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GEOMATRIX

Underground Storage Tank Removal

Former Fabco Manufacturing Facility
1249 67th Street
Emeryville, California

Prepared for:

Pulte Home Corporation
7031 Knoll Center Parkway, Suite 150
Pleasanton, CA 94566

June 2004

Project No. 8367.001

Geomatrix Consultants

2101 Webster Street
12th Floor
Oakland, CA 94612
(510) 663-4100 • FAX (510) 663-4141

GEOMATRIX

June 22, 2004
Project 8367.001

Mr. Hernan Gomez
City of Oakland Fire Services Agency
250 Frank Ogawa Plaza, Suite 3341
Oakland, California 94612

Subject: Underground Storage Tank Removal
1249 67th Street
Emeryville, California

Dear Mr. Rubin:

Geomatrix Consultants, Inc. (Geomatrix), is submitting this report on behalf of Pulte Home Corporation to document underground storage tank removal activities performed at the 1249 67th Street Site. This work was conducted under City of Oakland Fire Prevention Bureau Tank Permit Number 2004-14.

Based on the analytical results of the soil sample collected from the underground storage tank (UST) excavation, we recommend no further action be required with respect to this UST. Please call either of the undersigned if you have questions or require additional information.

Sincerely yours,
GEOMATRIX CONSULTANTS, INC.

Jennifer L. Patterson, P.E.
Senior Engineer

Robert Cheung
Senior Toxicologist

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cc: Barney Chan, Alameda County Health Care Services Agency
Mike Kim, Pulte Home Corporation
Ravi Arulanantham, Geomatrix Consultants, Inc.

GEOMATRIX

Underground Storage Tank Removal

Former Fabco Manufacturing Facility
1249 57th Street
Emeryville, California

Prepared for:

Pulte Home Corporation
7031 Knoll Center Parkway, Suite 150
Pleasanton, CA 94566

Prepared by:

Geomatrix Consultants, Inc.
2101 Webster Street, 12th Floor
Oakland, California 94612

June 2004

Project No. 8367.001

Geomatrix Consultants

GEOMATRIX

UNDERGROUND STORAGE TANK REMOVAL
Former Fabco Manufacturing Facility
1249 67th Street
Emeryville, California

1.0 INTRODUCTION

This report documents the results of underground storage tank (UST) removal activities performed at the former Fabco Automotive Corporation (Fabco) manufacturing facility, located at 1249 67th Street in Emeryville, California (the site; Figure 1). The report was prepared on behalf of Pulte Home Corporation (Pulte) by Geomatrix Consultants, Inc. (Geomatrix). One 750-gallon capacity UST was removed by R&B Equipment, Inc. (R&B), of Hayward, California, a California-licensed contractor, under contract to Pulte. Geomatrix observed tank removal and excavation activities and collected soil samples for chemical analysis. Although the site address is Emberyville, the UST is located within Oakland City limits. UST removal and associated soil sampling activities were performed under the supervision of Mr. Hernan Gomez of the Oakland Fire Services Agency (OFSA).

Tank removal, soil sampling, and chemical analytical procedures were performed to be consistent with applicable guidelines contained in the August 1990 "Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites" (Tri-Regional), unless otherwise directed by OFSA. UST removal, excavation, soil sampling, laboratory analytical results, and backfilling activities are described below.

2.0 SITE CONDITIONS

Geomatrix performed a Phase I Environmental Site Assessment (ESA) on behalf of Pulte for the site in October 2002 (Geomatrix, 2002). Information reviewed as part of the Phase I indicated that the site was used by Fabco since 1918 to develop and manufacture components for heavy-duty commercial trucks and vehicles.

Based potential on-site environmental concerns identified during the ESA, Geomatrix conducted a limited Phase II soil and grab groundwater investigation in November 2002 to evaluate baseline environmental conditions at the site (Geomatrix, 2003a and 2003b). Subsurface conditions at the site were further assessed based on the layout of the proposed high-density residential units during a targeted Phase III soil and grab groundwater sampling

and analysis program performed in November and December 2003 (Geomatrix, 2004). Concurrent with the Phase III field program, Pulte began preparing the site for construction of multi-family dwellings. During performance of grading activities in February 2004, a UST was encountered in the subsurface.

3.0 UNDERGROUND STORAGE TANK REMOVAL

During site preparation activities in February 2004, a UST was encountered at the site by Duran and Venables, Inc. (D&V), Pulte's grading contractor. D&V alerted R&B, Pulte's hazardous waste contractor/handler. Preparation activities for removing the tank involved obtaining a tank removal permit from the City of Oakland Fire Prevention Bureau (COFPB) and contacting the Alameda County Health Care Services Agency (ACHCSA). A copy of the permit issued by the COFPB is included as Appendix A. R&B performed UST removal and excavation activities on March 3, 2004. A Geomatrix field engineer observed removal of the UST and collected excavation samples and soil stockpile samples for chemical analysis on March 3, 2004. UST stabilization, excavation sampling, and waste disposal activities are discussed in the following sections.

3.1 UST REMOVAL

Soil overlying the UST was removed in February 2004 to access and prepare the UST for removal. The top of the tank was encountered at approximately 2 feet below ground surface (bgs). No fuel dispensers or piping were encountered in the vicinity of the UST. R&B pumped out the contents of the tank, which consisted of oily water, on February 27, 2004. Approximately 34 pounds of dry ice was placed inside the tank by R&B on March 3, 2004 to displace oxygen and reduce the possibility of an explosion hazard during removal activities. Immediately prior to removal of the UST, Geomatrix measured explosive vapor levels and oxygen content inside the tank using a lower explosive limit (LEL) meter. Final vapor readings indicated the presence of a non-explosive atmosphere (less than 10 percent oxygen and less than 10 percent of the LEL inside the tank. Mr. Gomez approved the readings and removal of the UST.

R&B used an excavator to lift the tank from the excavation under observation by Geomatrix, ACHCSA, and OFSA personnel. The tank was lowered to the ground surface for visual examination by the Geomatrix field engineer and Mr. Gomez. The tank was measured to be approximately 8 feet in length and 3.9 feet in diameter; it was estimated to have a capacity of

approximately 750 gallons. The tank was observed for leaks, holes, and damage; none were observed.

The final dimensions of the rectangular excavation were approximately 14 feet long by 8 feet wide by 6 feet deep. The location of the UST excavation is shown on Figure 2. Excavated soil was monitored for organic vapors using a photoionization detector (PID). PID measurements were 0 parts per million (ppm). Backfill material surrounding the UST appeared to consist of soil similar in composition to native soils encountered outside the immediate vicinity of the tank and consisted of lean clay. Soil beneath the tank did not appear to be impacted and no hydrocarbon odor was observed.

Water was observed in the excavation after the UST was removed. At the request of the OFSA, water was pumped from the excavation to allow for recharge and sampling. A sheen was observed on the soil at the bottom of the excavation after the water was removed. Therefore, additional soil was removed from the bottom of the excavation, at the direction of OFSA. Water did not recharge into the excavation after additional soil was removed, indicating that the water encountered was likely a result of recent precipitation and saturated soil conditions and not groundwater. Approximately 25 cubic yards (cy) of excavated soil was stockpiled on site on plastic sheeting pending characterization for off-site disposal.

3.2 SOIL SAMPLING

Consistent with RWQCB recommendations for UST removal (RWQCB, 1990) and at the request of OFSA, a confirmation soil sample was collected from the bottom of the excavation at a depth of approximately 6 feet bgs (labeled UST-B-6.0). The confirmation soil sampling location is shown on Figure 2.

Four soil samples (labeled SP-30304) were collected from the stockpile to characterize excavated soil for off-site disposal. Soil samples were collected in clean, brass tubes; sealed with plastic end caps, Teflon® sheets, and silicone tape; labeled; and placed in a cooler prior to delivery to Curtis & Tompkins, Ltd. (Curtis & Tompkins), of Berkeley, California, a California-certified analytical laboratory, under Geomatrix chain-of-custody procedures. The four soil stockpile samples were composited by the laboratory prior to analysis. Chain-of-custody documentation is included in Appendix B.

3.3 UST DISPOSAL

Oily water removed from the UST was transported by American Valley Waste Oil, a state-licensed liquid waste transporter, to Riverbank Oil Transfer of Modesto, California for disposal. Ecology Control Industries (ECI) transported the tank to its facility in Richmond, California. Copies of the Uniform Hazardous Waste Manifests are included in Appendix C.

4.0 ANALYTICAL METHODS AND RESULTS

Soil samples were analyzed according to Tri-Regional and OFSA guidelines for:

- total petroleum hydrocarbons quantified in the gasoline range (TPHg) using U.S. Environmental Protection Agency (EPA) Method 8015M;
- TPH quantified in the diesel range (TPHd) and motor oil range (TPHmo) using EPA Method 8015M following silica gel cleanup (EPA Method 3630C);
- volatile organic compounds (VOCs) using EPA Method 8260B;
- Leaking Underground Fuel Tank (LUFT) metals (cadmium, chromium, lead, nickel, and zinc) using EPA Method 6010B (excavation sample only);
- polychlorinated biphenyls (PCBs) using EPA Method 8082 (stockpile sample only);
- polynuclear aromatic hydrocarbons (PAHs) using EPA Method 8270C with Selected Ion Monitoring (SIM; stockpile sample only); and
- California Administrative Manual (CAM) metals using EPA Methods 6000/7000 series (stockpile sample only).

4.1 SOIL SAMPLE RESULTS

Analytical results are presented in Tables 1, 2, and 3. Analytical data sheets are included in Appendix B. Chemical concentrations detected in the excavation soil sample were compared to Environmental Screening Levels (ESLs) published by the Regional Water Quality Control Board, San Francisco Bay Region (RWQCB; July 2003). Screening levels for shallow soil and residential land use for sites at which groundwater is not a potential drinking water resource were used in the comparison. As explained by RWQCB literature, the ESLs are conservative screening levels that correspond to an acceptable risk level and reflect varying combinations of site characteristics including both residential and industrial land uses. Concentrations of compounds detected below corresponding ESLs can be assumed to not pose a significant threat to human health and the environment. Conversely, exceedance of the corresponding ESL does

not necessarily indicate that adverse health effects will occur, but suggests that additional evaluation of potential risks is warranted.

Sample UST-B-6.0, collected from the bottom of the UST excavation, contained low concentrations of TPHd, TPHmo, acetone, methylene chloride, 2-butanone, cadmium, chromium, lead, nickel, and zinc. TPHg was not detected in the sample at or above the laboratory reporting limit. Evaluation of analytical data for this sample indicates that concentrations of all detected constituents are below ESLs; therefore, additional soil removal in the vicinity of the UST was not conducted.

4.2 STOCKPILE SOIL RESULTS

Sample results are included in Tables 1, 2, and 3. Analytical results for composite sample SP-30304 were used to characterize soil from the tank excavation for off-site disposal. TPHg, TPHd, TPHmo, acetone, and 2-butanone, along with various metals and PAHs, were detected in this sample. At the request of Pulte, waste characterization sample results were forwarded to R&B, which transported the stockpiled soil, along with other soil excavated from the site, for disposal at West Contra Costa County Landfill. Geomatrix was not involved in the disposition of soil generated during excavation activities. Copies of disposal manifests are included in Appendix C.

5.0 EXCAVATION BACKFILLING

Analytical results of soil samples from the UST excavation were conveyed to ACHCSA and OFSA personnel. After receiving their approval, the excavation was backfilled with excess soil from grading operations conducted in other areas of the site. Geomatrix did not observe backfilling activities.

6.0 SUMMARY

A summary of the UST removal activities is presented below.

- One approximately 750-gallon UST was removed from the former Fabco manufacturing facility, located at 1249 67th Street in Emeryville, California, on March 3, 2004. The tank was removed under the supervision of Mr. Gomez of the OFSA. Once the tank was removed, it was visually inspected; tank exteriors were intact and did not appear to contain holes.

- Groundwater was not encountered at the time of tank removal. A slight sheen was observed on the surface of soil at the bottom of the excavation; this soil was over-excavated and removed.

- One soil sample was collected from the excavation, as directed by OFSA. TPHd, TPHmo, acetone, methylene chloride, 2-butanone, cadmium, chromium, lead, nickel, and zinc were present at concentrations below the respective ESLs for sites at which groundwater is not a current or potential drinking water resource.

- A total of approximately 25 cy of soil were removed from around the UST and the excavation bottom. Four samples were collected from the soil stockpile on March 3, 2004 and were composited by the analytical laboratory prior to analysis. TPHg, TPHd, TPHmo, acetone, and 2-butanone, along with various metals and PAHs, were detected in the composite sample. The soil was accepted by West Contra Costa County Landfill for disposal.

Based on the soil analytical results, we recommend that no further action be required with respect to this UST removal.

7.0 REFERENCES

California Regional Water Quality Control Board, San Francisco Bay Region, 1990, Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites, August 10.

California Regional Water Quality Control Board, San Francisco Bay Region, 2003, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final, July.

Geomatrix Consultants, Inc. (Geomatrix), 2002, Final Environmental Site Assessment, November.

Geomatrix, 2003a, Results of Phase II Soil and Grab Groundwater Investigation, January 8.

Geomatrix, 2003b, Results of Additional Phase II Grab Groundwater Investigation, January 9.

Geomatrix, 2004, Results of Phase III Soil and Grab Groundwater Investigation, March 5.

TABLES

TABLE 3

SOIL SAMPLE ANALYTICAL RESULTS - PAHs[1]

Former Fabco Manufacturing Facility
1249 67th Street
Oakland, California

Concentrations in milligrams per kilogram (mg/kg)

Sample ID	Sample Location	Sample Date	Sample Depth (ft bgs)	Constituents Detected															
				2-Methyl-naphthalene	Naphthalene	Acenaph-thylene	Acenaph-thene	Fluorene	Phenan-threne	Anthra-cene	Fluor-anthene	Pyrene	Benzo(a) anthracene	Chrysene	Benzo(b) fluor-anthene	Benzo(k) flour-anthene	Benzo(a) pyrene	Indeno (1,2,3-cd) pyrene	Dibenz(a,h)-anthracene	Benzo (g,h,l) perylene
UST-B-6.0	Bottom of UST excavation	3/3/04	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SP-30304	Soil stockpile	3/3/04	--	**0.076**	<0.066[2]	<0.066	<0.066	**0.19**	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	**0.098**	<0.066	<0.066	<0.066	<0.066	<0.066
RWQCB ESL[3]				0.25	4.5	13.0	19.0	8.9	11.0	2.8	40.0	85.0	0.38	3.8	0.38	0.38	0.038	0.38	0.11	27.0

Notes:

[1] Samples collected by Geomatrix Consultants, Inc., and analyzed by Curtis & Tompkins, Ltd., of Berkeley, California, for PAHs using U.S. Environmental Protection Agency (EPA) Method 8270 with selective ion monitoring (SIM), except for soil stockpile sample, which was analyzed using EPA Method 8270C.

[2] "<" indicates analyte was not detected at or above laboratory reporting limit shown.

[3] Regional Water Quality Control Board, San Francisco Bay Region (RWQCB), 2003, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final, July. Shallow soil screening level where groundwater is not a current or potential drinking water resource, Table B-1.

Abbreviations:

PAHs = polynuclear aromatic hydrocarbons

ft bgs = feet below ground surface

NA = not analyzed

ESL = environmental screening level

FIGURES

Base map from the U.S. Geological Survey, Oakland West Quadrangle, 7.5 minute series (topographic), 1959 (photo revised 1980).

N

0 2000 Feet

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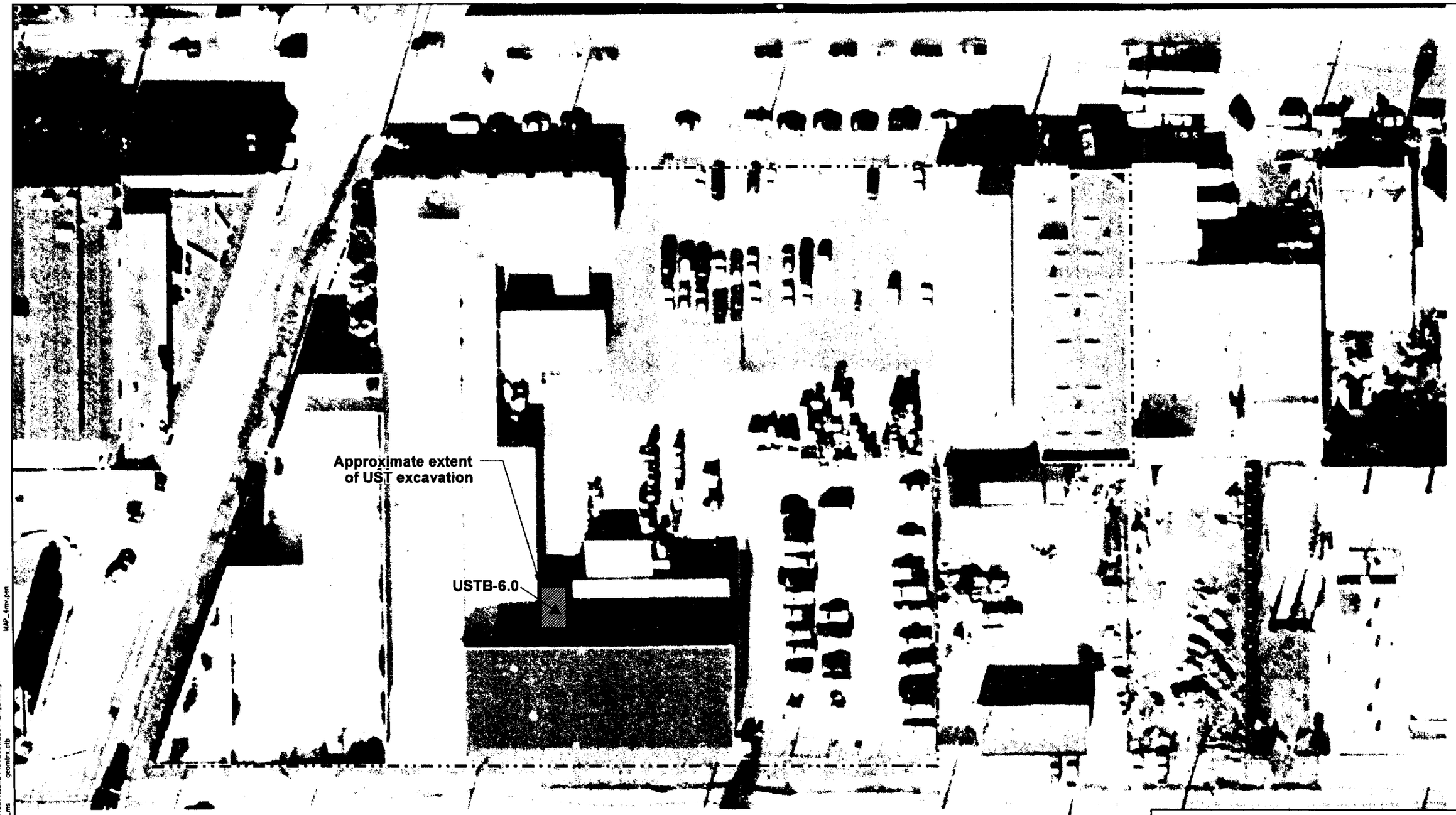
GEOMATRIX

SITE LOCATION MAP
Former Fabco Manufacturing Facility
1249 67th Street
Emeryville, California

Project No.
8367.001

Figure
1



Note:
Aerial photograph from
Pacific Aerial Surveys.

EXPLANATION

▲ Soil sample location

0 50
SCALE IN FEET

SITE PLAN AND UST LOCATION
1249 67th Street
Emeryville, California

GEOMATRIX

Project No.
8367.001

Figure
2

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GEOMATRIX

APPENDIX A

Underground Storage Tank Removal Permit

City Of Oakland
FIRE PREVENTION BUREAU

250 Frank Ogawa Plaza, Ste. 3341
Oakland California 94612-2032
510-238-3851

Permit To Excavate And Install, Repair, Or Remove Inflammable Liquid Tanks

Oakland, California February 19, 2004

Tank Permit Number: 2004 - 014

Permission Is Hereby Granted To:

Remove Underground Unknown **Tank And Excavate Commencing:** **Feet Inside:** Property **Line.**

On The:

Site Address: 1249 67th Street **Present Storage:**

Owner: Pulte Home Corporation **Address:** 7031 Koll Cntr Pkwy, #150, Pleasanton, 94566 **Phone:** 925-849-3280

Applicant: Geomatrix Consultants **Address:** 2101 Webster St., 12th Floor, Oakland, 94612 **Phone:** 510-663-4167

Dimensions Of Street (sidewalk) Surface To Be Disturbed : **X** **No. Of Tanks** 1 **Capacity** 500 **Gallons, Each**

Remarks

This Permit Is Granted In Accordance With Existing City Ordinances. Owner Hereby Agrees To Remove Tanks On Discontinuance Of Use Or When Notified By The City Authorities When Installing, Removing Or Repairing Tanks, No Open Flame To Be On Or Near Premises.

CERTIFICATE OF TANK AND EQUIPMENT INSPECTION

Type Of Inspection: UST Rem.

Inspected And Passed On: 3/3/04

By: H. Gomez

Approved: Fire Marshal

Inspection Fee Paid: $ 540.00

Received By: M McCarthy ck# 65279 rec# 867999

UST/AST Installations/modifications:

Pressure Test: Inspected By: _____ **Date:** _____

Primary Piping Test: Inspected By: _____ **Date:** _____

Secondary Containment & Sump Testing:

Inspected By: _____ **Date:** _____

Final: Inspected By: _____ **Date:** _____

Before Covering Tanks, Above Certification Must Be Signed When Ready For Inspection Notify Fire Prevention Bureau 238-3851

THIS PERMIT MUST BE LEFT ON THE WORK SITE AS AUTHORITY THEREFORE

Distribution: White - Fire Prevention Bureau, Yellow - Contractor, Pink - Electrical Inspection

CITY OF OAKLAND
FIRE PREVENTION BUREAU
250 Frank Ogawa Plaza, Suite 3341
Oakland, California 94612-2032
(510) 238-3851

APPLICATION for PERMIT to INSTALL, REMOVE or REPAIR TANKS
In the CITY OF OAKLAND

Request Submittal Date: 2/13/04

PLEASE CIRLCE APPROPRIATE ACTIONS: Application is hereby made for permit to:

(a) Remove (b) Install (c) Repair (d) Modify (e) Abandon/Close in Place A

(a) Gasoline (b) Fuel oil (c) Diesel (d) unknown tank(s) and excavate, commencing:

(a) four feet inside the curb line*; (b) inside the property line; (c) aboveground: (d) underground tank(s)
*inside curb line, please attach copy of sidewalk/excavation permit from PLANNING AND BUILDING

on the North side of 66th St./Ave. 250 feet East of RR → Railroad St./Ave.

Site Address: 1249 67th Street, Oakland, CA Present storage water w/ petroleum

Owner: Pulte Homes Corporation Address 7031 Koll Center Parkway, Suite 150 Phone 925-349-3280
Pleasanton, CA 94566

Applicant: Geomatrix Consultants Address 2101 Webster St., 12th Floor Phone 510-663-4167
Oakland, CA 94612

Sidewalk surface to be disturbed 0 X 0 Number of Tanks 1 Capacity ~500 Gallons ea.

Remarks Tank found during site grading operations, past use unknown

Signature

PLEASE ATTACH/SUBMIT: (All applicants must have a City Business License Permit)

- (2) Copies of Closure Plans for underground tank removal (s)
- (2) Sets of plans and (1) copy of specifications for above ground tank removal
- (2) Sets of plans and (2) sets of application packets for underground tank installation/modifications
- (2) Sets of plans for aboveground tank installation and specifications
- copy or prepare to show Planning and Building approval for aboveground tank removal and tank repair

NOTE: FOR TANK INSTALLATION PLEASE SUBMIT THIS APPLICATION FORM ALONG WITH A APPLICATION FOR PERMIT TO OPERATE, MAINTAIN OR STORE

FOR OFFICE USE ONLY

Permit No. Amt. Recv'd Date Issued:

Copies to: Electrical Inspection ck# Cash

Receipt# Recv'd by:

City of Oakland, Fire Department, Office of Emergency Services
Hazardous Materials Program
APPLICATION FOR UNDERGROUND TANK REMOVAL

FACILITY

Project Contact & Phone # Mike Kun 925-249-3219

Facility Name: City Limits (multi-family housing development) | Phone#: NA

Address: 1249 67th St., Oakland, CA

Cross Street: Between San Pablo & Railroad tracks

Owner/Operator: Pulte Home Corporation | Phone # 925-249-3219

CONTRACTOR

Contractor Name: R+B Equipment, Inc. | Phone # (510) 782-3774

Contractor Address: 2215 Dunn Rd. Hayward, CA 94545 | CA License # 669008 | Class: A, C-21

Hazardous Waste Certified: (Qualifying license category: HAZARDOUS SUBSTANCES REMOVAL & REMEDIAL ACTIONS CERTIFICATION) Yes ☒ No ☐ | Workers Comp# 4309803 STATE FUND

City of Oakland Business Tax License # 1653407 | Permit #

TANKS

Does this site have a leaking UST (or did it have a leaking tank system?) Yes ☐ No ☐

Stan Tank ID#	Tank Size	Material That Was Stored	Proposed Removal Date
39- unknown	~500 gallons	unknown	2/13/04
39-			
39-			
39-			
39-			
39-			

PLAN

___APPROVED ___APPROVED WITH CONDITION(S) ___DISAPPROVED

PLAN REVIEWER S SIGNATURE _____ DATE OF APPROVAL _____

APPLICANT MUST PERFORM ALL WORK IN ACCORDANCE WITH CITY OF OAKLAND ORDINANCES, STATE LAWS, AND RULES AND REGULATIONS OF THE CITY OF OAKLAND FIRE SERVICES AGENCY. OWNER OR LICENSED AGENT S SIGNATURE CERTIFIES THE FOLLOWING: I CERTIFY THAT IN THE PERFORMANCE OF THE WORK FOR WHICH THIS INSTALLATION PLAN IS ISSUED, I SHALL NOT EMPLOY ANY PERSON IS SUCH A MANNER AS TO BECOME SUBJECT TO WORKER S COMPENSATION LAWS OF CALIFORNIA. CONTRACTOR S HIRING OR SUBCONTRACTING SIGNATURE CERTIFIES THE FOLLOWING: I CERTIFY THAT IN THE PERFORMANCE OF THE WORK FOR WHICH THIS INSTALLATION PLAN IS ISSUED, I SHALL EMPLOY PERSONS SUBJECT TO WORKER S COMPENSATION LAWS OF CALIFORNIA.

APPLICANT S SIGNATURE [signature] TITLE: Senior Engineer DATE: 2/10/04

INDICATE THE RESPONSIBLE PARTY TO BE BILLED FOR ADDITIONAL FSA/OES STAFF TIME EXPENDED BEYOND THE HOURS COVERED BY THE INITIAL DEPOSIT AMOUNT. THE PARTY MUST ACKNOWLEDGE THIS RESPONSIBILITY FOR THE ADDITIONAL BILLING BY SIGNATURE AND DATE BELOW.

NAME Jennifer Patterson, Geomatrix Consultants, Inc.

MAILING ADDRESS 2101 Webster St, 12th Floor, Oakland CA 94612
STREET **CITY, STATE, ZIP**

DAY PHONE NUMBER 510 - 663 - 4167
area code **phone #**

SIGNATURE [signature]

DATE 2/10/04

CITY OF OAKLAND
Fire Department
Fire Prevention Bureau
Hazardous Materials Program
250 Frank H. Ogawa Plaza, Ste. 3341
Oakland, CA 94612-2032

UNDERGROUND TANK CLOSURE PLAN

(Complete according to instructions)

1) Name of Business Pulte Home Corporation

Business Owner or Contact Person (PRINT) Mike Kim

2) Site Address 1249 67th St

City Oakland Zip 94608 Phone NA

3) Mailing Address 7031 Koll Center Parkway, Suite 150

City Pleasanton Zip 94566 Phone 925-249-3219

4) Property Owner Pulte Home Corporation

Business Name (if applicable)

Address 7031 Koll Center Parkway, Suite 150

City, State Pleasanton, CA Zip 94566

5) Generator name under which tank will be manifested

Pulte Home Corporation

EPA ID Under which tank will be manifested CAL 000276495

6) Contractor R+B Equipment, Inc.

Address 2215 Dunn Rd

City Hayward, CA Phone 510-782-3774

License Type CSLB #669008: A, C-21 IDS ______

Effective January 1, 1992, Business and Professional Code Section 7058.7 require contractors to also hold Hazardous Waste certification issued by the State Contractor License Board

7) Consultant (if applicable) Geomatrix Consultants Inc
Address 2101 Webster St, 12th Floor
City, State Oakland, CA Phone 510-663-4167

8) Main Contact Person for Investigation (if applicable)

Name Jennifer Patterson Title Senior Engineer

Company Geomatrix Consultants Inc.

Phone 510-663-4167

9) Number of underground tanks being closed with this plan 1 (Confirmed with owner operator)

10) State Registered Hazardous Waste Transporters/Facilities (see instructions)

**Underground storage tanks must be handled as hazardous waste **

a) Product/Residual Sludge/Rinsate Transporter

Name ECI EPA I.D. NO. CAD982030173

Hauler License No. 1533 License Exp. Date 3/31/04

Address 255 PARR BLVD

City RICHMOND State CA Zip 94801

b) Product/Residual Sludge/Rinsate Disposal Site

Name ______ EPA ID No. ______

Address ______

City ______ State ______ Zip ______

e) Tank and Piping Transporter

Name ECI EPA I.D. No. CAD 982030173

Hauler License No. 1533 License Exp. Date 3/31/04

Address 255 PARR BLVD

City RICHMOND State CA Zip 94801

d) Tank and Piping Disposal Site

Name ECI EPA I.D. No. CAD009466392

Address 255 PARR BLVD

City RICHMOND State CA Zip 94801

11) Sample Collector

Name Sarah Nixon

Company Geomatrix Consultants

Address 2101 Webster St 12th Floor

City Oakland State CA Zip 94612

Phone 510-663-4121

12) Laboratory

Name Curtis & Tompkins

Address 2323 5th St

City Berkeley State CA Zip 94710

State Certification No. 01107 CA

13) Have tanks or pipes leaked in the past Yes ☐ No ☐ Unknown ☒

If yes, describe

14) Describe methods to be used for rendering tank (s): inert:

Add dry ice

Before tanks are pumped out and inserted, all associated piping must be flushed out into the tanks. All accessible associated piping must then be removed. Inaccessible piping must be permanently plugged.

The Bay Area Air Quality Management District, 415/771-6000 must also be contacted for tank removal permit. The use of a combustible gas indicator to verify tank inertness is required. It is the contractor's responsibility to bring a working combustible gas indicator on-site to verify that the tank is inert. **Note: you may be required to recalibrate the combustible gas indicator on site, to show that it is working properly.**

15) Tank History and Sampling Information *** (see instructions) ***

Tank		Material to be sampled (tank contents, soil, groundwater)	Location and Depth of Samples
Capacity	Use History include date last used (estimated)		If gw present:
~500	Unknown	Soil	Wall next to tank ends at soil/gw interface (one at each end) If gw not present: One sample below fill end of tank
		groundwater	One sample from tank excavation once it has been purged and allowed to refill.

One soil sample must be collected for every 20 linear feet or piping that is removed. A ground water sample must be collected if any ground water is present in the excavation.

EXCAVATED/STOCKPILED SOIL

Stockpiled Soil volume (estimated)	Sampling Plan
~ 100 cubic yards	One 4-point composite per 50 cubic yards; collected in clean, brass tubes sealed with teflon sheets and plastic end caps.

Stockpiled soil must be placed on beamed plastic and must be completely covered by plastic sheeting

Will the excavated soil be returned to the excavation immediately after tank removal?

☐ yes ☒ No ☐ unknown

If yes, explain reasoning _____

_____

If unknown at this point in time, please be aware that excavated soil may no be returned to the excavation without prior approval from Fire Services Agency, Office of Emergency Services. This means that the contractor, consultant, or responsible party must communicate with the Hazardous Materials Inspector **IN ADVANCE** of backfilling operations.

16. Chemical methods and associated detection limits to be used for analyzing samples:

The Tri-Regional Board recommended minimum verification analyses and practical quantitation reporting limits should be followed.
See attached Table 2.

17. Submit Site Health and Safety Plan (see Instructions)

Contaminant Sought	EPA or Other Sample Preparation Method Number	EPA or Other Analysis Method Number	Method Detection Limit	
			Soil (ppm)	water
TPHg	—	EPA 8015	1.0	50
TPHd	silica gel preparation	EPA 8015	1.0	50
VOCs	—	EPA 8260	0.005	0.5
Cd, Cr, Pb, Ni, + Zn	—	EPA 6020		

18. Submit Workers Compensation Certificate copy

Name of Insurer STATE COMPENSATION INSURANCE FUND #4309803 *

19. Submit Plot Plan ***(Be Instructions)***

20. Enclose Permit fee (See Instructions)

21. Report any leaks or contamination to this office within 5 days of discovery.

The written report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report, (ULR) form.

22. Submit a closure report to this office within 60 days of the tank removal. The report must contain all information listed in item 22 of the instructions.

23. Submit State (Underground storage Tank Permit Application) Forms A and B (one B form for each UST to be removed) (mark box 8 for tank removed in the upper right hand corner)

I declare that to, the best of my knowledge and belief that the statements and information provided above are correct and true.

I understand that information, in addition to that proved above, may be needed in order to obtain approval from the Hazardous Materials Division and that no work is to begin on this project until this plan is approved.

I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained.

I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Safety and health Administration) requirements concerning personnel health and safety. I understand that site and worker safety are solely the responsibility of the property owner or his age and that this responsibility is not shared nor assumed by the City of Oakland.

Once I have received my stamped, accepted closure plan, I will contact the project Hazardous Materials Inspector at least three working days in advance of site-work, to schedule the required inspections.

CONTRACTOR INFORMATION

Name of Business R & B EQUIPMENT, INC.

Name of Individual RICK JEFFERY

Signature [signature] Date 2/11/04

PROPERTY OWNER OR MOST RECENT TANK OPERATOR (Circle one)

Name of Business Pulte Home Corporation

Name of Individual Mike Kim

Signature _____ Date 2/10/04

General Instructions

- Three (3) copies of this plan plus attachments and permit must be submitted to this Department.
- Any cutting into tanks requires Fire Services Agency approval.
- One complete copy of your approved plan must be at the construction site at all times; a copy of your approved plan must also be sent to the landowner.
- State of California Permit Application Forms A and B are to submit to this office One Form A per site, one Form B for each removed tank.

Line Item Specific Instructions

2. SITE ADDRESS
Address at which closure is taking place.

5. EPA I.D. NO. - under which the tanks will be manifested
EPA I.D. numbers may be obtained from the State Department of Toxic Substances Control, 916/324-1781

6. CONTRACTOR
Prime contractor for the project.

10. STATE REGISTERED HAZARDOUS WASTE TRANSPORTERS/FACILITIES
a) All residual liquids and sludges are to be removed from tanks before tanks are inerted.
c) Tanks must be hauled as hazardous waste.
d) This is the place where tanks will be taken for cleaning.

15) TANK HISTORY AND SAMPLING INFORMATION
Use History - This information is essential and must be accurate. Include tank installation date, products stored in the tank, and the date when the tank was last used.
Material to be sampled - e.g. water, oil, sludge, soil, etc.

Location and depth of samples - e.g. beneath the tank a maximum of two feet below the native soil/backfill interface, side wall at the trig) water mark, etc.

16) CHEMICAL METHODS AND ASSOCIATED DETECTION LIMITS
See attached Table 2.

17) SITE HEALTH AND SAFETY PLAN
A site specific Health and Safety plan must be submitted. We advocate the site health and safety plan include the following items, at a minimum:
a) The name and responsibilities of the site health and safety officer.
b) An outline of briefings to be held before work each day to appraise employees of site health and safety hazards;

c) Identification of health and safety hazards of each work task. Include potential fire, explosion, physical, and chemical hazards;

SITE HEALTH AND SAFETY PLAN

d) For each hazard, identify the action levels (contaminant concentrations in air) or physical conditions;
e) Description of the work habit changes triggered by the above action levels or physical conditions;
f) Frequency and types of air and personnel monitoring - along with the environmental sampling techniques and instrumentation - to be used to detect the above action levels. Include instrumentation maintenance and calibration methods and frequencies;
h) Confined space entry procedures-(if applicable);
g) Decontamination procedures;
I) Measures to be taken to secure the site, excavation and stockpiled soils during and after work hour (e.g. barricades, caution tape, fencing, trench plates, plastic sheeting, security guard, etc.);
j) Spill containment/emergency/contingency plan. Be sure to include emergency phone numbers, the location of the phone nearest the site, and directions to the hospital near the site;
k) Documentation that all site workers have received the appropriate ASIA approved training and participate medical surveillance per 29 CFR 1910.120;

l) A page for employees to sign acknowledging that they have read and will comply with the site health and safety plan.

The safety plan must be distributed to all employees and contractors working in hazardous waste operations on site. A complete copy of the site health and safety plan along with any standard operating procedures shall be on site and accessible at all times.

Hazardous Waste Operations and Emergency Response; Final Rule, March 6, 1989; Safety plans of certain underground tank sites may need to meet the complete requirements of this Rule.

19) PLOT PLAN

The plan should consist of a scaled view of the facility at which the tank(s) are located and should include the following information:

a) Scale;
b) North Arrow;
c) Property Lines;
d) Location of all structures;
e) Location of all relevant existing equipment including tanks and piping to be removed and dispensers;
f) Streets;
g) Underground conduits, sewers water lines utilities;
h) Existing wells; drinking monitoring, etc;
I) Depth to ground water; and
j) All existing tank(s) and piping in addition to the tank(s) being removed.

20) PERMIT FEE

A check payable to the City of Oakland for the amount indicated must accompany the plans.

21) Blank unauthorized Leak/Contamination Site Report forms may be obtained in limited quantities from this office or from the San Francisco Regional Water Quality Control Board (510) 286-1255. Larger quantities may be directly from the State Water Resources Control Board at (916) 739-2421.

22) TANK CLOSURE REPORT

The Tank Closure reports: General description of the closure activities, indicate;

a) Description of tank, fittings and piping conditions. Size and former contents; note any corrosion, pitting, holes;
b) Description of the excavation itself. Include tank and excavation depth, a log of the stratigraphic units encountered within the excavation, a description of root holes or other potential pathways the depth to any observed ground water, locations of stained or odor-bearing oil, and descriptions of any observed free product or sheen;
c) Detailed description of sampling methods., i.e. - backhoe bucket, drive sampler, bailer, bottles (s), sleeves;
d) Description of any remedial measures conducted at the time of tank removal;
e) To-scale figures showing the excavation size and depth, nearby buildings, sample locations and depths, and tank and piping locations include a copy of the plot plan prepared for the Tank Closure-plan under item #19;
f) Chain of custody records;
g) Copies of signed laboratory reports;
h) Copies of TSDF to Generator Manifests for all hazardous wastes hauled offsite (sludge, Rinsate, tanks and piping, contaminated soil, etc), and
i) Documentation of the disposal of/and volume and final destination all non-manifested contaminated soil disposed offsite.

OAKLAND FIRE DEPARTMENT
FIRE PREVENTION BUREAU

Tank Installation/Removal Processing

All Tank installation/removal plans and applications will be accepted in the Fire Prevention Bureau. Please provide verification/copy of your City Business License Permit (238-3704). **An application to Install, Repair or Remove** and the following are required for complete submittal:

Permit Type	Closure Plans	U.G.Tank Install/Modify Plans App	Plans (2sets)	Specs	Letter to FM	Plot Plan	Forms A, B	Forms A,B,C	App For Permit to Operate, Maintain or Store
Underground Tank Removal	X					X	X		
Abandon/Close In Place	X					X	X		
Aboveground Tank Removal*			X	X					
Underground Tank Installation/Modification		X	X	X				X	X
Aboveground Tank Installation			X	X					X
Residential (home heating)	X					X			
Capping Vent Piping work				X	X	X			
Underground piping	X		X						
Residential (close in place)					X	X			

***Planning & Building Approval** required for **any** Zoning issues or when routing piping into buildings. When sidewalk disturbance occurs you must provide us with a copy/verification of your excavation permit..

Residential home heating oil tanks **under** 1100 gal. are exempt from State requirements (Form A & B not required), closure plans are required. **Residential** closure in place MUST accompany a letter to the attention of the Fire Marshal, Jerry E. Blueford describing why, and how the closure will be done. In addition, a plot plan should be included with the application.

Permit Fees: varies

Once the application and plans have been reviewed, you will receive your permit, by mail, within 1 to 5 days. **You must schedule in advance when you are prepared to do the work. Please call our office at least 48 hours in advance: (510)238-3851. Be prepared to give us your Permit number**, indicated in the upper right corner of your permit. We will try to accomodate your request.

Tank Permit Fees

Type of Request	Permit Processing/Plan Check Fee	Inspection Fee	Total
Aboveground/Underground Removal (1 tank)	$350.00	$190.00	$540.00*
Aboveground Installation (1 tank)	$350.00	$380.00	$730.00*
Closure In Place (underground)(1 tank)	$350.00	$190.00	$540.00*
Dispenser Replacement or Modifications of Aboveground Tanks	$350.00	$190.00	$540.00
Capping a Vent (underground tank)	$100.00	$ 50.00	$150.00
Alter & Repair Monitoring System; Overfill containment installation (aboveground/underground tanks)	$100.00	$ 50.00	$150.00
Modify, Remove, Repair and Replace Piping, Dispensers, Sumps of Underground Tanks	$350.00	$190.00	$540.00*

Underground Tank Installation Fees				
# of Tanks	Annual Fee	Permit Processing/Plan Check Fee	Inspection Fee	Total Payment
1	$210	$ 350	$380	$ 940
2	$312	$ 450	$380	$1142
3	$415	$ 550	$380	$1345
4	$521	$ 650	$380	$1551
5	$603	$ 750	$380	$1733
6	$717	$ 850	$380	$1947
7	$811	$ 950	$380	$2141

Note:

*$110.00 for each additional tank

- A separate permit will be issued for tank Removal, Installation etc.
- After hour inspections require additional fees at a rate of $95.00 an hour

rev: 09/00

UNIFIED PROGRAM CONSOLIDATED FORM

TANKS

UNDERGROUND STORAGE TANKS - FACILITY

(one page per site) Page 1 of 1

TYPE OF ACTION (Check one item only) ☐ 1. NEW SITE PERMIT ☐ 3. RENEWAL PERMIT ☐ 4. AMENDED PERMIT ☐ 5.CHANGE OF INFORMATION specify change local use only _____ ☐ 6.TEMPORARY SITE CLOSURE ☐ 7.PERMANENTLY CLOSED SITE ☒ 8. TANK REMOVED 400

I. FACILITY / SITE INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3

FACILITY ID# 1

NEAREST CROSS STREET 401

FACILITY OWNER TYPE: ☒ 1. CORPORATION ☐ 2. INDIVIDUAL ☐ 3. PARTNERSHIP ☐ 4. LOCAL AGENCY/DISTRICT* ☐ 5. COUNTY AGENCY* ☐ 6. STATE AGENCY* ☐ 7. FEDERAL AGENCY* 402

BUSINESS TYPE ☐ 1. GAS STATION ☐ 2. DISTRIBUTOR ☐ 3. FARM ☐ 4. PROCESSOR ☒ 6. OTHER ☐ 5. COMMERCIAL 403

TOTAL NUMBER OF TANKS REMAINING AT SITE: 0 404

Is facility on Indian Reservation or trustlands? ☐ Yes ☒ No 405

*If owner of UST is a public agency: name of supervisor of division, section or office which operates the UST (This is the contact person for the tank records.) 406

II. PROPERTY OWNER INFORMATION

PROPERTY OWNER NAME: Pulte Home Corporation 407

PHONE 408

MAILING OR STREET ADDRESS: 7031 Koll Center Parkway, Suite 150 409

CITY: Pleasanton 410

STATE: CA 411

ZIP CODE: 94566 412

PROPERTY OWNER TYPE: ☒ 1. CORPORATION ☐ 2. INDIVIDUAL ☐ 3. PARTNERSHIP ☐ 4. LOCAL AGENCY / DISTRICT ☐ 5. COUNTY AGENCY ☐ 6. STATE AGENCY ☐ 7. FEDERAL AGENCY 413

III. TANK OWNER INFORMATION

TANK OWNER NAME 414

PHONE 415

MAILING OR STREET ADDRESS 416

CITY 417

STATE 418

ZIP CODE 419

TANK OWNER TYPE: ☐ 1. CORPORATION ☐ 2. INDIVIDUAL ☐ 3. PARTNERSHIP ☐ 4. LOCAL AGENCY / DISTRICT ☐ 5. COUNTY AGENCY ☐ 6. STATE AGENCY ☐ 7. FEDERAL AGENCY 420

IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER

TY (TK) HQ 44- _____ Call (916) 322-9669 if questions arise 421

V. PETROLEUM UST FINANCIAL RESPONSIBILITY

INDICATE METHOD(s): ☐ 1. SELF-INSURED ☐ 2. GUARANTEE ☐ 3. INSURANCE ☐ 4. SURETY BOND ☐ 5. LETTER OF CREDIT ☐ 6. EXEMPTION ☐ 7. STATE FUND ☐ 8. STATE FUND & CFO LETTER ☐ 9. STATE FUND & CD ☐ 10. LOCAL GOVT MECHANISM ☐ 99. OTHER: 422

VI. LEGAL NOTIFICATION AND MAILING ADDRESS

Check one box to indicate which address should be used for legal notifications and mailing. Legal notifications and mailings will be sent to the tank owner unless box 1 or 2 is checked. ☐ 1. FACILITY ☒ 2. PROPERTY OWNER ☐ 3. TANK OWNER 423

VII. APPLICANT SIGNATURE

Certification – I certify that the information provided herein is true and accurate to the best of my knowledge.

SIGNATURE OF APPLICANT: [signature]

DATE: 2/9/04 424

PHONE: 510-663-9167 425

NAME OF APPLICANT (print): Jennifer Patterson 426

TITLE OF APPLICANT: Senior Engineer 427

STATE UST FACILITY NUMBER (For local use only) 428

1998 UPGRADE CERTIFICATE NUMBER (For local use only) 429

UST - Facility

Formerly SWRCB Form A.

Complete the UST - Facility page for all new permits, permit changes or any facility information changes. This page must be submitted within 30 days of permit or facility information changes, unless approval is required before making any changes.

Submit one UST - Facility page per facility, regardless of the number of tanks located at the site. This form is completed by either the permit applicant or the local agency underground tank inspector. As part of the application, the tank owner must submit a scaled facility plot plan to the local agency showing the location of the USTs with respect to buildings and landmarks [23 CCR §2711 (a)(8)], a description of the tank and piping leak detection monitoring program [23 CCR §2711 (a)(9)], and, for tanks containing petroleum, documentation showing compliance with state financial responsibility requirements [23 CCR §2711 (a)(11)].

Refer to 23 CCR §2711 for state UST information and permit application requirements.
(Note: the numbering of the instructions follows the data element numbers that are on the UPCF pages. These data element numbers are used for electronic submission and are the same as the numbering used in 27 CCR, Appendix C, the Business Section of the Unified Program Data Dictionary.) Please number all pages of your submittal. This helps your CUPA or local agency identify whether the submittal is complete and if any pages are separated.

1. FACILITY ID NUMBER - Leave this blank. This number is assigned by the CUPA. This is the unique number which identifies your facility.
3. BUSINESS NAME - Enter the full legal name of the business.
400. TYPE OF ACTION - Check the reason the page is being completed. CHECK ONE ITEM ONLY.
401. NEAREST CROSS STREET - Enter the name of the cross street nearest to the site of the tank.
402. FACILITY OWNER TYPE - Check the type of business ownership.
403. BUSINESS TYPE - Check the type of business.
404. TOTAL NUMBER OF TANKS REMAINING AT SITE - Indicate the number of tanks remaining on the site after the requested action.
405. INDIAN OR TRUST LAND - Check whether or not the facility is located on an Indian reservation or other trust lands.
406. PUBLIC AGENCY SUPERVISOR NAME - If the facility owner is a public agency, enter the name of the supervisor for the division, section or office which operates the UST. This person must have access to the tank records.
407. PROPERTY OWNER NAME -
408. PROPERTY OWNER PHONE
409. PROPERTY OWNER MAILING OR STREET ADDRESS
410. PROPERTY OWNER CITY
411. PROPERTY OWNER STATE
412. PROPERTY OWNER ZIP CODE

Complete items 407- 412 for the property owner, unless all items are the same as the Owner Information (items 111-116) on the Business Owner/Operator Identification page (OES Form 2730). If the same, write "SAME AS SITE" in this section.

413. PROPERTY OWNER TYPE - Check the type of property ownership.
414. TANK OWNER NAME -
415. TANK OWNER PHONE
416. TANK OWNER MAILING OR STREET ADDRESS
417. TANK OWNER CITY
418. TANK OWNER STATE
419. TANK OWNER ZIP CODE

Complete items 414- 419 for the tank owner,, unless all items are the same as the Owner Information (items 111-116) on the Business Owner/Operator Identification page (OES Form 2730). If the same, write "SAME AS SITE" in this section.

420. TANK OWNER TYPE - Check the type of tank ownership.
421. BOE NUMBER - Enter your Board of Equalization (BOE) UST storage fee account number. This fee applies to regulated USTs storing petroleum products. This is required before your permit application can be processed. If you do not have an account number with the BOE or if you have any questions regarding the fee or exemptions, please call the BOE at (916) 322-9669 or write to the BOE at: Board of Equalization, Fuel Taxes Division, P.O. Box 942879, Sacramento, CA 94279-0030.
422. PETROLEUM UST FINANCIAL RESPONSIBILITY CODE - Check the method(s) used by the owner and/or operator in meeting the Federal and State financial responsibility requirements. CHECK ALL THAT APPLY. If the method is not listed, check "other" and enter the method(s). USTs owned by any Federal or State agency and non-petroleum USTs are exempt from this requirement.
423. LEGAL NOTIFICATION AND MAILING ADDRESS - Indicate the address to which legal notifications and mailings should be sent. The legal notifications and mailings will be sent to the tank owner unless the facility (box 1) or the property owner (box 2) is checked.
SIGNATURE OF APPLICANT - The business owner/operator of the tank facility, or officially designated representative of the owner/operator, shall sign in the space provided. This signature certifies that the signer believes that all the information submitted is accurate and complete.
424. DATE CERTIFIED - Enter the date that the page was signed.
425. APPLICANT PHONE - Enter the phone number of the applicant (person certifying).
426. APPLICANT NAME - Enter the full printed name of the person signing the page.
427. APPLICANT TITLE - Enter the title of the person signing the page.
428. STATE UST FACILITY NUMBER - Leave this blank. This number is assigned by the CUPA as follows: the number is composed of the two digit county number, the three digit jurisdiction number, and a six digit facility number. The facility number must be the same as shown in item 1.
429. 1998 UPGRADE CERTIFICATE NUMBER - Leave this blank. This number is assigned by the CUPA.

UNIFIED PROGRAM CONSOLIDATED FORM

UNDERGROUND STORAGE TANKS – TANK PAGE 1

TANKS

(two pages per tank)

Page ___ of ___

TYPE OF ACTION (Check one item only) ☐ 1 NEW SITE PERMIT ☐ 3 RENEWAL PERMIT ☐ 4 AMENDED PERMIT (Specify reason – for local use only) ☐ 5 CHANGE OF INFORMATION (Specify reason – for local use only) ☐ 6 TEMPORARY SITE CLOSURE ☐ 7 PERMANENTLY CLOSED ON SITE ☒ 8 TANK REMOVED 430

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) | 3 | FACILITY ID:

LOCATION WITHIN SITE (Optional) 431

I. TANK DESCRIPTION (A scaled plot plan with the location of the UST system including buildings and landmarks shall be submitted to the local agency.)

TANK ID # 432	TANK MANUFACTURER 433	COMPARTMENTALIZED TANK ☐ Yes ☐ No 434 If "Yes", complete one page for each compartment.
DATE INSTALLED (YEAR/MO) 435	TANK CAPACITY IN GALLONS 436 ~ 500	NUMBER OF COMPARTMENTS 437

ADDITIONAL DESCRIPTION (For local use only) 438

II. TANK CONTENTS

TANK USE 439
- ☐ 1. MOTOR VEHICLE FUEL (If marked complete Petroleum Type)
- ☐ 2. NON-FUEL PETROLEUM
- ☐ 3. CHEMICAL PRODUCT
- ☐ 4. HAZARDOUS WASTE (Includes Used Oil)
- ☒ 95. UNKNOWN

PETROLEUM TYPE 440
- ☐ 1a. REGULAR UNLEADED ☐ 2. LEADED ☐ 5. JET FUEL
- ☐ 1b. PREMIUM UNLEADED ☐ 3. DIESEL ☐ 6. AVIATION FUEL
- ☐ 1c. MIDGRADE UNLEADED ☐ 4. GASOHOL ☐ 99. OTHER

COMMON NAME (from Hazardous Materials Inventory page) 441

CAS# (from Hazardous Materials Inventory page) 442

III. TANK CONSTRUCTION

TYPE OF TANK (Check one item only)
- ☐ 1. SINGLE WALL
- ☐ 2. DOUBLE WALL
- ☐ 3. SINGLE WALL WITH EXTERIOR MEMBRANE LINER
- ☐ 4. SIGNLE WALL IN VAULT
- ☐ 5. SINGLE WALL WITH INTERNAL BLADDER SYSTEM
- ☐ 95. UNKNOWN
- ☐ 99. OTHER

443

TANK MATERIAL – primary tank (Check one item only)
- ☐ 1. BARE STEEL
- ☐ 2. STAINLESS STEEL
- ☐ 3. FIBERGLASS / PLASTIC
- ☐ 4. STEEL CLAD W/FIBERGLASS REINFORCED PLASTIC (FRP)
- ☐ 5. CONCRETE
- ☐ 8. FRP COMPTIBLE W/100% METHANOL
- ☐ 95. UNKNOWN
- ☐ 99. OTHER

444

TANK MATERIAL – secondary tank (Check one item only)
- ☐ 1. BARE STEEL
- ☐ 2. STAINLESS STEEL
- ☐ 3. FIBERGLASS / PLASTIC
- ☐ 4. STEEL CLAD W/FIBERGLASS REINFORCED PLASTIC (FRP)
- ☐ 5. CONCRETE
- ☐ 8. FRP COMPTIBLE W/100% METHANOL
- ☐ 10. COATED STEEL
- ☐ 95. UNKNOWN
- ☐ 99. OTHER

445

TANK INTERIOR LINING OR COATING (Check one item only)
- ☐ 1. RUBBER LINED
- ☐ 2 ALKYD LINING
- ☐ 3. EPOXY LINING
- ☐ 4 PHENOLIC LINING
- ☐ 5. GLASS LINING
- ☐ 6 UNLINED
- ☐ 95. UNKNOWN
- ☐ 99 OTHER

446 DATE INSTALLED 447 (For local use only)

OTHER CORROSION PROTECTION IF APPLICABLE (Check one item only)
- ☐ 1 MANUFACTURED CATHODIC
- ☐ 2 SACRIFICIAL ANODE
- ☐ 3 FIBERGLASS REINFORCED PLASTIC
- ☐ 4 IMPRESSED CURRENT
- ☐ 95 UNKNOWN
- ☐ 99 OTHER

448 DATE INSTALLED 449 (For local use only)

SPILL AND OVERFILL (Check all that apply) YEAR INSTALLED 450 TYPE (local use only) 451
- ☐ 1 SPILL CONTAINMENT
- ☐ 2 DROP TUBE
- ☐ 3 STRIKER PLATE

OVERFILL PROTECTION EQUIPMENT: YEAR INSTALLED 452
- ☐ 1 ALARM
- ☐ 2 BALL FLOAT
- ☐ 3 FILL TUBE SHUT OFF VALVE
- ☐ 4 EXEMPT

IV. TANK LEAK DETECTION (A description of the monitoring program shall be submitted to the local agency.)

IF SINGLE WALL TANK (Check all that apply) 453
- ☐ 1 VISUAL (EXPOSED PORTION ONLY)
- ☐ 2 AUTOMATIC TANK GAUGING (ATG)
- ☐ 3 CONTINUOUS ATG
- ☐ 4 STATISTICAL INVENTORY RECONCILIATION (SIR) BIENNIAL TANK TESTING
- ☐ 5 MANUAL TANK GAUGING (MTG)
- ☐ 6 VADOSE ZONE
- ☐ 7 GROUNDWATER
- ☐ 8 TANK TESTING
- ☐ 99 OTHER

IF DOUBLE WALL TANK OR TANK WITH BLADDER (Check one item only) 454
- ☐ 1 VISUAL (SINGLE WALL IN VAULT ONLY)
- ☐ 2 CONTINUOUS INTERSTITIAL MONITORING
- ☐ 3 MANUAL MONITORING

IV. TANK CLOSURE INFORMATION / PERMANENT CLOSURE IN PLACE

ESTIMATED DATE LAST USED (YR/MO/DAY) 455	ESTIMATED QUANTITY OF SUBSTANCE REMAINING 456 _____ gallons	TANK FILLED WITH INERT MATERIAL? 457 ☐ Yes ☐ No

Formerly SWRCB Form B

UST - Tank Page 1

Complete the UST - Tank pages for each tank for all new permits, permit changes, closures and/or any other tank information change. This page must be submitted within 30 days of permit or facility information changes, unless approval is required before making any changes. For compartmentalized tanks, each compartment is considered a separate tank and requires completion of separate tank pages.

Refer to 23 CCR §2711 for state UST information and permit application requirements.

(Note: the numbering of the instructions follows the data element numbers that are on the UPCF pages. These data element numbers are used for electronic submission and are the same as the numbering used in 27 CCR, Appendix C, the Business Section of the Unified Program Data Dictionary.)

Please number all pages of your submittal. This helps your CUPA or local agency identify whether the submittal is complete and if any pages are separated.

1. FACILITY ID NUMBER - Leave this blank. This number is assigned by the CUPA. This is the unique number which identifies your facility.
3. BUSINESS NAME - Enter the full legal name of the business.
430. TYPE OF ACTION - Check the reason the page is being completed. For amended permits and change of information, include a short statement to direct the inspector to the amendment or changed information.
431. LOCATION WITHIN SITE - Enter the location of the tank within the site.
432. TANK ID NUMBER - Enter the owner's tank ID number. This is a unique number used to identify the tank. It may be assigned by the owner or by the CUPA.
433. TANK MANUFACTURER - Enter the name of the company that manufactured the tank.
434. COMPARTMENTALIZED TANK - Check whether or not the tank is compartmentalized. Each compartment is considered a separate tank and requires the completion of separate tank pages.
435. DATE TANK INSTALLED - Enter the year and month the tank was installed.
436. TANK CAPACITY - Enter the tank capacity in gallons.
437. NUMBER OF TANK COMPARTMENTS - If the tank is compartmentalized, enter the number of compartments.
438. ADDITIONAL DESCRIPTION - Use this space for additional tank or location description.
439. TANK USE - Check the substance stored. If MOTOR VEHICLE FUEL, check box 1 and complete item 440, PETROLEUM TYPE.
440. PETROLEUM TYPE - If box 1 is checked in item 439, check the type of fuel.
441. COMMON NAME - For substances that are not motor vehicle fuels (box 1 is NOT checked in item 439), enter the common name of the substance stored in the tank.
442. CAS # - For substances that are not motor vehicle fuels (box 1 is NOT checked in item 439), enter the CAS (Chemical Abstract Service) number. This is the same as the CAS # in item 209 on the Hazardous Materials Inventory - Chemical Description page.
443. TYPE OF TANK - Check the type of tank construction. If type of tank is not listed, check "other" and enter type.
444. TANK MATERIAL (PRIMARY TANK) - Check the construction material of the tank that comes into immediate contact on its inner surface with the hazardous substance being contained. If the tank is lined do not reference the lining material in this item. Indicate the type of lining material in item 446. If type of tank material is not listed, check "other" and enter material.
445. TANK MATERIAL (SECONDARY TANK) - Check the construction material of the tank that provides the level of containment external to, and separate from, the primary containment. If type of tank material is not listed, check "other" and enter material.
446. TANK INTERIOR LINING OR COATING - If applicable, check the construction material of the interior lining or coating of the tank. If type of interior lining or coating is not listed, check "other" and enter type.
447. DATE TANK INTERIOR LINING INSTALLED - If applicable, enter the date the tank interior lining was installed. This is to assist the CUPA to develop an inspection schedule.
448. OTHER TANK CORROSION PROTECTION - If applicable, check the other tank corrosion protection method used. If other corrosion protection method is not listed, check "other" and enter method.
449. DATE TANK CORROSION PROTECTION INSTALLED - If applicable, enter the date the tank corrosion protection method was installed. This is to assist the CUPA to develop an inspection schedule.
450. YEAR SPILL AND OVERFILL INSTALLED - Check the appropriate box and enter the year in which spill containment, drop tube, and/or striker plate was installed. CHECK ALL THAT APPLY.
451. TYPE OF SPILL PROTECTION - Enter the type of spill containment, drop tube, and/or striker plate. FOR CUPA USE ONLY.
452. YEAR OVERFILL PROTECTION EQUIPMENT INSTALLED - Check the appropriate box and enter the year in which overfill protection was installed or whether there is an exemption from overfill protection. CHECK ALL THAT APPLY, unless tank is exempt.
453. TANK LEAK DETECTION (SINGLE WALL) - For single walled tanks, check the leak detection system(s) used to comply with the monitoring requirements for the tank. CHECK ALL THAT APPLY. If leak detection system is not listed, check "other" and enter system.
454. TANK LEAK DETECTION (DOUBLE WALL) - For double walled tanks or tanks with bladder, check the leak detection system(s) used to comply with the monitoring requirements for the tank. CHECK ONE ITEM ONLY.
455. ESTIMATED DATE LAST USED - For closure in place, enter the date the tank was last used.
456. ESTIMATED QUANTITY OF SUBSTANCE REMAINING IN TANK - For closure in place, enter the estimated quantity of hazardous substance remaining in the tank (in gallons).
457. TANK FILLED WITH INERT MATERIAL - For closure in place, check whether or not the tank was filled with an inert material prior to closure.

ATTACHMENTS -

1. Provide a scaled plot plan with the location of the UST system, including buildings and landmarks.
2. Provide a description of the monitoring program.

UNIFIED PROGRAM CONSOLIDATED FORM

TANKS

UNDERGROUND STORAGE TANKS – TANK PAGE 2

VI. PIPING CONSTRUCTION (Check all that apply)

Page __ of __

UNDERGROUND PIPING				ABOVEGROUND PIPING			
SYSTEM TYPE	☐ 1. PRESSURE	☐ 2. SUCTION	☐ 3. GRAVITY 458	☐ 1. PRESSURE	☐ 2. SUCTION	☐ 3. GRAVITY	459
CONSTRUCTION	☐ 1. SINGLE WALL	☐ 3. LINED TRENCH	☐ 99. OTHER 460	☐ 1. SINGLE WALL	☒ 95. UNKNOWN		462
MANUFACTURER	☐ 2. DOUBLE WALL	☒ 95. UNKNOWN		☐ 2. DOUBLE WALL	☐ 99. OTHER		
MANUFACTURER			461	MANUFACTURER			463

☐ 1. BARE STEEL	☐ 6. FRP COMPATIBLE w/100% METHANOL			☐ 1. BARE STEEL	☐ 6. FRP COMPATIBLE W/100% METHANOL		
☐ 2. STAINLESS STEEL	☐ 7. GALVANIZED STEEL	☒ Unknown		☐ 2. STAINLESS STEEL	☐ 7. GALVANIZED STEEL		
☐ 3. PLASTIC COMPATIBLE W/ CONTENTS		☐ 99. Other		☐ 3. PLASTIC COMPATIBLE W/ CONTENTS	☐ 8. FLEXIBLE (HDPE)	☐ 99. OTHER	
☐ 4. FIBERGLASS	☐ 8. FLEXIBLE (HDPE)			☐ 4. FIBERGLASS	☐ 9. CATHODIC PROTECTION		
☐ 5. STEEL W/COATING	☐ 9. CATHODIC PROTECTION		464	☐ 5. STEEL W/COATING	☒ 95. UNKNOWN		465

VII. PIPING LEAK DETECTION (Check all that apply) (A description of the monitoring program shall be submitted to the local agency.)

UNDERGROUND PIPING

SINGLE WALL PIPING 466

PRESSURIZED PIPING (Check all that apply):

☐ 1. ELECTRONIC LINE LEAK DETECTOR 3.0 GPH TEST WITH AUTO PUMP SHUT OFF FOR LEAK, SYSTEM FAILURE, AND SYSTEM DISCONNECTION + AUDIBLE AND VISUAL ALARMS.

☐ 2. MONTHLY 0.2 GPH TEST

☐ 3. ANNUAL INTEGRITY TEST (0.1GPH)

CONVENTIONAL SUCTION SYSTEMS

☐ 5. DAILY VISUAL MONITORING OF PUMPING SYSTEM + TRIENNIAL PIPING INTEGRITY TEST (0.1 GPH)

SAFE SUCTION SYSTEMS (NO VALUES IN BELOW GROUNDPIPING):

☐ 7. SELF MONITORING

GRAVITY FLOW

☐ 9. BIENNIAL INTEGRITY TEST (0.1 GPH)

SECONDARILY CONTAINED PIPING

PRESSURIZED PIPING (Check all that apply):

10. CONTINUOUS TURBINE SUMP SENSOR WITH AUDIBLE AND VISUAL ALARMS AND (Check one)
  - ☐ a. AUTO PUMP SHUT OFF WHEN A LEAK OCCURS
  - ☐ b. AUTO PUMP SHUT OFF FOR LEAKS, SYSTEM FAILURE AND SYSTEM DISCONNECTION
  - ☐ c. NO AUTO PUMP SHUT OFF

☐ 11. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) WITH FLOW SHUT OFF OR RESTRICTION

☐ 12. ANNUAL INTEGRITY TEST (0.1 GPH)

SUCTION/GRAVITY SYSTEM

☐ 13. CONTINUOUS SUMP SENSOR + AUDIBLE AND VISUAL ALARMS

EMERGENCY GENERATORS ONLY (Check all that apply)

☐ 14. CONTINUOUS SUMP SENSOR WITHOUT AUTO PUMP SHUT OFF + AUDIBLE AND VISUAL ALARMS

☐ 15. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) WITHOUT FLOW SHUT OFF OR RESTRICTION

☐ 16. ANNUAL INTEGRITY TEST (0.1 GPH)

☐ 17. DAILY VISUAL CHECK

ABOVEGROUND PIPING

SINGLE WALL PIPING 467

PRESSURIZED PIPING (Check all that apply):

☐ 1. ELECTRONIC LINE LEAK DETECTOR 3.0 GPH TEST WITH AUTO PUMP SHUT OFF FOR LEAK, SYSTEM FAILURE, AND SYSTEM DISCONNECTION + AUDIBLE AND VISUAL ALARMS.

☐ 2. MONTHLY 0.2 GPH TEST

☐ 3. ANNUAL INTEGRITY TEST (0.1GPH)

☐ 4. DAILY VISUAL CHECK

CONVENTIONAL SUCTION SYSTEMS (Check all that apply)

☐ 5. DAILY VISUAL MONITORING OF PIPING AND PUMPING SYSTEM

☐ 6. TRIENNIAL INTEGRITY TEST (0.1 GPH)

SAFE SUCTION SYSTEMS (NO VALVES IN BELOW GROUND PIPING):

☐ 7. SELF MONITORING

GRAVITY FLOW (Check all that apply):

☐ 8. DAILY VISUAL MONITORING

☐ 9. BIENNIAL INTEGRITY TEST (0.1 GPH)

SECONDARILY CONTAINED PIPING

PRESSURIZED PIPING (Check all that apply):

10. CONTINUOUS TURBINE SUMP SENSOR WITH AUDIBLE AND VISUAL ALARMS AND (Check one)
  - ☐ a AUTO PUMP SHUT OFF WHEN A LEAK OCCURS
  - ☐ b AUTO PUMP SHUT OFF FOR LEAKS, SYSTEM FAILURE AND SYSTEM DISCONNECTION
  - ☐ c NO AUTO PUMP SHUT OFF

☐ 11. AUTOMATIC LEAK DETECTOR

☐ 12. ANNUAL INTEGRITY TEST (0.1 GPH)

SUCTION/GRAVITY SYSTEM

☐ 13. CONTINUOUS SUMP SENSOR + AUDIBLE AND VISUAL ALARMS

EMERGENCY GENERATORS ONLY (Check all that apply)

☐ 14. CONTINUOUS SUMP SENSOR WITHOUT AUTO PUMP SHUT OFF + AUDIBLE AND VISUAL ALARMS

☐ 15. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST)

☐ 16. ANNUAL INTEGRITY TEST (0.1 GPH)

☐ 17. DAILY VISUAL CHECK

VIII. DISPENSER CONTAINMENT

DISPENSER CONTAINMENT

DATE INSTALLED 468

- ☐ 1. FLOAT MECHANISM THAT SHUTS OFF SHEAR VALVE
- ☐ 2. CONTINUOUS DISPENSER PAN SENSOR + AUDIBLE AND VISUAL ALARMS
- ☐ 3. CONTINUOUS DISPENSER PAN SENSOR WITH AUTO SHUT OFF FOR DISPENSER + AUDIBLE AND VISUAL ALARMS
- ☐ 4. DAILY VISUAL CHECK
- ☐ 5. TRENCH LINER / MONITORING
- ☐ 6. NONE 469

IX. OWNER/OPERATOR SIGNATURE

I certify that the information provided herein is true and accurate to the best of my knowledge.

SIGNATURE OF OWNER/OPERATOR	for Mike Kim	DATE	2/11/04 470
NAME OF OWNER/OPRATOR (print) 471	Mike Kim Philte Homes	TITLE OF OWNER/OPERATOR 472	

Permit Number (For local use only) 473	Permit Approved (For local use only) 474	Permit Expiration Date (For local use only) 475

Formerly SWRCB Form B

(Note: the numbering of the instructions follows the data element numbers that are on the UPCF pages. These data element numbers are used for electronic submission and are the same as the numbering used in 27 CCR, Appendix C, the Business Section of the Unified Program Data Dictionary.)

Please number all pages of your submittal. This helps your CUPA or local agency identify whether the submittal is complete and if any pages are separated.

458. PIPING SYSTEM TYPE (UNDERGROUND) -
459. PIPING SYSTEM TYPE (ABOVEGROUND)

For items 458 and 459, check the tank's piping system information. CHECK ALL THAT APPLY.

460. PIPING CONSTRUCTION (UNDERGROUND) - Check the tank's piping construction information. CHECK ALL THAT APPLY.

461. PIPING MANUFACTURER (UNDERGROUND) - Enter the name of the piping manufacturer.

462. PIPING CONSTRUCTION (ABOVEGROUND) - Check the tank's piping construction information. CHECK ALL THAT APPLY.

463. PIPING MANUFACTURER (ABOVEGROUND) - Enter the name of the piping manufacturer.

464. PIPING MATERIAL AND CORROSION PROTECTION (UNDERGROUND) -
465. PIPING MATERIAL AND CORROSION PROTECTION (ABOVEGROUND)

For items 464 and 465, check the tank's piping material and corrosion protection.

466. PIPING LEAK DETECTION (UNDERGROUND) -
467. PIPING LEAK DETECTION (ABOVEGROUND)

For items 466 and 467, check the leak detection system(s) used to comply with the monitoring requirements for the piping.

468. DATE DISPENSER CONTAINMENT INSTALLED - If applicable, enter the date that dispenser containment was installed.

469. DISPENSER CONTAINMENT TYPE - Check the type of dispenser containment monitoring system.

SIGNATURE OF OWNER/OPERATOR - The owner or agent of the owner shall sign in the space provided. This signature certifies that the signer believes that all the information submitted is true and accurate.

470. DATE CERTIFIED - Enter the date the page was signed.

471. OWNER/ OPERATOR NAME - Print the name of signatory.

472. OWNER/ OPERATOR TITLE - Enter the title of the person signing the page.

473. PERMIT NUMBER - Leave this blank, this number is assigned by the CUPA.

474. PERMIT APPROVED BY - Leave this blank, this is the name of the person approving the permit.

475. PERMIT EXPIRATION DATE - Leave this blank, this is completed by the CUPA.

GEOMATRIX

SITE SPECIFIC HEALTH AND SAFETY PLAN

Approvals		
	Initials	Date
Prepared By	JLP	2/11/04
Approved By		

PROJECT INFORMATION

Date(s) of Field Work: *February 16, 2004*
Project Name: *Fabco* Project Number: *8367.001*
Client: *Pulte Home Corporation* Site Phone: *NA*
Site Address: *1249 67th Street* ☒ Site Plan Attached
Scope of Work: *UST Removal*

Type of Project: ☒Environmental; ☐Geotechnical; ☐Industrial Process; ☐Other: ____
☒HAZWOPER Project: Training & Medical Surveillance must conform to 29 CFR 1910.120 & Geomatrix Guidelines.
☐Client Specific Requirements (Attached)

KEY CONTACTS

Project Manager: *Jennifer Patterson*	Phone: *510-663-4167*	Cell: *510-821-8925*
Project H&S Manager: *Jennifer Patterson*	Phone: *510-663-4167*	Cell: *510-821-8925*
Site H&S Manager: *Sarah Mearon*	Phone: *510-663-4121*	Cell: *510-332-5660*
Client Contact: *Mike Kim*	Phone: *925-249-3280*	Cell: *925-383-2336*
Client's Site Contact: *Mike Kim*	Phone: *925-249-3280*	Cell: *925-383-2336*
Other: ____	Phone: ____	Cell: ____
Other: ____		

Emergency Medical Facility: *Kaiser Foundation Hospital*
Address: *280 W. MacArthur Blvd, Oakland, CA*
Phone Number (general): *510-752-1000* Phone Number (emergency): ____
☐Emergency Medical Facility Confirmed ☒Map to the hospital is attached

Police: 911 Fire: 911 Paramedic/Ambulance: 911
Poison Control Center: *1-800-222-1222*

EMERGENCY PROCEDURES

Medical Emergencies

1. Remove injured or exposed person(s) from immediate danger if possible.
2. Evacuate other on-site personnel to a safe place in an upwind direction until it is safe for work to resume.
3. If serious injury or life-threatening condition exists, call 911 - Paramedics, fire department, police Hospital emergency room Clearly describe location, injury and conditions to dispatcher/hospital. Designate a person to direct emergency equipment to the injured person(s).
4. Provide first aid if necessary. Remove contaminated clothing only if this can be done without endangering the injured person.
5. Call the project manager and/or project health and safety officer.
6. Immediately implement steps to prevent recurrence of the accident.

Accidental Release of Hazardous Materials or Wastes

1. Evacuate all on-site personnel to a safe place in an upwind direction until the PM or PHSO determines that it is safe for work to resume.
2. Immediately instruct a designated person to contact the PM or PHSO.
3. Contain spill, if it is possible and it can be done safely.
4. Initiate cleanup.

General Emergencies

In the case of fire, flood, explosion, or other hazard, work shall be halted and the local police/ fire department shall be notified by calling 911. All on-site personnel will be immediately evacuated to a safe place.

Emergency Equipment Onsite

☒First Aid Kit; ☒Fire Extinguisher; ☐Eye Wash; ☐Other: ____

CHEMICAL HAZARDS

CHEMICAL	EXPOSURE LIMITS		KNOWN/EXPECTED CONCENTRATIONS	HEALTH HAZARDS
	OSHA	ACGIH		
Gasoline	Pel: none (300 ppm)	TWA: 300 ppm STEL: 500 ppm	Unknown	Inhalation, dermal
Benzene	Pel: 1 ppm	TLV: 0.3 ppm	Unknown	Inhalation, dermal
Toluene	Pel: 50 ppm	TLV: 100 ppm	Unknown	Inhalation, dermal
Ethyl Benzene	Pel: 100 ppm	TLV: 100 ppm	Unknown	Inhalation, dermal
Xylenes	Pel: 100 ppm	TLV: 100 ppm	Unknown	Inhalation, dermal
Diesel	Pel: none	TLV: 100 mg/m^3	Soil: 240 mg/kg	Inhalation, dermal
Motor Oil			Soil: 350 mg/kg	Inhalation, dermal
PAHs	Various	Various	Soil: Up to 0.47 mg/kg	Inhalation, dermal
Cis-1,2-DCE			Water: 2.6 µg/l	Inhalation, dermal
Trans-1,2-DCE	Pel: 200 ppm	TLV: 200 ppm	Water: 2.9 µg/l	Inhalation, dermal
TCE	Pel: 100 ppm	TLV: 50 ppm	Water: 62 µg/l	Inhalation, dermal
MTBE	Pel: none	TLV: 40 ppm	Water: 1.4 µg/l	Inhalation, dermal

PHYSICAL HAZARDS:

☐ Heat Stress ☐ Cold Stress ☐ Wet ☒ Noise
☒ Slip, Trip, & Fall ☒ Heavy Equipment ☒ Electrical Hazards
☒ Underground Hazards: One Call Ticket # _____ Date Called: *Contractor to contact USA*
☐ Private Locator Utilized: _____ ☐ Overhead Hazards
☐ Traffic ☒ Excavations/Trenching ☐ Confined Space
☐ Other: _____

Excavation entrance requirements:

1. *If excavation is 4-feet or greater there must be a means of egress within 25-feet of the person.*
2. *If excavation is 5-feet or less, the person may enter as long as a competent person provides no indication of a potential cave-in.*
3. *Deeper excavations will require shoring or benching.*
4. *The atmosphere of the excavation will be checked for oxygen and contaminants.*

BIOLOGICAL HAZARDS:

☐ Pathogens: _____ ☐ Mold: _____
☐ Plants: _____ ☐ Insects: _____
☐ Other Fauna: _____ ☐ Other: _____

SITE CONTROLS: *Site is a construction site and is surrounded by a fence.*

PERSONAL DECONTAMINATION PROCEDURES: *Remove disposable gloves and clothing and place in plastic bags. Wash hands before eating, drinking, or smoking and at end of day.*

PERSONAL PROTECTIVE EQUIPMENT – R = REQUIRED, A = HAVE AVAILABLE

R Eye Protection: ***R*** Safety Glasses; __ Splash Goggles; __ Face Shield; __ Other: _____
R Hard Hat ***R*** Steel-Toed Boots __ Chemical Resistant Boots
R Traffic Safety Vest __ Hearing Protection: _____
__ Protective Clothing: ☐ Tyvek®; ☐ Coated Tyvek®; ☐ Sarinex; ☐ Other: _____
R Gloves: ☒ Nitrile; ☐ PVC; ☐ Neoprene; ☐ cloth/leather; ☐ Other _____
A Respiratory: ☐ Full-Face APR; ☒ Half-Face APR
A Filter: ☒ Organic Vapor; ☐ Acid Gas; ☐ HEPA; ☐ Other: _____

__ Other: _____

If air monitoring in the workers' breathing zone exceeds *10* for 60 seconds or longer, upgrade to Level C (APR) or vacate the immediate area.

MONITORING EQUIPMENT

☒ Photo Ionization Detector with *10.2* eV lamp
☒ Combustible Gas Indicator
☐ Detector Tube (Brand: _____) – Tubes: _____
☐ Hydrogen Sulfide Meter
☐ Passive Dosimeter _____
☐ Air Sampling Pump – Filter Media: _____
☐ Other: _____

☐ Flame Ionization Detector
☐ Oxygen Meter

Frequency of monitoring: *Intermittent*

GEOMATRIX

TAILGATE SAFETY MEETING

Date:

Project Name:

Project Number:

Site Location:

Scope of Work for Day:

Lead By:

Name (printed)	Signature

67th STREET

66th STREET

GMX-01
GMX-02
GMX-03
GMX-04
GMX-05
GMX-06
GMX-07
GMX-08
GMX-09
GMX-10
GMX-11
GMX-12
GMX-13
GMX-14
GMX-15

B-1
B-2
B-3
B-5
B-6
B-9
B-10
B-11
B-12
B-13

PARCEL TWO

CITY OF EMERYVILLE
CITY OF OAKLAND

Approximate tank location

EXPLANATION

- Previous soil and groundwater boring location
- Previous boring location
- EBMUD soil sampling location
- Soil and groundwater boring location
- Soil boring location
- Groundwater location

Note:
Aerial photograph from Pacific Aerial Surveys; Proposed development plans from Pulte Home Corporation.

0 50
SCALE IN FEET

EBMUD SOIL SAMPLING LOCATIONS
1249 67th Street
Emeryville, California

GEOMATRIX | Project No. 8367.001 | Figure 2

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GEOMATRIX

APPENDIX B

Excavation Sample Chain-of-Custody Records and Analytical Laboratory Reports

GEOMATRIX

TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS - TPH, VOCs, PCBs[1]

Former Fabco Manufacturing Facility
1249 67th Street
Oakland, California

Concentrations in milligrams per kilogram (mg/kg)

Sample ID	Sample Location	Sample Date	Sample Depth (ft bgs)	Constituents Detected							
				TPHg	TPHd	TPHmo	Acetone	Methylene Chloride	2-Butanone	Other VOCs	PCBs
UST-B-6.0	Bottom of UST excavation	3/3/04	6	<1[2]	2.6[3]	47	0.14	0.042	0.035	ND	NA
SP-30304	Soil stockpile	3/3/04	--[4]	4.9[3]	1700	170[5]	0.1	<0.020	0.017	ND	ND
RWQCB ESL[6]				100	500	500	0.5	0.52	13	Various	0.22

Notes:

[1] Samples collected by Geomatrix Consultants, Inc., and analyzed by Curtis & Tompkins, Ltd., of Berkeley, California, for TPHg, TPHd, and TPHmo using U.S. Environmental Protection Agency (EPA) Method 8015M; VOCs using EPA Method 8260B; and PCBs using EPA Method 8082. A silica gel preparation (EPA Method 3630C) was performed on soil samples prior to analysis of TPHd and TPHmo.

[2] "<" indicates analyte not detected at or above laboratory reporting limit shown.

[3] Laboratory indicated that heavier hydrocarbons contributed to quantitation and the chromatographic pattern did not match the laboratory standard. The result is considered estimated (J flagged) and may be biased high.

[4] "--" = not applicable or not available.

[5] Laboratory indicated that lighter hydrocarbons contributed to quantitation and the chromatographic pattern did not match the laboratory standard. The result is considered estimated (J flagged) and may be biased high.

[6] Regional Water Quality Control Board, San Francisco Bay Region (RWQCB), 2003, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final, July. Shallow soil screening level where groundwaer is not a current or potential drinking water resource, Table B-1.

Abbreviations:

TPHg = total petroleum hydrocarbons quantified as gasoline
TPHd = total petroleum hydrocarbons quantified as diesel
TPHmo = total petroleum hydrocarbons quantified as motor oil
VOCs = volatile organic compounds
PCBs = polychlorinated biphenyls
ft bgs = feet below ground surface
ND = not detected at or above laboratory reporting limit(s)
NA = not analyzed
ESL = environmental screening level

GEOMATRIX

TABLE 2

SOIL SAMPLE ANALYTICAL RESULTS - METALS[1]

Former Fabco Manufacturing Facility
1249 67th Street
Oakland, California

Concentrations in milligrams per kilogram (mg/kg)

Sample ID	Sample Location	Sample Date	Sample Depth (ft bgs)	Constituents Detected															
				As	Ba	Be	Cd	Cr	Co	Cu	Pb	Hg	Mo	Ni	Sb	Se	Ag	Tl	V	Zn
UST-B-6.0	Bottom of UST excavation	3/3/04	6	NA	NA	NA	0.27	26	NA	NA	10	NA	NA	21	NA	NA	NA	NA	NA	31
SP-30304	Soil stockpile	3/3/04	--[2]	3	130	0.33	0.5	33	8.3	27	13	0.047	<0.85[3]	29	NA	1.6	<0.21	<0.21	32	74
RWQCB ESL[4]				5.5	1000	31	7.8	58	94	630	255	2.5	78	310	6.3	78	78	1	110	1000

Notes:

[1] Samples collected by Geomatrix Consultants, Inc., and analyzed by Curtis & Tompkins, Ltd., of Berkeley, California, for metals using U.S. Environmental Protection Agency (EPA) Methods 6000/7000 series.

[2] "--" = not applicable.

[3] "<" indicates analyte not detected at or above laboratory reporting limit shown.

[4] Regional Water Quality Control Board, San Francisco Bay Region (RWQCB), 2003, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final, July. Shallow soil screening level where groundwater is not a current or potential drinking water resource, Table B-1. Urban ecotoxicty criteria were excluded because the pathway is incomplete.

Abbreviations:

ft bgs = feet below ground surface
NA = not analyzed
ESL = environmental screening level
As = Arsenic
Ba = Barium
Be = Beryllium
Cd = Cadmium
Cr = Chromium
Co = Cobalt
Cu = Copper
Pb = Lead
Hg = Mercury
Mo = Molybdenum
Ni = Nickel
Sb = Antimony
Se = Selenium
Ag = Silver
Tl = Thallium
V = Vanadium
Zn = Zinc

GEOMATRIX

Note:

This laboratory report contains two samples that were not part of the UST excavation activities. These samples are:

PITWATER-30304

SW-N-30304

Results from these samples have been reported under separate cover to Alameda County Health Care Services Agency and are not discussed in this report.

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

ANALYTICAL REPORT

Prepared for:

Geomatrix Consultants
2101 Webster Street
12th Floor
Oakland, CA 94612

Date: 22-MAR-04
Lab Job Number: 170945
Project ID: 8367.001
Location:

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 NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by: _____
Project Manager

Reviewed by: _____
Operations Manager

Curtis & Tompkins, Ltd.

Laboratory Number: **170945**
Client: **Geomatrix Consultants**
Project Name: **8367.001**

Order Date: **03/03/04**

CASE NARRATIVE

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

Total Volatile Hydrocarbons: The water matrix spike trifluorotoluene surrogate recoveries 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: No analytical problems were encountered.

Volatile Organic Compounds: The bromofluorobenzene surrogate recoveries for sample SW-N-30304 (170945-005) and method blank QC242965 were above acceptance limits. No target compounds were detected in the associated samples, 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.

Polyaromatic Hydrocarbons: No analytical problems were encountered.

PCBs: No analytical problems were encountered.

Metals: The soil matrix spike recoveries for nickel were not meaningful. The concentration of analyte in the spiked sample rendered the spike amount insignificant. The matrix spike recoveries for lead and mercury were outside acceptance limits, as were the matrix spike duplicate relative percent differences (RPDs). The associated blank spike recoveries and blank spike duplicate RPDs were acceptable and the spiked samples were not from this site.

018494

Chain-of Custody Record

Date: 3/03/04 — Page 1 of 1

Project No.: 9367.001

Samplers (Signature:) [signature] Sarah Mearon

ANALYSES / REMARKS

#	Date	Time	Sample Number	EPA Method 8021 (Full Scan)	EPA Method 8021 (Hal. VOCs only)	EPA Method 8021 (BETX only)	EPA Method 8260	EPA Method 8270 (Full Scan) SVOCs	EPA Method 8270 SIM (PAHS only)	Method 8015m (Gasoline)	Method 8015m (Diesel)	Method 8015m (Motor Oil)	Silica Gel Cleanup	HOLD	Oil & Grease	Cd, Cr, Pb, Ni, Zn	CAM17 Metals	STLC Lead	PCBs (8082)	Soil (S), Water (W), Vapor (V), or Other (o)	Filtered	Preserved	Cooled	No. of Containers	Additional Comments
1	3/03/04	1105	UST-S-3.0											X						S				1	6"x2" brass sleeve
2	↓	1118	UST-B-6.0				X			X	X		X		X	X				S				1	↓
3		1200	SP-30304				X	X		X	X	X	X		[crossed out] SM	[crossed out]	X	X	X	S				4	• COMPOSITE PRIOR TO ANALYSIS
4		1245	PITWATER-30304				X			X	X	X	X							W				8	6 VOAs, 2 1L ambers
5	↓	1440	SW-N-30304				X	[crossed out] SM	X	[crossed out] SM	X	X	X			X	[crossed out]	[crossed out] SM	[crossed out] X	S				1	6"x2" brass sleeve PCBs - yes.

STRAIGHT FROM FIELD ∴ NO ICE

Laboratory: Curtis & Tompkins

Turnaround Time: 24-hour

Results to: Jennifer Patterson

Total No. of Containers: 15

Relinquished by (Signature): Sarah Mearon	Date: 3/3/04	Relinquished by (Signature):	Date:	Relinquished by (Signature):	Date:
Printed Name: Sarah Mearon	Time: 1515	Printed Name:	Time:	Printed Name:	Time:
Company: Geomatrix		Company:		Company:	
Received by: Elnora Flemings	Date: 3/3/04	Received by:	Date:	Received by:	Date:
Printed Name: Elnora Flemings	Time: 1515	Printed Name:	Time:	Printed Name:	Time:
Company: C & T		Company:		Company:	

Method of Shipment: drop-off

Laboratory Comments and Log No.: 170945

Received ☐ On Ice ☐ Cold ☐ Ambient ☐ Intact

Geomatrix Consultants
2101 Webster Street, 12th Floor • Oakland, CA 94612
Phone: 510-663-4100 • Fax: 510-663-4141

Preservation Correct? ☐ Yes ☐ No ☐ N/A

SOP Volume: Client Services
Section: 1.1.2
Page: 1 of 1
Effective Date: 10-May-99
Revision: 1 Number 3 of 3
Filename: F:\QC\Forms\QC\Cooler.wpd

Curtis & Tompkins, Ltd.

COOLER RECEIPT CHECKLIST

Login#: 170945 Date Received: 3/3/04 Number of Coolers: 1
Client: GeoMatrix Project: 8367.001

A. Preliminary Examination Phase
Date Opened: 3/3/04 By (print): Peter P. (sign)

1. Did cooler come with a shipping slip (airbill, etc.)? YES NO
   If YES, enter carrier name and airbill number:
2. Were custody seals on outside of cooler? YES NO
   How many and where? Seal date: Seal name:
3. Were custody seals unbroken and intact at the date and time of arrival? YES NO N/A
4. Were custody papers dry and intact when received? YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? YES NO
6. Did you sign the custody papers in the appropriate place? YES NO
7. Was project identifiable from custody papers? YES NO
   If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. YES NO
   Type of ice: none Temperature: Straight from Field/Ambient

B. Login Phase
Date Logged In: 3/3/04 By (print): Peter P. (sign)

1. Describe type of packing in cooler: none
2. Did all bottles arrive unbroken? YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? YES NO
4. Did bottle labels agree with custody papers? YES NO
5. Were appropriate containers used for the tests indicated? YES NO
6. Were correct preservatives added to samples? YES NO
7. Was sufficient amount of sample sent for tests indicated? YES NO
8. Were bubbles absent in VOA samples? If NO, list sample Ids below. YES NO
9. Was the client contacted concerning this sample delivery? YES NO
   If YES, give details below.
   Who was called? By whom? Date:

Additional Comments:

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	170945	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8015B
Project#:	8367.001		
Field ID:	PITWATER-30304	Batch#:	88986
Matrix:	Water	Sampled:	03/03/04
Units:	ug/L	Received:	03/03/04
Diln Fac:	1.000	Analyzed:	03/03/04

Type: SAMPLE Lab ID: 170945-004

Analyte	Result	RL
Gasoline C7-C12	560 H Y	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	101	74-142
Bromofluorobenzene (FID)	117	80-139

Type: BLANK Lab ID: QC242939

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	74-142
Bromofluorobenzene (FID)	106	80-139

H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

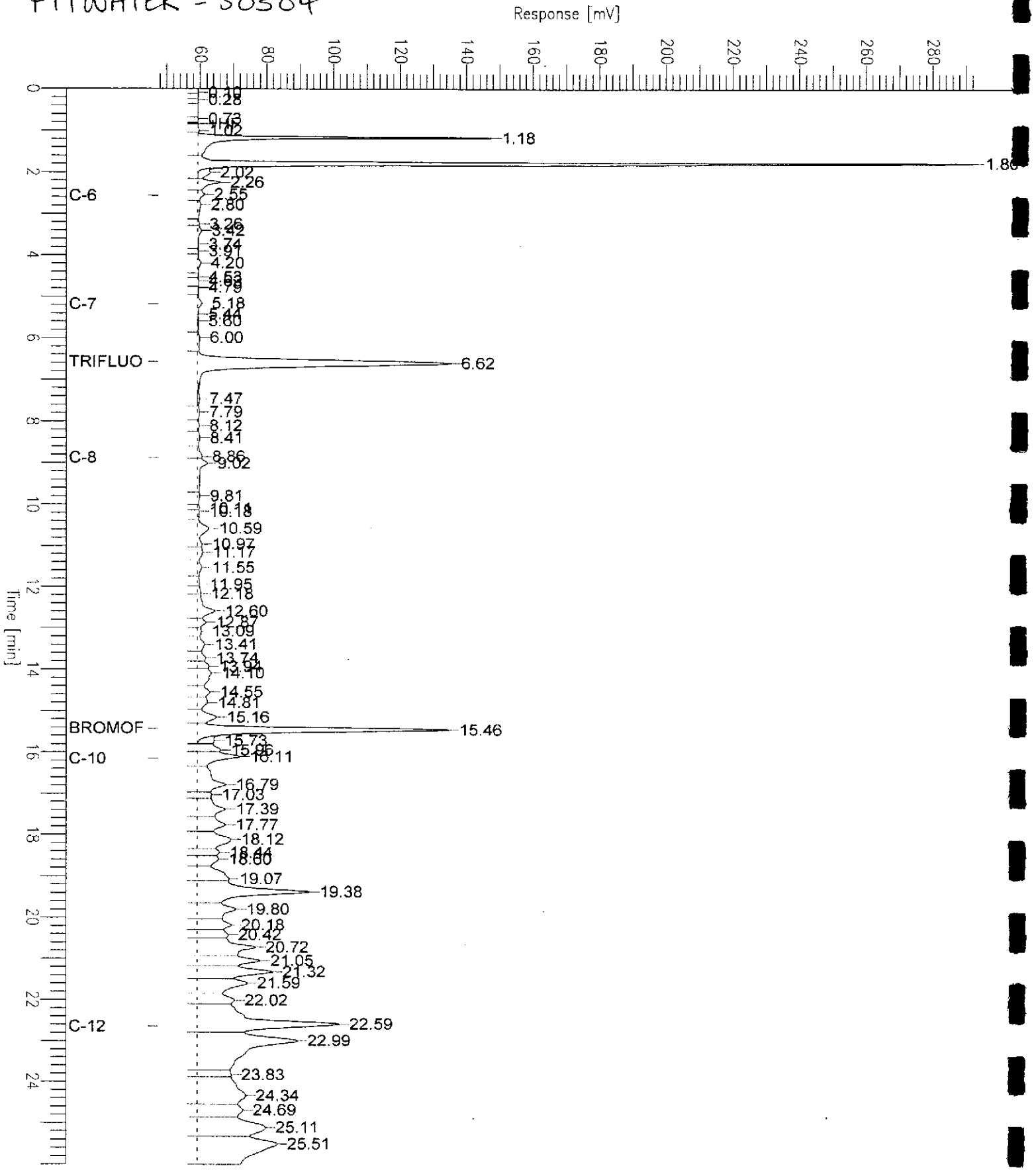
4.0

GC04 TVH 'J' Data File FID

Sample Name : 170945-004,88986,tvh
FileName : G:\GC04\DATA\063J012.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.00 min
Scale Factor: 1.0 Plot Offset: 48 mV

Sample #: a7 Page 1 of 1
Date : 3/4/04 08:56 AM
Time of Injection: 3/3/04 05:04 PM
Low Point : 47.53 mV High Point : 292.69 mV
Plot Scale: 245.2 mV

PITWATER - 30304

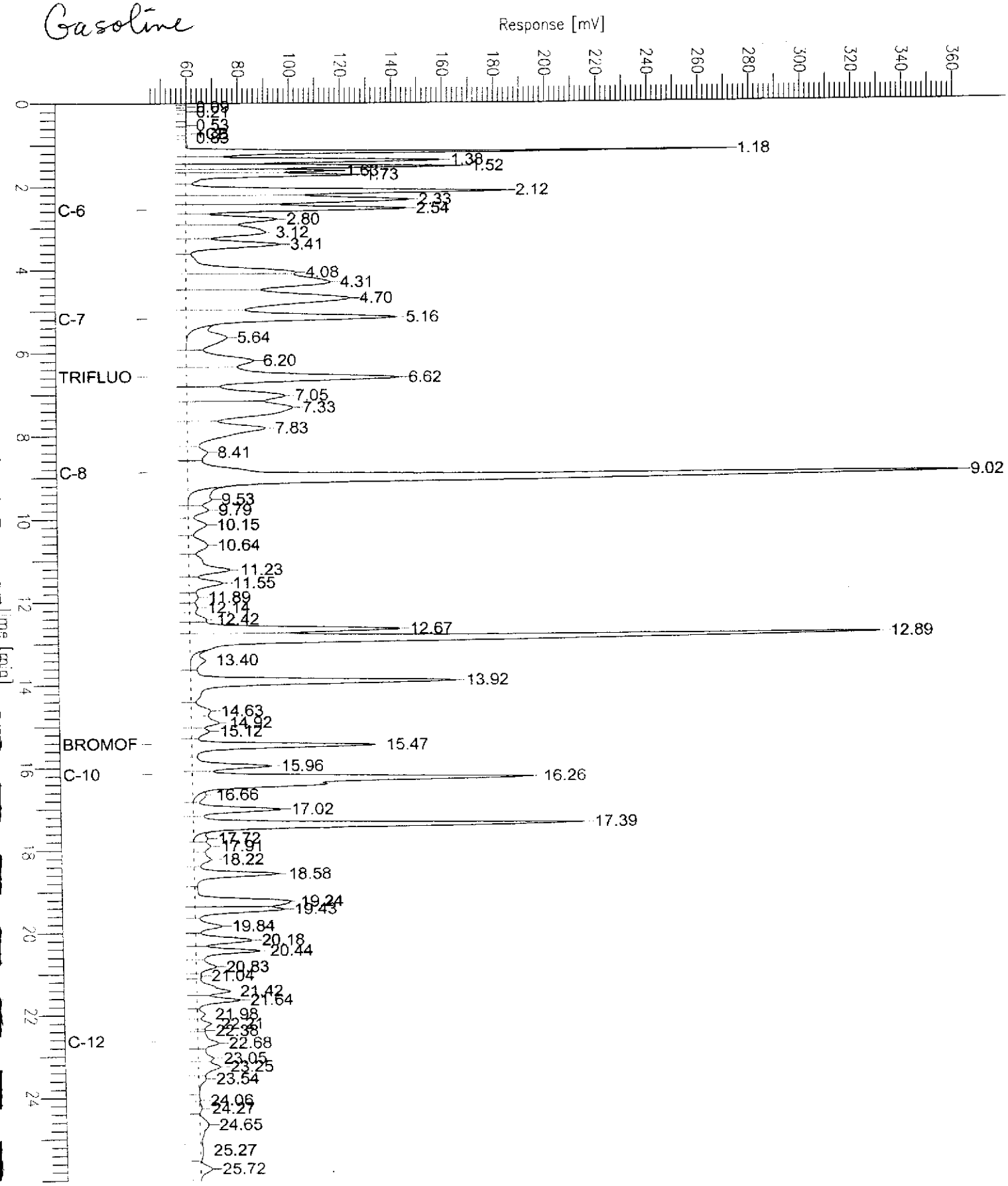


GC04 TVH 'J' Data File FID

Sample Name : ccv/lcs,qc242941,88986,04ws0372,5/5000
FileName : G:\GC04\DATA\063J003.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.00 min
Scale Factor: 1.0 Plot Offset: 45 mV

Sample #: Page 1 of 1
Date : 3/3/04 12:00 PM
Time of Injection: 3/3/04 11:34 AM
Low Point : 44.78 mV High Point : 361.96 mV
Plot Scale: 317.2 mV

Gasoline



Curtis & Tompkins, Ltd

Total Volatile Hydrocarbons

Lab #:	170945	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8015B
Project#:	8367.001		
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC242941	Batch#:	88986
Matrix:	Water	Analyzed:	03/03/04
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	1,932	97	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	140	74-142
Bromofluorobenzene (FID)	112	80-139

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	170945	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8015B
Project#:	8367.001		
Field ID:	ZZZZZZZZZZ	Batch#:	88986
MSS Lab ID:	170924-001	Sampled:	03/02/04
Matrix:	Water	Received:	03/02/04
Units:	ug/L	Analyzed:	03/04/04
Diln Fac:	1.000		

Type: MS Lab ID: QC242952

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	19.64	2,000	2,044	101	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	150 *	74-142
Bromofluorobenzene (FID)	119	80-139

Type: MSD Lab ID: QC242953

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,011	100	80-120	2	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	153 *	74-142
Bromofluorobenzene (FID)	119	80-139

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

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	170945	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8015B
Project#:	8367.001		
Matrix:	Soil	Batch#:	88989
Units:	mg/Kg	Sampled:	03/03/04
Basis:	as received	Received:	03/03/04
Diln Fac:	1.000		

Field ID:	UST-B-6.0	Lab ID:	170945-002
Type:	SAMPLE	Analyzed:	03/03/04

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	87	71-138
Bromofluorobenzene (FID)	99	73-143

Field ID:	SP-30304	Lab ID:	170945-003
Type:	SAMPLE	Analyzed:	03/04/04

Analyte	Result	RL
Gasoline C7-C12	4.9 H Y	1.1

Surrogate	%REC	Limits
Trifluorotoluene (FID)	85	71-138
Bromofluorobenzene (FID)	108	73-143

Type:	BLANK	Analyzed:	03/03/04
Lab ID:	QC242950		

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	83	71-138
Bromofluorobenzene (FID)	90	73-143

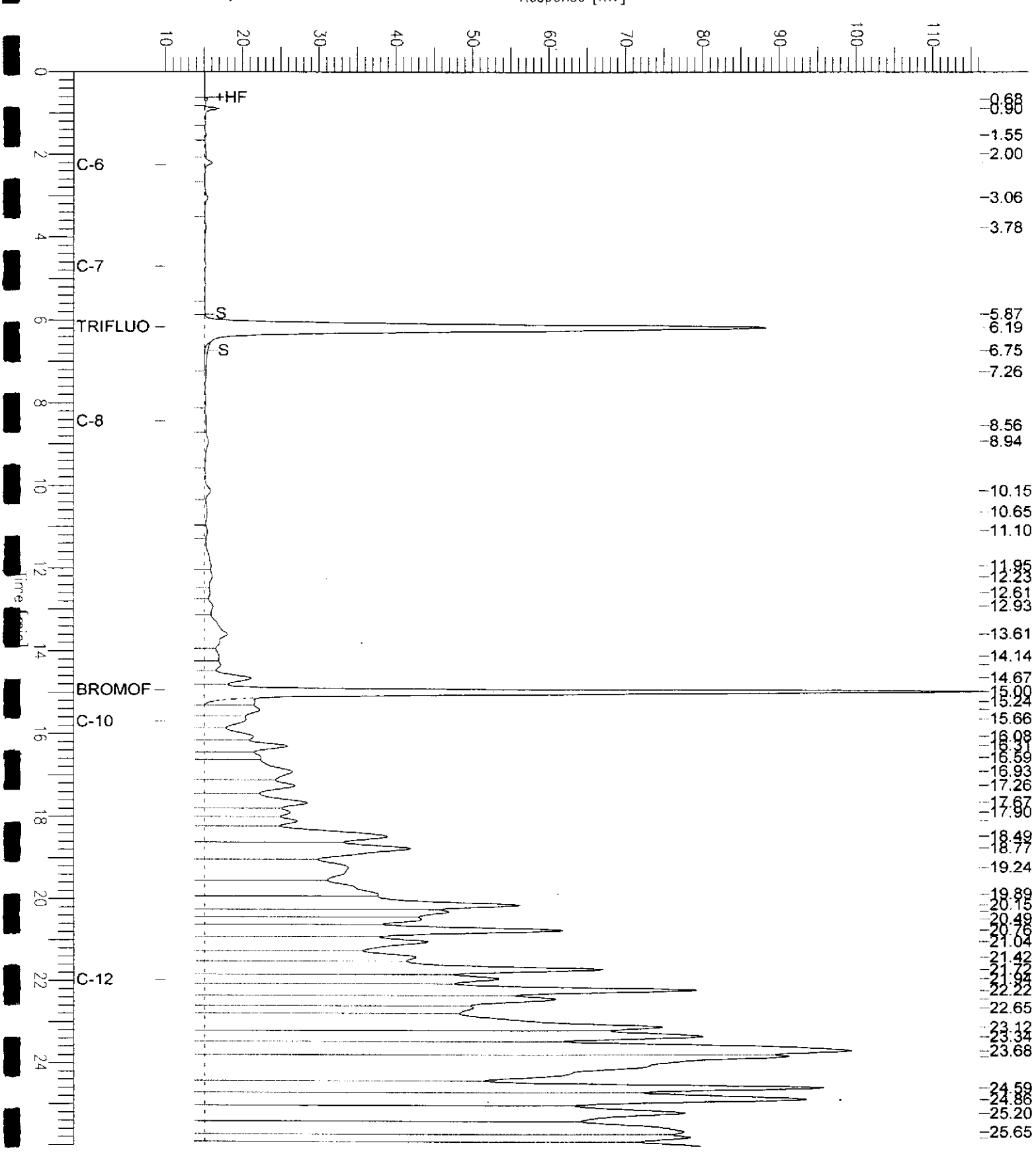
H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

GC07 TVH 'A' Data File RTX 502

Sample Name : 170945-003,88989,tvh
FileName : G:\GC07\DATA\063A023.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.00 min
Scale Factor: 1.0 Plot Offset: 10 mV

Sample #: comp Page 1 of 1
Date : 3/4/04 07:12 AM
Time of Injection: 3/4/04 12:32 AM
Low Point : 10.00 mV High Point : 116.14 mV
Plot Scale: 106.1 mV

SP-30304

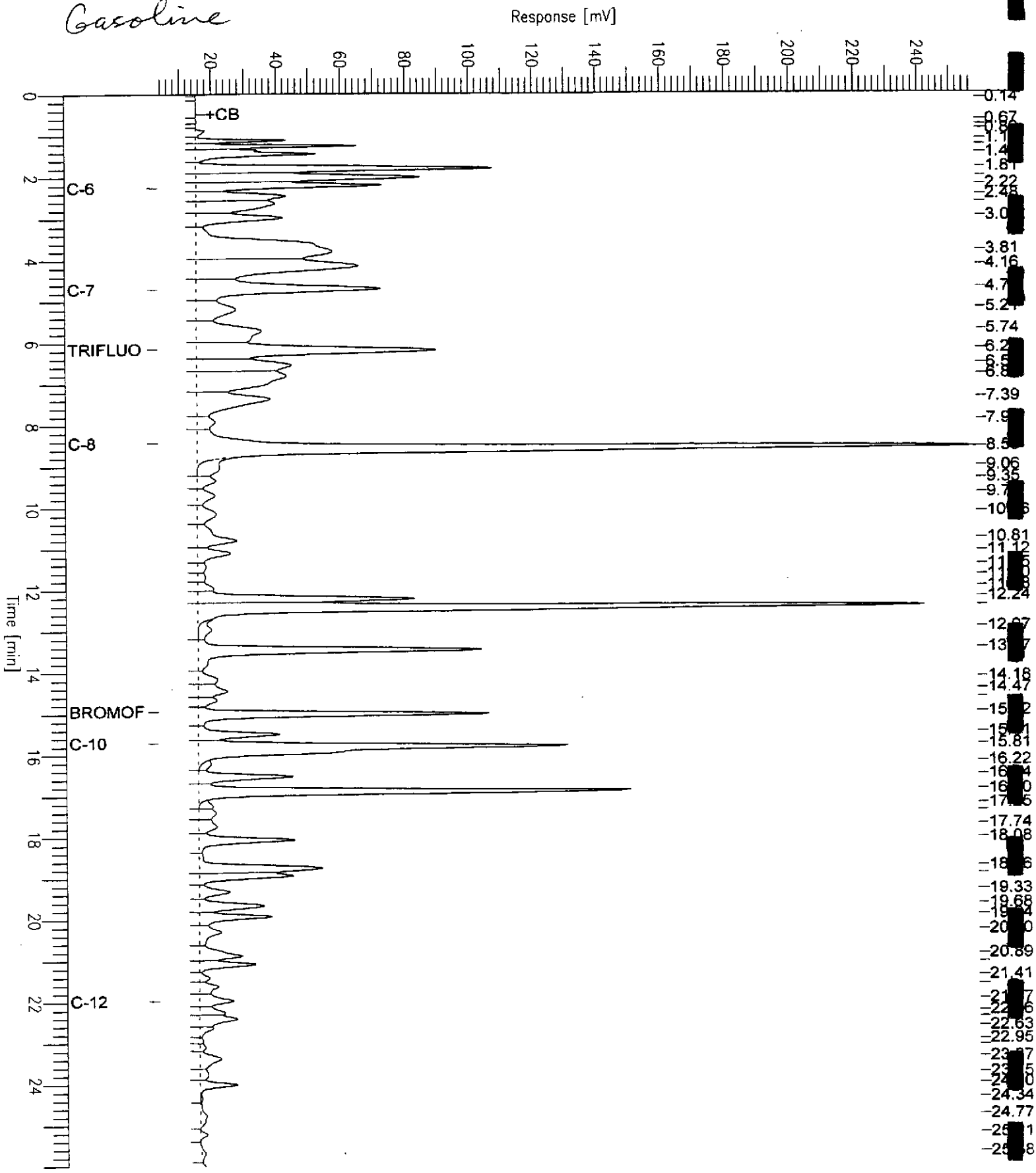


GC07 TVH 'A' Data File RTX 502

Sample Name : ccv/lcs,qc242951,88989,04ws0372,5/5000
FileName : G:\GC07\DATA\063A001.raw
Method : TVHBTXE
Start Time : 0.00 min End Time : 26.00 min
Scale Factor: 1.0 Plot Offset: 3 mV

Sample #: Page 1 of 1
Date : 3/3/04 11:46 AM
Time of Injection: 3/3/04 11:20 AM
Low Point : 3.09 mV High Point : 257.99 mV
Plot Scale: 254.9 mV

Gasoline



Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	170945	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8015B
Project#:	8367.001		
Type:	LCS	Basis:	as received
Lab ID:	QC242951	Diln Fac:	1.000
Matrix:	Soil	Batch#:	88989
Units:	mg/Kg	Analyzed:	03/03/04

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	10.00	8.920	89	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	97	71-138
Bromofluorobenzene (FID)	97	73-143

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	170945	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8015B
Project#:	8367.001		
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	170926-042	Batch#:	88989
Matrix:	Soil	Sampled:	03/02/04
Units:	mg/Kg	Received:	03/02/04
Basis:	as received	Analyzed:	03/03/04

Type: MS Lab ID: QC242961

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.03832	10.99	9.036	82	47-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	99	71-138
Bromofluorobenzene (FID)	102	73-143

Type: MSD Lab ID: QC242962

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	9.259	7.241	78	47-120	5	23

Surrogate	%REC	Limits
Trifluorotoluene (FID)	99	71-138
Bromofluorobenzene (FID)	101	73-143

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	170945	Prep:	EPA 3520C
Client:	Geomatrix Consultants	Analysis:	EPA 8015B
Project#:	8367.001		
Field ID:	PITWATER-30304	Batch#:	89014
Matrix:	Water	Sampled:	03/03/04
Units:	ug/L	Received:	03/03/04
Diln Fac:	1.000	Prepared:	03/03/04

Type:	SAMPLE	Analyzed:	03/05/04
Lab ID:	170945-004	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C24	12,000 H	50
Motor Oil C24-C36	16,000 L	300

Surrogate	%REC	Limits
Hexacosane	72	53-142

Type:	BLANK	Analyzed:	03/04/04
Lab ID:	QC243038	Cleanup Method:	EPA 3630C

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

Surrogate	%REC	Limits
Hexacosane	107	53-142

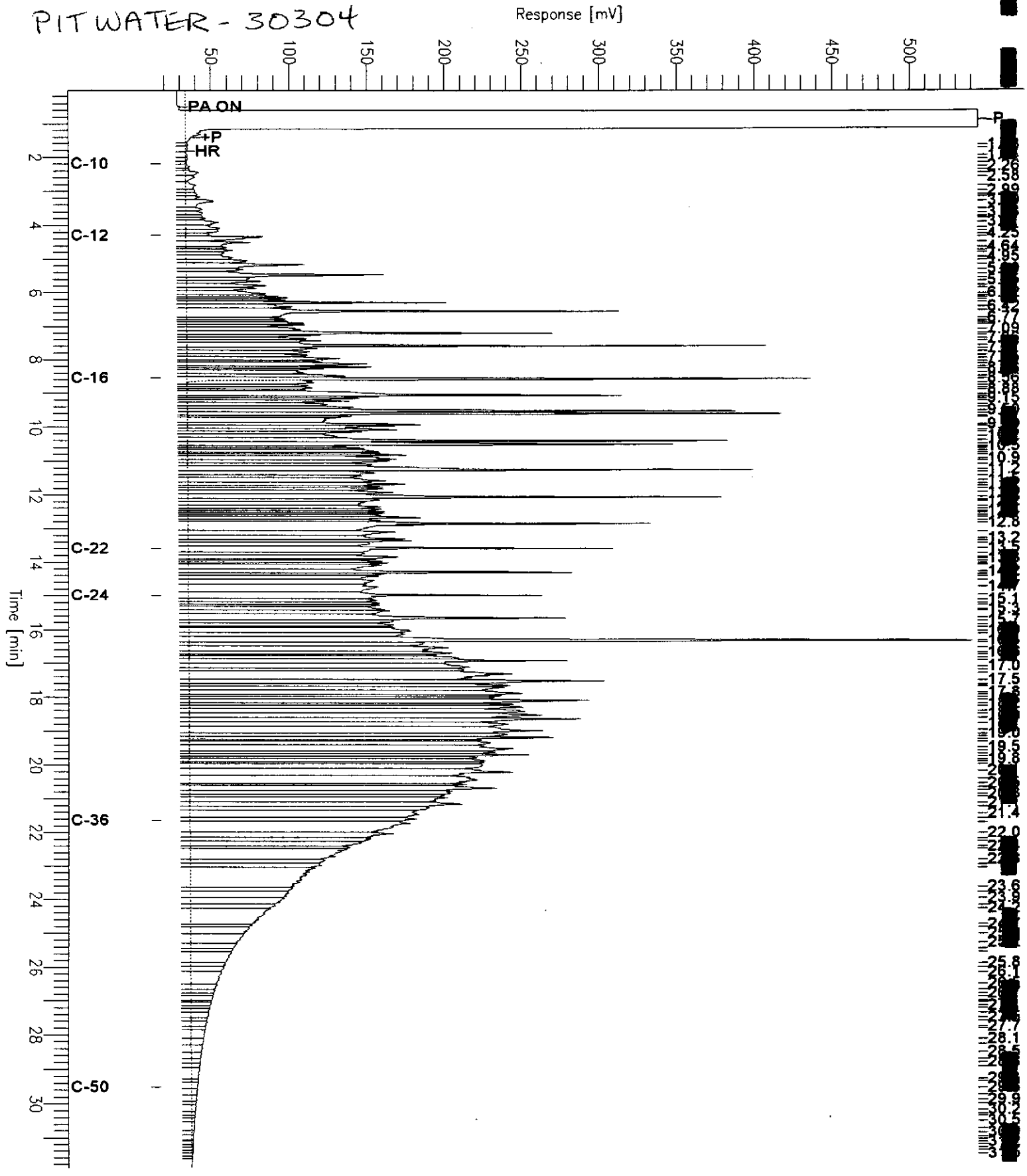
H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
ND= Not Detected
RL= Reporting Limit

Chromatogram

Sample Name : 170945-004sg,89014
FileName : G:\GC17\CHA\060A150.RAW
Method : ATEH064.MTH
Start Time : 0.01 min End Time : 31.91 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #: 89014 Page 1 of 1
Date : 3/5/04 10:31 AM
Time of Injection: 3/5/04 08:39 AM
Low Point : 17.68 mV High Point : 544.51 mV
Plot Scale: 526.8 mV

PIT WATER - 30304

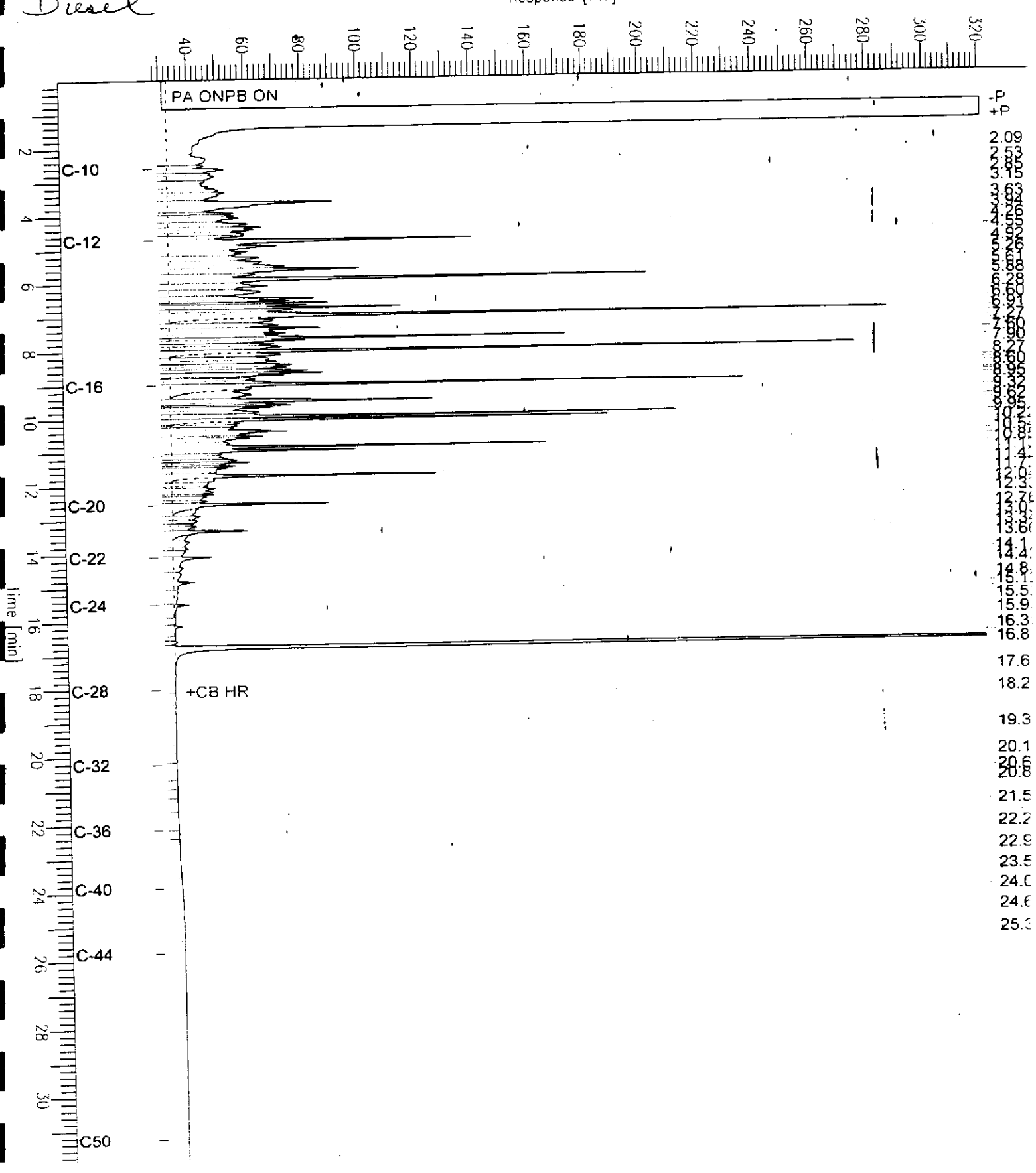


Chromatogram

Sample Name : ccv,03ws2078,dsl
FileName : G:\GC13\CHB\064B004.RAW
Method : BTEH065.MTH
Start Time : 0.01 min End Time : 31.91 min
Scale Factor: 0.0 Plot Offset: 28 mV

Sample #: 500mg/L
Date : 3/5/04 10:48 AM
Time of Injection: 3/4/04 04:40 PM
Low Point : 27.77 mV High Point : 320.99 mV
Plot Scale: 293.2 mV

Diesel



Chromatogram

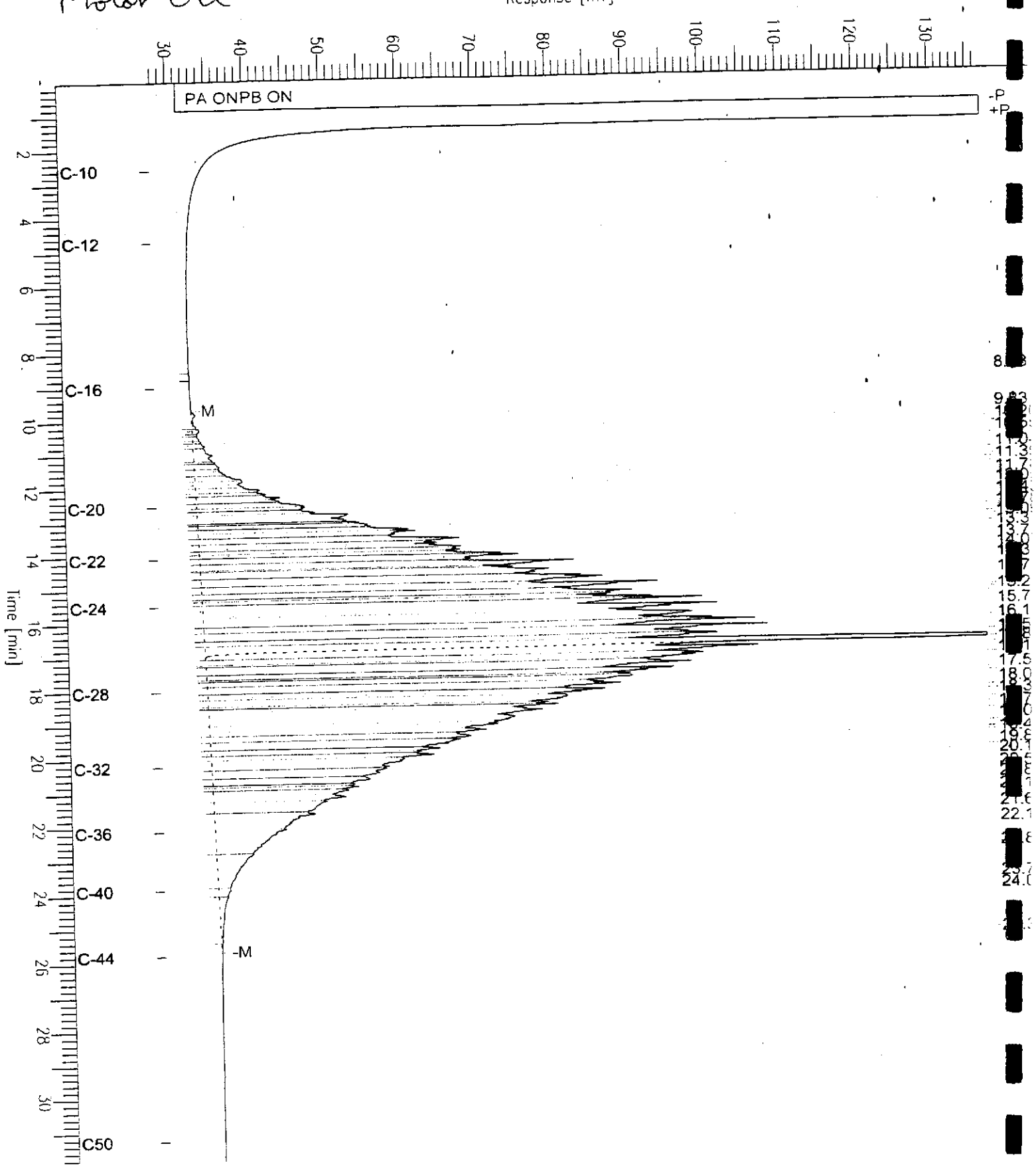
Sample Name : ccv,04ws0244,mo
FileName : G:\GC13\CHB\064B005.RAW
Method : BTEH065.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 31.91 min
Plot Offset: 28 mV

Sample #: 500mg/L
Date : 3/5/04 10:48 AM
Time of Injection: 3/4/04 05:19 PM
Low Point : 27.84 mV
Plot Scale: 109.1 mV

High Point : 136.89 mV

Motor Oil



Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	170945	Prep:	EPA 3520C
Client:	Geomatrix Consultants	Analysis:	EPA 8015B
Project#:	8367.001		
Matrix:	Water	Batch#:	89014
Units:	ug/L	Prepared:	03/03/04
Diln Fac:	1.000		

Type:	BS	Analyzed:	03/04/04
Lab ID:	QC243039	Cleanup Method:	EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	1,820	73	57-128

Surrogate	%REC	Limits
Hexacosane	81	53-142

Type:	BSD	Analyzed:	03/05/04
Lab ID:	QC243040	Cleanup Method:	EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	1,898	76	57-128	4	38

Surrogate	%REC	Limits
Hexacosane	79	53-142

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	170945	Prep:	SHAKER TABLE
Client:	Geomatrix Consultants	Analysis:	EPA 8015B
Project#:	8367.001		
Matrix:	Soil	Sampled:	03/03/04
Units:	mg/Kg	Received:	03/03/04
Basis:	as received	Prepared:	03/03/04
Batch#:	89016	Analyzed:	03/04/04

Field ID: UST-B-6.0 Diln Fac: 1.000
Type: SAMPLE Cleanup Method: EPA 3630C
Lab ID: 170945-002

Analyte	Result	RL
Diesel C10-C24	2.6 H Y	1.0
Motor Oil C24-C36	47	5.0

Surrogate	%REC	Limits
Hexacosane	76	52-131

Field ID: SP-30304 Diln Fac: 5.000
Type: SAMPLE Cleanup Method: EPA 3630C
Lab ID: 170945-003

Analyte	Result	RL
Diesel C10-C24	1,700	5.0
Motor Oil C24-C36	170 L Y	25

Surrogate	%REC	Limits
Hexacosane	108	52-131

Field ID: SW-N-30304 Diln Fac: 1.000
Type: SAMPLE Cleanup Method: EPA 3630C
Lab ID: 170945-005

Analyte	Result	RL
Diesel C10-C24	30 H Y	1.0
Motor Oil C24-C36	110	5.0

Surrogate	%REC	Limits
Hexacosane	72	52-131

Type: BLANK Diln Fac: 1.000
Lab ID: QC243048 Cleanup Method: EPA 3630C

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

Surrogate	%REC	Limits
Hexacosane	93	52-131

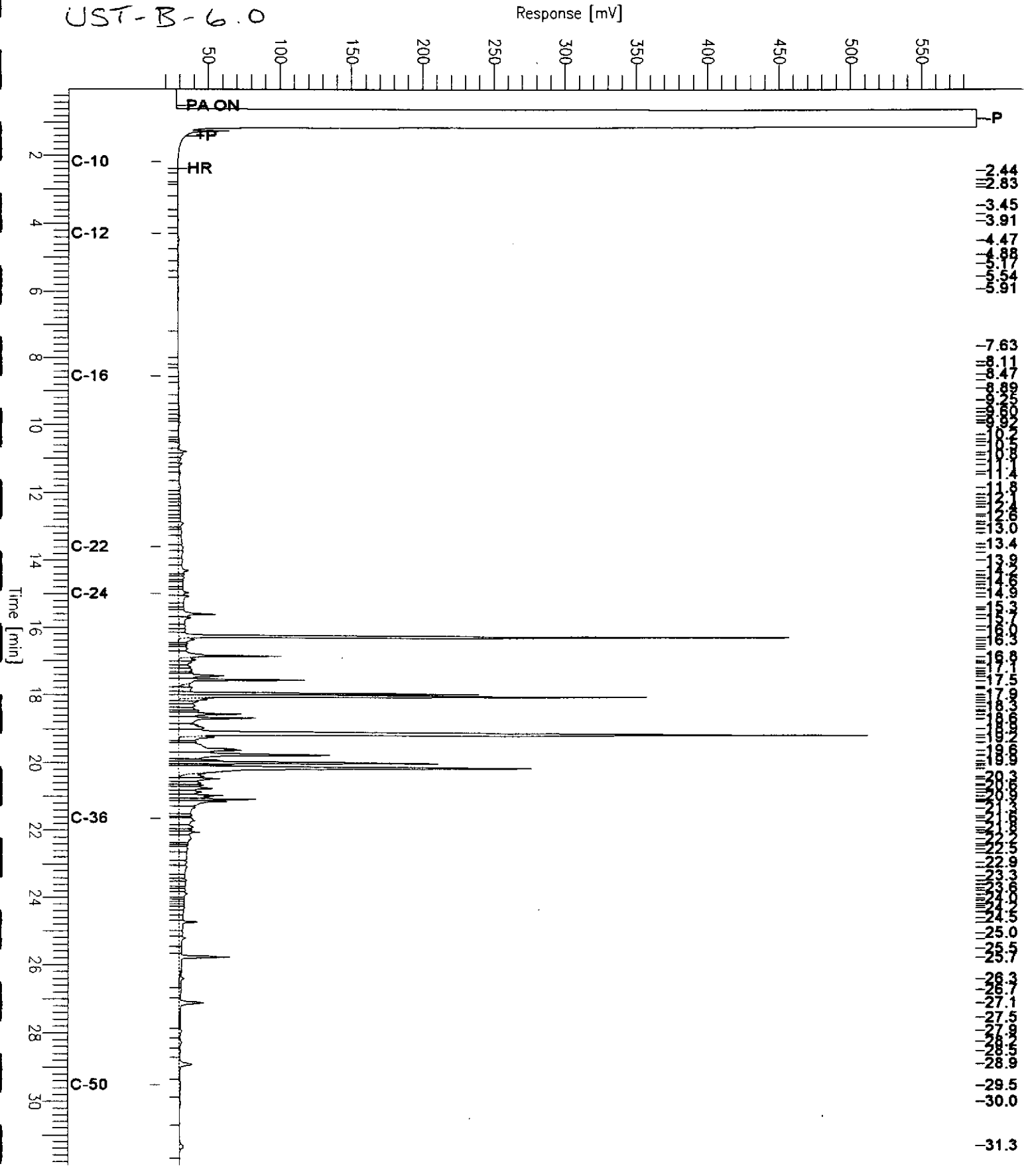
H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Chromatogram

Sample Name : 170945-002,89016 SJ SV. 03/04/04
FileName : G:\GC17\CHA\060A125.RAW
Method : ATEH064.MTH
Start Time : 0.01 min End Time : 31.91 min
Scale Factor: 0.0 Plot Offset: 17 mV

Sample #: 89016 Page 1 of 1
Date : 3/4/04 01:07 PM
Time of Injection: 3/4/04 12:31 PM
Low Point : 16.81 mV High Point : 588.73 mV
Plot Scale: 571.9 mV

UST-B-6.0

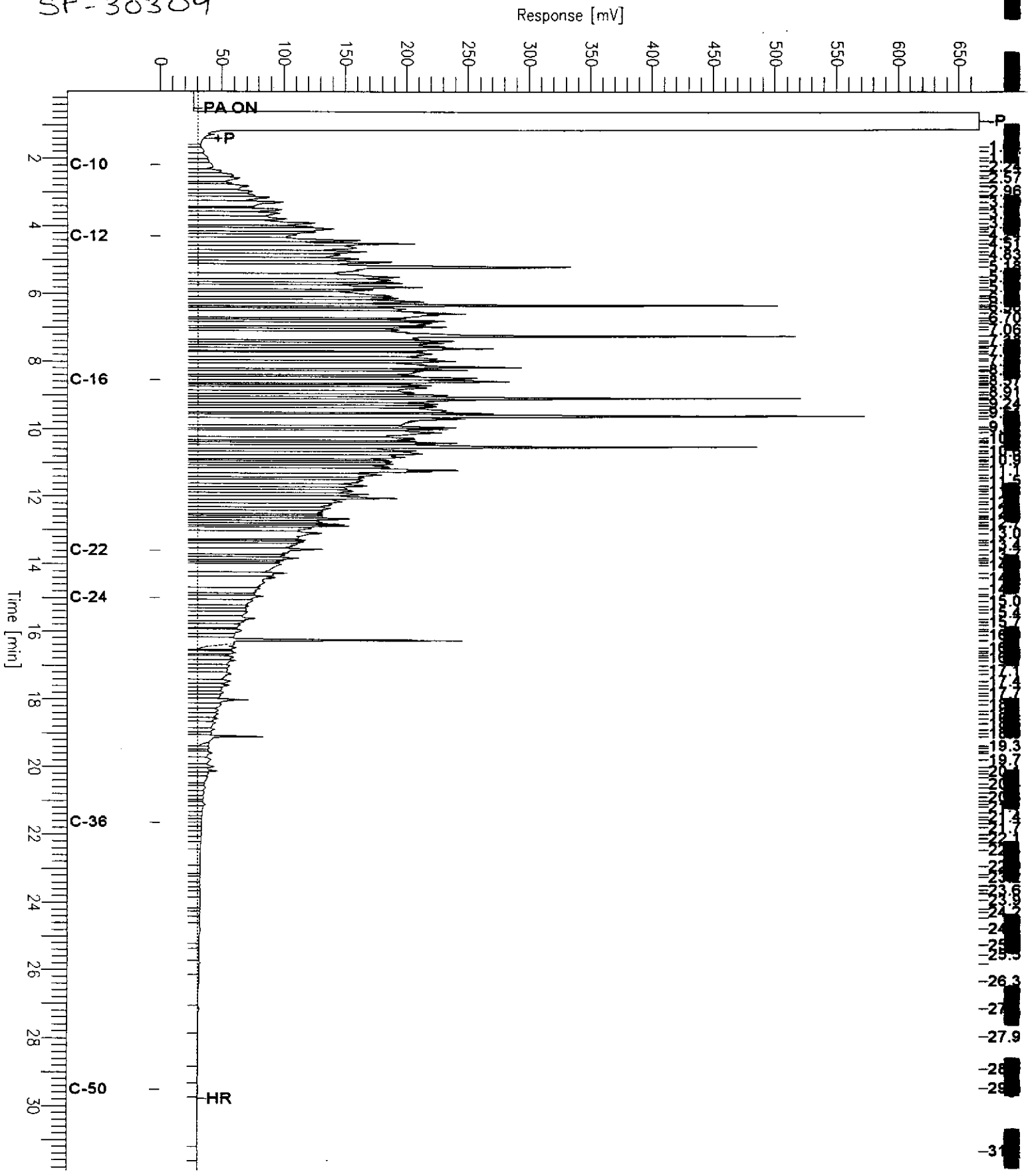


Chromatogram

Sample Name : 170945-003sg,89016
FileName : G:\GC17\CHA\060A128.RAW
Method : ATEH064.MTH
Start Time : 0.01 min End Time : 31.91 min
Scale Factor: 0.0 Plot Offset: -0 mV

Sample #: 89016 Page 1 of 1
Date : 3/4/04 03:26 PM
Time of Injection: 3/4/04 02:52 PM
Low Point : -0.22 mV High Point : 666.81 mV
Plot Scale: 667.0 mV

SP-30304

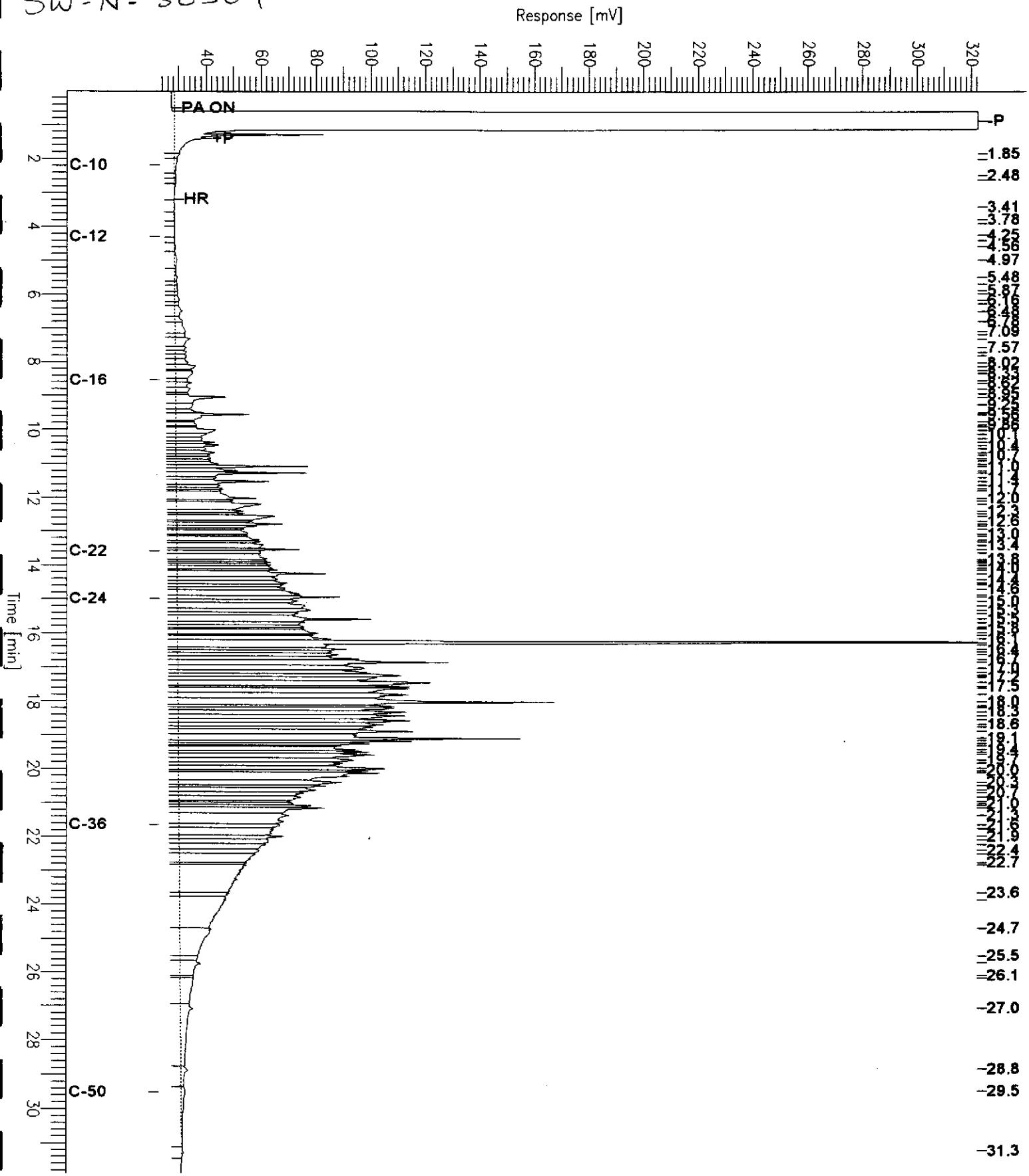


Chromatogram

Sample Name : 170945-005,89016 SG SV 03/04/04
FileName : G:\GC17\CHA\060A127.RAW
Method : ATEH064.MTH
Start Time : 0.01 min End Time : 31.91 min
Scale Factor: 0.0 Plot Offset: 23 mV

Sample #: 89016 Page 1 of 1
Date : 3/4/04 02:47 PM
Time of Injection: 3/4/04 01:51 PM
Low Point : 23.04 mV High Point : 322.38 mV
Plot Scale: 299.3 mV

SW-N-30304



Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	170945	Prep:	SHAKER TABLE
Client:	Geomatrix Consultants	Analysis:	EPA 8015B
Project#:	8367.001		
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC243049	Batch#:	89016
Matrix:	Soil	Prepared:	03/03/04
Units:	mg/Kg	Analyzed:	03/04/04
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.68	36.32	73	56-129

Surrogate	%REC	Limits
Hexacosane	83	52-131

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	170945	Prep:	SHAKER TABLE
Client:	Geomatrix Consultants	Analysis:	EPA 8015B
Project#:	8367.001		
Field ID:	ZZZZZZZZZZ	Batch#:	89016
MSS Lab ID:	170942-006	Sampled:	03/03/04
Matrix:	Soil	Received:	03/03/04
Units:	mg/Kg	Prepared:	03/03/04
Basis:	as received	Analyzed:	03/04/04
Diln Fac:	1.000		

Type: MS Lab ID: QC243050

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	0.1584	50.44	46.73	92	27-146

Surrogate	%REC	Limits
Hexacosane	93	52-131

Type: MSD Lab ID: QC243051

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.95	47.60	95	27-146	3	50

Surrogate	%REC	Limits
Hexacosane	97	52-131

RPD= Relative Percent Difference

Chromatogram

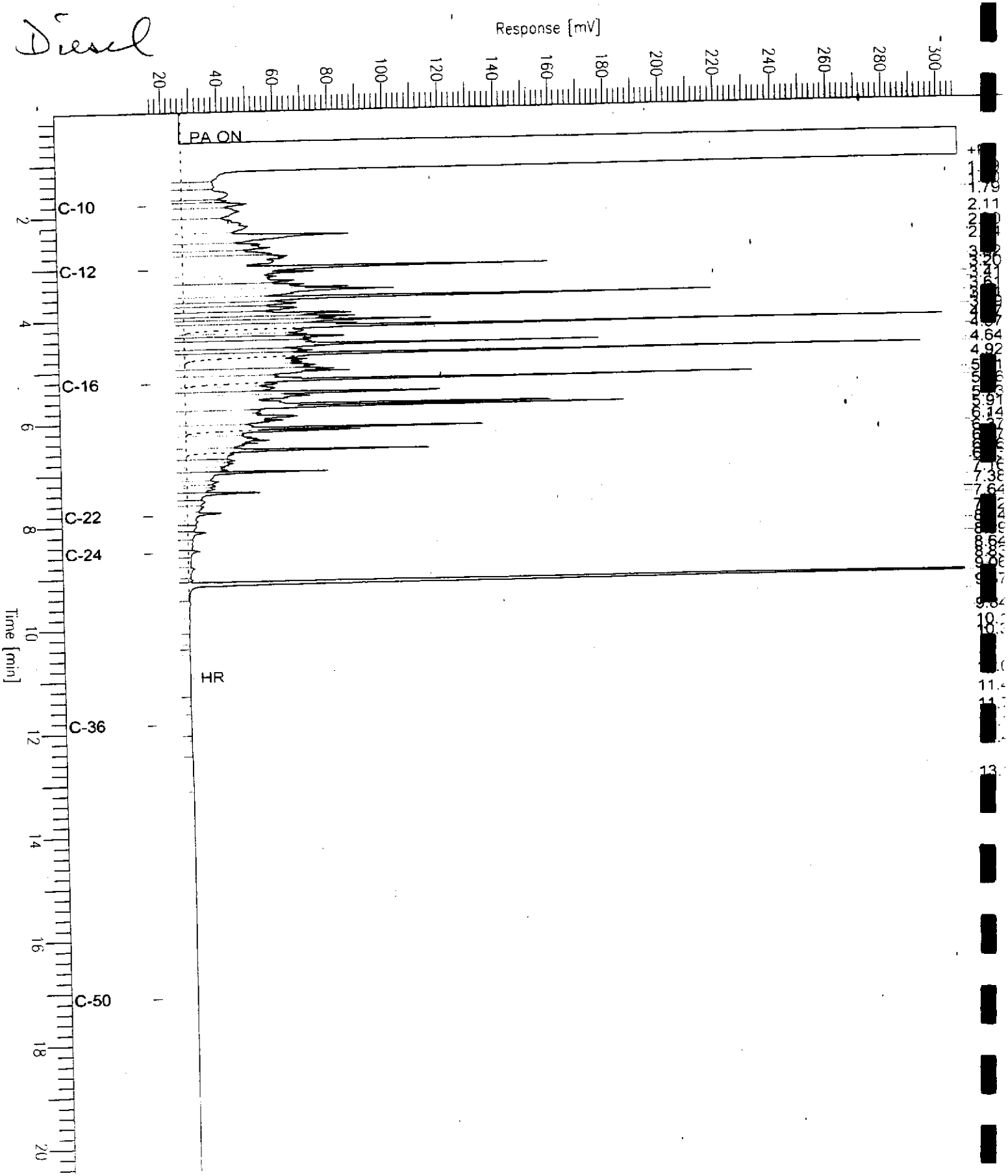
Sample Name : ccv,03ws2078,dsl
FileName : G:\GC11\CHA\063A002.RAW
Method : ATEH057S.MTH
Start Time : 0.01 min
Scale Factor: 0.0

End Time : 20.45 min
Plot Offset: 15 mV

Sample #: 500mg/L
Date : 3/3/04 01:55 PM
Time of Injection: 3/3/04 12:29 PM
Low Point : 14.72 mV
Plot Scale: 292.7 mV

High Point : 307.42 mV

Diesel

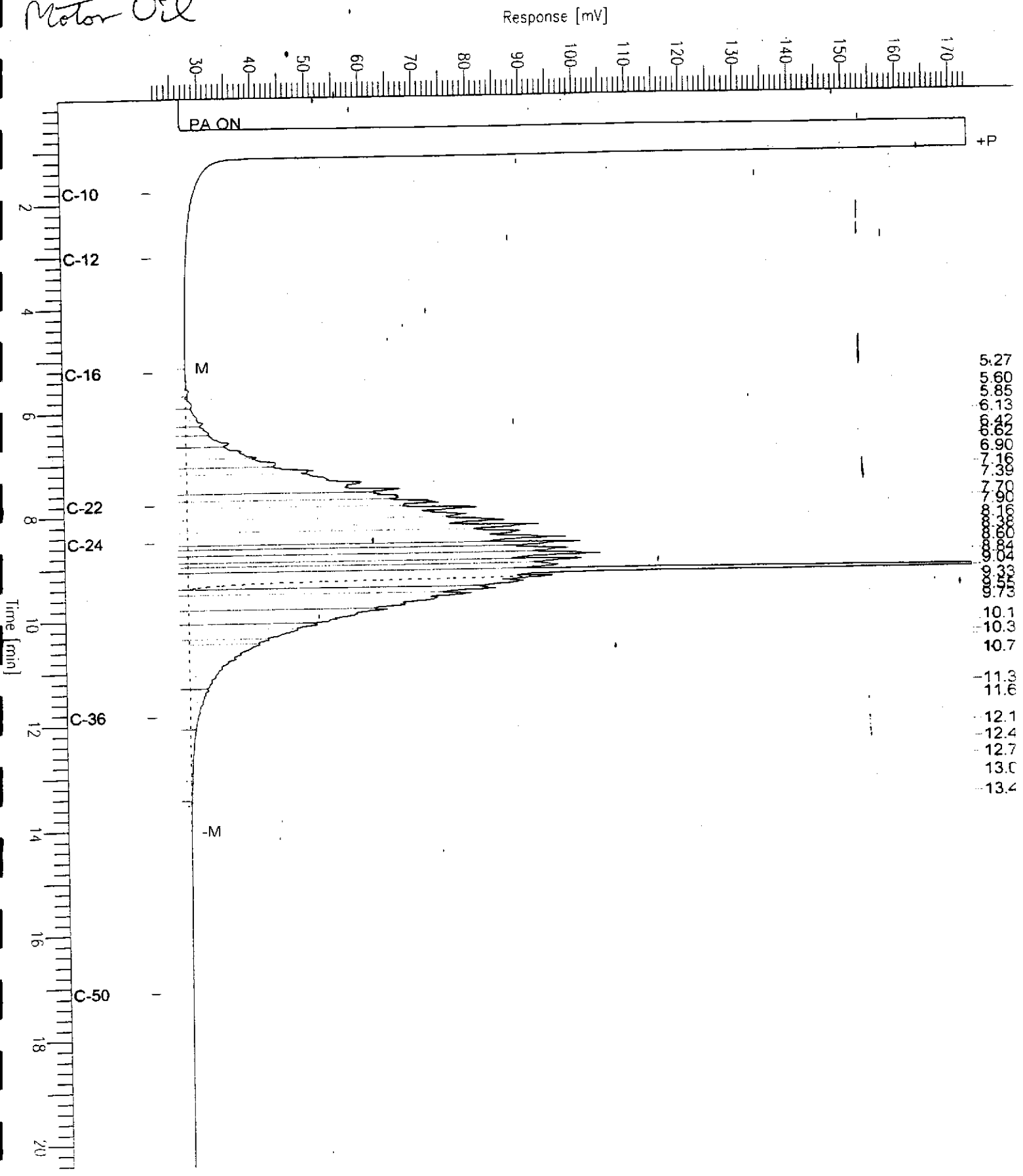


Chromatogram

Sample Name : ccv,04ws0244,mo
FileName : G:\GC11\CHA\063A003.RAW
Method : ATEH057S.MTH
Start Time : 0.01 min End Time : 20.45 min
Scale Factor: 0.0 Plot Offset: 22 mV

Sample #: 500mg/L
Date : 3/3/04 01:56 PM
Time of Injection: 3/3/04 12:58 PM
Low Point : 21.54 mV High Point : 173.36 mV
Plot Scale: 151.8 mV

Motor Oil



Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	170945	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8260B
Project#:	8367.001		
Field ID:	PITWATER-30304	Batch#:	89029
Lab ID:	170945-004	Sampled:	03/03/04
Matrix:	Water	Received:	03/03/04
Units:	ug/L	Analyzed:	03/04/04
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	48	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	12	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	170945	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8260B
Project#:	8367.001		
Field ID:	PITWATER-30304	Batch#:	89029
Lab ID:	170945-004	Sampled:	03/03/04
Matrix:	Water	Received:	03/03/04
Units:	ug/L	Analyzed:	03/04/04
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	0.7	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	0.7	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-120
1,2-Dichloroethane-d4	100	80-124
Toluene-d8	97	80-120
Bromofluorobenzene	104	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	170945	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8260B
Project#:	8367.001		
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC243106	Batch#:	89029
Matrix:	Water	Analyzed:	03/04/04
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	170945	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8260B
Project#:	8367.001		
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC243106	Batch#:	89029
Matrix:	Water	Analyzed:	03/04/04
Units:	ug/L		

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

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-120
1,2-Dichloroethane-d4	99	80-124
Toluene-d8	97	80-120
Bromofluorobenzene	100	80-120

ND= Not Detected
RL= Reporting Limit

28.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	170945	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8260B
Project#:	8367.001		
Matrix:	Water	Batch#:	89029
Units:	ug/L	Analyzed:	03/04/04
Diln Fac:	1.000		

Type: BS Lab ID: QC243104

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	48.15	96	76-120
Benzene	50.00	47.68	95	80-120
Trichloroethene	50.00	48.37	97	80-120
Toluene	50.00	48.01	96	80-120
Chlorobenzene	50.00	49.57	99	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-120
1,2-Dichloroethane-d4	103	80-124
Toluene-d8	100	80-120
Bromofluorobenzene	100	80-120

Type: BSD Lab ID: QC243105

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	49.41	99	76-120	3	20
Benzene	50.00	47.70	95	80-120	0	20
Trichloroethene	50.00	49.51	99	80-120	2	20
Toluene	50.00	48.26	97	80-120	1	20
Chlorobenzene	50.00	50.46	101	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-120
1,2-Dichloroethane-d4	103	80-124
Toluene-d8	98	80-120
Bromofluorobenzene	100	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	170945	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8260B
Project#:	8367.001		
Field ID:	UST-B-6.0	Diln Fac:	0.9259
Lab ID:	170945-002	Batch#:	89033
Matrix:	Soil	Sampled:	03/03/04
Units:	ug/Kg	Received:	03/03/04
Basis:	as received	Analyzed:	03/04/04

Analyte	Result	RL
Freon 12	ND	9.3
Chloromethane	ND	9.3
Vinyl Chloride	ND	9.3
Bromomethane	ND	9.3
Chloroethane	ND	9.3
Trichlorofluoromethane	ND	4.6
Acetone	140	19
Freon 113	ND	4.6
1,1-Dichloroethene	ND	4.6
Methylene Chloride	42	19
Carbon Disulfide	ND	4.6
MTBE	ND	4.6
trans-1,2-Dichloroethene	ND	4.6
Vinyl Acetate	ND	46
1,1-Dichloroethane	ND	4.6
2-Butanone	35	9.3
cis-1,2-Dichloroethene	ND	4.6
2,2-Dichloropropane	ND	4.6
Chloroform	ND	4.6
Bromochloromethane	ND	4.6
1,1,1-Trichloroethane	ND	4.6
1,1-Dichloropropene	ND	4.6
Carbon Tetrachloride	ND	4.6
1,2-Dichloroethane	ND	4.6
Benzene	ND	4.6
Trichloroethene	ND	4.6
1,2-Dichloropropane	ND	4.6
Bromodichloromethane	ND	4.6
Dibromomethane	ND	4.6
4-Methyl-2-Pentanone	ND	9.3
cis-1,3-Dichloropropene	ND	4.6
Toluene	ND	4.6
trans-1,3-Dichloropropene	ND	4.6
1,1,2-Trichloroethane	ND	4.6
2-Hexanone	ND	9.3
1,3-Dichloropropane	ND	4.6
Tetrachloroethene	ND	4.6

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	170945	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8260B
Project#:	8367.001		
Field ID:	UST-B-6.0	Diln Fac:	0.9259
Lab ID:	170945-002	Batch#:	89033
Matrix:	Soil	Sampled:	03/03/04
Units:	ug/Kg	Received:	03/03/04
Basis:	as received	Analyzed:	03/04/04

Analyte	Result	RL
Dibromochloromethane	ND	4.6
1,2-Dibromoethane	ND	4.6
Chlorobenzene	ND	4.6
1,1,1,2-Tetrachloroethane	ND	4.6
Ethylbenzene	ND	4.6
m,p-Xylenes	ND	4.6
o-Xylene	ND	4.6
Styrene	ND	4.6
Bromoform	ND	4.6
Isopropylbenzene	ND	4.6
1,1,2,2-Tetrachloroethane	ND	4.6
1,2,3-Trichloropropane	ND	4.6
Propylbenzene	ND	4.6
Bromobenzene	ND	4.6
1,3,5-Trimethylbenzene	ND	4.6
2-Chlorotoluene	ND	4.6
4-Chlorotoluene	ND	4.6
tert-Butylbenzene	ND	4.6
1,2,4-Trimethylbenzene	ND	4.6
sec-Butylbenzene	ND	4.6
para-Isopropyl Toluene	ND	4.6
1,3-Dichlorobenzene	ND	4.6
1,4-Dichlorobenzene	ND	4.6
n-Butylbenzene	ND	4.6
1,2-Dichlorobenzene	ND	4.6
1,2-Dibromo-3-Chloropropane	ND	4.6
1,2,4-Trichlorobenzene	ND	4.6
Hexachlorobutadiene	ND	4.6
Naphthalene	ND	4.6
1,2,3-Trichlorobenzene	ND	4.6

Surrogate	%REC	Limits
Dibromofluoromethane	114	80-120
1,2-Dichloroethane-d4	108	80-120
Toluene-d8	101	80-120
Bromofluorobenzene	102	80-123

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	170945	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8260B
Project#:	8367.001		
Field ID:	SP-30304	Diln Fac:	0.9804
Lab ID:	170945-003	Batch#:	89033
Matrix:	Soil	Sampled:	03/03/04
Units:	ug/Kg	Received:	03/03/04
Basis:	as received	Analyzed:	03/04/04

Analyte	Result	RL
Freon 12	ND	9.8
Chloromethane	ND	9.8
Vinyl Chloride	ND	9.8
Bromomethane	ND	9.8
Chloroethane	ND	9.8
Trichlorofluoromethane	ND	4.9
Acetone	100	20
Freon 113	ND	4.9
1,1-Dichloroethene	ND	4.9
Methylene Chloride	ND	20
Carbon Disulfide	ND	4.9
MTBE	ND	4.9
trans-1,2-Dichloroethene	ND	4.9
Vinyl Acetate	ND	49
1,1-Dichloroethane	ND	4.9
2-Butanone	17	9.8
cis-1,2-Dichloroethene	ND	4.9
2,2-Dichloropropane	ND	4.9
Chloroform	ND	4.9
Bromochloromethane	ND	4.9
1,1,1-Trichloroethane	ND	4.9
1,1-Dichloropropene	ND	4.9
Carbon Tetrachloride	ND	4.9
1,2-Dichloroethane	ND	4.9
Benzene	ND	4.9
Trichloroethene	ND	4.9
1,2-Dichloropropane	ND	4.9
Bromodichloromethane	ND	4.9
Dibromomethane	ND	4.9
4-Methyl-2-Pentanone	ND	9.8
cis-1,3-Dichloropropene	ND	4.9
Toluene	ND	4.9
trans-1,3-Dichloropropene	ND	4.9
1,1,2-Trichloroethane	ND	4.9
2-Hexanone	ND	9.8
1,3-Dichloropropane	ND	4.9
Tetrachloroethene	ND	4.9

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	170945	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8260B
Project#:	8367.001		
Field ID:	SP-30304	Diln Fac:	0.9804
Lab ID:	170945-003	Batch#:	89033
Matrix:	Soil	Sampled:	03/03/04
Units:	ug/Kg	Received:	03/03/04
Basis:	as received	Analyzed:	03/04/04

Analyte	Result	RL
Dibromochloromethane	ND	4.9
1,2-Dibromoethane	ND	4.9
Chlorobenzene	ND	4.9
1,1,1,2-Tetrachloroethane	ND	4.9
Ethylbenzene	ND	4.9
m,p-Xylenes	ND	4.9
o-Xylene	ND	4.9
Styrene	ND	4.9
Bromoform	ND	4.9
Isopropylbenzene	ND	4.9
1,1,2,2-Tetrachloroethane	ND	4.9
1,2,3-Trichloropropane	ND	4.9
Propylbenzene	ND	4.9
Bromobenzene	ND	4.9
1,3,5-Trimethylbenzene	ND	4.9
2-Chlorotoluene	ND	4.9
4-Chlorotoluene	ND	4.9
tert-Butylbenzene	ND	4.9
1,2,4-Trimethylbenzene	ND	4.9
sec-Butylbenzene	ND	4.9
para-Isopropyl Toluene	ND	4.9
1,3-Dichlorobenzene	ND	4.9
1,4-Dichlorobenzene	ND	4.9
n-Butylbenzene	ND	4.9
1,2-Dichlorobenzene	ND	4.9
1,2-Dibromo-3-Chloropropane	ND	4.9
1,2,4-Trichlorobenzene	ND	4.9
Hexachlorobutadiene	ND	4.9
Naphthalene	ND	4.9
1,2,3-Trichlorobenzene	ND	4.9

Surrogate	%REC	Limits
Dibromofluoromethane	111	80-120
1,2-Dichloroethane-d4	107	80-120
Toluene-d8	99	80-120
Bromofluorobenzene	97	80-123

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	170945	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8260B
Project#:	8367.001		
Field ID:	SW-N-30304	Diln Fac:	0.9259
Lab ID:	170945-005	Batch#:	88993
Matrix:	Soil	Sampled:	03/03/04
Units:	ug/Kg	Received:	03/03/04
Basis:	as received	Analyzed:	03/03/04

Analyte	Result	RL
Freon 12	ND	9.3
Chloromethane	ND	9.3
Vinyl Chloride	ND	9.3
Bromomethane	ND	9.3
Chloroethane	ND	9.3
Trichlorofluoromethane	ND	4.6
Acetone	ND	19
Freon 113	ND	4.6
1,1-Dichloroethene	ND	4.6
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.6
MTBE	ND	4.6
trans-1,2-Dichloroethene	ND	4.6
Vinyl Acetate	ND	46
1,1-Dichloroethane	ND	4.6
2-Butanone	ND	9.3
cis-1,2-Dichloroethene	ND	4.6
2,2-Dichloropropane	ND	4.6
Chloroform	ND	4.6
Bromochloromethane	ND	4.6
1,1,1-Trichloroethane	ND	4.6
1,1-Dichloropropene	ND	4.6
Carbon Tetrachloride	ND	4.6
1,2-Dichloroethane	ND	4.6
Benzene	ND	4.6
Trichloroethene	ND	4.6
1,2-Dichloropropane	ND	4.6
Bromodichloromethane	ND	4.6
Dibromomethane	ND	4.6
4-Methyl-2-Pentanone	ND	9.3
cis-1,3-Dichloropropene	ND	4.6
Toluene	ND	4.6
trans-1,3-Dichloropropene	ND	4.6
1,1,2-Trichloroethane	ND	4.6
2-Hexanone	ND	9.3
1,3-Dichloropropane	ND	4.6
Tetrachloroethene	ND	4.6
Dibromochloromethane	ND	4.6
1,2-Dibromoethane	ND	4.6
Chlorobenzene	ND	4.6
1,1,1,2-Tetrachloroethane	ND	4.6
Ethylbenzene	ND	4.6
m,p-Xylenes	ND	4.6
o-Xylene	ND	4.6
Styrene	ND	4.6
Bromoform	ND	4.6
Isopropylbenzene	ND	4.6
1,1,2,2-Tetrachloroethane	ND	4.6
1,2,3-Trichloropropane	ND	4.6
Propylbenzene	ND	4.6
Bromobenzene	ND	4.6
1,3,5-Trimethylbenzene	ND	4.6
2-Chlorotoluene	ND	4.6
4-Chlorotoluene	ND	4.6

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

22.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	170945	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8260B
Project#:	8367.001		
Field ID:	SW-N-30304	Diln Fac:	0.9259
Lab ID:	170945-005	Batch#:	88993
Matrix:	Soil	Sampled:	03/03/04
Units:	ug/Kg	Received:	03/03/04
Basis:	as received	Analyzed:	03/03/04

Analyte	Result	RL
tert-Butylbenzene	ND	4.6
1,2,4-Trimethylbenzene	ND	4.6
sec-Butylbenzene	ND	4.6
para-Isopropyl Toluene	ND	4.6
1,3-Dichlorobenzene	ND	4.6
1,4-Dichlorobenzene	ND	4.6
n-Butylbenzene	ND	4.6
1,2-Dichlorobenzene	ND	4.6
1,2-Dibromo-3-Chloropropane	ND	4.6
1,2,4-Trichlorobenzene	ND	4.6
Hexachlorobutadiene	ND	4.6
Naphthalene	ND	4.6
1,2,3-Trichlorobenzene	ND	4.6

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-120
1,2-Dichloroethane-d4	89	80-120
Toluene-d8	92	80-120
Bromofluorobenzene	127 *	80-123

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

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	170945	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8260B
Project#:	8367.001		
Type:	BLANK	Basis:	as received
Lab ID:	QC242965	Diln Fac:	1.000
Matrix:	Soil	Batch#:	88993
Units:	ug/Kg	Analyzed:	03/03/04

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

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

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	170945	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8260B
Project#:	8367.001		
Type:	BLANK	Basis:	as received
Lab ID:	QC242965	Diln Fac:	1.000
Matrix:	Soil	Batch#:	88993
Units:	ug/Kg	Analyzed:	03/03/04

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	89	80-120
1,2-Dichloroethane-d4	85	80-120
Toluene-d8	94	80-120
Bromofluorobenzene	124 *	80-123

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

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	170945	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8260B
Project#:	8367.001		
Type:	BLANK	Basis:	as received
Lab ID:	QC243121	Diln Fac:	1.000
Matrix:	Soil	Batch#:	89033
Units:	ug/Kg	Analyzed:	03/04/04

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
Dibromochloromethane	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	170945	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8260B
Project#:	8367.001		
Type:	BLANK	Basis:	as received
Lab ID:	QC243121	Diln Fac:	1.000
Matrix:	Soil	Batch#:	89033
Units:	ug/Kg	Analyzed:	03/04/04

Analyte	Result	RL
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	113	80-120
1,2-Dichloroethane-d4	106	80-120
Toluene-d8	97	80-120
Bromofluorobenzene	102	80-123

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	170945	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8260B
Project#:	8367.001		
Type:	BLANK	Basis:	as received
Lab ID:	QC243178	Diln Fac:	1.000
Matrix:	Soil	Batch#:	89033
Units:	ug/Kg	Analyzed:	03/04/04

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
Dibromochloromethane	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	170945	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8260B
Project#:	8367.001		
Type:	BLANK	Basis:	as received
Lab ID:	QC243178	Diln Fac:	1.000
Matrix:	Soil	Batch#:	89033
Units:	ug/Kg	Analyzed:	03/04/04

Analyte	Result	RL
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	98	80-120
Bromofluorobenzene	101	80-123

ND= Not Detected
RL= Reporting Limit

36.0

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	170945	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8260B
Project#:	8367.001		
Type:	LCS	Basis:	as received
Lab ID:	QC242963	Diln Fac:	1.000
Matrix:	Soil	Batch#:	88993
Units:	ug/Kg	Analyzed:	03/03/04

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	54.12	108	78-120
Benzene	50.00	50.24	100	80-120
Trichloroethene	50.00	54.11	108	80-120
Toluene	50.00	46.07	92	80-120
Chlorobenzene	50.00	51.41	103	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-120
1,2-Dichloroethane-d4	93	80-120
Toluene-d8	90	80-120
Bromofluorobenzene	112	80-123

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	170945	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8260B
Project#:	8367.001		
Type:	LCS	Basis:	as received
Lab ID:	QC243119	Diln Fac:	1.000
Matrix:	Soil	Batch#:	89033
Units:	ug/Kg	Analyzed:	03/04/04

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	51.95	104	78-120
Benzene	50.00	51.07	102	80-120
Trichloroethene	50.00	50.94	102	80-120
Toluene	50.00	53.77	108	80-120
Chlorobenzene	50.00	50.49	101	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-120
1,2-Dichloroethane-d4	103	80-120
Toluene-d8	105	80-120
Bromofluorobenzene	97	80-123

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	170945	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8260B
Project#:	8367.001		
Field ID:	ZZZZZZZZZZ	Diln Fac:	0.8929
MSS Lab ID:	170874-010	Batch#:	88993
Matrix:	Soil	Sampled:	02/27/04
Units:	ug/Kg	Received:	02/27/04
Basis:	as received	Analyzed:	03/05/04

Type: MS Lab ID: QC243041

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.6400	44.64	42.89	96	69-120
Benzene	<0.3800	44.64	39.82	89	67-120
Trichloroethene	<1.000	44.64	43.15	97	62-131
Toluene	<0.5200	44.64	41.27	92	61-120
Chlorobenzene	<0.3500	44.64	38.21	86	58-120

Surrogate	%REC	Limits
Dibromofluoromethane	92	80-120
1,2-Dichloroethane-d4	93	80-120
Toluene-d8	101	80-120
Bromofluorobenzene	97	80-123

Type: MSD Lab ID: QC243042

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	44.64	40.88	92	69-120	5	20
Benzene	44.64	39.50	88	67-120	1	20
Trichloroethene	44.64	41.93	94	62-131	3	20
Toluene	44.64	40.64	91	61-120	2	20
Chlorobenzene	44.64	38.34	86	58-120	0	20

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-120
1,2-Dichloroethane-d4	92	80-120
Toluene-d8	99	80-120
Bromofluorobenzene	100	80-123

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	170945	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8260B
Project#:	8367.001		
Field ID:	ZZZZZZZZZZ	Diln Fac:	0.9804
MSS Lab ID:	170948-001	Batch#:	89033
Matrix:	Soil	Sampled:	03/03/04
Units:	ug/Kg	Received:	03/03/04
Basis:	as received		

Type: MS Analyzed: 03/04/04
Lab ID: QC243176

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.4400	49.02	48.20	98	69-120
Benzene	<0.05400	49.02	43.95	90	67-120
Trichloroethene	<0.1100	49.02	45.34	92	62-131
Toluene	<0.1300	49.02	44.95	92	61-120
Chlorobenzene	<0.07500	49.02	41.61	85	58-120

Surrogate	%REC	Limits
Dibromofluoromethane	92	80-120
1,2-Dichloroethane-d4	93	80-120
Toluene-d8	101	80-120
Bromofluorobenzene	96	80-123

Type: MSD Analyzed: 03/05/04
Lab ID: QC243177

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	49.02	46.86	96	69-120	3	20
Benzene	49.02	43.28	88	67-120	2	20
Trichloroethene	49.02	44.05	90	62-131	3	20
Toluene	49.02	44.71	91	61-120	1	20
Chlorobenzene	49.02	41.26	84	58-120	1	20

Surrogate	%REC	Limits
Dibromofluoromethane	90	80-120
1,2-Dichloroethane-d4	92	80-120
Toluene-d8	103	80-120
Bromofluorobenzene	98	80-123

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	170945	Prep:	EPA 3550
Client:	Geomatrix Consultants	Analysis:	EPA 8270C
Project#:	8367.001		
Field ID:	SP-30304	Batch#:	89043
Lab ID:	170945-003	Sampled:	03/03/04
Matrix:	Soil	Received:	03/03/04
Units:	ug/Kg	Prepared:	03/04/04
Basis:	as received	Analyzed:	03/05/04
Diln Fac:	1.000		

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	660
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	66
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
4-Chloro-3-methylphenol	ND	330
2-Methylnaphthalene	76	66
Hexachlorocyclopentadiene	ND	1,700
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	660
Dimethylphthalate	ND	330
Acenaphthylene	ND	66
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	660
Acenaphthene	ND	66
2,4-Dinitrophenol	ND	1,700
4-Nitrophenol	ND	660
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
Fluorene	190	66
4-Chlorophenyl-phenylether	ND	330
4-Nitroaniline	ND	660
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	660
Phenanthrene	ND	66
Anthracene	ND	66
Di-n-butylphthalate	ND	330
Fluoranthene	ND	66

D= Not Detected
L= Reporting Limit

42:1

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	170945	Prep:	EPA 3550
Client:	Geomatrix Consultants	Analysis:	EPA 8270C
Project#:	8367.001		
Field ID:	SP-30304	Batch#:	89043
Lab ID:	170945-003	Sampled:	03/03/04
Matrix:	Soil	Received:	03/03/04
Units:	ug/Kg	Prepared:	03/04/04
Basis:	as received	Analyzed:	03/05/04
Diln Fac:	1.000		

Analyte	Result	RL
Pyrene	ND	66
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	660
Benzo(a)anthracene	ND	66
Chrysene	ND	66
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	98	66
Benzo(k)fluoranthene	ND	66
Benzo(a)pyrene	ND	66
Indeno(1,2,3-cd)pyrene	ND	66
Dibenz(a,h)anthracene	ND	66
Benzo(g,h,i)perylene	ND	66

Surrogate	%REC	Limits
2-Fluorophenol	56	41-120
Phenol-d5	55	39-120
2,4,6-Tribromophenol	59	33-120
Nitrobenzene-d5	65	44-120
2-Fluorobiphenyl	54	48-120
Terphenyl-d14	49	37-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	170945	Prep:	EPA 3550
Client:	Geomatrix Consultants	Analysis:	EPA 8270C
Project#:	8367.001		
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC243154	Batch#:	89043
Matrix:	Soil	Prepared:	03/04/04
Units:	ug/Kg	Analyzed:	03/04/04
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	660
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	66
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
4-Chloro-3-methylphenol	ND	330
2-Methylnaphthalene	ND	66
Hexachlorocyclopentadiene	ND	1,700
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	660
Dimethylphthalate	ND	330
Acenaphthylene	ND	66
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	660
Acenaphthene	ND	66
2,4-Dinitrophenol	ND	1,700
4-Nitrophenol	ND	660
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
Fluorene	ND	66
4-Chlorophenyl-phenylether	ND	330
4-Nitroaniline	ND	660
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	660
Phenanthrene	ND	66
Anthracene	ND	66
Di-n-butylphthalate	ND	330
Fluoranthene	ND	66
Pyrene	ND	66

ND= Not Detected
RL= Reporting Limit

43.0

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	170945	Prep:	EPA 3550
Client:	Geomatrix Consultants	Analysis:	EPA 8270C
Project#:	8367.001		
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC243154	Batch#:	89043
Matrix:	Soil	Prepared:	03/04/04
Units:	ug/Kg	Analyzed:	03/04/04
Basis:	as received		

Analyte	Result	RL
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	660
Benzo(a)anthracene	ND	66
Chrysene	ND	66
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	66
Benzo(k)fluoranthene	ND	66
Benzo(a)pyrene	ND	66
Indeno(1,2,3-cd)pyrene	ND	66
Dibenz(a,h)anthracene	ND	66
Benzo(g,h,i)perylene	ND	66

Surrogate	%REC	Limits
2-Fluorophenol	54	41-120
Phenol-d5	54	39-120
2,4,6-Tribromophenol	42	33-120
Nitrobenzene-d5	55	44-120
2-Fluorobiphenyl	56	48-120
Terphenyl-d14	47	37-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	170945	Prep:	EPA 3550
Client:	Geomatrix Consultants	Analysis:	EPA 8270C
Project#:	8367.001		
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC243155	Batch#:	89043
Matrix:	Soil	Prepared:	03/04/04
Units:	ug/Kg	Analyzed:	03/05/04
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Phenol	3,324	2,618	79	48-120
2-Chlorophenol	3,324	2,659	80	52-120
1,4-Dichlorobenzene	1,662	1,409	85	50-120
N-Nitroso-di-n-propylamine	1,662	1,355	82	48-120
1,2,4-Trichlorobenzene	1,662	1,394	84	51-120
4-Chloro-3-methylphenol	3,324	2,750	83	53-120
Acenaphthene	1,662	1,364	82	50-120
4-Nitrophenol	3,324	3,153	95	40-128
2,4-Dinitrotoluene	1,662	1,348	81	49-120
Pentachlorophenol	3,324	2,658	80	38-120
Pyrene	1,662	1,351	81	46-120

Surrogate	%REC	Limits
2-Fluorophenol	79	41-120
Phenol-d5	78	39-120
2,4,6-Tribromophenol	90	33-120
Nitrobenzene-d5	84	44-120
2-Fluorobiphenyl	85	48-120
Terphenyl-d14	76	37-120

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	170945	Prep:	EPA 3550
Client:	Geomatrix Consultants	Analysis:	EPA 8270C
Project#:	8367.001		
Field ID:	ZZZZZZZZZZ	Batch#:	89043
MSS Lab ID:	170915-001	Sampled:	03/01/04
Matrix:	Soil	Received:	03/02/04
Units:	ug/Kg	Prepared:	03/04/04
Basis:	as received	Analyzed:	03/04/04
Diln Fac:	1.000		

Type: MS Lab ID: QC243156

Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	<22.00	3,289	1,996	61	43-120
2-Chlorophenol	<25.00	3,289	2,068	63	45-120
1,4-Dichlorobenzene	<20.00	1,645	1,088	66	44-120
N-Nitroso-di-n-propylamine	<21.00	1,645	1,046	64	43-120
1,2,4-Trichlorobenzene	<23.00	1,645	1,043	63	43-120
4-Chloro-3-methylphenol	<27.00	3,289	2,025	62	45-120
Acenaphthene	<9.900	1,645	973.7	59	45-120
4-Nitrophenol	<38.00	3,289	2,135	65	37-120
2,4-Dinitrotoluene	<28.00	1,645	942.9	57	40-120
Pentachlorophenol	<43.00	3,289	1,915	58	25-120
Pyrene	<9.900	1,645	982.0	60	35-120

Surrogate	%REC	Limits
2-Fluorophenol	62	41-120
Phenol-d5	61	39-120
2,4,6-Tribromophenol	65	33-120
Nitrobenzene-d5	61	44-120
2-Fluorobiphenyl	61	48-120
Terphenyl-d14	56	37-120

Type: MSD Lab ID: QC243157

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	3,366	2,515	75	43-120	21	41
2-Chlorophenol	3,366	2,562	76	45-120	19	38
1,4-Dichlorobenzene	1,683	1,293	77	44-120	15	42
N-Nitroso-di-n-propylamine	1,683	1,286	76	43-120	18	42
1,2,4-Trichlorobenzene	1,683	1,284	76	43-120	18	42
4-Chloro-3-methylphenol	3,366	2,579	77	45-120	22	40
Acenaphthene	1,683	1,215	72	45-120	20	39
4-Nitrophenol	3,366	2,827	84	37-120	26	43
2,4-Dinitrotoluene	1,683	1,203	71	40-120	22	39
Pentachlorophenol	3,366	2,616	78	25-120	29	48
Pyrene	1,683	1,224	73	35-120	20	45

Surrogate	%REC	Limits
2-Fluorophenol	74	41-120
Phenol-d5	74	39-120
2,4,6-Tribromophenol	82	33-120
Nitrobenzene-d5	75	44-120
2-Fluorobiphenyl	74	48-120
Terphenyl-d14	68	37-120

RPD= Relative Percent Difference

45.0

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	170945	Prep:	EPA 3550
Client:	Geomatrix Consultants	Analysis:	EPA 8270C-SIM
Project#:	8367.001		
Field ID:	SW-N-30304	Batch#:	89031
Lab ID:	170945-005	Sampled:	03/03/04
Matrix:	Soil	Received:	03/03/04
Units:	ug/Kg	Prepared:	03/04/04
Basis:	as received	Analyzed:	03/04/04
Diln Fac:	1.000		

Analyte	Result	RL
Naphthalene	15	5.0
Acenaphthylene	21	5.0
Acenaphthene	ND	5.0
Fluorene	7.1	5.0
Phenanthrene	130	5.0
Anthracene	23	5.0
Fluoranthene	200	5.0
Pyrene	240	5.0
Benzo(a)anthracene	74	5.0
Chrysene	99	5.0
Benzo(b)fluoranthene	72	5.0
Benzo(k)fluoranthene	57	5.0
Benzo(a)pyrene	110	5.0
Indeno(1,2,3-cd)pyrene	84	5.0
Dibenz(a,h)anthracene	19	5.0
Benzo(g,h,i)perylene	110	5.0

Surrogate	%REC	Limits
Nitrobenzene-d5	120	34-139
2-Fluorobiphenyl	89	34-125
Terphenyl-d14	85	37-131

ND= Not Detected
RL= Reporting Limit

38.0

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	170945	Prep:	EPA 3550
Client:	Geomatrix Consultants	Analysis:	EPA 8270C-SIM
Project#:	8367.001		
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC243112	Batch#:	89031
Matrix:	Soil	Prepared:	03/04/04
Units:	ug/Kg	Analyzed:	03/04/04
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	110	34-139
2-Fluorobiphenyl	87	34-125
Terphenyl-d14	83	37-131

ND= Not Detected
RL= Reporting Limit

39.0

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	170945	Prep:	EPA 3550
Client:	Geomatrix Consultants	Analysis:	EPA 8270C-SIM
Project#:	8367.001		
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC243113	Batch#:	89031
Matrix:	Soil	Prepared:	03/04/04
Units:	ug/Kg	Analyzed:	03/04/04
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	33.49	35.65	106	46-120
Pyrene	33.49	32.65	98	37-120

Surrogate	%REC	Limits
Nitrobenzene-d5	103	34-139
2-Fluorobiphenyl	82	34-125
Terphenyl-d14	76	37-131

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	170945	Prep:	EPA 3550
Client:	Geomatrix Consultants	Analysis:	EPA 8270C-SIM
Project#:	8367.001		
Field ID:	SW-N-30304	Batch#:	89031
MSS Lab ID:	170945-005	Sampled:	03/03/04
Matrix:	Soil	Received:	03/03/04
Units:	ug/Kg	Prepared:	03/04/04
Basis:	as received	Analyzed:	03/04/04
Diln Fac:	1.000		

Type: MS Lab ID: QC243114

Analyte	MSS Result	Spiked	Result	%REC	Limits
Acenaphthene	4.861	33.70	44.64	118	38-130
Pyrene	243.8	33.70	304.6	181 NM	8-164

Surrogate	%REC	Limits
Nitrobenzene-d5	121	34-139
2-Fluorobiphenyl	90	34-125
Terphenyl-d14	87	37-131

Type: MSD Lab ID: QC243115

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	33.00	43.41	117	38-130	1	55
Pyrene	33.00	265.7	66 NM	8-164	13	77

Surrogate	%REC	Limits
Nitrobenzene-d5	116	34-139
2-Fluorobiphenyl	89	34-125
Terphenyl-d14	82	37-131

NM= Not Meaningful
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd

Polychlorinated Biphenyls (PCBs)

Lab #:	170945	Prep:	EPA 3550
Client:	Geomatrix Consultants	Analysis:	EPA 8082
Project#:	8367.001		
Matrix:	Soil	Sampled:	03/03/04
Units:	ug/Kg	Received:	03/03/04
Basis:	as received	Prepared:	03/03/04
Diln Fac:	1.000	Analyzed:	03/04/04
Batch#:	88997		

Field ID: SP-30304 Lab ID: 170945-003
Type: SAMPLE Cleanup Method: EPA 3665A

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	68	63-140
Decachlorobiphenyl	102	46-151

Field ID: SW-N-30304 Lab ID: 170945-005
Type: SAMPLE Cleanup Method: EPA 3665A

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	113	63-140
Decachlorobiphenyl	85	46-151

Type: BLANK Cleanup Method: EPA 3665A
Lab ID: QC242983

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	106	63-140
Decachlorobiphenyl	111	46-151

ND= Not Detected
RL= Reporting Limit

17.0

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	170945	Prep:	EPA 3550
Client:	Geomatrix Consultants	Analysis:	EPA 8082
Project#:	8367.001		
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC242984	Batch#:	88997
Matrix:	Soil	Prepared:	03/03/04
Units:	ug/Kg	Analyzed:	03/04/04
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1242	168.5	183.0	109	77-155

Surrogate	%REC	Limits
TCMX	102	63-140
Decachlorobiphenyl	98	46-151

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	170945	Prep:	EPA 3550
Client:	Geomatrix Consultants	Analysis:	EPA 8082
Project#:	8367.001		
Field ID:	ZZZZZZZZZZ	Batch#:	88997
MSS Lab ID:	170925-024	Sampled:	03/02/04
Matrix:	Soil	Received:	03/02/04
Units:	ug/Kg	Prepared:	03/03/04
Basis:	as received	Analyzed:	03/04/04
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3665A
Lab ID: QC242985

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1242	<5.200	168.6	195.3	116	71-148

Surrogate	%REC	Limits
TCMX	99	63-140
Decachlorobiphenyl	96	46-151

Type: MSD Cleanup Method: EPA 3665A
Lab ID: QC242986

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1242	164.0	229.3	140	71-148	19	31

Surrogate	%REC	Limits
TCMX	114	63-140
Decachlorobiphenyl	78	46-151

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd

California Title 26 Metals

Lab #:	170945	Project#:	8367.001
Client:	Geomatrix Consultants		
Field ID:	SP-30304	Diln Fac:	1.000
Lab ID:	170945-003	Sampled:	03/03/04
Matrix:	Soil	Received:	03/03/04
Units:	mg/Kg	Analyzed:	03/04/04
Basis:	as received		

Analyte	Result	RL	Batch#	Prepared	Prep	Analysis
Antimony	ND	2.5	89018	03/03/04	EPA 3050	EPA 6010B
Arsenic	3.0	0.21	89018	03/03/04	EPA 3050	EPA 6010B
Barium	130	0.42	89018	03/03/04	EPA 3050	EPA 6010B
Beryllium	0.33	0.085	89018	03/03/04	EPA 3050	EPA 6010B
Cadmium	0.50	0.21	89018	03/03/04	EPA 3050	EPA 6010B
Chromium	33	0.42	89018	03/03/04	EPA 3050	EPA 6010B
Cobalt	8.3	0.85	89018	03/03/04	EPA 3050	EPA 6010B
Copper	27	0.42	89018	03/03/04	EPA 3050	EPA 6010B
Lead	13	0.13	89018	03/03/04	EPA 3050	EPA 6010B
Mercury	0.047	0.018	89023	03/04/04	METHOD	EPA 7471
Molybdenum	ND	0.85	89018	03/03/04	EPA 3050	EPA 6010B
Nickel	29	0.85	89018	03/03/04	EPA 3050	EPA 6010B
Selenium	1.6	0.21	89018	03/03/04	EPA 3050	EPA 6010B
Silver	ND	0.21	89018	03/03/04	EPA 3050	EPA 6010B
Thallium	ND	0.21	89018	03/03/04	EPA 3050	EPA 6010B
Vanadium	32	0.42	89018	03/03/04	EPA 3050	EPA 6010B
Zinc	74	0.85	89018	03/03/04	EPA 3050	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	170945	Prep:	EPA 3050
Client:	Geomatrix Consultants	Analysis:	EPA 6010B
Project#:	8367.001		
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC243055	Batch#:	89018
Matrix:	Soil	Prepared:	03/03/04
Units:	mg/Kg	Analyzed:	03/04/04
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

ND= Not Detected
RL= Reporting Limit

8.0

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	170945	Prep:	METHOD
Client:	Geomatrix Consultants	Analysis:	EPA 7471
Project#:	8367.001		
Analyte:	Mercury	Basis:	as received
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC243083	Batch#:	89023
Matrix:	Soil	Prepared:	03/04/04
Units:	mg/Kg	Analyzed:	03/04/04

Result	RL
ND	0.020

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd

Curtis & Tompkins Laboratories Analytical Report

Lab #:	170945	Prep:	EPA 3050
Client:	Geomatrix Consultants	Analysis:	EPA 6010B
Project#:	8367.001		
Matrix:	Soil	Sampled:	03/03/04
Units:	mg/Kg	Received:	03/03/04
Basis:	as received	Prepared:	03/03/04
Batch#:	89018	Analyzed:	03/04/04

Field ID: UST-B-6.0 Lab ID: 170945-002
Type: SAMPLE Diln Fac: 1.000

Analyte	Result	RL
Cadmium	0.27	0.22
Chromium	26	0.44
Lead	10	0.13
Nickel	21	0.88
Zinc	31	0.88

Field ID: SW-N-30304 Lab ID: 170945-005
Type: SAMPLE

Analyte	Result	RL	Diln Fac
Cadmium	3.6	0.24	1.000
Chromium	42	0.48	1.000
Lead	350	0.14	1.000
Nickel	41	0.95	1.000
Zinc	810	9.5	10.00

Type: BLANK Diln Fac: 1.000
Lab ID: QC243055

Analyte	Result	RL
Cadmium	ND	0.25
Chromium	ND	0.50
Lead	ND	0.15
Nickel	ND	1.0
Zinc	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 26 Metals

Lab #:	170945	Prep:	EPA 3050
Client:	Geomatrix Consultants	Analysis:	EPA 6010B
Project#:	8367.001		
Matrix:	Soil	Batch#:	89018
Units:	mg/Kg	Prepared:	03/03/04
Basis:	as received	Analyzed:	03/04/04
Diln Fac:	1.000		

Type: BS Lab ID: QC243056

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	100.5	101	79-128
Arsenic	50.00	52.00	104	79-120
Barium	100.0	100.5	101	80-120
Beryllium	2.500	2.545	102	80-120
Cadmium	10.00	9.750	98	79-120
Chromium	100.0	100.0	100	80-120
Cobalt	25.00	24.80	99	77-120
Copper	12.50	13.00	104	80-120
Lead	100.0	99.50	100	78-120
Molybdenum	20.00	20.35	102	80-120
Nickel	25.00	24.50	98	79-120
Selenium	50.00	49.70	99	71-120
Silver	10.00	10.20	102	78-120
Thallium	50.00	49.15	98	73-120
Vanadium	25.00	25.35	101	80-120
Zinc	25.00	24.45	98	76-120

Type: BSD Lab ID: QC243057

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	96.50	97	79-128	4	20
Arsenic	50.00	48.95	98	79-120	6	20
Barium	100.0	95.50	96	80-120	5	20
Beryllium	2.500	2.420	97	80-120	5	20
Cadmium	10.00	9.200	92	79-120	6	20
Chromium	100.0	95.00	95	80-120	5	20
Cobalt	25.00	23.50	94	77-120	5	20
Copper	12.50	12.50	100	80-120	4	20
Lead	100.0	94.00	94	78-120	6	20
Molybdenum	20.00	19.45	97	80-120	5	20
Nickel	25.00	23.15	93	79-120	6	20
Selenium	50.00	47.25	95	71-120	5	20
Silver	10.00	9.650	97	78-120	6	20
Thallium	50.00	46.10	92	73-120	6	20
Vanadium	25.00	24.00	96	80-120	5	20
Zinc	25.00	23.10	92	76-120	6	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd

Curtis & Tompkins Laboratories Analytical Report

Lab #:	170945	Prep:	EPA 3050
Client:	Geomatrix Consultants	Analysis:	EPA 6010B
Project#:	8367.001		
Matrix:	Soil	Batch#:	89018
Units:	mg/Kg	Prepared:	03/03/04
Basis:	as received	Analyzed:	03/04/04
Diln Fac:	1.000		

Type: BS Lab ID: QC243056

Analyte	Spiked	Result	%REC	Limits
Cadmium	10.00	9.750	98	79-120
Chromium	100.0	100.0	100	80-120
Lead	100.0	99.50	100	78-120
Nickel	25.00	24.50	98	79-120
Zinc	25.00	24.45	98	76-120

Type: BSD Lab ID: QC243057

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Cadmium	10.00	9.200	92	79-120	6	20
Chromium	100.0	95.00	95	80-120	5	20
Lead	100.0	94.00	94	78-120	6	20
Nickel	25.00	23.15	93	79-120	6	20
Zinc	25.00	23.10	92	76-120	6	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd

California Title 26 Metals

Lab #:	170945	Prep:	METHOD
Client:	Geomatrix Consultants	Analysis:	EPA 7471
Project#:	8367.001		
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	89023
Units:	mg/Kg	Prepared:	03/04/04
Basis:	as received	Analyzed:	03/04/04

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC243084	0.5000	0.5250	105	80-120		
BSD	QC243085	0.5000	0.5460	109	80-120	4	20

RPD= Relative Percent Difference

12.0

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California Title 26 Metals

Lab #:	170945	Prep:	EPA 3050
Client:	Geomatrix Consultants	Analysis:	EPA 6010B
Project#:	8367.001		
Field ID:	ZZZZZZZZZZ	Batch#:	89018
MSS Lab ID:	170935-001	Sampled:	03/03/04
Matrix:	Soil	Received:	03/03/04
Units:	mg/Kg	Prepared:	03/03/04
Basis:	as received	Analyzed:	03/04/04
Diln Fac:	1.000		

Type: MS Lab ID: QC243058

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	2.421	93.46	34.72	35	1-120
Arsenic	1.275	46.73	48.13	100	57-120
Barium	54.17	93.46	149.1	102	52-134
Beryllium	0.02058	2.336	2.243	95	65-120
Cadmium	1.267	9.346	9.252	85	57-120
Chromium	234.6	93.46	307.9	78	55-120
Cobalt	42.92	23.36	68.22	108	52-120
Copper	14.75	11.68	57.48	366 *	47-143
Lead	4.542	93.46	90.65	92	42-125
Molybdenum	0.2146	18.69	17.01	90	45-120
Nickel	629.2	23.36	649.5	87 NM	36-138
Selenium	1.296	46.73	46.73	97	42-120
Silver	<0.02300	9.346	9.860	106	66-120
Thallium	<0.1300	46.73	39.86	85	48-120
Vanadium	31.83	23.36	60.28	122	45-136
Zinc	31.92	23.36	55.61	101	34-139

Type: MSD Lab ID: QC243059

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	92.59	31.53	31	1-120	9	44
Arsenic	46.30	45.88	96	57-120	4	28
Barium	92.59	152.3	106	52-134	3	20
Beryllium	2.315	2.167	93	65-120	3	20
Cadmium	9.259	8.611	79	57-120	6	20
Chromium	92.59	300.9	72	55-120	2	20
Cobalt	23.15	67.59	107	52-120	1	20
Copper	11.57	32.59	154 *	47-143	55 *	21
Lead	92.59	86.57	89	42-125	4	30
Molybdenum	18.52	16.81	90	45-120	0	20
Nickel	23.15	671.3	182 NM	36-138	3	24
Selenium	46.30	45.46	95	42-120	2	23
Silver	9.259	9.537	103	66-120	2	20
Thallium	46.30	38.94	84	48-120	1	25
Vanadium	23.15	55.56	102	45-136	8	20
Zinc	23.15	57.41	110	34-139	4	24

*= Value outside of QC limits; see narrative
NM= Not Meaningful
RPD= Relative Percent Difference

11.0

Curtis & Tompkins, Ltd

Curtis & Tompkins Laboratories Analytical Report

Lab #:	170945	Prep:	EPA 3050
Client:	Geomatrix Consultants	Analysis:	EPA 6010B
Project#:	8367.001		
Field ID:	ZZZZZZZZZZ	Batch#:	89018
MSS Lab ID:	170935-001	Sampled:	03/03/04
Matrix:	Soil	Received:	03/03/04
Units:	mg/Kg	Prepared:	03/03/04
Basis:	as received	Analyzed:	03/04/04
Diln Fac:	1.000		

Type: MS Lab ID: QC243058

Analyte	MSS Result	Spiked	Result	%REC	Limits
Cadmium	1.267	9.346	9.252	85	57-120
Chromium	234.6	93.46	307.9	78	55-120
Lead	4.542	93.46	90.65	92	42-125
Nickel	629.2	23.36	649.5	87 NM	36-138
Zinc	31.92	23.36	55.61	101	34-139

Type: MSD Lab ID: QC243059

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Cadmium	9.259	8.611	79	57-120	6	20
Chromium	92.59	300.9	72	55-120	2	20
Lead	92.59	86.57	89	42-125	4	30
Nickel	23.15	671.3	182 NM	36-138	3	24
Zinc	23.15	57.41	110	34-139	4	24

NM= Not Meaningful
RPD= Relative Percent Difference

16.0

Curtis & Tompkins, Ltd

California Title 26 Metals

Lab #:	170945	Prep:	METHOD
Client:	Geomatrix Consultants	Analysis:	EPA 7471
Project#:	8367.001		
Analyte:	Mercury	Diln Fac:	10.00
Field ID:	ZZZZZZZZZZ	Batch#:	89023
MSS Lab ID:	170952-010	Sampled:	03/03/04
Matrix:	Soil	Received:	03/03/04
Units:	mg/Kg	Prepared:	03/04/04
Basis:	as received	Analyzed:	03/04/04

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC243086	0.7606	0.4630	1.343	126	74-131		
MSD	QC243087		0.4386	0.9737	49 *	74-131	30 *	22

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

13.0

Curtis & Tompkins, Ltd

Lead

Lab #:	170945	Prep:	WET
Client:	Geomatrix Consultants	Analysis:	EPA 6010B
Project#:	8367.001		
Analyte:	Lead	Batch#:	89103
Field ID:	SP-30304	Sampled:	03/03/04
Matrix:	WET Leachate	Received:	03/03/04
Units:	ug/L	Prepared:	03/08/04
Diln Fac:	1.000	Analyzed:	03/08/04

Type	Lab ID	Result	RL
SAMPLE	170945-003	ND	1,500
BLANK	QC243393	ND	1,500

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Lead

Lab #:	170945	Prep:	WET
Client:	Geomatrix Consultants	Analysis:	EPA 6010B
Project#:	8367.001		
Analyte:	Lead	Batch#:	89103
Field ID:	SP-30304	Sampled:	03/03/04
MSS Lab ID:	170945-003	Received:	03/03/04
Matrix:	WET Leachate	Prepared:	03/08/04
Units:	ug/L	Analyzed:	03/08/04
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	RPD	Lim
BS	QC243394		2,000	2,102		105	61-131		
BSD	QC243395		2,000	2,006		100	61-131	5	29
SDUP	QC243396	<1,500		ND	1,500			NC	34
SSPIKE	QC243397	<510.0	10,000	10,400		104	40-143		

NC= Not Calculated
ND= Not Detected
RL= Reporting Limit
RPD= Relative Percent Difference

GEOMATRIX

APPENDIX C

Waste Disposal Manifests

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print or type. *Form designed for use on elite (12-pitch) typewriter.*

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
CAL000271644 5	92094 H		

GENERATOR

3. Generator's Name and Mailing Address
Pulte Homes
7031 Knoll Center Parkway #150
Pleasanton, Ca. 94566

4. Generator's Phone 925 249-3200

A. State Manifest Document Number: 23392094

B. State Generator's ID:

5. Transporter 1 Company Name: AMERICAN VALLEY WASTE OIL

6. US EPA ID Number: CAL000827878

C. State Transporter's ID [Reserved.]:

D. Transporter's Phone: 800-732-4645

7. Transporter 2 Company Name:

8. US EPA ID Number:

E. State Transporter's ID [Reserved.]:

F. Transporter's Phone:

~~RIVERBANK OIL TRANSFER~~
5300 CLAUS ROAD
RIVERBANK, CA 95367

10. US EPA ID Number: CAL000190816

G. State Facility's ID: CAL000190816

H. Facility's Phone: 209-863-6181

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. NON-RCRA HAZARDOUS WASTE LIQUID (OILY WATER)	001	TT	01140	G	State 221 / EPA/Other
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above: OILY WATER

K. Handling Codes for Wastes Listed Above: a. 01 b. c. d.

15. Special Handling Instructions and Additional Information
GLOVES
EMERGENCY PHONE 209-887-8857
SITE: 1249 67th.
Emeryville CA 94621

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
Gary Marshall	Gary Marshall	02	27	04

TRANSPORTER

17. Transporter / Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
EDDIE GARCIA		02	27	04

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
KEN KENTON		02	27	04

DO NOT WRITE BELOW THIS LINE.

Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS.
(Generators who submit hazardous waste for transport out-of-state, produce completed copy of this copy and send to DTSC within 30 days.)

DTSC 8022A (1/99)
EPA 8700—22

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

23392094

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

22800265 IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802: WITHIN CALIFORNIA, CALL 1-800-852-7550

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. / Manifest Document No.: CA1000214915 / 00265
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number: 22800265

3. Generator's Name and Mailing Address: PULTE HOMES #150, 7031 KOLL CENTER PKWY, PLEASANTON CA 94566
4. Generator's Phone ( ) 925-249-3200

B. State Generator's ID

5. Transporter 1 Company Name: Ecology Control Industries
6. US EPA ID Number: CAD982030173

C. State Transporter's ID (Reserved.)
D. Transporter's Phone: 510-235-1393

7. Transporter 2 Company Name
8. US EPA ID Number

E. State Transporter's ID (Reserved.)
F. Transporter's Phone

9. Designated Facility Name and Site Address: Ecology Control Industries, 255 PARR BLVD., RICHMOND, CA 94801
10. US EPA ID Number: CAD009466392

G. State Facility's ID
H. Facility's Phone: 510-235-1393

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. NON RCRA HAZARDOUS WASTE SOLID (EMPTY STORAGE TANK)	001	TP	01000	P	State 512; EPA/Other NONE
b. 1019					State; EPA/Other
c.					State; EPA/Other
d.					State; EPA/Other

J. Additional Descriptions for Materials Listed Above
QTY. 1 EMPTYSTORAGE TANK # 31921 TANKS HAVE BEEN INERTED WITH 15 LBS DRY ICE PER 1000 GALLONS CAPACITY
52F1046

K. Handling Codes for Wastes Listed Above
a. 01 b. c. d.

15. Special Handling Instructions and Additional Information
Wear proper protective equipment while handling. Weights or volumes are approximate
24 hour emergancy number: 925 249 3200 SITE ADDRESS: 6574 ST EMERYVILLE
24 hour emergency contact: Tom ECI JIN

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: TOM HOBAN — Signature: Tom Hoban — Month/Day/Year: 03 03 04

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Melvin [illegible] — Signature: [signature] — Month/Day/Year: 03 03 04

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: James Wilcox — Signature: James Wilcox — Month/Day/Year: 03 03 04

DO NOT WRITE BELOW THIS LINE.

Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS. (Generators who submit hazardous waste for transport out-of-state, produce completed copy of this copy and send to DTSC within 30 days.)

REPUBLIC SERVICES, INC.

West Contra Costa County Landfill

NON-HAZARDOUS WASTE MANIFEST

GENERATOR INFORMATION

Generator Name: Pulte Homes
Address: 7031 Koll Center Parkway
City: Pleasanton County: Alameda
State: CA Zip: 94566
Site Location: 1249 67th St., Oakland

CUSTOMER/BILLING INFORMATION

Billing Name: R&B Equipment
Address: 2215 Dunn Rd.
City: Hayward County: Alameda
State: CA Zip: 94545

Republic Services Approval Number	Description of Waste	Volume or Weight	Expiration Date	Container Type
1002468	Soil / Cover	350 Ton(s)	5/24/2004	

Disposal Instructions

Use as cover ONLY. No free liquids or debris. Moisture content MUST be < 50%.

The above Disposal Instructions are a requirement of Republic Services, Inc., for management of the profiled material. The approval is based upon a review of information provided by the generator and is contingent upon the receipt at the disposal facility of a waste material essentially equivalent in chemical and physical characteristics and properties to that profiled.

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR 261 or any applicable state law. Further, that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Mike Kim — for Mike Kim — 3-3-04

Generator/Authorized Agent Name — Signature — Date Shipped

TRANSPORTER INFORMATION

Transporter Name:
Address:
DOT Number:
Truck Number:
Phone Number:

I certify no hazardous waste or other regulated substance was knowingly introduced to the waste while in my custody. The waste transported in this vehicle is the waste identified above, to the best of my knowledge.

Name of Authorized Agent — Signature — Date Delivered

DISPOSAL SITE INFORMATION

Site Name: WCCC LF
Address: Foot of Parr Boulevard
Richmond, CA 94801
Phone Number: (510) 231-4156
Fax Number: (510) 231-4153

I hereby acknowledge receipt of the above described materials.

Ronald P. Parenti — 2-27-04

Name (Print or Type) — Signature — Date Received