amt	RL	Units	Flags
Aluminum	ND	100.0000		ug/L	
Antimony	ND	60.00000		ug/L	
Arsenic	ND	5.000000		ug/L	
Barium	ND	10.00000		ug/L	
Beryllium	ND	2.000000		ug/L	
Cadmium	ND	5.000000		ug/L	
Calcium	[54.300]	500.0000		ug/L	
Chromium	ND	10.00000		ug/L	
Cobalt	ND	10.00000		ug/L	
Copper	ND	10.00000		ug/L	
Iron	[21.680]	100.0000		ug/L	
Lead	ND	3.000000		ug/L	
Magnesium	[45.570]	500.0000		ug/L	
Manganese	ND	10.00000		ug/L	
Molybdenum	ND	20.00000		ug/L	
Nickel	ND	20.00000		ug/L	
Selenium	ND	5.000000		ug/L	
Silver	ND	5.000000		ug/L	
Thallium	ND	5.000000		ug/L	
Titanium	[5.4000]	10.00000		ug/L	
Vanadium	ND	10.00000		ug/L	
Zinc	ND	20.00000		ug/L	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75068116027

Run Name :
Filename : tr262528

IDF : 1.0
Injected : 16-FEB-2005 09:45
Caltpe :

Standards: 04WS2419

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	740.1000	ug/L	-1	10	
Antimony		750.0000	763.0000	ug/L	2	10	
Arsenic		375.0000	375.0000	ug/L	0	10	
Barium		750.0000	742.0000	ug/L	-1	10	
Beryllium		75.00000	76.20000	ug/L	2	10	
Cadmium		75.00000	76.40000	ug/L	2	10	
Calcium		1500.000	1499.000	ug/L	0	10	
Chromium		150.0000	152.0000	ug/L	1	10	
Cobalt		375.0000	369.0000	ug/L	-2	10	
Copper		150.0000	153.0000	ug/L	2	10	
Iron		750.0000	751.2000	ug/L	0	10	
Lead		375.0000	383.0000	ug/L	2	10	
Magnesium		1500.000	1518.000	ug/L	1	10	
Manganese		75.00000	73.10000	ug/L	-3	10	
Molybdenum		750.0000	761.0000	ug/L	1	10	
Nickel		375.0000	378.0000	ug/L	1	10	
Selenium		375.0000	381.0000	ug/L	2	10	
Silver		75.00000	75.10000	ug/L	0	10	
Thallium		375.0000	367.0000	ug/L	-2	10	
Titanium		750.0000	755.0000	ug/L	1	10	
Vanadium		375.0000	375.0000	ug/L	0	10	
Zinc		75.00000	75.70000	ug/L	1	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75068116028
Filename: tr262529

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 16-FEB-2005 09:50

Analyte	QuantAmt	RL	Units	Flags
Aluminum	ND	100.0000	ug/L	
Antimony	ND	60.00000	ug/L	
Arsenic	[4.5500]	5.000000	ug/L	
Barium	ND	10.00000	ug/L	
Beryllium	ND	2.000000	ug/L	
Cadmium	ND	5.000000	ug/L	
Calcium	[53.080]	500.0000	ug/L	
Chromium	ND	10.00000	ug/L	
Cobalt	ND	10.00000	ug/L	
Copper	ND	10.00000	ug/L	
Iron	[25.070]	100.0000	ug/L	
Lead	ND	3.000000	ug/L	
Magnesium	[45.290]	500.0000	ug/L	
Manganese	ND	10.00000	ug/L	
Molybdenum	ND	20.00000	ug/L	
Nickel	ND	20.00000	ug/L	
Selenium	ND	5.000000	ug/L	
Silver	ND	5.000000	ug/L	
Thallium	ND	5.000000	ug/L	
Titanium	[6.5200]	10.00000	ug/L	
Vanadium	ND	10.00000	ug/L	
Zinc	ND	20.00000	ug/L	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07 Run Name : IDF : 1.0
Seqnum : 75068116039 Filename : tr262540 Injected : 16-FEB-2005 11:17
Caltype :
Standards: 05WS0015

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	502.0000	ug/L	0		10	
Antimony		500.0000	504.0000	ug/L	1		10	
Arsenic		250.0000	244.0000	ug/L	-2		10	
Barium		500.0000	503.0000	ug/L	1		10	
Beryllium		50.00000	46.80000	ug/L	-6		10	
Cadmium		50.00000	46.60000	ug/L	-7		10	
Calcium		1000.000	933.5000	ug/L	-7		10	
Chromium		100.0000	95.10000	ug/L	-5		10	
Cobalt		250.0000	229.0000	ug/L	-8		10	
Copper		100.0000	103.0000	ug/L	3		10	
Iron		500.0000	458.3000	ug/L	-8		10	
Lead		250.0000	244.0000	ug/L	-2		10	
Magnesium		1000.000	934.5000	ug/L	-7		10	
Manganese		50.00000	45.30000	ug/L	-9		10	
Molybdenum		500.0000	482.0000	ug/L	-4		10	
Nickel		250.0000	234.0000	ug/L	-6		10	
Selenium		250.0000	247.0000	ug/L	-1		10	
Silver		50.00000	49.80000	ug/L	0		10	
Thallium		250.0000	231.0000	ug/L	-8		10	
Titanium		500.0000	489.0000	ug/L	-2		10	
Vanadium		250.0000	238.0000	ug/L	-5		10	
Zinc		50.00000	49.30000	ug/L	-1		10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75068116040
Filename: tr262541

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 16-FEB-2005 11:23

Analyte	QuantAmt	RL	Units	Flags
Aluminum	ND	100.0000	ug/L	
Antimony	ND	60.00000	ug/L	
Arsenic	[4.8400]	5.000000	ug/L	
Barium	ND	10.00000	ug/L	
Beryllium	ND	2.000000	ug/L	
Cadmium	ND	5.000000	ug/L	
Calcium	ND	500.0000	ug/L	
Chromium	ND	10.00000	ug/L	
Cobalt	ND	10.00000	ug/L	
Copper	ND	10.00000	ug/L	
Iron	ND	100.0000	ug/L	
Lead	[2.4000]	3.000000	ug/L	
Magnesium	[13.290]	500.0000	ug/L	
Manganese	[0.5080]	10.00000	ug/L	
Molybdenum	[2.3000]	20.00000	ug/L	
Nickel	ND	20.00000	ug/L	
Selenium	ND	5.000000	ug/L	
Silver	ND	5.000000	ug/L	
Thallium	ND	5.000000	ug/L	
Titanium	[4.2100]	10.00000	ug/L	
Vanadium	ND	10.00000	ug/L	
Zinc	ND	20.00000	ug/L	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

```
IDF      : 1.0
Injected : 16-FEB-2005 12:35
Caltype  :
```

Standards: 04WS2419

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	793.8000	ug/L	6		10	
Antimony		750.0000	796.0000	ug/L	6		10	
Arsenic		375.0000	392.0000	ug/L	5		10	
Barium		750.0000	766.0000	ug/L	2		10	
Beryllium		75.00000	77.00000	ug/L	3		10	
Cadmium		75.00000	80.30000	ug/L	7		10	
Calcium		1500.000	1463.000	ug/L	-2		10	
Chromium		150.0000	156.0000	ug/L	4		10	
Cobalt		375.0000	374.0000	ug/L	0		10	
Copper		150.0000	151.0000	ug/L	1		10	
Iron		750.0000	801.6000	ug/L	7		10	
Lead		375.0000	395.0000	ug/L	5		10	
Magnesium		1500.000	1558.000	ug/L	4		10	
Manganese		75.00000	72.00000	ug/L	-4		10	
Molybdenum		750.0000	779.0000	ug/L	4		10	
Nickel		375.0000	393.0000	ug/L	5		10	
Selenium		375.0000	404.0000	ug/L	8		10	
Silver		75.00000	76.70000	ug/L	2		10	
Thallium		375.0000	380.0000	ug/L	1		10	
Titanium		750.0000	773.0000	ug/L	3		10	
Vanadium		375.0000	376.0000	ug/L	0		10	
Zinc		75.00000	80.50000	ug/L	7		10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75068116052
Filename: tr262553

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 16-FEB-2005 12:42

Analyte	QuantAmt	RL	Units	Flags
Aluminum	[87.260]	100.0000	ug/L	
Antimony	ND	60.00000	ug/L	
Arsenic	ND	5.000000	ug/L	
Barium	ND	10.00000	ug/L	
Beryllium	ND	2.000000	ug/L	
Cadmium	ND	5.000000	ug/L	
Calcium	ND	500.0000	ug/L	
Chromium	ND	10.00000	ug/L	
Cobalt	ND	10.00000	ug/L	
Copper	ND	10.00000	ug/L	
Iron	[16.060]	100.0000	ug/L	
Lead	ND	3.000000	ug/L	
Magnesium	[16.710]	500.0000	ug/L	
Manganese	ND	10.00000	ug/L	
Molybdenum	20.50000	20.00000	ug/L	ib ***
Nickel	ND	20.00000	ug/L	
Selenium	10.90000	5.000000	ug/L	ib ***
Silver	ND	5.000000	ug/L	
Thallium	5.000000	5.000000	ug/L	ib ***
Titanium	[8.5400]	10.00000	ug/L	
Vanadium	ND	10.00000	ug/L	
Zinc	[4.8700]	20.00000	ug/L	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07 Run Name : IDF : 1.0
Seqnum : 75068116063 Filename : tr262564 Injected : 16-FEB-2005 13:28
Caltype :

Standards: 05WS0015

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		500.0000	533.2000	ug/L	7		10	
Antimony		500.0000	506.0000	ug/L	1		10	
Arsenic		250.0000	247.0000	ug/L	-1		10	
Barium		500.0000	500.0000	ug/L	0		10	
Beryllium		50.00000	49.60000	ug/L	-1		10	
Cadmium		50.00000	50.50000	ug/L	1		10	
Calcium		1000.000	997.6000	ug/L	0		10	
Chromium		100.0000	101.0000	ug/L	1		10	
Cobalt		250.0000	243.0000	ug/L	-3		10	
Copper		100.0000	102.0000	ug/L	2		10	
Iron		500.0000	551.3000	ug/L	10		10	
Lead		250.0000	254.0000	ug/L	2		10	
Magnesium		1000.000	1000.000	ug/L	0		10	
Manganese		50.00000	49.10000	ug/L	-2		10	
Molybdenum		500.0000	504.0000	ug/L	1		10	
Nickel		250.0000	250.0000	ug/L	0		10	
Selenium		250.0000	245.0000	ug/L	-2		10	
Silver		50.00000	50.00000	ug/L	0		10	
Thallium		250.0000	244.0000	ug/L	-2		10	
Titanium		500.0000	506.0000	ug/L	1		10	
Vanadium		250.0000	246.0000	ug/L	-2		10	
Zinc		50.00000	61.40000	ug/L	23		10	c+ **

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75068116064
Filename: tr262565

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 16-FEB-2005 13:32

Analyte	QuantAmt	RL	Units	Flags
Aluminum	[95.170]	100.0000	ug/L	
Antimony	ND	60.00000	ug/L	
Arsenic	ND	5.000000	ug/L	
Barium	[0.5040]	10.00000	ug/L	
Beryllium	[0.2570]	2.000000	ug/L	
Cadmium	ND	5.000000	ug/L	
Calcium	ND	500.0000	ug/L	
Chromium	ND	10.00000	ug/L	
Cobalt	ND	10.00000	ug/L	
Copper	ND	10.00000	ug/L	
Iron	[45.680]	100.0000	ug/L	
Lead	ND	3.000000	ug/L	
Magnesium	[21.430]	500.0000	ug/L	
Manganese	[0.6310]	10.00000	ug/L	
Molybdenum	ND	20.00000	ug/L	
Nickel	ND	20.00000	ug/L	
Selenium	ND	5.000000	ug/L	
Silver	ND	5.000000	ug/L	
Thallium	ND	5.000000	ug/L	
Titanium	[9.4900]	10.00000	ug/L	
Vanadium	ND	10.00000	ug/L	
Zinc	[8.4300]	20.00000	ug/L	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07 Run Name : IDF : 1.0
Seqnum : 75068116068 Filename : tr262569 Injected : 16-FEB-2005 14:32
Caltype :
Standards: 04WS2419

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	767.4000	ug/L	2		10	
Antimony		750.0000	771.0000	ug/L	3		10	
Arsenic		375.0000	386.0000	ug/L	3		10	
Barium		750.0000	772.0000	ug/L	3		10	
Beryllium		75.00000	75.50000	ug/L	1		10	
Cadmium		75.00000	78.90000	ug/L	5		10	
Calcium		1500.000	1424.000	ug/L	-5		10	
Chromium		150.0000	152.0000	ug/L	1		10	
Cobalt		375.0000	368.0000	ug/L	-2		10	
Copper		150.0000	152.0000	ug/L	1		10	
Iron		750.0000	706.3000	ug/L	-6		10	
Lead		375.0000	380.0000	ug/L	1		10	
Magnesium		1500.000	1499.000	ug/L	0		10	
Manganese		75.00000	71.00000	ug/L	-5		10	
Molybdenum		750.0000	747.0000	ug/L	0		10	
Nickel		375.0000	384.0000	ug/L	2		10	
Selenium		375.0000	376.0000	ug/L	0		10	
Silver		75.00000	75.60000	ug/L	1		10	
Thallium		375.0000	371.0000	ug/L	-1		10	
Titanium		750.0000	758.0000	ug/L	1		10	
Vanadium		375.0000	370.0000	ug/L	-1		10	
Zinc		75.00000	79.60000	ug/L	6		10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75068116069
Filename: tr262570

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 16-FEB-2005 14:42

Analyte	Quant	Amt	RL	Units	Flags
Aluminum	ND	100.0000		ug/L	
Antimony	ND	60.00000		ug/L	
Arsenic	ND	5.000000		ug/L	
Barium	ND	10.00000		ug/L	
Beryllium	ND	2.000000		ug/L	
Cadmium	ND	5.000000		ug/L	
Calcium	ND	500.0000		ug/L	
Chromium	ND	10.00000		ug/L	
Cobalt	ND	10.00000		ug/L	
Copper	ND	10.00000		ug/L	
Iron	ND	100.0000		ug/L	
Lead	ND	3.000000		ug/L	
Magnesium	ND	500.0000		ug/L	
Manganese	ND	10.00000		ug/L	
Molybdenum	[2.3600]	20.00000		ug/L	
Nickel	ND	20.00000		ug/L	
Selenium	ND	5.000000		ug/L	
Silver	ND	5.000000		ug/L	
Thallium	ND	5.000000		ug/L	
Titanium	ND	10.00000		ug/L	
Vanadium	ND	10.00000		ug/L	
Zinc	ND	20.00000		ug/L	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75068116080

Run Name :
Filename : tr262581

IDF : 1.0
Injected : 16-FEB-2005 16:21
Caltype :

Standards: 05WS0015

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	468.2000	ug/L	-6	10	
Antimony		500.0000	513.0000	ug/L	3	10	
Arsenic		250.0000	258.0000	ug/L	3	10	
Barium		500.0000	523.0000	ug/L	5	10	
Beryllium		50.00000	50.50000	ug/L	1	10	
Cadmium		50.00000	49.50000	ug/L	-1	10	
Calcium		1000.000	936.4000	ug/L	-6	10	
Chromium		100.0000	102.0000	ug/L	2	10	
Cobalt		250.0000	245.0000	ug/L	-2	10	
Copper		100.0000	99.80000	ug/L	0	10	
Iron		500.0000	529.9000	ug/L	6	10	
Lead		250.0000	255.0000	ug/L	2	10	
Magnesium		1000.000	992.2000	ug/L	-1	10	
Manganese		50.00000	48.80000	ug/L	-2	10	
Molybdenum		500.0000	513.0000	ug/L	3	10	
Nickel		250.0000	261.0000	ug/L	4	10	
Selenium		250.0000	250.0000	ug/L	0	10	
Silver		50.00000	48.50000	ug/L	-3	10	
Thallium		250.0000	248.0000	ug/L	-1	10	
Titanium		500.0000	511.0000	ug/L	2	10	
Vanadium		250.0000	245.0000	ug/L	-2	10	
Zinc		50.00000	51.20000	ug/L	2	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75068116081
Filename: tr262582

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 16-FEB-2005 16:37

Analyte	Quant	Amt	RL	Units	Flags
Aluminum	ND	100.0000		ug/L	
Antimony	ND	60.00000		ug/L	
Arsenic	[2.7000]	5.000000		ug/L	
Barium	ND	10.00000		ug/L	
Beryllium	ND	2.000000		ug/L	
Cadmium	ND	5.000000		ug/L	
Calcium	ND	500.0000		ug/L	
Chromium	ND	10.00000		ug/L	
Cobalt	ND	10.00000		ug/L	
Copper	ND	10.00000		ug/L	
Iron	ND	100.0000		ug/L	
Lead	ND	3.000000		ug/L	
Magnesium	ND	500.0000		ug/L	
Manganese	ND	10.00000		ug/L	
Molybdenum	[6.7000]	20.00000		ug/L	
Nickel	ND	20.00000		ug/L	
Selenium	ND	5.000000		ug/L	
Silver	ND	5.000000		ug/L	
Thallium	ND	5.000000		ug/L	
Titanium	[2.7800]	10.00000		ug/L	
Vanadium	ND	10.00000		ug/L	
Zinc	ND	20.00000		ug/L	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Segnum : 75068116091

```
Run Name :
Filename : tr262592
```

Injected : 16-FEB-2005 17:44
Caltype :

Standards: 05WS0126

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	481200.0	ug/L	-4			
Antimony	500.0000	565.0000	ug/L	13	20		
Arsenic	500.0000	551.0000	ug/L	10	20		
Barium	500.0000	540.0000	ug/L	8	20		
Beryllium	500.0000	479.0000	ug/L	-4	20		
Cadmium	1000.000	948.0000	ug/L	-5	20		
Calcium	500000.0	415000.0	ug/L	-17			
Chromium	500.0000	483.0000	ug/L	-3	20		
Cobalt	500.0000	482.0000	ug/L	-4	20		
Copper	500.0000	512.0000	ug/L	2	20		
Iron	200000.0	174500.0	ug/L	-13			
Lead	1000.000	1010.000	ug/L	1	20		
Magnesium	500000.0	515600.0	ug/L	3			
Manganese	500.0000	465.0000	ug/L	-7	20		
Molybdenum	500.0000	513.0000	ug/L	3	20		
Nickel	1000.000	975.0000	ug/L	-3	20		
Selenium	500.0000	513.0000	ug/L	3	20		
Silver	1000.000	1020.000	ug/L	2	20		
Thallium	500.0000	498.0000	ug/L	0	20		
Titanium	20000.00	21200.00	ug/L	6			
Vanadium	500.0000	488.0000	ug/L	-2	20		
Zinc	1000.000	993.0000	ug/L	-1	20		

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07 Run Name : IDF : 1.0
Seqnum : 75068116092 Filename : tr262593 Injected : 16-FEB-2005 18:00
Caltype :
Standards: 04WS2419

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	770.3000	ug/L	3	10	
Antimony		750.0000	767.0000	ug/L	2	10	
Arsenic		375.0000	383.0000	ug/L	2	10	
Barium		750.0000	753.0000	ug/L	0	10	
Beryllium		75.00000	76.60000	ug/L	2	10	
Cadmium		75.00000	77.60000	ug/L	3	10	
Calcium		1500.000	1504.000	ug/L	0	10	
Chromium		150.0000	153.0000	ug/L	2	10	
Cobalt		375.0000	374.0000	ug/L	0	10	
Copper		150.0000	154.0000	ug/L	3	10	
Iron		750.0000	749.5000	ug/L	0	10	
Lead		375.0000	381.0000	ug/L	2	10	
Magnesium		1500.000	1529.000	ug/L	2	10	
Manganese		75.00000	74.60000	ug/L	-1	10	
Molybdenum		750.0000	762.0000	ug/L	2	10	
Nickel		375.0000	380.0000	ug/L	1	10	
Selenium		375.0000	379.0000	ug/L	1	10	
Silver		75.00000	77.00000	ug/L	3	10	
Thallium		375.0000	368.0000	ug/L	-2	10	
Titanium		750.0000	759.0000	ug/L	1	10	
Vanadium		375.0000	377.0000	ug/L	1	10	
Zinc		75.00000	74.70000	ug/L	0	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75068116093
Filename: tr262594

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 16-FEB-2005 18:13

Analyte	Quant	Amt	RL	Units	Flags
Aluminum	ND	100.0000		ug/L	
Antimony	ND	60.00000		ug/L	
Arsenic	ND	5.000000		ug/L	
Barium	ND	10.00000		ug/L	
Beryllium	[0.8360]	2.000000		ug/L	
Cadmium	ND	5.000000		ug/L	
Calcium	ND	500.0000		ug/L	
Chromium	ND	10.00000		ug/L	
Cobalt	ND	10.00000		ug/L	
Copper	ND	10.00000		ug/L	
Iron	ND	100.0000		ug/L	
Lead	ND	3.000000		ug/L	
Magnesium	ND	500.0000		ug/L	
Manganese	ND	10.00000		ug/L	
Molybdenum	[9.6800]	20.00000		ug/L	
Nickel	ND	20.00000		ug/L	
Selenium	ND	5.000000		ug/L	
Silver	ND	5.000000		ug/L	
Thallium	ND	5.000000		ug/L	
Titanium	[3.2000]	10.00000		ug/L	
Vanadium	ND	10.00000		ug/L	
Zinc	ND	20.00000		ug/L	

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 17-FEB-2005

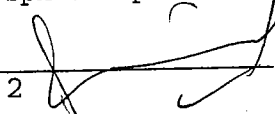
Sequence: 75069556 Instrument: MET07
Analytical Method: EPA 6010B

TJA Trace ICP
SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IQC	SPK	uL	Stds Used	>LR
001	tr262597	CS				17-FEB-2005 07:16	1.0	1.0				1	
002	tr262598	ICV				17-FEB-2005 07:19	1.0	1.0				2	
003	tr262599	ICB				17-FEB-2005 07:27	1.0	1.0					
004	tr262600	CRI				17-FEB-2005 07:31	1.0	1.0				3	
005	tr262601	ICSA				17-FEB-2005 07:42	1.0	1.0	1			4	4:MG=557000
006	tr262602	ICSAB				17-FEB-2005 07:46	1.0	1.0				5	5:MG=548100
007	tr262603	BLANK	QC282875	99227	TCLP L	17-FEB-2005 07:56	10.0	1.0	1				
008	tr262604	MSS	177627-001	99227	TCLP L	17-FEB-2005 08:01	10.0	1.0	2				1:CU=31300.0
009	tr262605	SDUP	QC282878	99227	TCLP L	17-FEB-2005 08:05	10.0	1.0					1:CU=31000.0
010	tr262606	SSPIKE	QC282879	99227	TCLP L	17-FEB-2005 08:09	10.0	1.0					1:CU=32300.0
011	tr262607	SAMPLE	177628-001	99227	TCLP L	17-FEB-2005 08:14	10.0	1.0					1:CU=25300.0
012	tr262608	SAMPLE	177651-001	99227	TCLP L	17-FEB-2005 08:18	10.0	1.0					1:V=40200.0
013	tr262609	SDUP	QC282878	99227	TCLP L	17-FEB-2005 08:23	10.0	1.0	1				1:CU=31300.0
014	tr262610	CCV				17-FEB-2005 08:32	1.0	1.0				6	
015	tr262611	CCB				17-FEB-2005 08:40	1.0	1.0					1:CU=25800.0
016	tr262612	SAMPLE	177628-001	99227	TCLP L	17-FEB-2005 08:49	10.0	1.0					1:V=40200.0
017	tr262613	SAMPLE	177651-001	99227	TCLP L	17-FEB-2005 08:54	10.0	1.0	1				
018	tr262614	SAMPLE	177652-001	99227	TCLP L	17-FEB-2005 08:59	10.0	1.0					
019	tr262615	BS	QC282876	99227	TCLP L	17-FEB-2005 09:04	1.0	1.0	1				
020	tr262616	BSD	QC282877	99227	TCLP L	17-FEB-2005 09:09	1.0	1.0	1				
021	tr262617	BLANK	QC282939	99246	Soil	17-FEB-2005 09:18	1.0	50.0	1				
022	tr262618	BLANK	QC282939	99246	Soil	17-FEB-2005 09:26	1.0	50.0	1				
023	tr262619	BS	QC282940	99246	Soil	17-FEB-2005 09:36	1.0	50.0	1				
024	tr262620	X		99246	Soil	17-FEB-2005 09:40	1.0	50.0				spk	
025	tr262621	BSD	QC282941	99246	Soil	17-FEB-2005 09:46	1.0	50.0	1				
026	tr262622	CCV				17-FEB-2005 09:52	1.0	1.0				7	
027	tr262623	CCB				17-FEB-2005 10:02	1.0	1.0					3:FE=484200
028	tr262624	MSS	177723-001	99246	Soil	17-FEB-2005 10:07	1.0	40.32	4				3:FE=485100
029	tr262625	MSS	177723-001	99246	Soil	17-FEB-2005 10:11	1.0	40.32	4				
030	tr262626	MSS	177723-001	99246	Soil	17-FEB-2005 10:17	15.0	40.32	1				

Stds used: 1=05WS0125 2=05WS0014 3=05WS0221 4=04WS2355 5=05WS0126 6=05WS0015 7=04WS2419

Flags used: spk=5% spike rule

Analyst: 

Date: 2/17/05

SEQUENCE SUMMARY
Curtis & Tompkins Laboratories

Begun: 17-FEB-2005

Sequence: 75069556 Instrument: MET07
Analytical Method: EPA 6010B

TJA Trace ICP
SOP Version: 6010B_rv7

#	Filename	Type	Samplenum	Batch	Matrix	Analyzed	IDF	PDF	IOC	SPK	uL	Stds Used	>LR
031	tr262627	MS	QC282942	99246	Soil	17-FEB-2005 10:21	1.0	31.65		1		5:FE=651500	
032	tr262628	MSD	QC282943	99246	Soil	17-FEB-2005 10:25	1.0	51.02				3:FE=377400	
033	tr262629	SAMPLE	176984-022	99246	Soil	17-FEB-2005 10:31	1.0	43.48				2:FE=353700	
034	tr262630	SAMPLE	177705-002	99246	Soil	17-FEB-2005 10:35	1.0	50.0				3:FE=330300	
035	tr262631	SAMPLE	177709-001	99246	Miscel	17-FEB-2005 10:39	1.0	50.51				2:FE=207500	
036	tr262632	SAMPLE	177717-001	99246	Soil	17-FEB-2005 10:43	1.0	47.62				4:FE=343600	
037	tr262633	SAMPLE	177717-002	99246	Soil	17-FEB-2005 10:47	1.0	35.21					
038	tr262634	CCV				17-FEB-2005 10:57	1.0	1.0				7	
039	tr262635	CCB				17-FEB-2005 11:01	1.0	1.0					
040	tr262636	SAMPLE	177717-003	99246	Soil	17-FEB-2005 11:06	1.0	43.86		1		5:FE=808200	
041	tr262637	SAMPLE	177717-004	99246	Soil	17-FEB-2005 11:10	1.0	49.50				3:FE=260700	
042	tr262638	SAMPLE	177717-005	99246	Soil	17-FEB-2005 11:14	1.0	46.30				3:FE=298900	
043	tr262639	SAMPLE	177717-006	99246	Soil	17-FEB-2005 11:18	1.0	52.08				3:FE=236000	
044	tr262640	SAMPLE	177717-003	99246	Soil	17-FEB-2005 11:22	1.0	43.86		1		5:FE=811400	
045	tr262641	SAMPLE	177717-003	99246	Soil	17-FEB-2005 11:26	25.0	43.86					
046	tr262642	SAMPLE	177717-007	99246	Soil	17-FEB-2005 11:30	1.0	50.0				3:FE=266800	
047	tr262643	SAMPLE	177717-008	99246	Soil	17-FEB-2005 11:34	1.0	42.74				3:FE=225600	
048	tr262644	ICSAB				17-FEB-2005 11:41	1.0	1.0				5	5:MG=513600
049	tr262645	CCV				17-FEB-2005 11:50	1.0	1.0				6	
050	tr262646	CCB				17-FEB-2005 11:53	1.0	1.0					

Stds used: 1=05WS0125 2=05WS0014 3=05WS0221 4=04WS2355 5=05WS0126 6=05WS0015 7=04WS2419

Flags used: spk=5% spike rule

Analyst:

Date:

Page 2 of 2

Method: 6010B Standard: blank
Run Time: 02/17/05 07:07:49

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	.003	.008	.002	.012	-.287	.009	.001
SDev	.000	.002	.003	.000	.001	.001	.001
%RSD	.667	27.6	112.	.982	.340	8.36	31.5
#1	.003	.010	.004	.012	-.288	.008	.001
#2	.003	.006	.001	.012	-.286	.009	.002
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	-.000	.007	.019	.003	.001	.005	-.008
SDev	.000	.000	.000	.005	.001	.001	.002
%RSD	141.	5.60	1.13	196.	46.4	18.4	22.3
#1	-.001	.007	.019	-.001	.002	.004	-.007
#2	.000	.007	.019	.006	.001	.005	-.010
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.005	.001	-.005	.001	.048	.0661	-.0014
SDev	.002	.000	.000	.001	.000	.0001	.0001
%RSD	33.7	48.6	6.77	52.5	.166	.2070	7.737
#1	.004	.001	-.005	.001	.048	.0660	-.0014
#2	.006	.001	-.005	.002	.048	.0662	-.0013
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	-.0009	-.0001	.005	.297			
SDev	.0005	.0000	.000	.001			
%RSD	53.26	46.55	4.18	.421			
#1	-.0012	-.0001	.006	.296			
#2	-.0005	-.0001	.005	.298			

Method: 6010B Standard: cst hi
 Run Time: 02/17/05 07:12:18

Elem	Sb2068	Sb206A	As1890	Ba4934	Be3130	Cd2265	Cr2677
Avge	1.32	.766	.283	16.4	2.77	1.08	.237
SDev	.01	.004	.008	.0	.02	.00	.000
%RSD	.891	.546	2.77	.303	.621	.076	.174
#1	1.31	.763	.278	16.4	2.75	1.08	.237
#2	1.33	.769	.289	16.5	2.78	1.09	.237
Elem	Co2286	Cu3247	Pb2203	Pb220A	Mo2020	Ni2316	Se1960
Avge	.727	.518	.827	.845	1.90	1.84	.308
SDev	.003	.004	.003	.013	.06	.01	.007
%RSD	.367	.679	.306	1.51	2.90	.413	2.35
#1	.725	.516	.825	.836	1.86	1.84	.303
#2	.729	.521	.828	.854	1.94	1.85	.313
Elem	Se196A	Ag3280	Tl1908	V_2924	Zn2138	Al3082	Ca3179
Avge	.351	.303	.186	.873	.216	.1850	.3000
SDev	.020	.003	.008	.004	.001	.0014	.0018
%RSD	5.60	.811	4.26	.419	.382	.7721	.6117
#1	.337	.305	.180	.870	.215	.1840	.2987
#2	.365	.301	.191	.875	.216	.1860	.3013
Elem	Fe2714	Mg2790	Mn2576	Ti3349			
Avge	.1154	.1739	1.08	7.23			
SDev	.0010	.0014	.01	.03			
%RSD	.8367	.8259	.520	.440			
#1	.1147	.1729	1.07	7.21			
#2	.1161	.1749	1.08	7.25			

Method: 6010B

Slope = Conc(SIR)/IR

Element	Wavelength	High std	Low std	Slope	Y-intercept	Date Standardized
Bb2068	206.831	Multiple	Standards	754.007	-2.49179	02/17/05 07:12:18
Bb206A	206.832	Multiple	Standards	1293.79	-10.3016	02/17/05 07:12:18
As1890	189.042	Multiple	Standards	1782.36	-4.41895	02/17/05 07:12:18
Ba4934	493.409	Multiple	Standards	60.8555	-.711106	02/17/05 07:12:18
Be3130	313.042	Multiple	Standards	31.6272	9.07855	02/17/05 07:12:18
Cd2265	226.502	Multiple	Standards	92.8743	-.817692	02/17/05 07:12:18
Cr2677	267.716	Multiple	Standards	850.005	-1.27284	02/17/05 07:12:18
Co2286	228.616	Multiple	Standards	689.188	.176933	02/17/05 07:12:18
Cu3247	324.754	Multiple	Standards	391.437	-2.77435	02/17/05 07:12:18
Pb2203	220.351	Multiple	Standards	619.503	-11.6077	02/17/05 07:12:18
Pb220A	220.352	Multiple	Standards	588.460	-1.52373	02/17/05 07:12:18
Mo2020	202.030	Multiple	Standards	526.177	-.637365	02/17/05 07:12:18
Ni2316	231.604	Multiple	Standards	272.174	-1.30664	02/17/05 07:12:18
Se1960	196.021	Multiple	Standards	1581.85	13.2474	02/17/05 07:12:18
Se196A	196.022	Multiple	Standards	1441.15	-6.86601	02/17/05 07:12:18
Ag3280	328.068	Multiple	Standards	331.491	-.259329	02/17/05 07:12:18
Tl1908	190.864	Multiple	Standards	2643.94	13.5594	02/17/05 07:12:18
V_2924	292.402	Multiple	Standards	573.888	-.780697	02/17/05 07:12:18
Zn2138	213.856	Multiple	Standards	616.471	-29.6135	02/17/05 07:12:18
Al3082	308.215	Multiple	Standards	8570.84	-566.762	02/17/05 07:12:18
Ca3179	317.933	Multiple	Standards	6637.04	9.04694	02/17/05 07:12:18
Fe2714	271.441	Multiple	Standards	9001.57	7.83404	02/17/05 07:12:18
Mg2790	279.079	Multiple	Standards	11488.3	1.17235	02/17/05 07:12:18
Mn2576	257.610	Multiple	Standards	93.2022	-.511290	02/17/05 07:12:18
Pb sum	220.353	NONE	NONE	1.00000	.000000	*02/17/05 07:12:18
Sb sum	206.838	NONE	NONE	1.00000	.000000	*02/17/05 07:12:18
Se sum	196.026	NONE	NONE	1.00000	.000000	*02/17/05 07:12:18
Ti3349	334.941	Multiple	Standards	144.269	-42.7948	02/17/05 07:12:18

INITIAL CALIBRATION CHECK STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75069556001

Run Name :
Filename : tr262597

Injected : 17-FEB-2005 07:16
Caltype :

Standards: 05WS0125

Analyte	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum	1000.000	1008.000	ug/L	1	5	
Antimony	1000.000	1000.000	ug/L	0	5	
Arsenic	500.0000	506.0000	ug/L	1	5	
Barium	1000.000	1010.000	ug/L	1	5	
Beryllium	100.0000	101.0000	ug/L	1	5	
Cadmium	100.0000	102.0000	ug/L	2	5	
Calcium	2000.000	2024.000	ug/L	1	5	
Chromium	200.0000	203.0000	ug/L	2	5	
Cobalt	500.0000	506.0000	ug/L	1	5	
Copper	200.0000	201.0000	ug/L	1	5	
Iron	1000.000	1020.000	ug/L	2	5	
Lead	500.0000	504.0000	ug/L	1	5	
Magnesium	2000.000	2023.000	ug/L	1	5	
Manganese	100.0000	101.0000	ug/L	1	5	
Molybdenum	1000.000	1030.000	ug/L	3	5	
Nickel	500.0000	505.0000	ug/L	1	5	
Selenium	500.0000	513.0000	ug/L	3	5	
Silver	100.0000	100.0000	ug/L	0	5	
Thallium	500.0000	505.0000	ug/L	1	5	
Titanium	1000.000	1010.000	ug/L	1	5	
Vanadium	500.0000	505.0000	ug/L	1	5	
Zinc	100.0000	101.0000	ug/L	1	5	

SECOND SOURCE CALIBRATION VERIFICATION
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75069556002

Run Name :
Filename : tr262598

Injected : 17-FEB-2005 07:19
Caltype :

Standards: 05WS0014

Analyte	SpkAmt	QuantAmt	Units	%D	Max	Flags
Aluminum	500.0000	506.3000	ug/L	1	10	
Antimony	500.0000	505.0000	ug/L	1	10	
Arsenic	250.0000	250.0000	ug/L	0	10	
Barium	500.0000	498.0000	ug/L	0	10	
Beryllium	50.00000	50.70000	ug/L	1	10	
Cadmium	50.00000	50.80000	ug/L	2	10	
Calcium	1000.000	1030.000	ug/L	3	10	
Chromium	100.0000	102.0000	ug/L	2	10	
Cobalt	250.0000	248.0000	ug/L	-1	10	
Copper	100.0000	103.0000	ug/L	3	10	
Iron	500.0000	514.1000	ug/L	3	10	
Lead	250.0000	256.0000	ug/L	2	10	
Magnesium	1000.000	1021.000	ug/L	2	10	
Manganese	50.00000	49.60000	ug/L	-1	10	
Molybdenum	500.0000	539.0000	ug/L	8	10	
Nickel	250.0000	253.0000	ug/L	1	10	
Selenium	250.0000	259.0000	ug/L	4	10	
Silver	50.00000	50.50000	ug/L	1	10	
Thallium	250.0000	253.0000	ug/L	1	10	
Titanium	500.0000	505.0000	ug/L	1	10	
Vanadium	250.0000	251.0000	ug/L	0	10	
Zinc	50.00000	51.90000	ug/L	4	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75069556003
Filename: tr262599

TJA Trace ICP
Run Name:
Run Type: ICB

Injected: 17-FEB-2005 07:27

Analyte	Quant	Amt	RL	Units	Flags
Aluminum	ND	100.0000		ug/L	
Antimony	ND	60.00000		ug/L	
Arsenic	ND	5.000000		ug/L	
Barium	ND	10.00000		ug/L	
Beryllium	ND	2.000000		ug/L	
Cadmium	ND	5.000000		ug/L	
Calcium	ND	500.0000		ug/L	
Chromium	ND	10.00000		ug/L	
Cobalt	ND	10.00000		ug/L	
Copper	ND	10.00000		ug/L	
Iron	ND	100.0000		ug/L	
Lead	ND	3.000000		ug/L	
Magnesium	ND	500.0000		ug/L	
Manganese	ND	10.00000		ug/L	
Molybdenum	[5.0900]	20.00000		ug/L	
Nickel	ND	20.00000		ug/L	
Selenium	[4.0000]	5.000000		ug/L	
Silver	ND	5.000000		ug/L	
Thallium	ND	5.000000		ug/L	
Titanium	[1.2600]	10.00000		ug/L	
Vanadium	ND	10.00000		ug/L	
Zinc	ND	20.00000		ug/L	

LOW-LEVEL PERFORMANCE VERIFICATION STANDARD
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75069556004

Run Name :
Filename : tr262600

Injected : 17-FEB-2005 07:31
Caltpe :

Standards: 05WS0221

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	100.0000	106.7000	ug/L	7		50	
Antimony	60.00000	57.00000	ug/L	-5		50	
Arsenic	5.000000	5.740000	ug/L	15		50	
Barium	10.00000	9.530000	ug/L	-5		50	
Beryllium	2.000000	1.860000	ug/L	-7		50	
Cadmium	5.000000	4.790000	ug/L	-4		50	
Calcium	200.0000	206.7000	ug/L	3		50	
Chromium	10.00000	9.960000	ug/L	0		50	
Cobalt	20.00000	19.10000	ug/L	-5		50	
Copper	10.00000	10.20000	ug/L	2		50	
Iron	100.0000	101.2000	ug/L	1		50	
Lead	3.000000	1.640000	ug/L	-45		50	
Magnesium	200.0000	209.0000	ug/L	5		50	
Manganese	10.00000	9.630000	ug/L	-4		50	
Molybdenum	20.00000	24.00000	ug/L	20		50	
Nickel	20.00000	19.20000	ug/L	-4		50	
Selenium	5.000000	3.860000	ug/L	-23		50	
Silver	5.000000	4.430000	ug/L	-11		50	
Thallium	5.000000	7.150000	ug/L	43		50	
Vanadium	10.00000	9.670000	ug/L	-3		50	
Zinc	20.00000	18.80000	ug/L	-6		50	

INTERFERENCE CHECK STANDARD A
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75069556005
Filename: tr262601

TJA Trace ICP
Run Name:
Run Type: ICSA

Injected: 17-FEB-2005 07:42

Analyte	QuantAmt	RL	Units	Flags
Antimony	[6.7800]	60.00000	ug/L	
Arsenic	[0.4130]	5.000000	ug/L	
Barium	[0.1720]	10.00000	ug/L	
Beryllium	[-1.030]	2.000000	ug/L	
Cadmium	[3.8500]	5.000000	ug/L	
Chromium	[1.9200]	10.00000	ug/L	
Cobalt	[-0.524]	10.00000	ug/L	
Copper	[-4.430]	10.00000	ug/L	
Lead	5.030000	3.000000	ug/L	
Manganese	[2.0400]	10.00000	ug/L	
Molybdenum	[0.2340]	20.00000	ug/L	
Nickel	[0.9810]	20.00000	ug/L	
Selenium	-6.16000	5.000000	ug/L	
Silver	[-1.460]	5.000000	ug/L	
Thallium	[1.0700]	5.000000	ug/L	
Titanium	21.90000	10.00000	ug/L	a+ ***
Vanadium	[-2.820]	10.00000	ug/L	
Zinc	[4.2100]	20.00000	ug/L	

SPIKED INTERFERENTS

Analyte	SpikeAmt	QuantAmt	Units	%REC
Aluminum	500000	526800	ug/L	105
Calcium	500000	488500.	ug/L	98
Iron	200000	198000	ug/L	99
Magnesium	500000	557000	ug/L	111

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75069556006

Run Name :
Filename : tr262602

Injected : 17-FEB-2005 07:46
Caltpe :

Standards: 05WS0126

Analyte	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum	500000.0	515400.0	ug/L	3			
Antimony	500.0000	554.0000	ug/L	11	20		
Arsenic	500.0000	552.0000	ug/L	10	20		
Barium	500.0000	515.0000	ug/L	3	20		
Beryllium	500.0000	519.0000	ug/L	4	20		
Cadmium	1000.000	1010.000	ug/L	1	20		
Calcium	500000.0	480500.0	ug/L	-4			
Chromium	500.0000	507.0000	ug/L	1	20		
Cobalt	500.0000	511.0000	ug/L	2	20		
Copper	500.0000	541.0000	ug/L	8	20		
Iron	200000.0	193700.0	ug/L	-3			
Lead	1000.000	1040.000	ug/L	4	20		
Magnesium	500000.0	548100.0	ug/L	10			
Manganese	500.0000	501.0000	ug/L	0	20		
Molybdenum	500.0000	539.0000	ug/L	8	20		
Nickel	1000.000	981.0000	ug/L	-2	20		
Selenium	500.0000	541.0000	ug/L	8	20		
Silver	1000.000	1090.000	ug/L	9	20		
Thallium	500.0000	525.0000	ug/L	5	20		
Titanium	20000.00	21700.00	ug/L	9			
Vanadium	500.0000	512.0000	ug/L	2	20		
Zinc	1000.000	1060.000	ug/L	6	20		

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75069556014

Run Name :
Filename : tr262610

IDF : 1.0
Injected : 17-FEB-2005 08:32
Caltype :

Standards: 05WS0015

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	508.9000	ug/L	2	10	
Antimony		500.0000	506.0000	ug/L	1	10	
Arsenic		250.0000	258.0000	ug/L	3	10	
Barium		500.0000	494.0000	ug/L	-1	10	
Beryllium		50.00000	51.50000	ug/L	3	10	
Cadmium		50.00000	52.00000	ug/L	4	10	
Calcium		1000.000	1053.000	ug/L	5	10	
Chromium		100.0000	103.0000	ug/L	3	10	
Cobalt		250.0000	252.0000	ug/L	1	10	
Copper		100.0000	106.0000	ug/L	6	10	
Iron		500.0000	509.2000	ug/L	2	10	
Lead		250.0000	258.0000	ug/L	3	10	
Magnesium		1000.000	1039.000	ug/L	4	10	
Manganese		50.00000	50.10000	ug/L	0	10	
Molybdenum		500.0000	528.0000	ug/L	6	10	
Nickel		250.0000	257.0000	ug/L	3	10	
Selenium		250.0000	254.0000	ug/L	2	10	
Silver		50.00000	50.00000	ug/L	0	10	
Thallium		250.0000	256.0000	ug/L	2	10	
Titanium		500.0000	506.0000	ug/L	1	10	
Vanadium		250.0000	253.0000	ug/L	1	10	
Zinc		50.00000	53.10000	ug/L	6	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75069556015
Filename: tr262611

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 17-FEB-2005 08:40

Analyte	QuantAmt	RL	Units	Flags
Aluminum	ND	100.0000	ug/L	
Antimony	ND	60.00000	ug/L	
Arsenic	ND	5.000000	ug/L	
Barium	ND	10.00000	ug/L	
Beryllium	ND	2.000000	ug/L	
Cadmium	ND	5.000000	ug/L	
Calcium	ND	500.0000	ug/L	
Chromium	ND	10.00000	ug/L	
Cobalt	ND	10.00000	ug/L	
Copper	ND	10.00000	ug/L	
Iron	ND	100.0000	ug/L	
Lead	ND	3.000000	ug/L	
Magnesium	[9.3480]	500.0000	ug/L	
Manganese	ND	10.00000	ug/L	
Molybdenum	[3.7100]	20.00000	ug/L	
Nickel	ND	20.00000	ug/L	
Selenium	ND	5.000000	ug/L	
Silver	ND	5.000000	ug/L	
Thallium	ND	5.000000	ug/L	
Titanium	[3.5600]	10.00000	ug/L	
Vanadium	ND	10.00000	ug/L	
Zinc	ND	20.00000	ug/L	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75069556026

Run Name :
Filename : tr262622

IDF : 1.0
Injected : 17-FEB-2005 09:52
Caltype :

Standards: 04WS2419

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D	Max	%D	Flags
Aluminum		750.0000	740.5000	ug/L	-1		10	
Antimony		750.0000	796.0000	ug/L	6		10	
Arsenic		375.0000	394.0000	ug/L	5		10	
Barium		750.0000	734.0000	ug/L	-2		10	
Beryllium		75.00000	80.80000	ug/L	8		10	
Cadmium		75.00000	80.50000	ug/L	7		10	
Calcium		1500.000	1582.000	ug/L	5		10	
Chromium		150.0000	158.0000	ug/L	5		10	
Cobalt		375.0000	386.0000	ug/L	3		10	
Copper		150.0000	150.0000	ug/L	0		10	
Iron		750.0000	809.8000	ug/L	8		10	
Lead		375.0000	405.0000	ug/L	8		10	
Magnesium		1500.000	1618.000	ug/L	8		10	
Manganese		75.00000	75.40000	ug/L	1		10	
Molybdenum		750.0000	793.0000	ug/L	6		10	
Nickel		375.0000	398.0000	ug/L	6		10	
Selenium		375.0000	402.0000	ug/L	7		10	
Silver		75.00000	74.10000	ug/L	-1		10	
Thallium		375.0000	392.0000	ug/L	5		10	
Titanium		750.0000	774.0000	ug/L	3		10	
Vanadium		375.0000	384.0000	ug/L	2		10	
Zinc		75.00000	79.70000	ug/L	6		10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75069556027
Filename: tr262623

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 17-FEB-2005 10:02

Analyte	QuantAmt	RL	Units	Flags
Aluminum	ND	100.0000	ug/L	
Antimony	ND	60.00000	ug/L	
Arsenic	[3.2100]	5.000000	ug/L	
Barium	ND	10.00000	ug/L	
Beryllium	[0.2820]	2.000000	ug/L	
Cadmium	ND	5.000000	ug/L	
Calcium	ND	500.0000	ug/L	
Chromium	ND	10.00000	ug/L	
Cobalt	ND	10.00000	ug/L	
Copper	ND	10.00000	ug/L	
Iron	ND	100.0000	ug/L	
Lead	ND	3.000000	ug/L	
Magnesium	[9.7600]	500.0000	ug/L	
Manganese	ND	10.00000	ug/L	
Molybdenum	[8.5400]	20.00000	ug/L	
Nickel	ND	20.00000	ug/L	
Selenium	ND	5.000000	ug/L	
Silver	ND	5.000000	ug/L	
Thallium	ND	5.000000	ug/L	
Titanium	[5.6800]	10.00000	ug/L	
Vanadium	ND	10.00000	ug/L	
Zinc	ND	20.00000	ug/L	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75069556038

Run Name :
Filename : tr262634

IDF : 1.0
Injected : 17-FEB-2005 10:57
Caltpe :

Standards: 04WS2419

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		750.0000	730.5000	ug/L	-3	10	
Antimony		750.0000	756.0000	ug/L	1	10	
Arsenic		375.0000	371.0000	ug/L	-1	10	
Barium		750.0000	739.0000	ug/L	-1	10	
Beryllium		75.00000	75.00000	ug/L	0	10	
Cadmium		75.00000	75.80000	ug/L	1	10	
Calcium		1500.000	1466.000	ug/L	-2	10	
Chromium		150.0000	150.0000	ug/L	0	10	
Cobalt		375.0000	363.0000	ug/L	-3	10	
Copper		150.0000	150.0000	ug/L	0	10	
Iron		750.0000	768.4000	ug/L	2	10	
Lead		375.0000	375.0000	ug/L	0	10	
Magnesium		1500.000	1493.000	ug/L	0	10	
Manganese		75.00000	72.10000	ug/L	-4	10	
Molybdenum		750.0000	735.0000	ug/L	-2	10	
Nickel		375.0000	373.0000	ug/L	-1	10	
Selenium		375.0000	367.0000	ug/L	-2	10	
Silver		75.00000	74.80000	ug/L	0	10	
Thallium		375.0000	358.0000	ug/L	-5	10	
Titanium		750.0000	742.0000	ug/L	-1	10	
Vanadium		375.0000	366.0000	ug/L	-2	10	
Zinc		75.00000	74.00000	ug/L	-1	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75069556039
Filename: tr262635

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 17-FEB-2005 11:01

Analyte	Quant	Amt	RL	Units	Flags
Aluminum	ND		100.0000	ug/L	
Antimony	ND		60.00000	ug/L	
Arsenic	ND		5.000000	ug/L	
Barium	ND		10.00000	ug/L	
Beryllium	[0.8490]		2.000000	ug/L	
Cadmium	ND		5.000000	ug/L	
Calcium	ND		500.0000	ug/L	
Chromium	ND		10.00000	ug/L	
Cobalt	ND		10.00000	ug/L	
Copper	ND		10.00000	ug/L	
Iron	[20.480]		100.0000	ug/L	
Lead	ND		3.000000	ug/L	
Magnesium	[11.770]		500.0000	ug/L	
Manganese	ND		10.00000	ug/L	
Molybdenum	[10.600]		20.00000	ug/L	
Nickel	ND		20.00000	ug/L	
Selenium	[3.7900]		5.000000	ug/L	
Silver	ND		5.000000	ug/L	
Thallium	ND		5.000000	ug/L	
Titanium	[6.7100]		10.00000	ug/L	
Vanadium	ND		10.00000	ug/L	
Zinc	ND		20.00000	ug/L	

INTERFERENCE CHECK STANDARD AB
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75069556048

Run Name :
Filename : tr262644

Injected : 17-FEB-2005 11:41
Caltpe :

Standards: 05WS0126

Analyte	SpkAmt	QuantAmt	Units	%D	Max %D	Flags
Aluminum	500000.0	467800.0	ug/L	-6		
Antimony	500.0000	536.0000	ug/L	7	20	
Arsenic	500.0000	524.0000	ug/L	5	20	
Barium	500.0000	497.0000	ug/L	-1	20	
Beryllium	500.0000	483.0000	ug/L	-3	20	
Cadmium	1000.000	962.0000	ug/L	-4	20	
Calcium	500000.0	439300.0	ug/L	-12		
Chromium	500.0000	480.0000	ug/L	-4	20	
Cobalt	500.0000	476.0000	ug/L	-5	20	
Copper	500.0000	501.0000	ug/L	0	20	
Iron	200000.0	179800.0	ug/L	-10		
Lead	1000.000	994.0000	ug/L	-1	20	
Magnesium	500000.0	513600.0	ug/L	3		
Manganese	500.0000	462.0000	ug/L	-8	20	
Molybdenum	500.0000	499.0000	ug/L	0	20	
Nickel	1000.000	935.0000	ug/L	-7	20	
Selenium	500.0000	511.0000	ug/L	2	20	
Silver	1000.000	1020.000	ug/L	2	20	
Thallium	500.0000	485.0000	ug/L	-3	20	
Titanium	20000.00	20500.00	ug/L	3		
Vanadium	500.0000	482.0000	ug/L	-4	20	
Zinc	1000.000	987.0000	ug/L	-1	20	

CONTINUING CALIBRATION REPORT
Curtis & Tompkins Laboratories

Instid : MET07
Seqnum : 75069556049

Run Name :
Filename : tr262645

IDF : 1.0
Injected : 17-FEB-2005 11:50
Caltype :

Standards: 05WS0015

Analyte	RF/CF	SpkAmt	QuantAmt	Units	%D Max	%D	Flags
Aluminum		500.0000	503.3000	ug/L	1	10	
Antimony		500.0000	498.0000	ug/L	0	10	
Arsenic		250.0000	253.0000	ug/L	1	10	
Barium		500.0000	490.0000	ug/L	-2	10	
Beryllium		50.00000	49.90000	ug/L	0	10	
Cadmium		50.00000	50.70000	ug/L	1	10	
Calcium		1000.000	989.5000	ug/L	-1	10	
Chromium		100.0000	99.60000	ug/L	0	10	
Cobalt		250.0000	241.0000	ug/L	-4	10	
Copper		100.0000	97.20000	ug/L	-3	10	
Iron		500.0000	521.8000	ug/L	4	10	
Lead		250.0000	254.0000	ug/L	2	10	
Magnesium		1000.000	1017.000	ug/L	2	10	
Manganese		50.00000	47.10000	ug/L	-6	10	
Molybdenum		500.0000	502.0000	ug/L	0	10	
Nickel		250.0000	251.0000	ug/L	0	10	
Selenium		250.0000	249.0000	ug/L	0	10	
Silver		50.00000	48.40000	ug/L	-3	10	
Thallium		250.0000	242.0000	ug/L	-3	10	
Titanium		500.0000	496.0000	ug/L	-1	10	
Vanadium		250.0000	242.0000	ug/L	-3	10	
Zinc		50.00000	52.20000	ug/L	4	10	

INSTRUMENT BLANK REPORT
Curtis & Tompkins Laboratories

Instrument: MET07
Seqnum: 75069556050
Filename: tr262646

TJA Trace ICP
Run Name:
Run Type: CCB

Injected: 17-FEB-2005 11:53

Analyte	QuantAmt	RL	Units	Flags
Aluminum	ND	100.0000	ug/L	
Antimony	ND	60.00000	ug/L	
Arsenic	[4.0600]	5.000000	ug/L	
Barium	ND	10.00000	ug/L	
Beryllium	[1.2000]	2.000000	ug/L	
Cadmium	ND	5.000000	ug/L	
Calcium	[22.720]	500.0000	ug/L	
Chromium	ND	10.00000	ug/L	
Cobalt	ND	10.00000	ug/L	
Copper	ND	10.00000	ug/L	
Iron	[16.020]	100.0000	ug/L	
Lead	ND	3.000000	ug/L	
Magnesium	[25.730]	500.0000	ug/L	
Manganese	ND	10.00000	ug/L	
Molybdenum	[6.2800]	20.00000	ug/L	
Nickel	ND	20.00000	ug/L	
Selenium	ND	5.000000	ug/L	
Silver	ND	5.000000	ug/L	
Thallium	ND	5.000000	ug/L	
Titanium	[8.4000]	10.00000	ug/L	
Vanadium	ND	10.00000	ug/L	
Zinc	[5.2400]	20.00000	ug/L	

Curtis & Tompkins Laboratories

Sample Preparation Summary

13-JAN-2005 08:47

Batch Number : 98253
Date Extracted: 13-JAN-2005
Extracted by : Kevin Gaines
Prep Method : 3050B

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

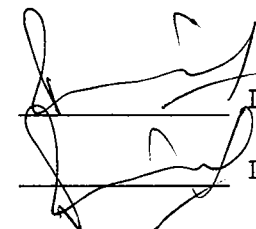
Spike #1 ID : 04SS171
Spike #2 ID : 04SS172
Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean D.F.	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176984-038		Ninyo & Moore	Soil	1.11	g	50	45.045045	1					CR, PB		
176984-039		Ninyo & Moore	Soil	1.12	g	50	44.642857	1					CR, PB		
177105-021		Port of Oakland	Soil	1.15	g	50	43.478261	1					T26/ICP		
177105-022		Port of Oakland	Soil	1.25	g	50	40.000000	1					T26/ICP		
177105-023		Port of Oakland	Soil	1.21	g	50	41.322314	1					T26/ICP		
177105-024		Port of Oakland	Soil	1.16	g	50	43.103448	1					T26/ICP		
QC279235	BLANK		Soil	1	g	50	50.000000	1					ICAP		
QC279236	BS		Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC279237	BSD		Soil	1	g	50	50.000000	1		.5	.5		ICAP		
QC279238	MS	of 177105-021	Soil	1.05	g	50	47.619048	1		.5	.5		ICAP		
QC279239	MSD	of 177105-021	Soil	1.17	g	50	42.735043	1		.5	.5		ICAP		

Prep Chemist:

Kevin A. 1/13/05

Reviewed By:



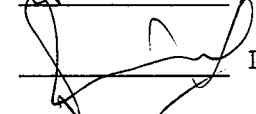
Date:

1/13/05

Relinquished By:

Kevin A. 1/13/05

Received By:



Date:

1/13/05

Curtis & Tompkins Laboratories

Sample Preparation Summary

17-FEB-2005 09:02

Batch Number : 99246
Date Extracted: 17-FEB-2005
Extracted by : Victor Vergara
Prep Method : 3050B

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

Spike #1 ID : 04SS171
Spike #2 ID : 04SS172
Spike #3 ID :

Sample	Type	Client	Matrix	Init W/v	Units	Final Vol	Prep D.F.	Clean pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176984-022		Ninyo & Moore	Soil	1.15	g	50	43.478261	1				PB		
177705-002		Montezuma Wetlands LLC	Soil	1	g	50	50.000000	1				AG, AS, CD, (more)		
177709-001		ConocoPhillips Company	Miscell.	.99	g	50	50.505051	1				V		
177717-001		MWH	Soil	1.05	g	50	47.619048	1				T26/ICP		
177717-002		MWH	Soil	1.42	g	50	35.211268	1				T26/ICP		
177717-003		MWH	Soil	1.14	g	50	43.859649	1				T26/ICP		
177717-004		MWH	Soil	1.01	g	50	49.504950	1				T26/ICP		
177717-005		MWH	Soil	1.08	g	50	46.296296	1				T26/ICP		
177717-006		MWH	Soil	.96	g	50	52.083333	1				T26/ICP		
177717-007		MWH	Soil	1	g	50	50.000000	1				T26/ICP		
177717-008		MWH	Soil	1.17	g	50	42.735043	1				T26/ICP		
177723-001		Monterey Mechanical	Soil	1.24	g	50	40.322581	1				T26/ICP		mss
QC282939	BLANK		Soil	1	g	50	50.000000	1				ICAP		
QC282940	BS		Soil	1	g	50	50.000000	1	.5	.5		ICAP		
QC282941	BSD		Soil	1	g	50	50.000000	1	.5	.5		ICAP		
QC282942	MS	of 177723-001	Soil	1.58	g	50	31.645570	1	.5	.5		ICAP		
QC282943	MSD	of 177723-001	Soil	.98	g	50	51.020408	1	.5	.5		ICAP		

Prep Chemist:

Reviewed By:

Date:

Relinquished By:

Received By:

Date:

Curtis & Tompkins, Ltd.

BK 2057

~~☐~~ EPA 3050b

Page 76

☐ _____

15

Reviewed by / Date

Curtis & Tompkins Laboratories Sample Preparation Summary

16-FEB-2005 05:15

Batch Number : 99199
Date Extracted: 16-FEB-2005
Extracted by : Victor Vergara
Prep Method : 3050B

Analysis : N/A
Bgroup : ICAP
Units : g
Clean-up :

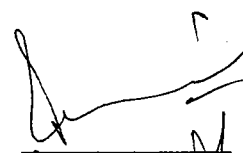
Spike #1 ID : 04SS171
Spike #2 ID : 04SS172
Spike #3 ID :

Sample	Type	Client	Matrix	Init W/V	Units	Final Vol	Prep D.F.	Clean pH	Sp 1 D.F.	Sp 2 Vol	Sp 3 Vol	Analyses	Clean Method	Comments
176984-006		Ninyo & Moore	Soil	1.55	g	50	32.258065	1				PB		mss
176984-022		Ninyo & Moore	Soil	1.23	g	50	40.650407	1				PB		
177490-016		DEA Services	Miscell.	3.46	g	50	14.450867	1				CD, PB		
177684-001		ConocoPhillips Company	Miscell.	1.46	g	50	34.246575	1				V		
177684-002		ConocoPhillips Company	Miscell.	.99	g	50	50.505051	1				V		
177684-003		ConocoPhillips Company	Miscell.	1.3	g	50	38.461538	1				V		
177684-004		ConocoPhillips Company	Miscell.	1.15	g	50	43.478261	1				V		
177690-004		Camp, Dresser & McKee	Soil	1.39	g	50	35.971223	1				CR, PB		
177690-006		Camp, Dresser & McKee	Soil	1.06	g	50	47.169811	1				AS		
177690-007		Camp, Dresser & McKee	Soil	1.74	g	50	28.735632	1				AS		
177690-009		Camp, Dresser & McKee	Soil	1.73	g	50	28.901734	1				AS		
177690-010		Camp, Dresser & McKee	Soil	1.49	g	50	33.557047	1				AS		
177690-014		Camp, Dresser & McKee	Soil	.92	g	50	54.347826	1				AS		
177690-015		Camp, Dresser & McKee	Soil	1.34	g	50	37.313433	1				AS		
177690-017		Camp, Dresser & McKee	Soil	1.4	g	50	35.714286	1				PB		
177690-018		Camp, Dresser & McKee	Soil	1.56	g	50	32.051282	1				AS, PB		
177690-021		Camp, Dresser & McKee	Soil	1.29	g	50	38.759690	1				AS		
177690-022		Camp, Dresser & McKee	Soil	1.54	g	50	32.467532	1				AS		
QC282765	BLANK		Soil	1	g	50	50.000000	1				ICAP		
QC282766	BS		Soil	1	g	50	50.000000	1		.5	.5	ICAP		
QC282767	BSD		Soil	1	g	50	50.000000	1		.5	.5	ICAP		
QC282768	MS	of 176984-006	Soil	1.41	g	50	35.460993	1		.5	.5	ICAP		
QC282769	MSD	of 176984-006	Soil	.99	g	50	50.505051	1		.5	.5	ICAP		

Prep Chemist:



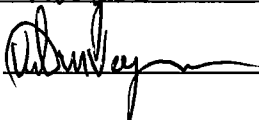
Reviewed By:



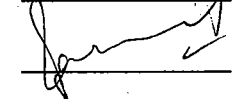
Date:

2/16/05

Relinquished By:



Received By:



Date:

2/16/05

LIMS Batch #: 99199
 Date Digested: 2/15/05
 Digested by: VV

Digestion Method

☒ EPA 3050b

☐

BK 2057

Page 74

Sample # and letter	Weight of Sample (g)	Final Volume (mL)	Filtered? (y/n)	Comments
BK OC 282765	0	50.0	Y	
BS 282766	↓			
BS 282767	↓			
176984-006 MS A	1.41			
- 006 MSO	0.99			
- 006	1.55			mess
- 022	1.23			
177490-016 A	3.46			
177684-001	1.46			comp 3 jars
10 - 002	0.99			
- 003	1.30			
- 004	1.15			
177690-004 A	1.39			
- 006	1.06			
15 - 007	1.74			
- 009	1.73			
- 010	1.49			
- 014	0.92			
- 015	1.24			
20 - 017	1.40			
- 018	1.56			
↓ - 021	1.29			
↓ - 022 A	1.54			

digestion temperature (90 - 95 degrees C)
0.5 mL of spike solution was added to all spikes

1:1 HNO₃
 concentrated HNO₃
 3mL 30% hydrogen peroxide
 concentrated HCl
☒ filtered thru' Whatman # 541

Reagent ID or LIMS # Initials / Date

95°C	VV 2/15/05
0455171*	
0455172*	
A2906-012905	
A46043- J Baker	
43297404- VWF	
A43047- J Baker	
E1566057	

W. M. Kegan 2/15/05
 Extraction Chemist / Date

Continued from page 632
 Continued on page

2/15/05
 Reviewed by / Date

MOISTURE

Percent Moisture Summary Report

Batch: 98832
 Date: 02/03/05
 Method: CLP SOW 390
 Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
176961-003	15.2721	22.8161	21.3113	80	20
176961-005	15.5424	22.3506	21.1065	82	18
176961-008	15.5242	22.7037	21.5018	83	17
176961-015	15.1656	22.6771	21.5222	85	15
176984-003	15.4032	22.5737	21.4296	84	16
176984-006	15.3349	22.3668	21.1006	82	18
176984-025	15.2848	22.3876	21.3302	85	15
176984-028	15.2976	22.7658	21.0669	77	23
177394-001	15.5757	22.2744	20.7192	77	23
177394-002	15.5034	22.0887	20.8265	81	19
177394-003	15.3820	22.2172	20.5692	76	24
177394-004	15.4467	22.3558	20.6515	75	25
177394-005	15.3197	22.6114	20.9595	77	23
177403-005	15.4995	22.8020	22.2201	92	8
QC281391	15.4180	22.5573	22.0603	93	7
of 177403-005			RPD:	1.1%	13.5%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 98832
 Date Started: 02-FEB-2005
 Batched by : Rodellio S. Manuel

Analysis : MOISTURE
 Bgroup : N/A
 Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
176961-003		Ninyo & Moore	Soil	MOISTURE	03-FEB-2005
176961-005		Ninyo & Moore	Soil	MOISTURE	03-FEB-2005
176961-008		Ninyo & Moore	Soil	MOISTURE	03-FEB-2005
176961-015		Ninyo & Moore	Soil	MOISTURE	03-FEB-2005
176984-003		Ninyo & Moore	Soil	MOISTURE	03-FEB-2005
176984-006		Ninyo & Moore	Soil	MOISTURE	03-FEB-2005
176984-025		Ninyo & Moore	Soil	MOISTURE	09-FEB-2005
176984-028		Ninyo & Moore	Soil	MOISTURE	03-FEB-2005
177394-001		Montezuma Wetlands	Soil	MOISTURE	03-FEB-2005
177394-002		Montezuma Wetlands	Soil	MOISTURE	03-FEB-2005
177394-003		Montezuma Wetlands	Soil	MOISTURE	03-FEB-2005
177394-004		Montezuma Wetlands	Soil	MOISTURE	03-FEB-2005
177394-005		Montezuma Wetlands	Soil	MOISTURE	03-FEB-2005
177403-005		Treadwell & Rollo	Soil	MOISTURE	04-FEB-2005
QC281391	SDUP	of 177403-005	Soil	MOISTURE	

2/2/05	# 98832					
Sample	D.L.	Dish #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank		11	15.5732	—	15.5732	
176961-3	A	33	15.2721	22.8161	21.3113	
	5	8	15.5424	22.3506	21.1065	
	8	18	15.5242	22.7037	21.5018	
	15	M2	15.1656	22.6771	21.5222	
176984-3		32	15.4032	22.5737	21.4296	
	6	7B	15.3349	22.3668	21.1006	
	28	20	15.2976	22.7656	21.0669	
177394-1	A-D	4	15.5757	22.2744	20.7192	COMP. 2, 3, 4, 5
	2	A	15.5034	22.0887	20.8265	
	3	B	15.3820	22.2172	20.5652	
	4	C	15.4467	22.3558	20.6515	
	5	D	15.3197	22.6114	20.9595	
177403-5	A	39	15.4995	22.8020	22.2201	COMP. 1-4
DRD ↓	5	A	15.4180	22.5573	22.0203	↓ ↓
176984-25	A	26	15.2848	22.3876	21.3302	

OVEN TEMP: 103°C
TIME IN: 4:20 P.M.
TIME OUT: 8:58 A.M.

ON: 2-3-05

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Read and Understood By

J. M. [Signature]

Signed

2-2-05

Date

646

[Signature]

Signed

2-2-05

Date

CURTIS & TOMPKINS

QA/QC
TEMPERATURE MONITOR

MONTH/YEAR Jan. 3, 05

°C	DATE	INITIAL	°C	DATE	INITIAL
103	01/03/05	ms	105 ^u	01-31-05	DSM
103 ^u	01/04/05	DSM	104 ^u	02-01-05	DSM
104 ^u	01/05/05	DSM	103 ^u	02-02-05	DSM
103 ^u	01/06/05	DSM	104 ^u	02-03-05	DSM
103 ^u	01/07/05	DSM			
103 ^u	01/10/05	DSM			
103 ^u	01/11/05	DSM			
104 ^u	01/12/05	DSM			
103 ^u	01/13/05	DSM			
103 ^u	01/14/05	DSM			
104 ^u	01/17/05	DSM			
103 ^u	01/18/05	ms			
103 ^u	01/19/05	DSM			
103 ^u	01/20/05	DSM			
103 ^u	01/21/05	DSM			
103 ^u	01/22/05	DSM			
105 ^u	01/24/05	DSM			
104 ^u	01/25/05	DSM			
104 ^u	01/26/05	DSM			
103 ^u	01/27/05	DSM			
105 ^u	01/28/05	DSM			

Percent Moisture Summary Report

Batch: 98203
 Date: 01/12/05
 Method: CLP SOW 390
 Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
176984-038	15.0787	22.5420	22.1781	95	5
176984-039	15.0145	22.6363	21.5775	86	14
177058-001	15.2538	22.4994	21.8470	91	9
177058-002	15.1985	22.2006	20.9632	82	18
177058-003	15.3248	22.4416	20.6449	75	25
177058-004	15.6115	22.9880	21.4058	79	21
177058-005	15.5493	22.1990	20.8507	80	20
177058-006	15.3174	22.6721	21.1101	79	21
177058-007	15.4987	22.3412	20.7032	76	24
177058-008	15.4204	22.2840	20.7167	77	23
177058-011	14.9000	22.4006	19.6410	63	37
177058-012	15.1915	22.2965	19.9620	67	33
177058-013	15.4052	22.5282	20.6103	73	27
177058-014	15.0037	22.4108	19.8654	66	34
177058-015	15.4326	22.4235	20.3933	71	29
177058-016	15.5327	22.9393	20.8029	71	29
177058-017	15.2427	22.4515	20.5543	74	26
QC279022	15.3017	22.2905	20.5582	75	25
of 177058-008			RPD:	2.6%	8.2%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 98203
 Date Started: 11-JAN-2005
 Batched by : Rodellio S. Manuel

Analysis : MOISTURE
 Bgroup : N/A
 Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
176984-038		Ninyo & Moore	Soil	MOISTURE	18-JAN-2005
176984-039		Ninyo & Moore	Soil	MOISTURE	18-JAN-2005
177058-001		Baseline Environme	Soil	MOISTURE	13-JAN-2005
177058-002		Baseline Environme	Soil	MOISTURE	13-JAN-2005
177058-003		Baseline Environme	Soil	MOISTURE	13-JAN-2005
177058-004		Baseline Environme	Soil	MOISTURE	13-JAN-2005
177058-005		Baseline Environme	Soil	MOISTURE	13-JAN-2005
177058-006		Baseline Environme	Soil	MOISTURE	13-JAN-2005
177058-007		Baseline Environme	Soil	MOISTURE	13-JAN-2005
177058-008		Baseline Environme	Soil	MOISTURE	13-JAN-2005
177058-011		Baseline Environme	Soil	MOISTURE	13-JAN-2005
177058-012		Baseline Environme	Soil	MOISTURE	13-JAN-2005
177058-013		Baseline Environme	Soil	MOISTURE	13-JAN-2005
177058-014		Baseline Environme	Soil	MOISTURE	13-JAN-2005
177058-015		Baseline Environme	Soil	MOISTURE	13-JAN-2005
177058-016		Baseline Environme	Soil	MOISTURE	13-JAN-2005
177058-017		Baseline Environme	Soil	MOISTURE	13-JAN-2005
QC279022	SDUP	of 177058-008	Soil	MOISTURE	

1/11/05

98203

Sample	B.L. Dig #	Pre-nt	Init. wt.	Fin. wt.	Comments
Blank	6		15.5094	—	15.5096
176984-38	A	SEU	15.0787	22.5420	22.1781
↓ 39	134		15.0145	22.6363	21.5775
177058-1	800		15.2338	22.4994	21.8470
2	973		15.1985	22.2006	20.9632
3	31		15.3248	22.4416	20.6449
4	29		15.6115	22.9880	21.4858
5	11		15.5493	22.1990	20.8507
6	000		15.3174	22.6721	21.1101
7	Hi Der		15.4987	22.3412	20.7032
8	32		15.4204	22.2840	20.7167
DMP ↓ 8	33		15.3017	22.2905	20.5582
11	T		14.9000	22.4006	19.6410
12	35		15.1915	22.2965	19.9620
13	40		15.4052	22.5282	20.6103
14	F		15.0037	22.4108	19.8654
15	106		15.4326	22.4235	20.3933
16	18		15.5327	22.9393	20.8029
↓ 17	24		15.2427	22.4515	20.5543

ALIASED 176224-9

14

15

16

ALIASED 176105-2

3

4

OVEN TEMP: 123⁰2
 TIME IN: 3:45 P.M.
 TIME OUT: 8:45 A.M.

ON: 1-12-05

Continued on Page

Read and Understood By

Signed: *[Signature]*
 Date: 1-11-05

Date

641

Signed

Date: 1/12/05

QA/QC
TEMPERATURE MONITOR

MONTH/YEAR Jan. 3, 05

[illegible]

60 PROJECT METIER A-E 200 BALANCE

Notebook No. 0752
Continued From Page 4

DATE	0.2000	1.0000	10.0000	50.0000	INITIAL	SET #
01-12-05	0.2000	1.0000	10.0001	50.0003	DSM	35298

Continued on Page /

Read and Understood By

D. Mandy
Signed

01-12-05
Date

643

Signed

Date

Percent Moisture Summary Report

Batch: 98832
 Date: 02/03/05
 Method: CLP SOW 390
 Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
176961-003	15.2721	22.8161	21.3113	80	20
176961-005	15.5424	22.3506	21.1065	82	18
176961-008	15.5242	22.7037	21.5018	83	17
176961-015	15.1656	22.6771	21.5222	85	15
176984-003	15.4032	22.5737	21.4296	84	16
176984-006	15.3349	22.3668	21.1006	82	18
176984-025	15.2848	22.3876	21.3302	85	15
176984-028	15.2976	22.7658	21.0669	77	23
177394-001	15.5757	22.2744	20.7192	77	23
177394-002	15.5034	22.0887	20.8265	81	19
177394-003	15.3820	22.2172	20.5692	76	24
177394-004	15.4467	22.3558	20.6515	75	25
177394-005	15.3197	22.6114	20.9595	77	23
177403-005	15.4995	22.8020	22.2201	92	8
QC281391	15.4180	22.5573	22.0603	93	7
of 177403-005			RPD:	1.1%	13.5%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 98832	Analysis : MOISTURE
Date Started: 02-FEB-2005	Bgroup : N/A
Batched by : Rodellio S. Manuel	Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
176961-003		Ninyo & Moore	Soil	MOISTURE	03-FEB-2005
176961-005		Ninyo & Moore	Soil	MOISTURE	03-FEB-2005
176961-008		Ninyo & Moore	Soil	MOISTURE	03-FEB-2005
176961-015		Ninyo & Moore	Soil	MOISTURE	03-FEB-2005
176984-003		Ninyo & Moore	Soil	MOISTURE	03-FEB-2005
176984-006		Ninyo & Moore	Soil	MOISTURE	03-FEB-2005
176984-025		Ninyo & Moore	Soil	MOISTURE	09-FEB-2005
176984-028		Ninyo & Moore	Soil	MOISTURE	03-FEB-2005
177394-001		Montezuma Wetlands	Soil	MOISTURE	03-FEB-2005
177394-002		Montezuma Wetlands	Soil	MOISTURE	03-FEB-2005
177394-003		Montezuma Wetlands	Soil	MOISTURE	03-FEB-2005
177394-004		Montezuma Wetlands	Soil	MOISTURE	03-FEB-2005
177394-005		Montezuma Wetlands	Soil	MOISTURE	03-FEB-2005
177403-005		Treadwell & Rollo	Soil	MOISTURE	04-FEB-2005
QC281391	SDUP	of 177403-005	Soil	MOISTURE	

2/2/05						
# 98832						
Sample	B.L.	Dish#	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank	/	11	15.5732	—	15.5732	
176961-3	A	33	15.2721	22.8161	21.3113	
	5	8	15.5424	22.3506	21.1065	
	8	18	15.5242	22.7037	21.5018	
	15	M2	15.1656	22.6771	21.5222	
176984-3		32	15.4032	22.5737	21.4296	
	6	7B	15.3349	22.3668	21.1006	
	28	20	15.2976	22.7658	21.0669	
177394-1	A-D	4	15.5757	22.2744	20.7192	COMP. 2, 3, 4, 5
	2 A	177	15.5034	22.0887	20.8265	
	3 B	46	15.3820	22.2172	20.5652	
	4 C	3	15.4467	22.3558	20.6515	
	5 D	973	15.3197	22.6114	20.9595	
177403-5	A	39	15.4995	22.8020	22.2201	COMP. 1-4
DRP ↓	5 A	40	15.4180	22.5573	22.0203	↓ ↓
176984-25	A	26	15.2848	22.3876	21.3302	

OVEN TEMP: 103°C
TIME IN: 4:20 P.M.
TIME OUT: 8:58 A.M.

ON: 2-3-05

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Read and Understood By

J. Menn

Signed

2-2-05

Date

651

Signed

2/2/05

Date

CURTIS & TOMPKINS

QA/QC
TEMPERATURE MONITOR

MONTH/YEAR Jan. 3, 05

°C	DATE	INITIAL	°C	DATE	INITIAL
103	01/03/05	ms	105 ^u	01-31-05	DSM
103 ^u	01/04/05	DSM	104 ^u	02-01-05	DSM
104 ^u	01/05/05	DSM	103 ^u	02-02-05	DSM
103 ^u	01/06/05	DSM	104 ^u	02-03-05	DSM
103 ^u	01/07/05	DSM			
103 ^u	01/10/05	DSM			
103 ^u	01/11/05	DSM			
104 ^u	01/12/05	DSM			
103 ^u	01/13/05	DSM			
103 ^u	01/14/05	DSM			
104 ^u	01/17/05	DSM			
103 ^u	01/18/05	ms			
103 ^u	01/19/05	DSM			
103 ^u	01/20/05	DSM			
103 ^u	01/21/05	DSM			
103 ^u	01/22/05	DSM			
105 ^u	01/24/05	DSM			
104 ^u	01/25/05	DSM			
104 ^u	01/26/05	DSM			
103 ^u	01/27/05	DSM			
105 ^u	01/28/05	DSM			

DATE	0.2000	1.0000	10.0000	50.0000	INITIAL	SET #
01-12-05	0.2000	1.0000	10.0000	50.0003	DSM	35298
01-13-05	0.2000	1.0001	10.0000	50.0002	DSM	35298
01-14-05	0.2001	1.0000	10.0000	50.0003	DSM	35298
01-17-05	0.2000	1.0001	10.0000	50.0003	DSM	35298
01-18-05	0.2000	1.0000	10.0001	50.0002	DSM	35298
01-19-05	0.2000	1.0000	10.0001	50.0003	DSM	35298
01-20-05	0.2001	1.0000	10.0000	50.0003	DSM	35298
01-21-05	0.2000	1.0000	10.0001	50.0001	DSM	35298
01-22-05	0.2000	1.0000	10.0000	50.0003	DSM	35298
01-24-05	0.2000	1.0000	10.0001	50.0002	DSM	35298
01-25-05	0.2001	1.0000	10.0000	50.0001	DSM	35298
01-26-05	0.2000	1.0000	10.0001	50.0002	DSM	35298
01-27-05	0.2000	1.0001	10.0000	50.0004	DSM	35298
01-28-05	0.2001	1.0000	10.0001	50.0003	DSM	35298
01-31-05	0.2000	1.0000	10.0000	50.0003	DSM	35298
02-01-05	0.2000	1.0001	10.0001	50.0002	DSM	35298
02-02-05	0.2000	1.0000	10.0000	50.0003	DSM	35298
02-03-05	0.2000	1.0001	10.0000	50.0004	DSM	35298

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Read and Understood By

D. Manning

Signed

01-12-05

Date

Signed

Date

Percent Moisture Summary Report

Batch: 99383
 Date: 02/23/05
 Method: CLP SOW 390
 Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
176984-022	15.5465	22.2067	20.9810	82	18
177784-001	15.5250	22.2187	21.3780	87	13
177784-002	15.3802	22.1636	21.1861	86	14
177803-001	15.0898	22.4106	20.6219	76	24
177803-002	15.0062	22.4503	20.7117	77	23
177803-003	15.5882	22.6993	21.2632	80	20
177803-004	15.4118	22.5598	21.2007	81	19
177804-001	15.7807	22.2102	21.0588	82	18
177804-002	15.5125	22.6760	21.4837	83	17
177804-003	15.4901	22.2887	20.9502	80	20
QC283472	15.4545	22.3361	21.3401	86	14
of 177784-001			RPD:	2.2%	14.2%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 99383
 Date Started: 23-FEB-2005
 Batched by : Rodellio S. Manuel

Analysis : MOISTURE
 Bgroup : N/A
 Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
176984-022		Ninyo & Moore	Soil	MOISTURE	23-JAN-2005
177784-001		Blasland, Bouck &	Soil	MOISTURE	23-FEB-2005
177784-002		Blasland, Bouck &	Soil	MOISTURE	23-FEB-2005
177803-001		CH2M Hill Construc	Soil	MOISTURE	23-FEB-2005
177803-002		CH2M Hill Construc	Soil	MOISTURE	23-FEB-2005
177803-003		CH2M Hill Construc	Soil	MOISTURE	23-FEB-2005
177803-004		CH2M Hill Construc	Soil	MOISTURE	23-FEB-2005
177804-001		CH2M Hill Construc	Soil	MOISTURE	23-FEB-2005
177804-002		CH2M Hill Construc	Soil	MOISTURE	23-FEB-2005
177804-003		CH2M Hill Construc	Soil	MOISTURE	23-FEB-2005
QC283472	SDUP	of 177784-001	Soil	MOISTURE	

2-22-05

99380

Sample	AL	Dish #	Tare wt.	Init. wt.	Fin. wt.	Comments
Blank	/	33	15.2964	—	15.2965	
176964	22	A 21	15.5465	22.2067	20.9810	
177784	1	18	15.5250	22.2187	21.3780	
↓	1	42	15.4545	22.3361	21.3401	
↓	2	301	15.3802	22.1636	21.1861	
177803	1	14	15.0898	22.4106	20.6219	
↓	2	16	15.0062	22.4503	20.7117	
↓	3	4	15.5482	22.6993	21.2632	
↓	4	40	15.4118	22.5598	21.2007	
177804	1	41	15.7807	22.2102	21.8588	
↓	2	37	15.5125	22.6260	21.4837	
↓	3	177	15.4901	22.2887	20.6502	

OVEN TEMP: 103°C

TIME IN: 5:00 P.M.

TIME OUT: 9:21 A.M.

ON: 2-23-05

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Read and Understood By

Signed *J. Manning*

2-22-05
656

Date

Signed

Date

CURTIS & TOMPKINS

QA/QC

TEMPERATURE MONITOR

MONTH/YEAR Jan. 3, 05

°C	DATE	INITIAL	°C	DATE	INITIAL
103	01/03/05	ms	105 ^u	01-31-05	DSM
103 ^u	01/04/05	DSM	104 ^u	02-01-05	DSM
104 ^u	01/05/05	DSM	103 ^u	02-02-05	DSM
103 ^u	01/06/05	DSM	104 ^u	02-03-05	DSM
103 ^u	01/07/05	DSM	104 ^u	02-04-05	DSM
103 ^u	01/10/05	DSM	105 ^u	02-05-05	ms
103 ^u	01/11/05	DSM	103 ^u	02-07-05	DSM
104 ^u	01/12/05	DSM	103 ^u	02-08-05	DSM
103 ^u	01/13/05	DSM	103 ^u	02-09-05	DSM
103 ^u	01/14/05	DSM	104 ^u	02-10-05	DSM
104 ^u	01/17/05	DSM	103 ^u	02-11-05	DSM
103 ^u	01/18/05	ms	103 ^u	02-12-05	DSM
103 ^u	01/19/05	DSM	103 ^u	02-14-05	DSM
103 ^u	01/20/05	DSM	103 ^u	02-15-05	DSM
103 ^u	01/21/05	DSM	103 ^u	02-16-05	ms
103 ^u	01/22/05	DSM	103 ^u	02/18/05	ms
105 ^u	01/24/05	DSM	104 ^u	02-18-05	DSM
104 ^u	01/25/05	DSM	103 ^u	02-22-05	DSM
104 ^u	01/26/05	DSM	103 ^u	02-23-05	DSM
103 ^u	01/27/05	DSM			
105 ^u	01/28/05	DSM			

DATE	0.2000	1.0000	10.0000	50.0000	INITIAL	SET #
01-12-05	0.2000	1.0000	10.0001	50.0003	DSM	35298
01-13-05	0.2000	1.0001	10.0000	50.0002	DSM	35298
01-14-05	0.2001	1.0000	10.0000	50.0003	DSM	35298
01-17-05	0.2000	1.0001	10.0000	50.0003	DSM	35298
01-18-05	0.2000	1.0000	10.0001	50.0002	DSM	35298
01-19-05	0.2000	1.0000	10.0001	50.0003	DSM	35298
01-20-05	0.2001	1.0000	10.0000	50.0003	DSM	35298
01-21-05	0.2000	1.0000	10.0001	50.0001	DSM	35298
01-22-05	0.2000	1.0000	10.0000	50.0003	DSM	35298
01-24-05	0.2000	1.0000	10.0001	50.0002	DSM	35298
01-25-05	0.2001	1.0000	10.0000	50.0001	DSM	35298
01-26-05	0.2000	1.0000	10.0001	50.0002	DSM	35298
01-27-05	0.2000	1.0001	10.0000	50.0004	DSM	35298
01-28-05	0.2001	1.0000	10.0001	50.0003	DSM	35298
01-31-05	0.2000	1.0000	10.0000	50.0003	DSM	35298
02-01-05	0.2000	1.0001	10.0001	50.0002	DSM	35298
02-02-05	0.2000	1.0000	10.0000	50.0003	DSM	35298
02-03-05	0.2000	1.0001	10.0000	50.0004	DSM	35298
02-04-05	0.2000	1.0000	10.0001	50.0003	DSM	35298
02-05-05	0.2000	1.0001	10.0001	50.0002	DSM	35298
02-07-05	0.2000	1.0000	10.0001	50.0003	DSM	35298
02-08-05	0.2000	1.0001	10.0001	50.0002	DSM	35298
02-09-05	0.2001	1.0000	10.0000	50.0003	DSM	35298
02-10-05	0.2000	1.0000	10.0001	50.0002	DSM	35298
02-11-05	0.2000	1.0001	10.0000	50.0004	DSM	35298
02-12-05	0.2001	1.0000	10.0001	50.0002	DSM	35298
02-14-05	0.2000	1.0001	10.0000	50.0002	DSM	35298
02-15-05	0.2001	1.0000	10.0001	50.0003	DSM	35298
02-16-05	0.2001	1.0001	10.0001	50.0002	DSM	35298
02-17-05	0.2000	1.0001	10.0001	50.0003	DSM	35298
02-18-05	0.2000	1.0000	10.0001	50.0003	DSM	35298
02-22-05	0.2001	1.0000	10.0001	50.0002	DSM	35298
02-23-05	0.2000	1.0001	10.0000	50.0003	DSM	35298

Continued on Page 4

Read and Understood By

[Signature]
Signed

01-12-05

Date

658

Signed

Date

Percent Moisture Summary Report

Batch: 98169
Date: 01/11/05
Method: CLP SOW 390
Analyst: RSM

Sample	Tare (g)	Wet (g)	Dry (g)	Percent Solids	Percent Moisture
176984-001	15.5097	22.2770	21.1790	84	16
176984-002	15.1846	22.3016	21.2010	85	15
176984-004	15.4883	22.3198	21.7892	92	8
176984-005	15.0474	22.2186	21.1499	85	15
176984-007	15.6245	22.2740	20.5362	74	26
176984-008	15.4410	22.5723	21.7078	88	12
176984-009	15.3608	22.4759	21.4131	85	15
176984-011	15.3021	22.3287	21.4451	87	13
176984-012	15.3225	22.7881	21.6117	84	16
176984-014	15.2257	22.1775	20.9735	83	17
176984-015	15.2000	22.0895	20.8808	82	18
176984-017	15.3431	22.6919	21.8658	89	11
176984-018	15.4591	22.6315	21.5385	85	15
176984-020	15.4925	22.1893	21.4495	89	11
176984-021	15.3985	22.2768	20.9703	81	19
176984-023	15.4209	22.4407	21.1727	82	18
176984-024	15.2823	22.4337	21.4590	86	14
176984-026	15.4315	22.7315	22.0409	91	9
176984-027	15.3243	22.2280	21.4936	89	11
176984-029	15.4089	22.4475	22.0402	94	6
QC278910	15.5038	22.4944	21.2431	82	18
of 176984-001			RPD:	2.0%	9.8%

Curtis & Tompkins Laboratories Sample Batch Report

Batch Number: 98169
 Date Started: 10-JAN-2005
 Batched by : Rodellio S. Manuel

Analysis : MOISTURE
 Bgroup : N/A
 Department : Metals

Sample	Type	Client	Matrix	Analyses	Due Date
176984-001		Ninyo & Moore	Soil	MOISTURE	17-JAN-2005
176984-002		Ninyo & Moore	Soil	MOISTURE	17-JAN-2005
176984-004		Ninyo & Moore	Soil	MOISTURE	17-JAN-2005
176984-005		Ninyo & Moore	Soil	MOISTURE	17-JAN-2005
176984-007		Ninyo & Moore	Soil	MOISTURE	17-JAN-2005
176984-008		Ninyo & Moore	Soil	MOISTURE	17-JAN-2005
176984-009		Ninyo & Moore	Soil	MOISTURE	17-JAN-2005
176984-011		Ninyo & Moore	Soil	MOISTURE	17-JAN-2005
176984-012		Ninyo & Moore	Soil	MOISTURE	17-JAN-2005
176984-014		Ninyo & Moore	Soil	MOISTURE	17-JAN-2005
176984-015		Ninyo & Moore	Soil	MOISTURE	17-JAN-2005
176984-017		Ninyo & Moore	Soil	MOISTURE	17-JAN-2005
176984-018		Ninyo & Moore	Soil	MOISTURE	17-JAN-2005
176984-020		Ninyo & Moore	Soil	MOISTURE	17-JAN-2005
176984-021		Ninyo & Moore	Soil	MOISTURE	17-JAN-2005
176984-023		Ninyo & Moore	Soil	MOISTURE	17-JAN-2005
176984-024		Ninyo & Moore	Soil	MOISTURE	17-JAN-2005
176984-026		Ninyo & Moore	Soil	MOISTURE	17-JAN-2005
176984-027		Ninyo & Moore	Soil	MOISTURE	17-JAN-2005
176984-029		Ninyo & Moore	Soil	MOISTURE	17-JAN-2005
QC278910	SDUP	of 176984-001	Soil	MOISTURE	

1/10/05			# 98169		
Sample	B.L. Dig#	Tenent.	Init. wt.	Fin. wt.	Comments
Blank	/	80	15.2315	—	15.2317
176984-1	A	21	15.5097	22.2720	21.1790
DPD	1	177	15.5038	22.4944	21.2431
	2	35	15.1846	22.3016	21.2010
	4	Hi Del	15.4883	22.3198	21.7892
	5	134	15.1474	22.2186	21.1299
	7	1976	15.6245	22.2740	20.5362
	8	101	15.4210	22.5723	21.7878
	9	30	15.3608	22.4759	21.4131
	11	20	15.3021	22.3287	21.4451
	12	000	15.3225	22.7881	21.6117
	14	DP	15.2257	22.1775	20.9735
	15	973	15.2000	22.0895	20.8808
	17	34	15.3431	22.6919	21.8658
	18	3	15.4591	22.6315	21.5385
	20	39	15.4925	22.1893	21.4295
	21	141	15.3985	22.2768	20.9703
	23	32	15.4209	22.4407	21.1727
	24	26	15.2823	22.4337	21.4598
	26	42	15.4315	22.7315	22.0409
	27	31	15.3243	22.2280	21.4936
↓ 29	↓ 37	15.4089	22.4475	22.0402	

OVEN TEMP: 113°C

TIME IN: 11:35 A.M.

TIME OUT: 8:40 A.M.

ON: 1-11-05

Continued on Page

Read and Understood By

D. M. [Signature]

Signed

1-10-05

Date

636

Signed

Date

QA/QC
TEMPERATURE MONITOR

MONTH/YEAR Jan. 3, 05

[illegible]

PROJECT METTLER A-E NO BALANCE

Notebook No.

0752

59

Continued From Page

0

DATE	0.2000	1.0000	10.0000	50.0000	INITIAL	#
11-22-04	0.2001	1.0000	10.0000	50.0003	DSM	35298
11-23-04	0.2000	1.0000	10.0001	50.0004	DSM	35298
11-24-04	0.2000	1.0001	10.0000	50.0004	DSM	35298
11-29-04	0.2000	0.9999	10.0000	50.0003	PPS	35298
11-30-04	0.2001	1.0000	10.0000	50.0002	DSM	35298
12-1-04	0.1999	1.0001	10.0000	50.0004	DSM	35298
12-2-04	0.2000	1.0000	10.0001	50.0003	DSM	35298
12-3-04	0.2000	1.0001	10.0000	50.0003	DSM	35298
12-6-04	0.2001	1.0000	10.0001	50.0002	DSM	35298
12-7-04	0.2000	1.0001	10.0000	50.0004	DSM	35298
12-8-04	0.2000	1.0000	10.0001	50.0003	DSM	35298
12-9-04	0.2001	1.0000	10.0000	50.0003	DSM	35298
12-10-04	0.2000	1.0001	10.0001	50.0004	DSM	35298
12-13-04	0.2000	1.0000	10.0001	50.0002	DSM	35298
12-14-04	0.2001	1.0001	10.0000	50.0003	DSM	35298
12-15-04	0.2000	1.0000	10.0000	50.0004	DSM	35298
12-16-04	0.2000	1.0001	10.0000	50.0002	DSM	35298
12-17-04	0.1999	1.0000	10.0001	50.0003	DSM	35298
12-19-04	0.2000	1.0000	10.0001	50.0004	PPS	35298
12-20-04	0.2000	1.0001	10.0000	50.0003	DSM	35298
12-21-04	0.2001	1.0000	10.0000	50.0004	DSM	35298
12-22-04	0.2000	1.0001	10.0000	50.0003	DSM	35298
12-23-04	0.2000	1.0000	10.0000	50.0003	DSM	35298
12/28/04	0.2000	1.0000	10.0000	50.0002	MS	35298
12/28/04	0.2000	1.0000	10.0001	50.0003	DSM	35298
12/29/04	0.2001	1.0000	10.0000	50.0002	DSM	35298
12/30/04	0.2000	1.0001	10.0001	50.0003	DSM	35298
01/03/05	0.2000	1.0000	10.0001	50.0002	MS	35298
01/04/05	0.2000	1.0001	10.0000	50.0003	DSM	35298
01/05/05	0.2001	1.0000	10.0001	50.0002	DSM	35298
01/06/05	0.2000	1.0000	10.0000	50.0004	DSM	35298
01/07/05	0.1999	1.0000	10.0001	50.0003	DSM	35298
01/10/05	0.2000	1.0000	10.0000	50.0004	DSM	35298
01/11/05	0.2000	1.0001	10.0001	50.0003	DSM	35298

Read and Understood By

D. Mann

Signed

11-22-04

Date

638

Signed

Date

Continued on Page

APPENDIX C
DATA VALIDATION REPORT

Aquatus Environmental

731 Talbot Avenue, Albany, CA 94706
Phone 510-527-6299 Fax 510-527-3009
www.aquatus.com

February 9, 2005

Mr. Kristopher M. Larson
Project Environmental Geologist
Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

SUBJECT: Data Validation Report, City of Emeryville, Soil Sample B16-S-3.5-1

Dear Mr. Larson:

This letter report summarizes the data validation results (QC level IV) for sample B16-S-3.5-1. The sample was analyzed for chromium and lead (EPA 6010B); TPH-diesel and TPH-motor oil (EPA 8015B); and polynuclear aromatic hydrocarbons (PAHs) (EPA 8270). Curtis and Tompkins, Ltd., in Berkeley, CA, performed the analyses.

The data validation procedures followed Environmental Protection Agency (EPA) guidelines, which include the following:

- Requirements in specific analytical method protocols
- Contract Laboratory Program National Functional Guidelines for data review (where appropriate)
- Guidance for data verification and validation, and data quality indicators
- Region 9 guidance for laboratory documentation and data evaluation/validation guidance.

My review of the sample data found the results to be of acceptable quality, with no limitations for use. The TPH-diesel result (3.9 mg/Kg) was assigned an "H" qualifier based on the information provided in the laboratory report and a review of the sample chromatogram. The concentration reported as diesel is likely motor oil that eluted in the diesel range.

A description of the quality control parameters that were reviewed is provided in the following section. The data validation results for the sample are summarized in the forms in Attachment A.

QUALITY CONTROL (QC) REVIEW PARAMETERS

Method Holding Time

EPA analytical methods have prescribed holding times. The method holding time is the maximum amount of time after collection that a sample may be held prior to extraction and/or analysis. Sample integrity is questionable for samples extracted and/or analyzed outside the

prescribed holding time due to degradation and/or volatilization of the sample. The validation process identifies exceeded holding times and evaluates the quality of samples processed outside of holding time.

Blank Samples

Blanks provide a measure of various cross-contamination sources, background levels in reagents, and other potential error that can be introduced from sources other than the sample. Blanks evaluated for this project include:

Method Blank. A method blank is a reagent soil sample that analyzed to evaluate potential sources of contamination from laboratory procedures (e.g. contaminated reagents, improperly cleaned laboratory equipment), or persistent contamination due to presence of certain compounds in the ambient laboratory environment. A method blank is required for each analytical batch.

Calibration Blanks (metals only). An initial calibration blank must be analyzed within a certain sequence order during the analytical procedures. A continuing calibration blank must be analyzed within a certain sequence order and frequency during the analytical procedures. The blanks are used to evaluate potential contamination introduced during the calibration process for metals.

For the data validation process, blank results are checked for the presence of target analytes. If detected compounds are present, their effect on associated sample data is evaluated.

Initial Calibration

Calibration of an analytical instrument is the delineation of the relationship between the response of the instrument and the amount or concentration of an analyte introduced into the instrument. In order to perform quantitative measurements, this relationship must be established prior to the analysis of environmental samples. The lowest calibration standard established is the practical quantitation limit (PQL).

Initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of the analytical sequence, and of producing a linear calibration curve. The initial calibration involves the analysis of standards containing target analytes at various concentrations over the working range of the instrument (requirements differ depending on the method). For example, per EPA Method 8000, calibration linearity is considered acceptable when the relative standard deviation (RSD) of the average calibration or response factors does not exceed analytical method requirements (i.e., 20%).

Second source standards were also run for the initial calibrations for all analyses. Second source standards are routinely used to validate the technique and methodology of primary calibration

standards. They are purchased or prepared from a different source than the primary standards, and are analyzed immediately following primary calibration. National Institute of Standards and Technology-traceable reference materials are used when available.

A contract required quantitation limit check standard (CRI) was also run for the metals initial calibration. A CRI must be prepared and analyzed at the beginning and end of each sample analysis run, and for every 20 samples in between. The CRI verifies the initial calibration near the PQL. Calibration results should be within laboratory-established control limits for the percent difference between the true value of the standard and the value obtained during the calibration analysis.

Continuing Calibration Verification

The calibration relationship established during the initial calibration must be verified at periodic intervals. Generally, the calibration must be verified at the beginning of each 12-hour analytical shift. The difference between the response for an analyte in the calibration verification and the initial calibration must be within laboratory-established control limits for the initial calibration to remain valid.

Matrix Spikes

Matrix spikes (MS) and matrix spike duplicates (MSD) are prepared by adding a known mass of a target analyte to a specified amount of environmental sample for which an independent estimate of the target analyte concentration is known. MS and MSD results are used to evaluate the effectiveness of sample extraction or digestion procedures, and to evaluate the presence of matrix interference. Matrix interference is the effect of the sample matrix on the analysis, which may partially or completely mask the response of the analytical instrumentation to the target analyte(s). Matrix interference may affect the accuracy of the extraction and/or analysis procedures to varying degrees, and may bias sample results high or low. Matrix spike data are expressed as percent recovery. A MS analysis should be performed with each analytical batch; the laboratory may perform a LCSD in lieu of the MS analysis. MS and MSD recoveries are reviewed for compliance with laboratory-established control limits to evaluate accuracy and matrix effects.

Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control sample duplicates (LCSD) are prepared exactly like MSs and MSDs, except a clean control matrix, such as clean sand is used. LCS and LCSD recoveries are reviewed for compliance with laboratory-established control limits, and are used to evaluate the accuracy of the analytical procedures, independent of matrix effects. Typically, control limits for the LCS/LCSD are more stringent than control limits for the MS/MSD.

Duplicate Analyses

Laboratory duplicates included a MS/MSD analysis, which are a measure of analytical precision. Duplicates are evaluated by comparing relative percent differences (RPDs) to laboratory control limits.

Surrogate Compounds (organic compounds only)

Surrogates are organic compounds that are similar to the target analytes in terms of their chemical structures and response to the analytical instrumentation, but are not usually detected in environmental samples. Surrogates are added to each environmental and laboratory QC sample to monitor the effect of the matrix on the accuracy of the extraction and/or analysis. Results of surrogate analyses are reported in terms of percent recovery. The recoveries are compared to laboratory-established control limits to evaluate accuracy on a sample-specific basis.

Internal Standards (SVOCs only)

Initial standards are generally used for mass spectral analyses. Internal standards function similarly to surrogate compounds, however they are used to evaluate whether mass spectral sensitivity and response are stable during the analysis. Per the analytical methods, internal standard area counts should not vary by more than a factor of two from the associated calibration standard. In addition, the retention time of the internal standard should not vary by more than 30 seconds from the retention time of the associated calibration standard. Curtis and Tompkins uses more stringent control limits for retention time than required by the methodology.

ICP Interference Check Sample (metals only)

The ICP interference check sample is analyzed to verify the absence of spectral interferences. It contains similar concentrations of the major components of samples that are analyzed on a continuing basis to verify the absence of effects at the wavelengths selected. The interference check sample must be analyzed at the beginning and end of each sample run and with every twenty analytical samples. If the check sample confirms an interference that is $\geq 20\%$ of the analyte concentration, the analyte must be determined using (1) analytical and background correction wavelengths free of the interference, (2) by an alternative wavelength, or (3) by another documented test procedure.

ICP Serial Dilution (metals only)

If the analyte concentration is sufficiently high (minimally, a factor of 10 above the instrument detection limit after dilution), an ICP serial dilution should be performed to evaluate the presence of chemical or physical interferences caused by the sample matrix. The analysis of a 1:5 dilution should agree within 10% of the original determination.

Target Compound Identification

Qualitative criteria for compound identification have been established to minimize the number of false positives (reporting a compound as present when it is not) and false negatives (not reporting a compound that is present). Target compound identification consists of the following checks:

Organic Analyses. The laboratory is required to establish retention time windows in compliance with the analytical methods to compensate for minor shifts in absolute retention times as a result of sample loadings and normal chromatographic variability. The data validation reviews laboratory procedures for establishing retention time windows, and checks detected analytes to make sure they fall within established windows. Also evaluated are potential cross-contamination of samples due to carryover (e.g., high concentration samples preceding low concentration samples). Sample chromatograms are reviewed to verify that major peaks are identified correctly (and were consistent with the standard if applicable). Second column confirmation is also relevant and is discussed under Raw Data Evaluation.

Metals Analyses. Metals results are verified using replicate inductively coupled plasma (ICP) signals for each analyte. For each sample, RSDs for replicate ICP signals are compared to laboratory-established control limits.

Raw Data Evaluation

Raw data are reviewed for correct quantification of target analytes. Compound quantitation must be calculated according to the equations provided in the method. Raw data evaluation consists of the following checks:

Organics

- Review of sample preparation logs, chromatograms and reported positive sample results and quantitation limits. Recalculation of sample results using raw instrument data, sample digestion, dilution, and percent moisture data.
- Verification that the correct numbers of calibration standards were used.
- Review of adequacy of second column confirmation (i.e., analyte eluted on both columns).
- Evaluation of consistency between sample and standard chromatogram peaks.

Metals

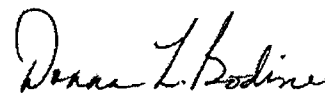
- Verification that analyses were run in correct sequence order and at proper frequency (e.g., continuing calibration verification).
- Verification of correct calculation of sample results reported by the laboratory using raw instrument, soil digestion, dilution and percent moisture data.

Petroleum Hydrocarbon Identification (fuels only)

False positive petroleum hydrocarbon identification refers to hydrocarbons that eluted (either fully or partially) within the boiling range of the fuel specified for analysis (e.g., gasoline, diesel, motor oil), but did not match the laboratory standard. In the analytical data report, the laboratory assigns qualifiers to results showing heavier or lighter hydrocarbons than the specified fuel, or to results with generally different chromatographic patterns than the laboratory fuel standard. Depending on the laboratory, weathered fuels may be flagged as not matching the standard, which is fresh fuel. The data validation process assigns the "H" qualifier to results with laboratory qualifiers indicating the results are not completely representative of the fuel specified for analysis. Sample and standard chromatograms should be examined in detail for better identification of fuels or non-petroleum hydrocarbons that may be present. The "H" qualifier is not a standard EPA qualifier.

If you have any questions about this report, please contact me at 510-527-6299 or dbodine@aquatus.com.

Sincerely,
AQUATUS ENVIRONMENTAL



Donna L. Bodine, Principal

ATTACHMENT A
DATA VALIDATION SUMMARY FORMS FOR B16-S-3.5-1

Aquatus Environmental

731 Talbot Avenue, Albany, CA 94706
Phone 510-527-6299 Fax 510-527-3009
www.aquatus.com

February 18, 2005

Mr. Kristopher M. Larson
Project Environmental Geologist
Ninyo & Moore
1956 Webster Street, Suite 400
Oakland, CA 94612

SUBJECT: Data Validation Report, City of Emeryville, Soil Samples B5-S-2.0-1 and B6-S-3.5-1

Dear Mr. Larson:

This letter report summarizes the data validation results (QC level IV) for soil samples B5-S-2.0-1 and B6-S-3.5-1. The samples were analyzed for chromium and lead (EPA 6010B); TPH-diesel and TPH-motor oil (EPA 8015B); and polynuclear aromatic hydrocarbons (PAHs) (EPA 8270). Sample B6-S-3.5-1 was also analyzed for polychlorinated biphenyls (PCBs) (EPA 8082). Curtis and Tompkins, Ltd., in Berkeley, CA, performed the analyses.

The data validation procedures followed Federal and State Environmental Protection Agency (EPA) guidelines, which include the following:

- Requirements in specific analytical method protocols
- Contract Laboratory Program National Functional Guidelines for data review (where appropriate)
- Guidance for data verification and validation, and data quality indicators
- Region 9 guidance for laboratory documentation and data evaluation/validation guidance.

My review of the sample data found the results to be of acceptable quality, with no limitations for use, with the exception of the TPH results. The laboratory indicated that the TPH-diesel result for both samples did not resemble the diesel standard and that heavier hydrocarbons contributed to the result. In addition, the motor oil result for B5-S-2.0-1 had a contribution from lighter hydrocarbons. As such, these results were assigned an "H" qualifier.

A description of the quality control parameters that were reviewed for the data validation is provided in the following section. The data validation results for the two soil samples are summarized in the forms in Attachment A.

QUALITY CONTROL (QC) REVIEW PARAMETERS

Method Holding Time

EPA analytical methods have prescribed holding times. The method holding time is the maximum amount of time after collection that a sample may be held prior to extraction and/or analysis. Sample integrity is questionable for samples extracted and/or analyzed outside the prescribed holding time due to degradation and/or volatilization of the sample. The validation process identifies exceeded holding times and evaluates the quality of samples processed outside of holding time.

Blank Samples

Blanks provide a measure of various cross-contamination sources, background levels in reagents, and other potential error that can be introduced from sources other than the sample. Blanks evaluated for this project include:

Method Blank. A method blank is a reagent soil sample that analyzed to evaluate potential sources of contamination from laboratory procedures (e.g. contaminated reagents, improperly cleaned laboratory equipment), or persistent contamination due to presence of certain compounds in the ambient laboratory environment. A method blank is required for each analytical batch.

Calibration Blanks (metals only). An initial calibration blank (ICB) must be analyzed within a certain sequence order during the analytical procedures. A continuing calibration blank (CCB) must be analyzed within a certain sequence order and frequency during the analytical procedures. The blanks are used to evaluate potential contamination introduced during the calibration process for metals.

For the data validation process, blank results are checked for the presence of target analytes. If detected compounds are present, their effect on associated sample data is evaluated.

Initial Calibration

Calibration of an analytical instrument is the delineation of the relationship between the response of the instrument and the amount or concentration of an analyte introduced into the instrument. In order to perform quantitative measurements, this relationship must be established prior to the analysis of environmental samples. The lowest calibration standard established is the practical quantitation limit (PQL).

Initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of the analytical sequence, and of producing a linear calibration curve. The initial calibration involves the analysis of standards containing target analytes at various

concentrations over the working range of the instrument (requirements differ depending on the method). For example, per EPA Method 8000, calibration linearity is considered acceptable when the relative standard deviation (RSD) of the average calibration or response factors does not exceed analytical method requirements (i.e., 20%).

Second source standards were also run for the initial calibrations for all analyses. Second source standards are routinely used to validate the technique and methodology of primary calibration standards. They are purchased or prepared from a different source than the primary standards, and are analyzed immediately following primary calibration. National Institute of Standards and Technology-traceable reference materials are used when available.

A contract required quantitation limit check standard (CRI) was also run for the metals initial calibration. A CRI must be prepared and analyzed at the beginning and end of each sample analysis run, and for every 20 samples in between. The CRI verifies the initial calibration near the PQL. Calibration results should be within laboratory-established control limits for the percent difference between the true value of the standard and the value obtained during the calibration analysis.

Continuing Calibration Verification

The calibration relationship established during the initial calibration must be verified at periodic intervals. Generally, the calibration must be verified at the beginning of each 12-hour analytical shift. The difference between the response of an analyte in the calibration verification and the initial calibration must be within laboratory-established control limits for the initial calibration to remain valid.

Matrix Spikes

Matrix spikes (MS) and matrix spike duplicates (MSD) are prepared by adding a known mass of a target analyte to a specified amount of environmental sample for which an independent estimate of the target analyte concentration is known. MS and MSD results are used to evaluate the effectiveness of sample extraction or digestion procedures, and to evaluate the presence of matrix interference. Matrix interference is the effect of the sample matrix on the analysis, which may partially or completely mask the response of the analytical instrumentation to the target analyte(s). Matrix interference may affect the accuracy of the extraction and/or analysis procedures to varying degrees, and may bias sample results high or low. Matrix spike data are expressed as percent recovery. A MS analysis should be performed with each analytical batch; the laboratory may perform a LCSD in lieu of the MS analysis. MS and MSD recoveries are reviewed for compliance with laboratory-established control limits to evaluate accuracy and matrix effects.

Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control sample duplicates (LCSD) are prepared exactly like MSs and MSDs, except a clean control matrix, such as clean sand is used. LCS and

LCSD recoveries are reviewed for compliance with laboratory-established control limits, and are used to evaluate the accuracy of the analytical procedures, independent of matrix effects. Typically, control limits for the LCS/LCSD are more stringent than control limits for the MS/MSD.

Duplicate Analyses

Laboratory duplicates included MS/MSD analyses for all analysis, and a LCS/LCSD analysis for metals. Duplicates measure analytical precision and are evaluated by comparing relative percent differences (RPDs) to laboratory control limits.

Surrogate Compounds (organic compounds only)

Surrogates are organic compounds that are similar to the target analytes in terms of their chemical structures and response to the analytical instrumentation, but are not usually detected in environmental samples. Surrogates are added to each environmental and laboratory QC sample to monitor the effect of the matrix on the accuracy of the extraction and/or analysis. Results of surrogate analyses are reported as percent recovery. The recoveries are compared to laboratory-established control limits to evaluate accuracy on a sample-specific basis.

Internal Standards (SVOCs only)

Initial standards are generally used for mass spectral analyses. Internal standards function similarly to surrogate compounds, however they are used to evaluate whether mass spectral sensitivity and response are stable during the analysis. Per the analytical methods, internal standard area counts should not vary by more than a factor of two from the associated calibration standard. In addition, the retention time of the internal standard should not vary by more than 30 seconds from the retention time of the associated calibration standard. Curtis and Tompkins uses more stringent control limits for retention time than required by the methodology.

ICP Interference Check Sample (metals only)

The ICP interference check sample is analyzed to verify the absence of spectral interferences. It contains similar concentrations of the major components of samples that are analyzed on a continuing basis to verify the absence of effects at the wavelengths selected. The interference check sample must be analyzed at the beginning and end of each sample run and with every twenty analytical samples. If the check sample confirms an interference that is greater than 20% of the analyte concentration, the analyte must be determined using (1) analytical and background correction wavelengths free of the interference, (2) by an alternative wavelength, or (3) by another documented test procedure.

ICP Serial Dilution (metals only)

If the analyte concentration is sufficiently high (minimally, a factor of 10 above the instrument detection limit after dilution), an ICP serial dilution should be performed to evaluate the

presence of chemical or physical interferences caused by the sample matrix. The analysis of a 1:5 dilution should agree within 10% of the original determination.

Post Digestion Spikes (metals only)

Post digestion spikes are sometimes performed by the laboratory to evaluate matrix effects. Spiked analytes are added after completion of sample digestion procedures (while for matrix spikes, analytes are added prior to digestion). As with matrix spikes, post digestion spike recoveries must fall within established laboratory control limits.

Target Compound Identification

Qualitative criteria for compound identification have been established to minimize the number of false positives (reporting a compound as present when it is not) and false negatives (not reporting a compound that is present). Target compound identification consists of the following checks:

Organic Analyses. The laboratory is required to establish retention time windows in compliance with the analytical methods to compensate for minor shifts in absolute retention times as a result of sample loadings and normal chromatographic variability. The data validation reviews laboratory procedures for establishing retention time windows, and checks detected analytes to make sure they fall within established windows. Also evaluated are potential cross-contamination of samples due to carryover (e.g., high concentration samples preceding low concentration samples). Sample chromatograms are reviewed to verify that major peaks are identified correctly (and were consistent with the standard if applicable). Second column confirmation is also relevant and is discussed under Raw Data Evaluation.

Metals Analyses. Metals results are verified using replicate inductively coupled plasma (ICP) signals for each analyte. For each sample, RSDs for replicate ICP signals are compared to laboratory-established control limits.

Raw Data Evaluation

Raw data are reviewed for correct quantification of target analytes. Compound quantitation must be calculated according to the equations provided in the method. Raw data evaluation consists of the following checks:

Organics

- Review of sample preparation logs, chromatograms and reported positive sample results and quantitation limits. Recalculation of sample results using raw instrument data, sample digestion, dilution, and percent moisture data.

- Verification that the correct numbers of calibration standards were used (and correct mixtures were used for Aroclors).
- For Aroclors, verification that calibration factors were determined for each selected peak.
- Review of adequacy of second column confirmation (i.e., analyte eluted on both columns).

Metals

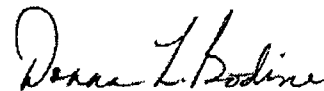
- Verification that analyses were run in correct sequence order and at proper frequency (e.g., continuing calibration verification).
- Verification of correct calculation of sample results reported by the laboratory using raw instrument, soil digestion, dilution and percent moisture data.

Petroleum Hydrocarbon Identification (fuels only)

False positive petroleum hydrocarbon identification refers to hydrocarbons that eluted (either fully or partially) within the boiling range of the fuel specified for analysis (e.g., gasoline, diesel, motor oil), but did not match the laboratory standard. In the analytical data report, the laboratory assigns qualifiers to results showing heavier or lighter hydrocarbons than the specified fuel, or to results with generally different chromatographic patterns than the laboratory fuel standard. Depending on the laboratory, weathered fuels may be flagged as not matching the standard, which is fresh fuel. The data validation process assigns the "H" qualifier to results with laboratory qualifiers indicating the results are not completely representative of the fuel specified for analysis. Sample and standard chromatograms should be examined in detail for better identification of fuels or non-petroleum hydrocarbons that may be present. The "H" qualifier is not a standard EPA qualifier.

If you have any questions about this report, please contact me at 510-527-6299 or dbodine@aquatus.com.

Sincerely,
AQUATUS ENVIRONMENTAL



Donna L. Bodine, Principal

ATTACHMENT A
DATA VALIDATION SUMMARY FORMS FOR
B5-S-2.0-1 and B6-S-3.5-1

CLIENT/PROJECT Ninyo & Moore/ City of Emeryville	LAB Curtis & Tompkins	PACKAGE ID 176983	METHOD EPA 6010B: Pb, Cr	MATRIX Soil	# SAMPLES 2	DATE 2/15/05
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METHOD HOLDING TIME				BLANKS				
Sample Date	HT	Exceedances	Qualifier	Type of Blank	Prep Date	Analysis Date	Detected Analyte & Concentration	Qualifier
1/4/05	6 mos analysis			Method	1/7/05	1/7/05	None	None
Preparation Date: 1/7/05		N/A	N/A	ICB		1/7/05 7:23	None	None
Analysis Date: 1/7/05		None	None	CCB (before smp)		1/7/05 8:52	None	None
				CCB (after smp)		1/7/05 9:53	None	None

INITIAL CALIBRATION				Sample ID: B5-S-2.0-1 MATRIX SPIKES			ICP INTERFERENCE CHECK SAMPLE
Control Limits: Initial Dmax=5%, Second Source Dmax=10%, CRI Dmax=50%				Prep Date: 1/7/05 Analysis Date: 1/7/05			Control Limits: Sol A: 50%-120%
Parameter Date/Time %D /R2 Out of Control/Qualifier				Control Limits: Cr 60%-120% RPD 20%; Pb 47%-126% RPD 28%			Results: Sol AB: Dmax = 20%
Initial	1/7/05 7:12	1%-2%	None	Recovery	RPD	Out of Control/Qualifier:	Solution A 93%-110%
Second Source	1/7/05 7:16	1%	None	85%-88%	1%-3%	None	Solution AB = 3%-10% (run before and after smp)
CRI	1/7/05 7:27	2%, 11%	None	Notes: None			Qualifier None

CONTINUING CALIBRATION			LABORATORY CONTROL SAMPLES			SAMPLES REVIEWED & NOTES
Control Limits: Dmax=10%			Prep Date: 1/7/05		Analysis Date: 1/7/05	Sample B5-S-2.0-1 Analyzed 1/7/05 8:25 ; B6-S-3.5-1 Analyzed 1/7/05 9:09
Analysis Date/Time	%D	Out of Control/Qualifier	Control Limits: 80%-120%, RPD 20%			
Before smp 1/7/05 8:44	2%	None	Recovery	RPD	Out of Control/Qualifier	
			98%-99%	1%	None	
After smp 1/7/05 9:49	2%, 3%	None				

OTHER QC DATA/RAW DATA EVALUATION						
Serial Dilution Results. %Dmax: 10%. Results: 1% (sample used was 176983-001) Post Digestion Spike Limits 75%-125%. Results: 87%-91						
Criteria: %RSDmax for replicate ICP signals = 20% (for environmental and QC samples, but not blanks). Verify that analyses (e.g., blanks, CCVs) were run in correct order and @ proper frequency. Check soil digestion log and raw data to verify correct sample concentration. Results: %RSD for sample = all within control limits, except blanks- OK. Analyses run in proper sequence and at correct frequency. Sample concentrations calculated correctly.						

CLIENT/PROJECT Ninyo & Moore/ City of Emeryville	LAB Curtis & Tompkins	PACKAGE ID 176983	METHOD EPA 8082 PCBs	MATRIX Soil	# SAMPLES 1	DATE 2/15/05
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METHOD HOLDING TIME				BLANKS				
Sample Date	HT 14-day extraction 40-d analysis	Exceedences	Qualifier	Type of Blank	Extraction Date	Analysis Date	Detected Analyte & Concentration	Qualifier
1/5/05								
Extraction Date: 1/11/05		None	None	Method	1/11/05	1/12/05	None	None
Analysis Date: 1/18/05		None	None					

LABORATORY CONTROL SAMPLES			Sample: B6-S-3.5-1		MATRIX SPIKES		SURROGATES	
Spikes & Control Limits RPD	Aroclor 1254= 69% - 143%	Extraction Date 1/11/05	Analysis Date 1/13/05	Spikes & Control Limits RPD	Aroclor 1254= 62% - 160% RPD = 39%	Extraction Date 1/11/05	Analysis Date 1/20/05	Spikes & Control Limits TCMX = 62% - 140% Decachlorobiphenyl (DCBP) = 48% - 149%
	No LCSD							
Sample Recoveries and RPDs 94%				Sample Recoveries and RPDs 120%, 106% RPD 13%				Sample Recoveries 76%-154%
Recoveries/RPDs Outside Data Quality Objectives None				Recoveries/ RPDs Outside Data Quality Objectives None				Recoveries Outside Data Quality Objectives DCBP on MS = 154%
Qualifier None				Qualifier None				Qualifier None

SAMPLES REVIEWED/ NOTES & COMMENTS:

B6-S-3.5-1 (176983-002) Analyzed 1/14/05 10:05

CLIENT/PROJECT Ninyo & Moore/ City of Emeryville	LAB Curtis & Tompkins	PACKAGE ID 176983	METHOD EPA 8082 PCBs	MATRIX Soil	# SAMPLES 1	PAGE 2
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INITIAL CALIBRATION			TARGET COMPOUND IDENTIFICATION AND RAW DATA EVALUATION															
<p>Control Limits: %RSDmax = 20%, Second Source %Dmax = 15%</p> <table><thead><tr><th>Analysis Date/Time</th><th>%RSD</th><th>Out of Control/Qualifier</th></tr></thead><tbody><tr><td>1/18/05 00:23</td><td>Aroclor 1016 and 1260: 8%-20%</td><td>None</td></tr><tr><td>1/18/05 7:01</td><td>Aroclor 1254: 0%</td><td>None</td></tr><tr><td>Second Source 1/18/05</td><td>9%-10%</td><td>None</td></tr></tbody></table>			Analysis Date/Time	%RSD	Out of Control/Qualifier	1/18/05 00:23	Aroclor 1016 and 1260: 8%-20%	None	1/18/05 7:01	Aroclor 1254: 0%	None	Second Source 1/18/05	9%-10%	None	<p>Evaluation Criteria:</p> <p>Initial Calibration: A mixture of Aroclor 1016 and 1260 at 5 concentrations. Calibration factors must be determined for each peak selected.</p> <p>Sample detections: Retention time windows are determined for 3-5 peaks. Retention times for reported compounds, matrix spikes and surrogates must be within established retention time windows. Check consistency between sample and standard chromatograms (for detects). Check that analytes reported as detected eluted on both columns.</p>			
Analysis Date/Time	%RSD	Out of Control/Qualifier																
1/18/05 00:23	Aroclor 1016 and 1260: 8%-20%	None																
1/18/05 7:01	Aroclor 1254: 0%	None																
Second Source 1/18/05	9%-10%	None																
CONTINUING CALIBRATION																		
<p>Control Limits: Dmax = 15% for Channel A and Channel B</p> <table><thead><tr><th>Analysis Date/Time</th><th>%D</th><th>Out of Control/Qualifier</th></tr></thead><tbody><tr><td>1/18/05 4:03 (Aroclor 1016/1260 and TCMX)</td><td>2% - 10%</td><td>None</td></tr><tr><td>1/18/05 4:31 (Aroclor 1254)</td><td>6%-12%</td><td>None</td></tr><tr><td>1/18/05 13:56 (Aroclor 1016/1260 and TCMX)</td><td>4% -19%</td><td>Channel B TCMX = 19% (see additional notes and comments)</td></tr><tr><td>1/18/05 14:53(Aroclor 1254)</td><td>4% - 13%</td><td>None</td></tr></tbody></table>			Analysis Date/Time	%D	Out of Control/Qualifier	1/18/05 4:03 (Aroclor 1016/1260 and TCMX)	2% - 10%	None	1/18/05 4:31 (Aroclor 1254)	6%-12%	None	1/18/05 13:56 (Aroclor 1016/1260 and TCMX)	4% -19%	Channel B TCMX = 19% (see additional notes and comments)	1/18/05 14:53(Aroclor 1254)	4% - 13%	None	<p>Results:</p> <p>Initial calibration: 7 standards used. Calibration factors were determined for each selected peak. Single pattern standards are run if the Aroclor appears to be present based on the 1016/1260 mixed standard.</p> <p>Sample detections: Retention times determined for 5 peaks. Retention time window is 3 seconds for each peak. Sample results are ND.</p>
Analysis Date/Time	%D	Out of Control/Qualifier																
1/18/05 4:03 (Aroclor 1016/1260 and TCMX)	2% - 10%	None																
1/18/05 4:31 (Aroclor 1254)	6%-12%	None																
1/18/05 13:56 (Aroclor 1016/1260 and TCMX)	4% -19%	Channel B TCMX = 19% (see additional notes and comments)																
1/18/05 14:53(Aroclor 1254)	4% - 13%	None																
ADDITIONAL NOTES & COMMENTS																		
Continuing calibration: No qualification because Channel A was used for the surrogate.																		

CLIENT/PROJECT Ninyo & Moore/ City of Emeryville	LAB Curtis & Tompkins	PACKAGE ID 176983	METHOD EPA 8270 SVOCs	MATRIX Soil	# SAMPLES 2	DATE 2/15/05
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METHOD HOLDING TIME				BLANKS				
Sample Date	HT 14-day extraction 40-d analysis	Exceedences	Qualifier	Type of Blank	Extraction Date	Analysis Date	Detected Analyte & Concentration	Qualifier
1/5/05								
Extraction Date: 1/12/05		None	None	Method	1/12/05	1/12/05	None	None
Analysis Date: 1/13/05, 1/14/05		None	None					

LABORATORY CONTROL SAMPLES				MATRIX SPIKES			SURROGATES	
Spikes & Control Limits RPD	Acenaphthene = 47%-131% Pyrene = 42%-130%	Extraction Date 1/12/05	Analysis Date 1/12/05	Spikes & Control Limits RPD	NA	Extraction Date NA	Analysis Date NA	Spikes & Control Limits 2-Fluorophenol = 35% - 128% Nitrobenzene-d5 = 32% - 147% Terphenyl-d14 = 37% - 145%
No LCSD								
Sample Recoveries and RPDs 89%, 87%				Sample Recoveries and RPDs NA			Sample Recoveries 65%-113%;	
Recoveries/RPDs Outside Data Quality Objectives None				Recoveries/ RPDs Outside Data Quality Objectives NA			Recoveries Outside Data Quality Objectives None	
Qualifier None				Qualifier Matrix spikes were not reported because the parent sample required a dilution that would have diluted out the spikes.			Qualifier None	

SAMPLES REVIEWED/ NOTES & COMMENTS:

B5-S-2.0-1 (176983-001) analyzed 1/13/05 20:10 ; B6-S-3.5-1 (176983-002) analyzed 1/14/05 01:07

CLIENT/PROJECT Ninyo & Moore/ City of Emeryville	LAB Curtis & Tompkins	PACKAGE ID 176983	METHOD EPA 8270 SVOCs	MATRIX Soil	# SAMPLES 2	PAGE 2
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INITIAL CALIBRATION			TARGET COMPOUND IDENTIFICATION AND RAW DATA EVALUATION						
<p>Control Limits: RSD max= 15%; Second Source %D max = 20%-30%, depending on analyte</p> <table><tr><td>Analysis Date/Time</td><td>%RSD</td><td>Out of Control/Qualifier</td></tr><tr><td>11/23/04 18:44</td><td>5%-14%</td><td>None</td></tr></table> <p>Second source 11/23/04 1%-37% Only 2-methylnaphthalene is out at 37%; no qualifier as this analyte was not reported for the sample.</p>			Analysis Date/Time	%RSD	Out of Control/Qualifier	11/23/04 18:44	5%-14%	None	<p>Evaluation Criteria: Initial Calibration: Minimum of 5 standards for each analyte.</p> <p>Retention Times: Retention time windows established using EPA Method 8000 protocol.</p> <p>Sample detections: Check that analytes were quantified correctly based on soil digestion data, response factors, internal standards, and dilution factors. Verify peaks are accounted for in mass spectra and are consistent with reference spectra. Check that analytes reported as detected eluted on both columns.</p>
Analysis Date/Time	%RSD	Out of Control/Qualifier							
11/23/04 18:44	5%-14%	None							
CONTINUING CALIBRATION									
<p>Control Limits: Dmax = 20%-30%, depending on the analyte</p> <table><tr><td>Analysis Date/Time</td><td>%D</td><td>Out of Control/Qualifier</td></tr><tr><td>Before: 1/13/05 16:43</td><td>7%-24%</td><td>None</td></tr></table>			Analysis Date/Time	%D	Out of Control/Qualifier	Before: 1/13/05 16:43	7%-24%	None	<p>Results:</p> <p>Initial calibration: 7 standards used for each analyte.</p> <p>Retention times: Windows established in compliance with the method. Lab SOP requires a RRT of 0.05 minutes from the standard.</p> <p>Sample detections: Peaks were accounted for and results were quantified correctly for B5-S-2.0-1. Results were ND for B6-S-3.5-1 (quantified correctly).</p>
Analysis Date/Time	%D	Out of Control/Qualifier							
Before: 1/13/05 16:43	7%-24%	None							
ADDITIONAL NOTES & COMMENTS									
<p>Internal Standard (IS) Control Limits (for sample and QC samples): Area %D: 0%-200% of the midpoint of the Initial Calibration; retention time within 0.5 minutes of the Initial or continuing calibration.</p> <p>RESULTS: IS Area Second Source 0.08%-17%; RT: within control limits</p>									

CLIENT/PROJECT Ninyo & Moore/ City of Emeryville	LAB Curtis & Tompkins	PACKAGE ID 176983	METHOD EPA 8015B:TPH diesel, motor oil	MATRIX Soil	# SAMPLES 2	DATE 2/15/05
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METHOD HOLDING TIME				BLANKS				
Sample Date 1/05/05	HT 14 day ext/40 day analysis	Exceedences	Qualifier	Type of Blank	Extraction Date	Analysis Date	Detected Analyte & Concentration	Qualifier
Extraction Date: 1/7/05		None	None	Method	1/7/05	1/10/05	None	None
Analysis Date: 1/10/05, 1/11/05		None	None					

LABORATORY CONTROL SAMPLES			Sample: B5-S-2.0-1	MATRIX SPIKES		SURROGATES	
Spikes & Control Limits RPD Diesel = 56%-134% No LCSD	Extraction Date 1/7/05	Analysis Date 1/7/05	Spikes & Control Limits RPD Diesel= 13%-165% RPD = 49%	Extraction Date 1/7/05	Analysis Date 1/7/05	Spikes & Control Limits Hexacosane 55% - 134%	
Sample Recoveries and RPDs 113%			Sample Recoveries and RPDs -4258%, -4166%, RPD Not calculated			Sample Recoveries 40% - 107%	
Recoveries/RPDs Outside Data Quality Objectives None			Recoveries/ RPDs Outside Data Quality Objectives Both recoveries are out, but the spike concentration is low relative to the sample concentration			Recoveries Outside Data Quality Objectives MS/MSD = 40%, 44%; surrogate diluted out of B5-S-2.0-1	
Qualifier None			Qualifier None. Results are not qualified based on MS/MSD data alone; MS/MSD recoveries are not meaningful in this case.			Qualifier None	

SAMPLES REVIEWED/NOTES & COMMENTS:							
B5-S-2.0-1 (176983-001-001) analyzed 1/10/05 23:36; B6-S-3.5-1 (176982-002) analyzed 1/11/05 00:05							
Lab indicated that diesel results for both samples exhibited a chromatographic pattern that does not resemble the standard, and that heavier hydrocarbons contributed to the reported result. The motor oil result for B5-S-2.0-1 had a contribution from lighter hydrocarbons. "H" qualifier for these results.							

CLIENT/PROJECT	LAB	PACKAGE ID	METHOD	MATRIX	# SAMPLES	PAGE 2
Ninyo & Moore/ City of Emeryville	Curtis & Tompkins	176983	EPA 8015B:TPH diesel, motor oil	Soil	2	

INITIAL CALIBRATION			TARGET COMPOUND IDENTIFICATION AND RAW DATA EVALUATION															
<div>Control Limits: Max RSD = 20%, Second Source %D =15%</div> <table><thead><tr><th>Analysis Date/Time</th><th>RSD</th><th>Out of Control/Qualifier</th></tr></thead><tbody><tr><td>Diesel 1/05/05 16:55</td><td>3%</td><td>None</td></tr><tr><td>Second Source 1/5/05</td><td>2%</td><td>None</td></tr><tr><td>Motor Oil 1/5/05 20:46</td><td>19%</td><td>None</td></tr><tr><td>Hexacosane 1/5/05 2:57</td><td>5%</td><td>None</td></tr></tbody></table>			Analysis Date/Time	RSD	Out of Control/Qualifier	Diesel 1/05/05 16:55	3%	None	Second Source 1/5/05	2%	None	Motor Oil 1/5/05 20:46	19%	None	Hexacosane 1/5/05 2:57	5%	None	<div>Evaluation Criteria: Initial Calibration: a minimum of 5 standards. Retention Times: Note Curtis and Tompkins does not use retention time windows for petroleum hydrocarbon analysis. Sample detections: Check that analytes were quantified correctly based on soil digestion data, dilution factors and percent moisture. Verify peaks/areas are accounted for in chromatograms.</div>
Analysis Date/Time	RSD	Out of Control/Qualifier																
Diesel 1/05/05 16:55	3%	None																
Second Source 1/5/05	2%	None																
Motor Oil 1/5/05 20:46	19%	None																
Hexacosane 1/5/05 2:57	5%	None																
CONTINUING CALIBRATION																		
<div>Control Limits: Dmax = 15%</div> <table><thead><tr><th>Analysis Date/Time</th><th>%D</th><th>Out of Control/Qualifier</th></tr></thead><tbody><tr><td>Diesel and Surrogate Before 1/10/05 20:12 After 1/11/05 02:29</td><td>1%-6% 3%-4%</td><td>None</td></tr><tr><td>Motor Oil Before 1/10/05 20:41 After 1/11/05 02:58</td><td>7% 4%</td><td>None</td></tr></tbody></table>			Analysis Date/Time	%D	Out of Control/Qualifier	Diesel and Surrogate Before 1/10/05 20:12 After 1/11/05 02:29	1%-6% 3%-4%	None	Motor Oil Before 1/10/05 20:41 After 1/11/05 02:58	7% 4%	None	<div>Results: Initial calibration: 6 standards for motor oil, 5 for hexacosane, 7 for diesel Sample detections: Analytes were quantified correctly.</div>						
Analysis Date/Time	%D	Out of Control/Qualifier																
Diesel and Surrogate Before 1/10/05 20:12 After 1/11/05 02:29	1%-6% 3%-4%	None																
Motor Oil Before 1/10/05 20:41 After 1/11/05 02:58	7% 4%	None																
ADDITIONAL NOTES & COMMENTS																		
None																		