

UNDERGROUND STORAGE TANK REMOVAL

209 Brush Street Oakland, California

Prepared for:

Port of Oakland

530 Water Street
Oakland, California 94607

July 2003

Project No. 8207.001

Geomatrix Consultants

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



July 30, 2003 Project 8207.001

Mr. Michael McMillan Port of Oakland 530 Water Street, Second Floor Oakland, California 94607

Subject:

Underground Storage Tank Removal

209 Brush Street Oakland, California

Dear Mr. McMillan:

Geomatrix Consultants, Inc. (Geomatrix), has prepared this report on behalf of the Port of Oakland for documenting underground storage tank removal activities performed at the 209 Brush Street Site. This work was performed in accordance with Geomatrix's April 17, 2003 Scope of Work and Cost Estimate.

Geomatrix is pleased to be of continuing service to the Port of Oakland. Please call either of the undersigned if you have questions.

Sincerely yours,

GEOMATRIX CONSULTANTS, INC.

Erin Zavarin Staff Engineer Jennifer L. Patterson, P.E. Senior Engineer

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Susan M. Gallardo, Geomatrix Consultants, Inc. cc:



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209 Brush Street
Oakland, California

Prepared for:
Port of Oakland
530 Water Street
Oakland, California 94607

Prepared by:

Geomatrix Consultants, Inc. 2101 Webster Street, 12thFloor Oakland, California 94612 (510) 663-4100

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Geomatrix Consultants



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UNDERGROUND STORAGE TANK REMOVAL

209 Brush Street Oakland, California

1.0 INTRODUCTION

This report describes underground storage tank (UST) removal activities conducted at a Port of Oakland (Port) facility located at 209 Brush Street in Oakland, California (Figure 1). One 1,000-gallon capacity diesel UST (Tank 1) and one 10,000-gallon capacity gasoline UST (Tank 2) were removed by Foss Environmental Services Company (Foss) of Alameda, California, a California-licensed contractor under contract to the Port. Geomatrix Consultants, Inc. (Geomatrix), observed tank removal, excavation, and backfilling activities and collected soil and groundwater samples for chemical analysis. UST removal and the associated soil and groundwater sampling activities were performed under the oversight of Mr. Keith Matthews of the Oakland Fire Services Agency (OFSA).

Tank removal, soil and groundwater sampling, and chemical analytical procedures were performed in accordance 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 the OFSA. UST removal, excavation, and backfilling activities, soil and groundwater sampling, and laboratory analytical results are described below.

2.0 SITE CONDITIONS

The site is located at 209 Brush Street in the city of Oakland, located in Alameda County, California. The USTs were installed at a maintenance facility adjacent to Market Street near the building shown on Figure 2 (both USTs were located within one excavation). According to Mr. Michael McMillan of the Port, Tanks 1 and 2 originally were installed in 1987 and contained diesel and regular unleaded gasoline, respectively. Both tanks were upgraded in 1998. At the request of the OFSA, use of the USTs was discontinued on April 12, 2002 after failing the OFSA annual tank monitoring test; the tanks were disconnected from power and the contents were removed by Foss.



Three four-inch-diameter slotted polyvinyl chloride (PVC) pipes were present in the UST backfill at the perimeter of Tank 2. These pipes allowed monitoring the groundwater elevation and quality in the tank backfill. The pipe locations are shown on Figure 2.

3.0 UNDERGROUND STORAGE TANK REMOVAL

Prior to UST removal activities, Geomatrix obtained a removal permit from the OFSA (Tank Permit Number 23-03) for the Port. A copy of the permit issued by the OFSA is included in Appendix A. Foss performed UST removal and excavation activities June 2 through 5, 2003 and June 10, 2003. A Geomatrix field engineer observed removal of the USTs and collected excavation samples during the tank removal activities on June 5 and 10, 2003 and collected soil stockpile samples on June 17, 2003. The soil samples were submitted for chemical analysis. UST stabilization and removal, over-excavation of soil, soil and groundwater sampling, and waste disposal activities are discussed in the following sections.

3.1 UST STABILIZATION AND REMOVAL

Fuel dispensers, fuel piping, concrete, and soil overlying the USTs were removed to access and prepare the USTs for removal. During removal of the concrete and overburden soil, the tiedowns securing Tank 2 failed, allowing the tank to float on groundwater that had filled the bottom of the excavation. Tank 1 remained secured, and the top of the tank was encountered at approximately 4 feet below ground surface (bgs). Backfill material surrounding the USTs consisted of pea gravel. Native soil outside the excavation backfill consisted of silty sand. Excavated soil was stockpiled on plastic sheeting at the site. Stained soil was not observed in the excavation prior to UST removal.

Foss inserted approximately 50 and 500 pounds of dry ice into Tank 1 and Tank 2, respectively, to facilitate evacuation of oxygen and potentially explosive vapors. Immediately prior to removal of the USTs, Foss measured explosive vapor levels through the fill-pipe opening in the top of the USTs. The final vapor readings indicated that a non-explosive atmosphere (less than 10 percent oxygen and less than 10 percent of the lower explosive limit) existed inside the tanks. Mr. Matthews approved the readings and removal of the USTs.

A crane was used to lift the tanks from the excavation. The tanks were lowered to the ground surface for visual examination by the Geomatrix field engineer and Mr. Matthews. Tank 1 measured 5.3 feet in diameter and 10 feet in length, and Tank 2 measured 9.3 feet in diameter and 20.5 feet in length. Both tanks were composed of steel composite and were coated with fiberglass for cathodic protection. Holes were not observed in either tank.



The userage dimensions of the cut concrete were approximately 39 feet long and 32 feet wide. The userage length and width of approximately 28 and 24 feet, respectively. Depth to groundwater following user removal was approximately 7 feet bgs. Soil beneath the tanks appeared to be stained (gray-black in color), and a strong hydrocarbon odor was observed. Product or sheen was not observed on the groundwater surface. Further excavation was not performed after the tanks were removed because of the proximity of the excavation to Market Street to the west and because additional concrete had not been cut to the west, north, and south.

3.2 OVER-EXCAVATION OF SOIL

Based on the analytical results from the soil samples collected during the UST removal (discussed in Section 4.0), Geomatrix, at the Port's request, directed Foss to remove additional soil from the east wall of the excavation. Excavation along the east wall continued until the cut concrete boundary was encountered or the volatile organic compound concentration, as measured using a photo-ionization detector, was less than 50 parts per million in the excavated soil vapor. The average dimensions of the final UST excavation were approximately 39 feet long and 24 feet wide (Figure 2).

3.3 SOIL AND GROUNDWATER SAMPLING

Geomatrix collected samples from the site on June 5, 10, and 17, 2003. Excavation sample locations are shown on Figure 2.

- On June 5, 2003, Geomatrix collected four soil samples from the sidewalls of the excavation and one grab groundwater sample from the pooled groundwater in the excavation as directed by Mr. Matthews. One soil sample (T1-060503) was collected at the soil/groundwater interface (approximately 7 feet bgs) near the east side of the former Tank 1. Three soil samples, T2-060503-N, T2-060503-S, and T2-060503-W, were collected at the soil/groundwater interface (approximately 7 feet bgs) near the north, south, and west sides, respectively, of the former Tank 2. One grab groundwater sample (GW-060503) was collected from pooled groundwater beneath the former Tank 1 location. Under the direction of Mr. Matthews, groundwater was not purged prior to sample collection.
- On June 10, 2003, Geomatrix collected two soil samples from the sidewalls of the enlarged excavation. Soil samples P1-061003 and P2-061003 were collected from the southeastern and northeastern sidewalls, respectively, of the excavation. The samples were collected at depths of approximately 7 and 8 feet bgs.



• On June 17, 2003, Geomatrix collected two four-point samples (1-061703A,B,C,D and 2-061703A,B,C,D) from the approximately 90 cy of stockpiled soil at the site. The analytical laboratory composited each of the four samples into one sample for chemical analysis.

Soil samples were collected in clean, 4-inch-long, 2-inch-diameter brass tubes. The ends of the tubes were sealed with Teflon[®] sheets and plastic end-caps and were secured with silicon tape. The grab groundwater sample was collected by using a new, disposable bailer. The sample was decanted into laboratory-supplied bottles. All samples were labeled and stored in an ice-cooled chest until delivery under Geomatrix chain-of-custody procedures to Curtis & Tompkins, Ltd. (Curtis & Tompkins), of Berkeley, California, a California-certified analytical laboratory. Chain-of-custody documents are included in Appendix B.

3.4 RINSEATE AND UST DISPOSAL

Foss, a state-licensed liquid waste transporter, transported tank contents and rinseate to Seaport Environmental, of Redwood City, California. Ecology Control Industries (ECI) transported the tanks to their facility in Richmond, California. Copies of the Uniform Hazardous Waste Manifest and certificate of destruction are included in Appendix C.

4.0 ANALYTICAL METHODS AND RESULTS

Soil and groundwater samples were analyzed according to Tri-Regional and OFSA guidelines for total petroleum hydrocarbons quantified as gasoline (TPHg) and as diesel (TPHd) using U.S. Environmental Protection Agency (EPA) Method 8015B; benzene, toluene, ethylbenzene, and total xylenes (collectively BTEX) and methyl tertiary butyl ether (MTBE) using EPA Method 8260B; and lead using EPA Method 6010B. Silica gel preparation (EPA Method 3630C) was performed on samples prior to TPHd analysis. The analytical results for the soil and groundwater samples are presented in Tables 1 and 2, respectively. Analytical data sheets are included in Appendix B.

4.1 EXCAVATION SOIL SAMPLE RESULTS

The following section summarizes the analytical results for excavation and stockpile soil samples. Analytical data for the soil samples are presented in Table 1.

• In general, lead concentrations were low in each of the soil samples and did not suggest an impact from the former USTs. MTBE, where detected, was present at concentrations up to 0.14 milligrams per kilogram (mg/kg).



- TPHg and TPHd were detected at concentrations of 11,000 mg/kg and 620 mg/kg, respectively, in soil sample T1-060503 (collected on the east sidewall of the excavation). BTEX were detected at concentrations ranging from 57 mg/kg to 1510 mg/kg. Based on these results, the excavation along the eastern face was extended, and additional sampling was performed.
- Significantly lower concentrations (less than 200 mg/kg) of TPHg and TPHd were
 detected in samples P1-061003 and P2-061003, collected after over-excavating the
 eastern sidewall of the excavation. BTEX concentrations also were significantly
 lower and ranged from non-detect to 11 mg/kg.
- Soil sample T2-060503-W (west sidewall of the excavation) did not contain TPHg, TPHd, or BTEX above laboratory reporting limits.
- Soil sample T2-060503-N (north sidewall of the excavation) contained low concentrations (less than 5 mg/kg) of TPHg, TPHd, and benzene.
- Soil sample T2-060503-S (south sidewall of the excavation) contained TPHg and TPHd at concentrations of 2200 mg/kg and 720 mg/kg, and benzene, ethylbenzene, and total xylenes were detected at concentrations of 0.92, 23, and 40.6 mg/kg, respectively.

4.2 GRAB GROUNDWATER SAMPLE RESULTS

TPHg and TPHd were detected in the groundwater sample (GW-060503) at concentrations of 19,000 and 2,100 micrograms per liter (μ g/L), respectively. BTEX were detected in the groundwater sample at concentrations ranging from 610 to 3,430 μ g/L. MTBE and lead also were detected at concentrations of 1200 μ g/L and 140 μ g/L, respectively.

4.3 STOCKPILE SOIL RESULTS

Composite soil samples (1-061703 and 2-061703) collected from the stockpile of excavated soil contained TPHg and TPHd at concentrations of 340 mg/kg and 110 mg/kg, respectively, and low concentrations (<1 mg/kg) of ethylbenzene and total xylenes. Stockpiled soil was transported by Greg's Trucking to Forward Landfill in Manteca, California, for disposal.

5.0 EXCAVATION BACKFILLING

Backfilling and compaction of the UST excavation was performed by Foss from June 26 through July 3, 2003. Geomatrix provided earthwork recommendations for backfilling to the Port in a letter dated May 8, 2003. During the backfilling, Geomatrix or our subcontractor, Construction Materials Testing, Inc., of Concord, California observed the placement methods and tested the compaction of the backfill material.



The total depth of the excavation varied from approximately 8 feet bgs around the edges to approximately 12 feet bgs in the center of the excavation. Groundwater was present in the excavation at the time of backfilling at approximately 7 feet bgs. Because of this, 1-1/2 inch open-graded, crushed rock was placed through the water to above the water level. The 1-1/2 inch crushed rock varied in thickness from approximately 3 feet along the edges of the excavation to approximately 7 feet in the center (the immediate location of the removed tank). After the crushed rock had been placed so that the bottom of the excavation was uniformly about 5 feet bgs, Foss compacted the crushed rock using a Bomag BW60HG, dual-drum, sheepsfoot compactor. A non-woven geotextile filter fabric (geotextile) was then placed over the compacted crushed rock. Above the geotextile, approximately 4 to 5 feet of approved fill was used to backfill the remainder of the excavation. The approved fill was placed in approximately 8-inch lifts and compacted using a vibratory plate attached to an excavator. After each lift was placed, density tests were performed according to ASTM Test Methods D 2922 (Density of Soil and Rock in Place by Nuclear Methods) and D3017 (Water Content of Soil and Rock in Place by Nuclear Methods). Our observations and the test results indicated that the overall compaction of the fill was generally above 90 percent of the maximum dry density determined in the laboratory by ASTM test method D 1557 (Moisture-Density Relations of Soils and Soil-Aggregate Mixtures Using 10-pound Rammer and 18-inch Drop). It is our opinion that the backfill and compaction was accomplished in general accordance with the project recommendations.

The surface of the backfilled excavation will be covered with asphalt. Prior to backfilling the excavation, samples of the backfill were submitted to Curtis & Tompkins for chemical analysis and Cooper Testing Labs, Inc., of Mountain View, California, for geotechnical analysis. The laboratory data sheets for the chemical and geotechnical analyses are included in Appendix D.

6.0 SUMMARY

A summary of the UST removal activities is presented below.

 One 1,000-gallon diesel UST and one 10,000-gallon unleaded gasoline UST were removed from the 209 Brush Street site in Oakland, California, on June 5, 2003.
 The tanks were removed under the supervision of Mr. Keith Matthews of the OFSA.
 Once the USTs were removed, they were visually inspected. The tank exteriors were intact and did not appear to contain holes.



- Staining was visible in the excavation sidewalls, and a hydrocarbon odor was observed.
- Groundwater was encountered at a depth of 7 feet bgs, and no product was observed on the groundwater surface within the excavation.
- Four soil samples were collected from the excavation at the soil/groundwater interface, as directed by the OFSA. TPHg, TPHd and BTEX constituents were detected in three of the four soil samples. Based on the analytical results for soil samples collected during the UST removal, additional soil was removed from the east side of the excavation on June 10, 2003. During excavation activities, two soil samples were collected from the east wall of the enlarged excavation. The two samples contained primarily TPHg and TPHd.
- One groundwater sample was collected from the excavation, as directed by the OFSA. TPHg, TPHd, BTEX, MTBE, and lead were detected in the sample.
- A total of approximately 90 cy of soil were removed from around the USTs and the excavation bottom. Two four-point composite samples were collected from the soil stockpile on June 17, 2003. TPHg, TPHd, BTEX constituents, and lead were detected in the two composite samples. The stockpiled soil was disposed of off site at Forward Landfill in Manteca, California.



TABLES



TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS¹

209 Brush Street Oakland, California Concentrations in milligrams per kilograms (mg/kg)

					dama	State of the state	(gw/gm)	4			
			Commit				Constituents Detected	s Detected			
,	Sample	Sample	Sample Depth					Ethyl-	Total		
Sample ID ²	Location	Date	(ft bgs) ³	TPHg	TPHd	Benzene	Toluene	benzene	Xylenes	MTBE	Lead
Excavation Samples	es										
	East sidewall,										
T1-060503	excavated	6/5/03	7	11,000	620	57	880	270	1.510	<255	7.4
	North										
T2-060503-N	sidewall	6/5/03	7	4.3	1.4	0.0055	<0.005	<0.005	<0.005	0.0059	4.5
T2-060503-W	West sidewall	6/5/03	7	<1.1	<1.0	<0.0053	<0.0053	<0.0053	<0.0053	0.14	8,6
	South										
T2-060503-S	sidewall	6/2/03	7	2,200	720	0.92	<0.71	23	40.6	<0.71	3.2
	Southeastern		•								
P1-061003	sidewall	6/10/03	7	33	1.3	<0.028	<0.028	0.23	0.82	<0.028	œ
	Northeastern										
P2-061003	sidewall	6/10/03	∞	190	90	0.44	<0.36	11	5.5	<0.36	5.2
Stockpile Samples											
	Excavated										
1-061703A,B,C,D ⁶ soil stockpile	soil stockpile	6/11/03	NA ⁷	340	180	<0.17	<0.17	0.27	4.7	<0.17	6.9
	Excavated										
2-061703A,B,C,D ⁶ soil stockpile	soil stockpile	6/11/03	NA	110	29	<0.13	<0.13	<0.13	0.28	<0.13	21
									~	74.0	4



TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS¹

209 Brush Street

Oakland, California

Notes

- for total petroleum hydrocarbons quantified as gasoline and as diesel using EPA Method 8015B; benzene, toluene, ethylbenzene, total xylenes, and methyl tertiary butyl ether using EPA Method 8260B; and lead using EPA Method 6010B. A silica gel preparation (EPA Method 3630C) was performed on soil Samples collected by Geomatrix Consultants, Inc. (Geomatrix), and analyzed by Curtis & Tompkins, Ltd., of Berkeley, California, samples prior to analysis of TPHd.
- Sample locations shown on Figure 2.
- ft bgs = feet below ground surface
- ⁴ TPHg = total petroleum hydrocarbons quantified as gasoline TPHd = total petroleum hydrocarbons quantified as diesel
- MTBE = methyl teriary butyl ether
- ⁵ "<" indicates analyte was not detected above the laboratory reporting limit shown.
- ⁶ Two four-point samples collected by Geomatrix from stockpile of soil removed during UST removal activities. A composite sample was made from each four-point sample prior to laboratory analysis.
 - 7 NA = not applicable



TABLE 2

GROUNDWATER SAMPLE ANALYTICAL RESULTS¹

209 Brush Street Oakland, California Concentrations in micrograms per liter (µg/l)

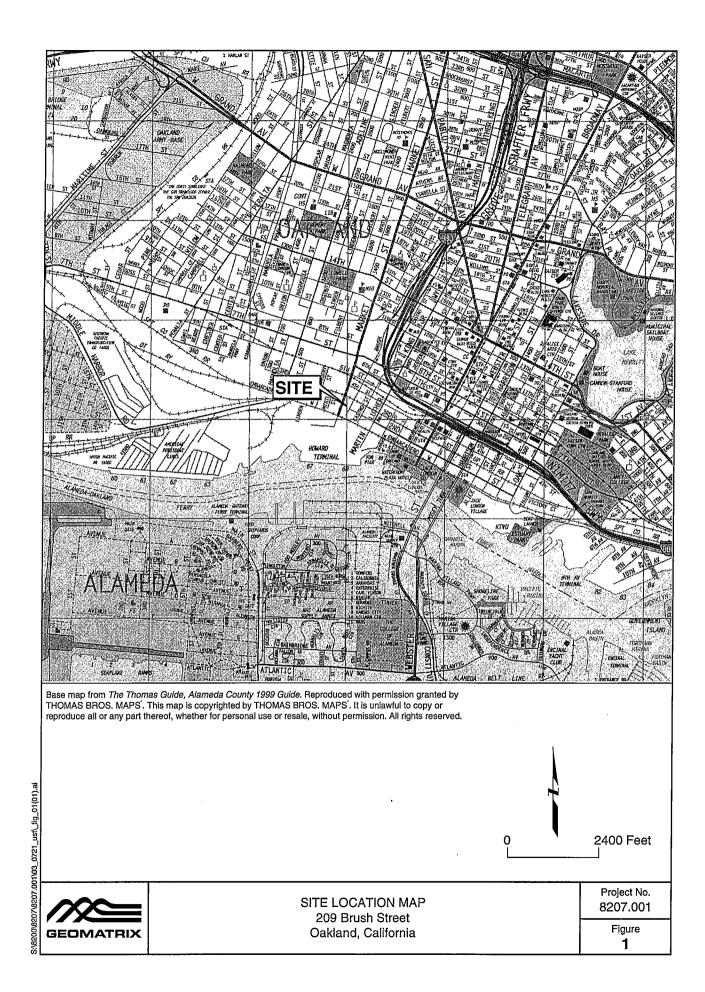
					Constituents Detect	s Detected ²			
	Sample					Ethyl-	Total		
Sample ID	Date	TPHg	TPHd	Benzene	Toluene		Xylenes	MTBE	Lead
GW-060503	6/5/03	19,000	2,100	610	2,500	700	3,430	1,200	140

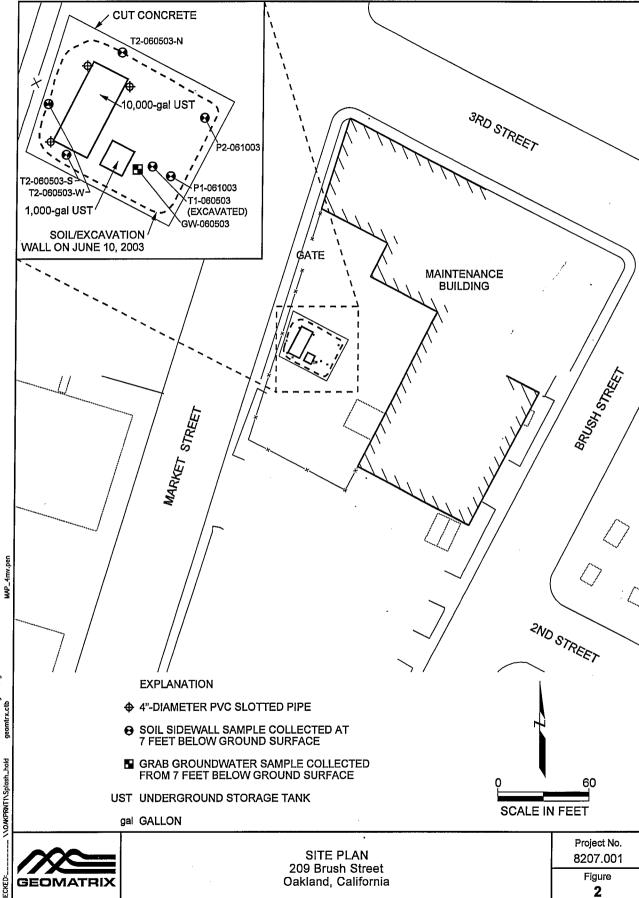
Notes:

for total petroleum hydrocarbons quantified as gasoline and diesel using EPA Method 8015B; benzene, toluene, ethylbenzene, total ¹ Samples collected by Geomatrix Consultants, Inc. (Geomatrix), and analyzed by Curtis & Tompkins, Ltd., of Berkeley, California, (EPA Method 3630C) was performed on soil samples prior to analysis of TPHd. Lead samples were not filtered prior to analysis. xylenes, and methyl tertiary butyl ether using EPA Method 8260B; and lead using EPA Method 6010B. A silica gel preparation $^2\,$ TPHg = total petroleum hydrocarbons quantified as gasoline TPHd = total petroleum hydrocarbons quantified as diesel MTBE = methyl teritiary butyl ether



FIGURES





30-JUL-2003 09:20 kuber S:\8200\8207\8207.00\\03_072L_ust_fig_02.dgn \\\OMFRIT\Splash_hold geomtrx.ctb



APPENDIX A

Underground Storage Tank Removal Permit

FIRE PREVENTION BUREAU City Of Oakland

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

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

510-238-3851

Oakland, California May 29, 2003 Tank Permit Number:

23-03

Permission Is Hereby Granted To: Removal - Underground Diesel

Feet Inside:

Line.

On The: West side of Brush St, 100 feet South of 3rd St

Tank And Excavate Commencing:

Site Address: 209 Brush St

Owner: Port of Oakland

Present Storage:

Address:

Address:

530 Water St, Oakland, CA 94607

Phone: 510-627-1406

510-663-414

Applicant: Geomatrix Consultants

2101 Webster st, 12th Fl, Oakland, CA 94612 Phone:

1000

Capacity

No. Of Tanks

Gallons, Each

Remarks

Dimensions Of Street (sidewalk) Surface To Be Disturbed:

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:

Inspected And Passed On:

UST/AST Installations/modifications:

- Pressure Test: Inspected By:

Primary Piping Test: Inspected By:

Date:

Date:

Received By: C. T. Clark - clik #054523, rec # 857350

Inspection Fee Paid: \$ 650.00

Gire Marsha

Approved:

Secondary Containment & Sump Testing:

inspected By:

Date: Date: Final: Inspected By:

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

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

	PLEASE CIRLCE APPROPRIATE ACTIONS:	; App	Request Submit	tal Date: A	Pril 30 ermit to:	2003
((a) Remove (b) Install (c) Repair		(d) Modify	(e) Abandor		Place A
	(a) Gasoline (b) Fuel oil (c) Diesel	•	(d)	_tank(s) and e	excavate, co	ommencing:
	(a) four feet inside the curb line*; (b) inside the particle surb line, please attach copy of sidewalks	oropert /excav	ty line; (c) abov ation permit fro	_ , —		
	on the West side of Bru	sh	5 · 4	St.)Ave. 10	O feet_	South of 3rd (St) Ave.
	Site Address: 209 Brush Street	·			ent storage_	
Ì	Owner: Port of Oakland Add	ress	530 Wate	c Street		Phone (510) (27 - 140)
.	Cakland CA 94607		REVI	IN M I		7.100
	Applicant: Gcamatrix Consultants Add	ress	2AKLAND FI	HE DEPARI	Flor	Phone (513) 663-441
-	Oakland, CA 94612		BY: JA	anha	.0	
1	Sidewalk surface to be disturbedXN	umper	Of Fanks	Capacity EGIC	1:060	iallons ea.
I	Remarks		ALL INSPE	CTIOMS REGIO LURS MOTICE	JIML	incress-rate
S	Signature Co	CEMA	strix)			
-					. •	
1	LEASE ATTACH/SUBMIT: (All applicants mus			License Perm	ait)	
_	(2) Copies of Closure Plans for underground tank (2) Sets of plans and (1) copy of specifications fo	or above	10. omosem d 41.			
	(2) Sets of plans and (2) sets of application packe (2) Sets of plans for aboveground tank installation	ate for a	11md on on on all 4	emovai 1k installation/	modification	ons
	CODY OF DISDATE TO SHOW Planning and Dullating a		1 0 1	und tank remo	val and tan	k renair
	OTE: FOR TANK INSTALLATION PLEASE SU ERMIT TO OPERATE, MAINTAIN OR STORE		Γ THIS APPLIC	CATION FOR	M ALONO	WITH A APPLICATION FOR
_			R OFFICE USE O	is fr 37		
Pe	rmit No. 23 ~0 3	,	650	NL Y	• . •	c 28 23
Со	pies to: Electrical Inspection ck# 05			Cash	Date Issu	led: 5 - 29-03
	· -		57350	Casii Recv'd by:_	(tz	

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

	Phone # Michael	ael McMillan	
Facility Name	-tof Oaklavid	Harbor Facilities	Phone# 510 - 627 - 14
Address	brush Street		
Cross Street 2	id Strut		
Owner/Operator	Port of Oaklan	nd :	Phone # 510 - 272-11
Contractor Name	Foss Environm	anatal Services Co. a.	Phone# 510-749-41
Contractor Address	1605 Ferry Bint Alameda, CA 9450	CA License # 716581	Class A, HAZ, HIC, AS
Hazardous Waste C	ertified: Haz. substantegory transdiction	and removal	Workers Comp# 15 020 2267 38A 164329-00
City of Oakland Bus	siness Tax License#	29234	Permit #
· · · · · · · · · · · · · · · · · · ·	leaking UST (or did it	t have a leaking tank system?)	Yes No D
State Tank ID#	Proposed Removal Date		
39-000 568 -049501	10,000 gallans	unleaded gasoline	May 5, 2003
	1,000 gallons	dicsel	May 5, 2003
39:00568-049502			
39-		TO BY WY THE TANK IN	(
39-		CAKLAND FIRE DEPARTMENT	
39- 39-		CAKLAND FIRE DEPARTMENT	
39- 39- 39-		CAKLAND FIRE DEPARTMENT ON: 11 Maria ON: 15 Maria ON: 25 Maria ON: 2	
	ROVED	DATE DEPARTMENT DATE DEPARTMENT PPROVED WITH CONDITIONS AN HOURS NOTICE	DISAPPROVED
39- 39- 39- 39-		DATE DEPARTMENT DATE DEPARTMENT PPROVED WITH CONDITIONS AN HOURS NOTICE	DISAPPROVED APPROVAL

PERFORMANCE OF THE WORK FOR WHICH THIS INSTALLATION PLAN IS ISSUED, I SHALL EMPLOY PERSONS

DATE:

TITLE:

SUBJECT TO WORKER S COMPENSATION LAWS OF CALIFORNIA.

APPLICANT S SIGNATURE

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 Patterso	on, (teorn	atrix Consu	Itants			
MAILING ADDRESS 2101 Webster S STREET	Street, 12th	Floor 0	akland	CÀ	94612	·
DAY PHONE NUMBER 510-	<u>663-416</u>		Y, STATE	, ZIP		
	area code	phone#		<u> </u>		
SIGNATURE Cart			· ·			*
DATE 4 30 03			•			

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 Port of Oakland
1	Business Owner of Contact Person (PRINT) Michael McMillan
1	
2)	Site Address 209 Brush Street
ļ	City Oakland Zip 94607 Phone NA
3)	Mailing Address 530 Water Street
)	City Oakland Zip 94607 Phone 510 - 627 - 1406
4)	Property Owner Port of Oakland
	Business Name (if applicable)
	Address 530 Water Street
	City, State Oakland CA Zip 94607
)	Generator name under which tank will be manifested
	Port of Oakland
	EPA ID Under which tank will be manifested CAL DOOD 5571

6)	Contractor toss Environmental Services Company
	Address 1605 Ferry Point
	City Alameda Phone (510)749-4139
	License Type A, HAZ, HIC, ASB 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) Geornatrix Consultants Inc. Address 2101 Webster St. 12th Floor City, State Oakland, CA Phone 510-663-4100
8)	Main Contact Person for Investigation (if applicable)
	Name Erin Zavarin Title Staff Engineer
	Company Geomatrix Consultants Inc.
	Phone (510) 663-4199
9)	Number of underground tanks being closed with this plan 2 (Confirmed with owner operator)
	State Registered Hazardous Waste Transporters/Facilities (see instructions)
	nderground storage tanks must be handled as hazardous waste **
	Product/Residual Sludge/Rinsate Transporter Already comptied and channed Name EPAID NO
	EPA I.D. NO.
	Hauler License No. License Exp. Date
	Address
	City State Zip
) .	Product/Residual Sludge/Rinsate Disposal Site Dove
]	NameEPA ID No
	Address
	City State Zip

c)	Tank and Piping Transporter		
	Name Foss Environmental EP	A I.D. No. <u>CARO</u> O	200 30114
c)	Hauler License No. 114013	License Ex	xp. Date 3 31 04
	Address 1605 Forry Point		
	City Alameda	State (A	Zip 94501
d)	Tank and Piping Disposal Site	•	
	Name ECI	EPA I.D. No. <u>CA</u>	0009466392
	Address 255 Parr Blud.		
	City Richmond State CA	Zip 9487	<u> </u>
11)	Sample Collector		4 2
	Name Erin Zavarin		
	Company Geometrix Consultants	Inc.	
	Address 2101 Webster Street, 12th	Floor	
	City Oakland State CA	Zip 94612	<u>.</u>
	Phone 510-663-4199		
	Laboratory		
	Name Curtis and Tompkins	·	
	Address 2323 5th Street		
Í	City Berkeley State	CA	Zip 94710
1	State Certification No. Ollor CA		·
12) [Java tanka ar ninas laskad in the	7 (**)	_
			nown 🗖
	fyes, describe The tanks ceased oper		
	result of Eiling their annual	tank monitorin	q test. The tanks
<u>U</u>	sere emptied of their contents.		

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

Tank's hour been cleaned already.	It necessary, dry we will be
used.	

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	Location and Depth of Samples
Capacity	Use History include date last used (estimated)	contents, soil, groundwater)	gw=grandwater
10,000	in 1998. Contained in 1987; upgraded in 1998. Contained unleaded gasoline. Taken out of service on 4/12/02.		If gw not present; 2 samples below tank at least 2 feet in to native soil @ roch end If gw present: One sample at each end of tank from Sidewall at soil /gw interface.
	<u>.</u>	Groundwater	One sample from excavation after it has been purged and allowed to refill
,000	in 1998. Contained clicsel Fuel. Takenout of Service on 4/12/02	"Same as above	Same as above

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
150 cubic yards	One 4-pant composite per 50 cubic yards. collected in clem brass tubes. Sealed will Teflor sheet, Plastic and caps, and silicon tape.
•	

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 NO	∟ unknown	
If yes,	explain 1	easoning			•

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

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	i	etection Limit
TPH9 TPH2	silica que preparetion (gw)	EPA 8015 Modified EPA 8015 Modified	1.0 ppm	Water 50 ppb 50 ppb
BTEX		EPA 8260 EPA 8260	,005 ppm	طوم 5،0
Pb		_	0.15pm	

18. Submit Workers Compensation Certificate co	эру
--	-----

Name of Insurer Eagle Pacific Insurance Company Lumberman: Mutual Casualty Co.

- 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 Toss Environment	<u>'</u>
Name of Individual Shigh Chott	
Signature Date	1-30-07

PROPERTY OWNER OR MOST RECENT TANK OPERATOR (Circle one)

Name of Business Port of Cakland	
Name of Individual leffrey R.	Jones
Signature Common	Date 4/30/03

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.

- 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;
- 1) 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.

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:

						1			. I
Permit Type	Closure	U.G.Tank	Plans	Specs	Letter	Plot	Forms	Forms	App For Permit
	and	Install/Modify Plans App	(2sets)		fo T'M	Plan	A, B	A,B,C	to Operate, Maintain or
Underground Tank Remoyal	X					X	×		ainic
Abandon/Close In Place	X					, X	×		
Aboveground Tank Removal*			X	×					
Underground Tank Installation/Modification		×	×	×				×	X
Aboveground Tank Installation			×	×					X
Residential (home heating)	×					×			
Capping Vent Piping work				×	×	×			
Underground piping	X		X			·			
Residential (close in place)					×	×			

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

Tk3

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 of S (one page per site) TYPE OF ACTION I. NEW SITE PERMIT 3. RENEWAL PERMIT ☐ 5.CHANGE OF INFORMATION ☐ 7.PERMANENTLY CLOSED SITE (Check one item only) 4. AMENDED PERMIT specify change local use only _ 8. TANK REMOVED ☐ 6.TEMPORARY SITE CLOSURE I. FACILITY / SITE INFORMATION BUSINESS NAME (Samo as FACILITY NAME or DBA -- Doing Business As) 3 FACILITY ID# Harbor Faciliti NEAREST CROSS STREET FACILITY OWNER TYPE 4. LOCAL AGENCY/DISTRICT* Brush St + 2nd Street ☐ 1. CORPORATION ☐ 5. COUNTY AGENCY* BUSINESS 1. GAS STATION 3. FARM 5. COMMERCIAL 2. INDIVIDUAL ☐ 6. STATE AGENCY* ☐ 2. DISTRIBUTOR ☐ 4. PROCESSOR ☒ 6. OTHER ☐ 3. PARTNERSHIP ☐ 7. FEDERAL AGENCY* TOTAL NUMBER OF TANKS Is facility on Indian Reservation or *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.) REMAINING AT SITE trustlands? Yes No Jeffrey R. Jones 406 II. PROPERTY OWNER INFORMATION PROPERTY OWNER NAME PHONE 408 Port of Oakland 510-627-1401 MAILING OR STREET ADDRESS 400 530 water Strag STATE ZIP CODE Oakland 94607 PROPERTY OWNER TYPE ☐ 1. CORPORATION 2. INDIVIDUAL 4. LOCAL AGENCY / DISTRICT 6. STATE AGENCY ☐ 3. PARTNERSHIP ☐ 5. COUNTY AGENCY 7. FEDERAL AGENCY 413 III. TANK OWNER INFORMATION TANK OWNER NAME PHONE 415 Port of Oaklan 510 - 627-1400 MAILING OR STREET ADDRESS 416 Stree 530 Water עיייייי STATE ZIP CODE 419 Oakland 94607 TANK OWNER TYPE ☐ 1. CORPORATION 2. INDIVIDUAL 4. LOCAL AGENCY / DISTRICT ☐ 6. STATE AGENCY ☐ 3. PARTNERSHIP ☐ 5. COUNTY AGENCY 7. FEDERAL AGENCY IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER TY (TK) HO 44- do 0 5 Call (916) 322-9669 if questions arise 421 V. PETROLEUM UST FINANCIAL RESPONSIBILITY INDICATE METHOD(s) 1. SELF-INSURED 4. SURETY BOND 7. STATE FUND ☐ 10. LOCAL GOVT MECHANISM 2. GUARANTEB ☐ 5. LETTER OF CREDIT ☐ 8. STATE FUND & CFO LETTER ☐ 99. OTHER: 3. INSURANCE ☐ 6. EXEMPTION 9. STATE FUND & CD 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 X 3. TANK OWNER VII. APPLICANT SIGNATURE Certification - I certify that the information provided herein is true and accurate to the best of my knowledge, SIGNATURE OF APPLICANT 425 PHONE . 4-130/03 510-663-4167 NAME OF APPLICANT (print) TITLE OF APPLICANT Jennifer Patterson Engineer

STATE UST FACILITY NUMBER (For local use only)

1998 UPGRADE CERTIFICATE NUMBER (For iocal use only)

UNIFIED PROGRAM CONSOLIDATED FORM

TANKS

UNDERGROUND STORAGE TANKS – TANK PAGE 1

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TANK MATERIAL - secondary tank 🔲 1. B.	ARE STEEL			ASS / PLASTIC	<u> </u>	5. CO	NCRETE				_	95. UN	raiotti		445
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UNIFIED PROGRAM CONSOLIDATED FORM

TANKS

UNDERGROUND STORAGE TANKS – TANK PAGE 2

VI. PIPING CONSTRUCT	ION (Check all that apply) Page 3 of
UNDERGROUND PIPING	ABOVEGROUND PIPING
SYSTEM TYPE 1. PRESSURE 2. SUCTION 3. GRAVITY	458 1. PRESSURE 2. SUCTION 3. GRAVITY 45
CONSTRUCTION 1. SINGLE WALL 3. LINED TRENCH 99. OTHER	460 1. SINGLE WALL 95. UNKNOWN 46
MANUFACTURER ₹ 2. DOUBLE WALL □ 95. UNKNOWN	☐ 2. DOUBLE WALL ☐ 99. OTHER
MANUFACTURER	461 MANUFACTURER 46
	ARE STEEL G. FRP COMPATIBLE W/100% METHANOL
	STAINLESS STEEL
	PLASTIC COMPATIBLE W/ CONTENTS 38. FLEXIBLE (HDPE) 39. OTHER
I	TBERGLASS 9. CATHODIC PROTECTION
	TEEL W/COATING 95, UNKNOWN
VII. PIPING LEAK DETECTION (Check all that apply) (UNDERGROUND PIPING	A description of the monitoring program shall be submitted to the local agency.)
SINGLE WALL PIPING 466	ABOVEGROUND PIPING
PRESSURIZED PIPING (Check all that apply):	SINGLE WALL PIPING 467 PRESSURIZED PIPING (Check all that apply):
☐ 1. ELECTRONIC LINE LEAK DETECTOR 3.0 GPH TEST <u>WITH</u> AUTO PUMP SHUT OFF FOR LEAK, SYSTEM FALLURE, AND SYSTEM DISCONNECTION + AUDIBLE AND VISUAL ALARMS. ☐ 2. MONTHLY 0.2 GPH TEST	 I. ELECTRONIC LINE LEAK DETECTOR 3.0 GPH TEST <u>WITH</u> AUTO PUMP SHUT OFF FOR LEAK, SYSTEM FAILURE, AND SYSTEM DISCONNECTION + AUDIBLE AND VISUAL ALARMS.
3. ANNUAL INTEGRITY TEST (0.1GPH)	.□ 2. MONTHLY 0.2 GPH TEST
=	3. ANNUAL INTEGRITY TEST (0.1GPH)
CONVENTIONAL SUCTION SYSTEMS	4. DAILY VISUAL CHECK
☐ 5. DAILY VISUAL MONITORING OF PUMPING SYSTEM + TRIENNIAL PIPING	CONVENTIONAL SUCTION SYSTEMS (Check all that apply)
· INTEGRITY TEST (0.1 GPH)	5. DAILY VISUAL MONITORING OF PIPING AND PUMPING SYSTEM
SAFE SUCTION SYSTEMS (NO VALUES IN BELOW GROUNDPIPING):	☐ 6. TRIENNIAL INTEGRITY TEST (0.1 GPH)
7. SELF MONITORING	SAFE SUCTION SYSTEMS (NO VALVES IN BELOW GROUND PIPING):
GRAVITY FLOW	7. SELF MONITORING
9. BIENNIAL INTEGRITY TEST (0.1 GPH)	GRAVITY FLOW (Check all that apply):
	□ 8. DAILY VISUAL MONITORING
	9. BIENNIAL INTEGRITY TEST (0.1 GPH)
SECONDARILY CONTAINED PIPING	SECONDARILY CONTAINED PIPING
PRESSURIZED PIPING (Check all that apply): 10. CONTINUOUS TURBINE SUMP SENSOR WITH AUDIBLE AND VISUAL ALARMS AND (Check one) 11. AUTO PUMP SHUT OFF WHEN A LEAK OCCURS 12. AUTO PUMP SHUT OFF FOR LEAKS, SYSTEM FAILURE AND SYSTEM DISCONNECTION	PRESSURIZED PIPING (Check all that apply): 10. CONTINUOUS TURBINE SUMP SENSOR WITH AUDIBLE AND VISUAL ALARMS AND (Check one) 1 a AUTO PUMP SHUT OFF WHEN A LEAK OCCURS 1 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	☐c NO AUTO PUMP SHUT OFF
OFF OR RESTRICTION	☐ 11. AUTOMATIC LEAK DETECTOR
☐ 12. ANNUAL INTEGRITY TEST (0.1 GPH)	☐ 12. ANNUAL INTEGRITY TEST (0.1 GPH)
SUCTION/GRAVITY SYSTEM	SUCTION/GRAVITY SYSTEM
13. CONTINUOUS SUMP SENSOR + AUDIBLE AND VISUAL ALARMS	13. CONTINUOUS SUMP SENSOR + AUDIBLE AND VISUAL ALARMS
EMERGENCY GENERATORS ONLY (Check all that apply)	EMERGENCY GENERATORS ONLY (Check all that apply)
14. CONTINUOUS SUMP SENSOR <u>WITHOUT</u> AUTO PUMP SHUT OFF * AUDIBLE AND VISUAL ALARMS 15. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) <u>WITHOUT</u> FLOW	☐ 14. CONTINUOUS SUMP SENSOR <u>WITHOUT</u> AUTO PUMP SHUT OFF * AUDIBLE AND VISUAL ALARMS
SHUT OFF OR RESTRICTION	☐ 15. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST)
16. ANNUAL INTEGRITY TEST (0.1 GPH)	☐ 16. ANNUAL INTEGRITY TEST (0.1 GPH)
17. DAILY VISUAL CHECK	☐ 17. DAILY VISUAL CHECK
VIII. DISPENSER	CONTAINMENT
ISPENSER CONTAINMENT	
ATE INSTALLED 468 2. CONTINUOUS DISPENSER PAN SENSOR + AUD 3. CONTINUOUS DISPENSER PAN SENSOR WITH DISPENSER + AUDIBLE AND VISUAL ALARMS	IBLE AND VISUAL ALARMS ☐ 5. TRENCH LINER / MONITORING AUTO SHUT OFF FOR ☐ 6. NONE UNKnown 469
IX. OWNER/OPERA	
entify that the information provided herein is true and accurate to the best of my knowledge.	
GNATURE OF OWNER/OPERATOR	DATE 4/30/03 470
1. 4 804 ()	4/30/03
WE OF OWNER/OPENTOR (mint)	TITLE OF OVALER OPEN A TOP
AME OF OWNER/OPRATOR (print) Jeffrey R. Jones	TITLE OF OWNEROPERATOR 472

UNIFIED PROGRAM CONSOLIDATED FORM

UNDERGROUND STORAGE TANKS - TANK PAGE 1

TA	NKS

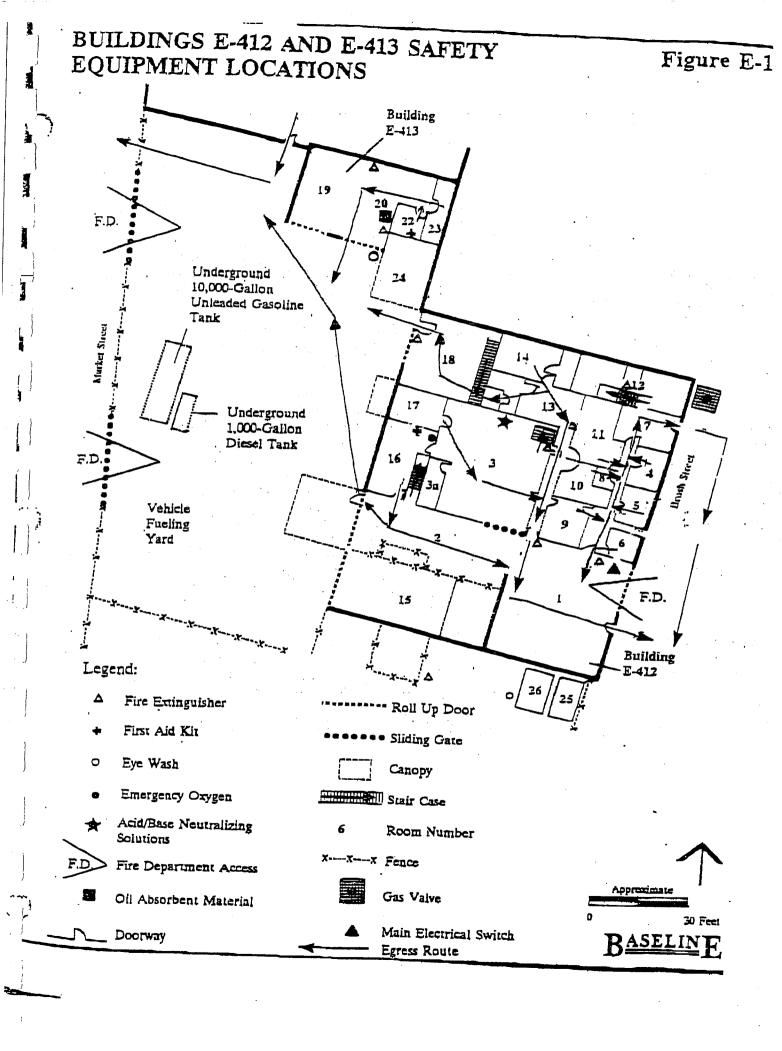
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(Check one liam only)					E CLOSURE
DITEDATOR NAME OF THE PARTY OF	EWAL PERMIT (Specify reason -	for local trac only) (Specify	reason - for local tac on	7 PERMANENTLY 8 TANK REMOVED	CLOSED ON SITE
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				20000	
L TANK DESCRIPTION	(A scaled plot plan with the location 432 TANK MANUFACTU	on of the TIPT			
TANK ID#	492 TANK MANUFACTU	TREP	ncluding buildings	and landmarks shall be sub	mitted to the local agency.
UF 15	Tone	ALL:	COM	PARIMENTALIZED TAI	NK Yes No
DATE INSTALLED (YEAR/MO)) 435 TANK CAPACITY IN	GALLONS	436 NITTA	", complete one page for each compa	stincet.
1987	1 10,000		NOM	BER OF COMPARTMEN	rs
ADDITIONAL DESCRIPTION (F	For local tase only)		<u>-</u>		
TANK USE 409	T	IL TANK CONTE	NTS		
1. MOTOR VEHICLE FUEL	PETROLEUM TYPE				
If marked complete Petroloum Type)	1a. REGULAR UNLEADED 1b. PREMIUM UNLEADED	2 LEADED	🗆 5. ÆT		
2. NON-FUEL PETROLEUM	1c. MIDGRADE UNLEADED	3. DIESHL		TION FUEL	
3. CHEMICAL PRODUCT	COMMON NAME (from Hazardons	4. GASOHOL	☐ 99. OTH		
4. HAZARDOUS WASTE	TOTAL NATION (HOM INCOME)	Materials Inventory page)	441 CAS	# (from Hazardous Materials Inven	lory page) 4
(Technics Used O(I)					•
95. UNKNOWN			1		
	111	L TANK CONSTRUC	CTION		
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nock one item only)	EXTER	IOR MEMBRANE LINES	R 🔲 95. UNKNO	WN	ADDER SYSTEM 44
		EWALLIN VAULT	🗖 99. OTHER		
		FLASS / PLASTIC	5. CONCRET		☐ 95. UNKNOWN 444
	REINEO	CLAD W/FIBERGLASS RCED PLASTIC (FRP)	8. FRP COMP	TIBLE W/100% METHANOL	99. OTHER
NK MATERIAL - secondary tank 1.	BARE STEEL 3. FIREE	GLASS / PLASTIC		•	
ocic once i town coulty)		L CLAD W/FIBERGLASS	5. CONCRE		95. UNKNOWN 445
•		ORCED PLASTIC (FRP)		PTIBLE W/100% METHANC	L 🔲 99. OTHER
IK INTERIOR LINING 1. RUB	5. CONC	RETE		S I I I I I	
	BBER LINED 3. EPOXY LINI	NG 🔲 5. GLASS I	LINING 95	. UNKNOWN 446 I	DATE INSTALLED 447
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k one item only) ER CORROSION I MANU TECTION IF APPLICABLE PROTE Cone item only) I SACRIE AND OVERFILL YEAR IN	JEACTURED CATHODIC 2/3 FIBI SCTION 4 IMPI FICIAL ANODE	ERGLASS REINFORCED RESSED CURRENT Coal tase only) 451 07	PLASTIC 9	5 UNKNOWN 448 D	ATE INSTALLED 449
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RE CORROSION I MANU FECTION IF APPLICABLE PROTE E concition only 2 SACRIE LAND OVERFILL YEAR IN all that apply) I SPILL CONTAIN 2 DROP TUBE 3 STRIKER PL. IV.	JEACTURED CATHODIC 23 FIBI SCITION 4 IMP FICIAL ANODE TYPE (In INMENT ATE TANK LEAK DETECTION (A)	ERGLASS REINFORCED RESSED CURRENT Cont take only) 451 OT	PLASTIC 9 VERFILL PROTECTI 1 ALARM 2 BALL FLOAT	S UNKNOWN . 448 D 9 OTHER ON EQUIPMENT: YEAR INS 1 3 FILL TUBE SI 1 4 EXEMPT	(For local two only) TALLED 1998 452
RE CORROSION I MANU IECTION IF APPLICABLE PROTE COME Item only) 2 SACRIE AND OVERFILL YEAR IN All that apply) 1 SPILL CONTAIN 2 DROP TUBE 3 STRIKER PL. VGLE WALL TANK (Check all that a	JEACTURED CATHODIC 2 FIBE SECTION 4 IMP SECTION 4 IMP SECTION 7 IMP SECTION (ACCEPTED)	ERGLASS REINFORCED RESSED CURRENT Coal tase only) 451 OT description of the monitoring pr 453	PLASTIC 9 VERFILL PROTECTI 1 ALARM 2 BALL FLOAT Togram shall be solumitise.	S UNKNOWN . 448 D OTHER ON EQUIPMENT: YEAR INS O 4 EXEMPT Shut off	(For local two only) TALLED 1998 452 HUT OFF VALVE
RER CORROSION I MANU TECTION IF APPLICABLE PROTE TO COME IN THE PROTECT IN THE PR	JEACTURED CATHODIC 2 FIBE SECTION 4 IMP SECTION 4 IMP SECTION 7 A SECT	ERGLASS REINFORCED RESSED CURRENT Ceal tase only) 451 OT description of the monitoring pa	VERFILL PROTECTI 1 ALARM 2 BALL FLOAT TO gram shall be submitted TO gram only Check one item only	S UNKNOWN . 448 D O OTHER ON EQUIPMENT: YEAR INS 3 FILL TUBE SI 4 EXEMPT LO THE COLUMN ASSESSION SINCE A SERVICE SINCE ASSESSION SINCE ASS	(For local tase only) TALLED 1998 452 HUT OFF VALVE (BLADDER 454
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UNIFIED PROGRAM CONSOLIDATED FORM

UNDERGROUND STORAGE TANKS - TANK PAGE 2

TANKS

	TETGE TANK PAGE 2
VL PIPING CONSTRU UNDERGROUND PIPING	
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COMPANY COLOR OF THE PROPERTY	
MANUFACTURER 2. DOUBLE WALL 95. UNKNOWN	U 95, UNKNOWN 462
MANUFACTURER	2 DOUBLE WALL 99. OTHER
C) DARROWEY C)	461 MANUFACTURER 463
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DEVA WIDER OF ACC	3. PLASTIC COMPATIBLE W/ CONTENTS 8. FLEXIBLE (HDPE) 99. OTHER
	4. FIBERGLASS 9. CATHODIC PROTECTION
	S. STEEL W/COATING 95. UNKNOWN 465
UNDERGROUND PIPING UNDERGROUND PIPING	by) (A description of the monitoring program shall be submitted to the local agency.)
STRICK E WILLY TOWN	ABOVEGROUND PIPING
PRESSURIZED PIPING (Check all that apply):	DECCIONED NODES 467
1. ELECTRONIC LINE LEAK DETECTOR 3.0 GPH TEST WITH AUTO BURGE ST	PRESSURIZED PIPING (Check all that apply):
OFF FOR LEAK, SYSTEM FAILURE, AND SYSTEM DISCONNECTION + AUDIBLE AND VISUAL ALARMS.	SHUT OFF FOR LEAK, SYSTEM FAILURE AND SYSTEM FOR THE STATE OF THE STAT
2. MONTHLY 0.2 GPH TEST	ACDIBLEAND VISUAL ALARMS.
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SAFE SUCTION SYSTEMS (NO VALUES IN BELOW GROUNDPIPING):	6. TRIENNIAL INTEGRITY TEST (0.1 GPH)
7. SELF MONITORING	
GRAVITY FLOW	SAFE SUCTION SYSTEMS (NO VALVES IN BELOW GROUND PIPING): 7. SELF MONITORING
9. BIENNIAL INTEGRITY TEST (0.1 GPH)	
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	8. DAILY VISUAL MONITORING
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12. ANNUAL INTEGRITY TEST (0.1 GPH)	☐ 12. ANNUAL INTEGRITY TEST (0.1 GPH)
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☐ 3. CONTINUOUS DISPENSER PAN SENSOR WITT DISPENSER + AUDIBLE AND VISUAL ALARM	AUTO SHUT OFF FOR
	ATOR SIGNATURE 469
certify that the information provided kerein is true and accurate to the best of my knowledge.	AA VA SIGNAL URL
GNATURE OF OWNER, OPERATOR	DATE
July n Jenen	4/30/03
AME OF OWNER/OPRATOR (Hrint) 471	TITLE OF OWNER/OPERATOR 472
Jetrey R. Jones	Environmental Comphanis Sugarisor
mit Namber (For local asc only) 473 Permit Approved (For local use of	ely) 474 Permit Expiration Data (For local use only) 475



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. 1	- ⊢	X HIRED AUTOS X NON-OWNED AUTOS					BODILYINLURY (Per accident)	\$	
\perp	-						PROPERTY DAMAGE	\$	
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İ						.	OTHER THAN AUTO ONLY:		
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—	Œ	FICERS ARE: EXCL				1 =	DISEASE POLICY LIMIT	<u>\$</u>	1,000,000
В	Co	ntractors Pollution/ rors & Omissions	PEC 8045683-08	11/01/0	1	1/01/03 \$	1,000,000 Per Occurrenc 1,000,000 Aggregate		
The	City	TION OF OPERATIONS/LOCATIONS/VEH	-4° • • • • • • • • • • • • • • • • • • •	<u>.</u>		(3)	50,000 Deductible		
Герг	ese	ntatives, while acting in the scop	ation, acting by and through the Bo e of their authority, are an addition ontract with respect to work perform	ard of Po al insure	ort Commissi d on the Gen	oners, and their of	foers, agents, employees	and _	
Auto	omo	policies as required by written or bile Liability, workers Compensa	e of their authority, are an addition ontract with respect to work perform tion and Contractors Pollution Liabi	ned by th	e Named Ins	sured. Waiver of S	ubrogation applies to Ge	actors P neral Lia	ollution ability
		ICATE HOLDER			WCELLATIC	arance witt be billit	ary and non-contributing	with res	ped to
				THE PARTY NAMED IN					
		PORT OF ONE AND		THE (A	SURER AFFORDI	NG COVERAGE WILL FUT	N BE CANCELLED BEFORE THE EX BEWOR TO MUL	O MOITABLE	ATE THEREOF,
		PORT OF OAKLAND ATTN: RISK MNGMNT DEPT.	•	CERTIF	FICATE HOLDER N	MED HEREIN, BUT FAILUR	E TO MAIL SUCH NOTICE SHALL IM	RUTTEN NO.C	DICE TO THE
		530 WATER ST OAKLAND, CA 94607		UABILIT	TY OF ANY KIND UF	ON THE INSURER AFFORD	ING COVERAGE, IT'S AGENTS OR RE	PRESENTA	TIVES OR THE
		, =		ISSUER	OF THIS CERTIFIC	ATE.			
				1	iusa nc. Edward M. Be	lskv (n	L M. Biletys		
				имі		سر کمالد			
0.99 SA	nerii:				/		VALID AS OF: 04		

ADDITIONAL INFORMATION			SEA-000615668-04	
Marsh Risk & Insurance Services		COMPANIES	AFFORDING COVERA	GE
California License No. 0437153 The Financial Center 1215 Fourth Avenue, Ste. 2300	COMPANY			
1215 Fourth Avenue, Ste. 2300 Seattle, WA 98161 Attn: Merann Dickinson 206-613-2418	COMPANY			
01002 ALAM 02 02	F			
SURED	CG201 COMPANY	· ·		
Foss Environmental Services Company 1605 Ferry Point Alameda, CA 94501	G			
Alameda, QA 34001	CONTRACTOR			
	H			
XT	-			
ONTINUED FROM DESCRIPTION SECTION:				
ny other insurance available to the additional insured. MCS90 and CA	onae is aludod under	** * * * * * * * * * * * * * * * * * *		
	9940 included under	the Automobile Liability	. CG 2010 attached.	
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				•
		•		•
	•			
			•	
			•	
FICATE HOLDER PORT OF OAKLAND				
ATTN: RISK MNGMNT DEPT. 530 WATER ST				
OAKLAND, CA 94607				
	AUTHORIZED REPR	ESENTATIVE		
	MARSH USA NC. BY Edward M. Bel		M. Bilekys	



031803 REVISION

PROJECT INFORMATION

SITE SPECIFIC HEALTH AND SAFETY PLAN

Approvals

Initials

Date

Date(s) of Field Work: <u>5/5/03 - 5/9/03</u>			Initials	Date
	T 1 - 9207 001	Prepared	EZ	4/30/0
	Number: <u>8207.001</u>	Ву	,	
Client: <u>Michael McMillan</u> Site Pho		Approved		
Site Address: 209 Brush Street, Oakland Site I		Ву		
Scope of Work: Removal of underground storage t	<u>anks</u>			
·				
Type of Project: Environmental; Geotechnica	l; Industrial Process; Other:	4.		
☐HAZWOPER Project: Training & Medical Surv	eillance must conform to 29 CFR 1	910.120 & 0	Geomatrix Gui	idelines
Client Specific Requirements (Attached)		:	,	
KEY CONTACTS				
Project Manager: Jennifer Patterson	Phone: <u>510-663-4167</u>	Cell	510-821-8925	•
Project H&S Manager: <u>Don Kubik</u>	Phone: 510-663-4115			
Site H&S Manager: Erin Zavarin			510-368-6433 510-014-5165	
Client Contact: <u>Jeff Reuben</u>	Phone: <u>510-663-4199</u>	Cen: 1	<u>510-914-5165</u>	•
	Phone: <u>510-627-1134</u>	Cell: _	<u>· </u>	
Client's Site Contact: <u>Michael McMillan</u>	Phone: <u>510-627-1406</u>	Cell: _		
Other:	Phone:	Cell: _		
Other:				•
75 17 179 179				
Emergency Medical Facility: Alta Bates Summit Me	<u>dical Center</u>			
Address: 350 Hawthorne Avenue	*1		•	
Phone Number (general): <u>510-655-4000</u>	Phone Number (emergency):	510-869-660	<u>00</u>	
⊠Emergency Medical Facility Confirmed		ed		* *
Police: 911 Fire: 911 Paramedic/Ambulance:	911		•	1.1
Poison Control Center: 800-222-1222		•		
EMERGENCY PROCEDURES	V v v	***		
Medical Emergencies			•	
1. Remove injured or exposed person(s) from imme	diate danger if possible.	•		
2. Evacuate other on-site personnel to a safe place in	n an upwind direction until it is safe	for work to	resume.	
3. If serious injury or life-threatening condition exis	ts, call 911 - Paramedics, fire depar	tment nolic	e Hospital	
emergency room Clearly describe location, injur	v and conditions to dispatcher/hosp	tal Design	o ilospitui até a nerson to	direct
emergency equipment to the injured person(s).	, and conditions to dispute in incorp.	ital. Design	ate a person to	Juncer
4. Provide first aid if necessary. Remove contamina	ted clothing only if this can be done	a without an	danaarina tha	لمستنسا
person.	aced crottning only if this can be done	s without en	dangering me	injurea
5. Call the project manager and/or project health and	I sofaty officer			
6. Immediately implement steps to prevent recurrence				
o. Immediately implement steps to prevent recurrent	ce of the accident.			
Accidental Release of Hazardous Materials or Was	atos.			
		TTOO 1.		C
 Evacuate all on-site personnel to a safe place in ar for work to resume. 	i upwind direction until the PM of I	HSO determ	nines that it is	sate
	J. D. C. DYYGO	•		
2. Immediately instruct a designated person to contact				
3. Contain spill, if it is possible and it can be done sa	fely.			
4. Initiate cleanup.				
General Emergencies				
In the case of fire, flood, explosion, or other hazard, w	ork shall be halted and the local pol	ice/ fire dep	artment shall	be
notified by calling 911. All on-site personnel will be i	mmediately evacuated to a safe plac	e.		
	-		•	
Emergency Equipment Onsite				
	sh; Other:			

CHEMICAL HAZARDS

	EXPOSURE LIMITS			KNOWN/EXPECTED	HEALTH HAZARD	
	OSH	A	ACGIH	CONCENTRATIONS		
Gasoline	Pel: 300 ppm	T	LV: 300 ppm	Unknown		
Benzene	Pel: 1 ppm		LV: 0.3 ppm	Unknown		
Toluene	Pel: 50 ppm	TI	LV: 50 ppm	Unknown		
Ethyl	Pel: 100 pm		LV: 100 ppm	Unknown		
Benzene	_					
Xylenes	Pel: 100 pm	TI	LV: 100 ppm	Unknown		
MTBE	Pel: none		LV: 40 ppm	Unknown		
Diesel	Pel: none		LV: 100 mg/m ³	Unknown		
	•					
PHYSICAL H	HAZARDS:					
Heat Stress	*."	Cold Stres	SS	₩et	⊠Noise	
Slip,Trip, & ∃	Fall	Heavy Equ	uipment	Electrical Hazards		
Underground	Hazards: One			Date Called:		
Private Locat	tor Utilized:			Overhead Hazards		
Traffic			ns/Trenching	Confined Space		
Other:						
lote: contractor	to clear excava	tion location v	vith USA and pri	vate utility locator.		
IOLOGICA	L HAZARDS	:		4.		
Pathogens: _				Mold:	,	
Plants:				Insects:	•	
Other Fauna:				Other:		
			· .			
TTE CONTR		storage yard	that is secured w			
ERSONAL I	OLS: Site is a	NATION PI	ROCEDURES	ith fencing. : Remove disposable gloves a	nd clothing and place in	
ERSONAL I	OLS: Site is a	NATION PI	ROCEDURES	ith fencing.	nd clothing and place in	
ERSONAL I Lastic bags. Wa ERSONAL P	OLS: Site is a DECONTAM ash hands before PROTECTIVE	INATION PI e eating, drink E EQUIPME	ROCEDURES ing, or smoking of ENT – R = RE(ith fencing. Remove disposable gloves and at end of day. QUIRED, A = HAVE AVA		
ERSONAL I lastic bags. Wa ERSONAL P	OLS: Site is a DECONTAM ash hands before PROTECTIVE	INATION PI e eating, drink E EQUIPME	ROCEDURES ing, or smoking of ENT – R = RE(ith fencing. : <u>Remove disposable gloves a</u> und at end of day.		
ERSONAL I Lastic bags. Wa ERSONAL P Eye Protection	OLS: Site is a DECONTAME ash hands before PROTECTIVE IN R Safety Gla	INATION Ples eating, drinks E EQUIPME sses; Splash	ROCEDURES ing, or smoking of CNT - R = RE(in Goggles; Fa	ith fencing. Remove disposable gloves as und at end of day. OUIRED, A = HAVE AVA ce Shield;Other:	ILABLE	
ERSONAL Dastic bags. Was ERSONAL P Eye Protection Hard Hat	OLS: Site is a DECONTAME ash hands before PROTECTIVE I: R Safety Gla	INATION Ple eating, drink E EQUIPME sses; Splash R Steel-Toed	ROCEDURES ing, or smoking of ENT – R = REC a Goggles; Fa Boots	ith fencing. Remove disposable gloves and at end of day. QUIRED, A = HAVE AVA ce Shield;Other: Chemical Resistant Boot	ILABLE	
ERSONAL D Lastic bags. Was ERSONAL P Eye Protection Hard Hat Traffic Safety	OLS: Site is a DECONTAME ash hands before PROTECTIVE as R Safety Glauvest	INATION Ples eating, drinks E EQUIPME sses; Splash R Steel-Toed A Hearing Pro	ROCEDURES ing, or smoking of ENT - R = RE(a Goggles; Fa Boots btection:	ith fencing. Remove disposable gloves as and at end of day. QUIRED, A = HAVE AVA ce Shield;Other: Chemical Resistant Boot	ILABLE	
ERSONAL DESCRIPTION OF THE PROPERTY OF THE PRO	DECONTAME Shands before PROTECTIVE Region Safety Glau Vest Othing: Tyve	E EQUIPME sses; Splash R Steel-Toed A Hearing Pro	ROCEDURES ing, or smoking of ENT - R = REC in Goggles; Fa Boots otection: Tyvek®;Sarin	ith fencing. Remove disposable gloves and at end of day. QUIRED, A = HAVE AVA ce Shield;Other: Chemical Resistant Boother;Other:	ILABLE	
ERSONAL Pastic bags. Was ERSONAL P Eye Protection Hard Hat Traffic Safety Protective Clo	OLS: Site is a DECONTAME ash hands before PROTECTIVE IN R. Safety Gladuster Conting: Tyve trile; PVC; PVC;	E EQUIPME sses; Splash R Steel-Toed Hearing Prok®;	ROCEDURES ing, or smoking of ENT - R = RE(in Goggles; Fa Boots otection: Tyvek®;Sarin cloth/leather;	ith fencing. Remove disposable gloves and at end of day. QUIRED, A = HAVE AVA ce Shield;Other: Chemical Resistant Boother;Other:	ILABLE	
ERSONAL Dastic bags. Wastic bags. Wastic bags. Wastic bags. Wastic bags. Wastic bags. ERSONAL Pard Hat Traffic Safety Protective Clouds: Nit Respiratory:	DECONTAME Site is a DECONTAME Sh hands before PROTECTIVE R Safety Gla Vest Othing: Tyve Trile; PVC; Full-Face API	E EQUIPME sses; Splasl R Steel-Toed Hearing Pro k®;	ROCEDURES ing, or smoking of CNT - R = RE(a Goggles; Fa Boots otection: Tyvek®; [] Sarin] cloth/leather; [e APR	ith fencing. Remove disposable gloves and at end of day. QUIRED, A = HAVE AVA ce Shield;Other: Chemical Resistant Boothex;Other: ex;Other:	ILABLE	
ERSONAL Pastic bags. Was ERSONAL P Eye Protection Hard Hat Traffic Safety Protective Clo Gloves: Nit Respiratory: [Filter: Organizations]	DECONTAME Site is a DECONTAME Shands before PROTECTIVE R Safety Glau Vest Othing: Tyve Trile; PVC; Full-Face API anic Vapor; A	E EQUIPME sses; Splasl R Steel-Toed Hearing Pro k®;	ROCEDURES ing, or smoking of ENT - R = RE(in Goggles; Fa Boots otection: Tyvek®;Sarin cloth/leather;	ith fencing. Remove disposable gloves and at end of day. QUIRED, A = HAVE AVA ce Shield;Other: Chemical Resistant Boothex;Other: ex;Other:	ILABLE	
ERSONAL Interpretation of the protection of the protection of the protection of the protective Clouds: Note that the protective Clouds: Note the protective of the protection	DECONTAME Site is a DECONTAME Sh hands before PROTECTIVE R Safety Gla Vest Othing: Tyve Trile; PVC; Full-Face API anic Vapor; A	INATION Ples eating, drinks E EQUIPME sses; Splash R Steel-Toed A Hearing Pro k®;	ROCEDURES ing, or smoking of ENT - R = RE(a Goggles; Fa Boots otection: Tyvek®; Sarin cloth/leather; e APR EPA;Other:	ith fencing. Remove disposable gloves and at end of day. QUIRED, A = HAVE AVA ce Shield;Other: Chemical Resistant Boothex;Other: Other:	SILABLE S	
ERSONAL Dastic bags. Wastic bags. Wastic bags. Wastic bags. Wastic bags. Wastic bags. Wastic bags. Ersonal Hard Hat Traffic Safety Protective Clo Gloves: Nit Respiratory: [Filter: Organother:	DECONTAME Site is a DECONTAME Sh hands before PROTECTIVE Research PROTECTIVE Research PROTECTIVE Tyve INATION Ples eating, drinks E EQUIPME sses; Splash R Steel-Toed A Hearing Pro k®;	ROCEDURES ing, or smoking of ENT - R = RE(a Goggles; Fa Boots otection: Tyvek®; Sarin cloth/leather; e APR EPA;Other:	ith fencing. Remove disposable gloves and at end of day. QUIRED, A = HAVE AVA ce Shield;Other: Chemical Resistant Boothex;Other: ex;Other:	AILABLE s		
ERSONAL Interpretation of the control of the contro	DECONTAME Site is a DECONTAME Sh hands before PROTECTIVE Research PROTECTIVE Research PROTECTIVE Tyve E EQUIPME sses; Splash E EQUIPME sses; Splash E Steel-Toed A Hearing Pro k®;	ROCEDURES ing, or smoking of ENT - R = RE(a Goggles; Fa Boots otection: Tyvek®; Sarin cloth/leather; e APR EPA;Other:	ith fencing. Remove disposable gloves and at end of day. QUIRED, A = HAVE AVA ce Shield;Other: Chemical Resistant Boothex;Other: Other:	AILABLE s		
ERSONAL In astic bags. Was ERSONAL P. Eye Protection Hard Hat Traffic Safety Protective Cloud Gloves: Nite Respiratory: Filter: Organ Other: Air monitoring in the cate the immed CONITORING	DECONTAME Site is a DECONTAME Sh hands before PROTECTIVE Example: Market Glant Vest Othing: Tyve Tyve	INATION PIce eating, drinks E EQUIPME sses; Splash R Steel-Toed A Hearing Pro k®; Coated Neoprene; R; \(\sum_{\text{Half-Fac}}\) Acid Gas; \(\sum_{\text{H}}\) breathing zone	ROCEDURES ing, or smoking of ENT - R = RE(a Goggles; Fa Boots bection: Tyvek®; [] Sarir] cloth/leather; [] e APR EPA; [] Other: e exceeds 10 ppm	ith fencing. Remove disposable gloves and at end of day. QUIRED, A = HAVE AVA ce Shield;Other: Chemical Resistant Boothex;Other: Other:	Trade to Level C (APR) or	

Passive Dosimeter

Air Sampling Pump – Filter Media:

Other: Contractor will provide combustible gas indicator to monitor excavation and tanks.

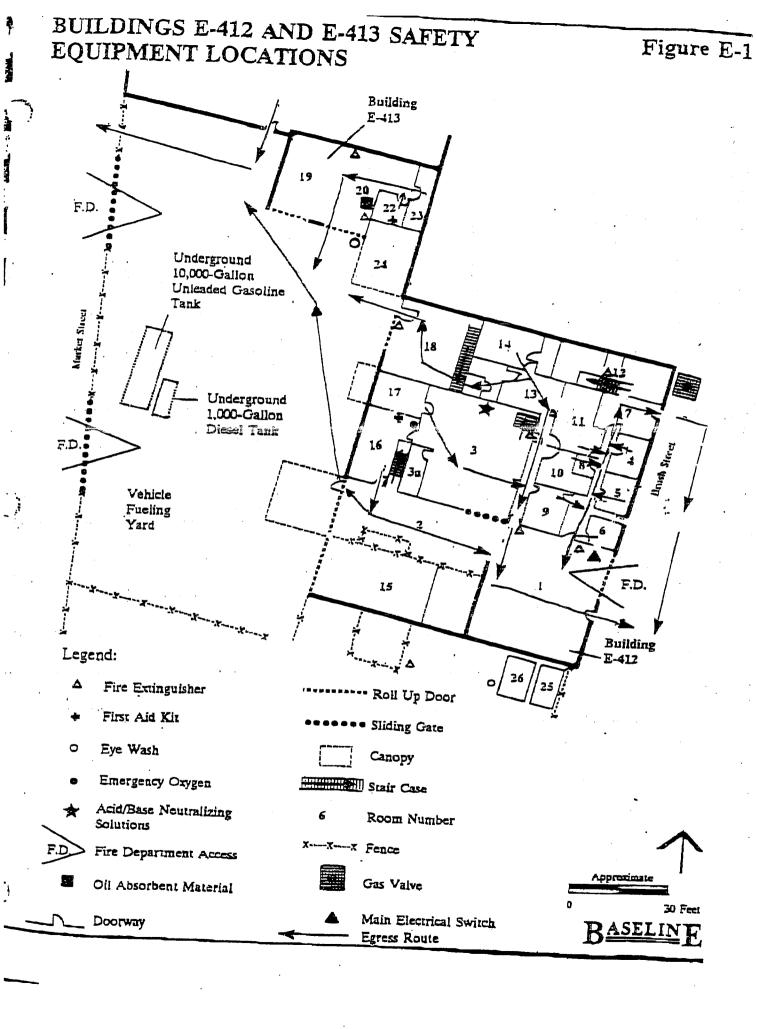
031803 REVISION

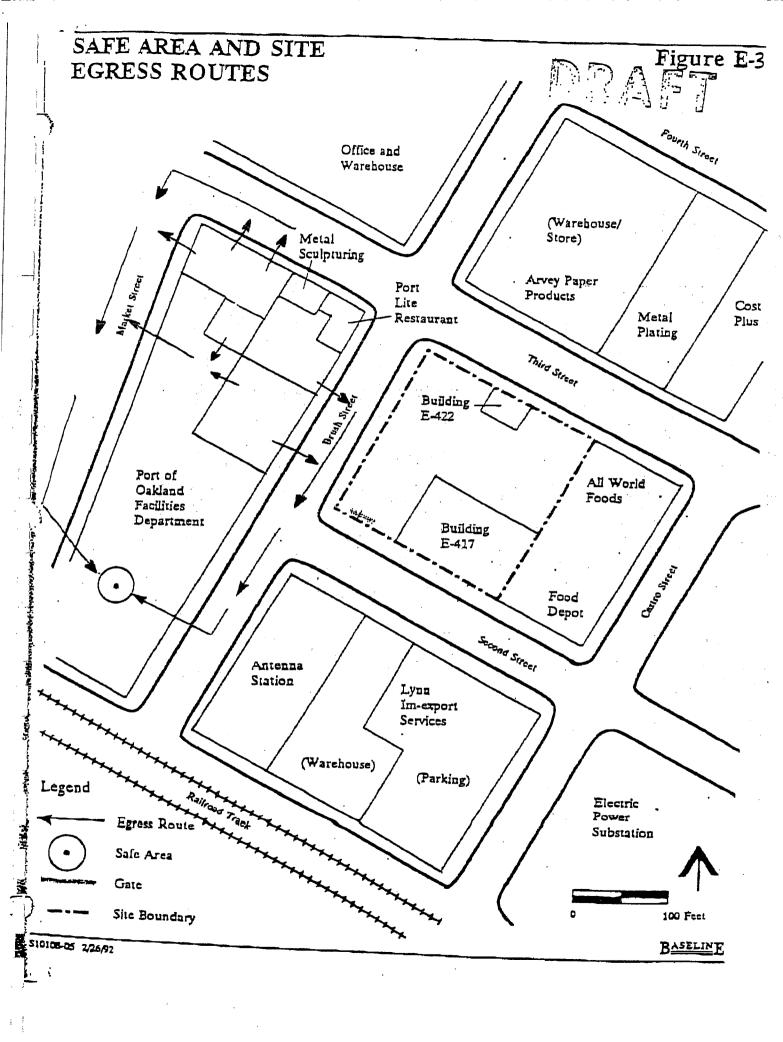
Hydrogen Sulfide Meter



TAILGATE SAFETY MEETING

Date:	
Project Name:	
Project Number:	
Site Location:	
Scope of Work for Day:	
Lead By:	
Name (printed)	Signature







Yahoo! Maps

Back to Directions

Starting from: 1 209 Brush St, Oakland, CA 94607-3009

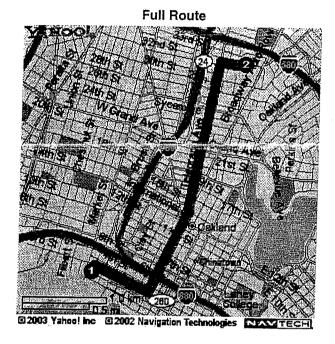
Arriving at: 2 Alta Bates Summit Medical Ctr 350 Hawthorne Ave, Oakland, CA 94609

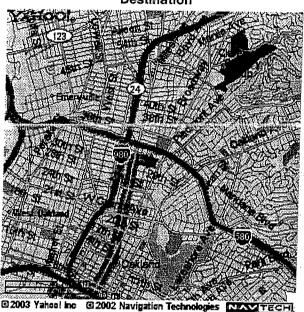
(510) 869-6588

Distance: 2.5 miles

Approximate Travel Time: 6 mins

Destination





Di	rections	Miles	T
1.	Start on BRUSH ST	0.1	1
2.	Turn Right on 3RD ST	0.4	
3.	Turn Left on BROADWAY	0.7	7
4.	Continue on TELEGRAPH AVE	1.1	5
5.	Turn Right on HAWTHORNE AVE	0.2	r

Distance: 2.5 miles Approximate Travel Time: 6 mins

When using any driving directions or map, it's a good idea to do a reality check and make sure the road still exists, watch out for construction, and follow all traffic safety precautions. This is only to be used as an aid in planning.

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STATE OF CALIFORNIA STATE WATER RESOURCES CONTROL BOARD





COMPLETE THIS FORM FOR EACH FACILITY/SITE

ONE ITEM 2 INTERIM PERMIT 4 AMENDED PERMIT	B TEMPORARY SITE CLOSURE
I. FACILITY/SITE INFORMATION & ADDRESS - (MUST BE COMP	LETED)
DBA OR FACILITY NAME .	NAME OF OPERATOR
HARBOR FACILITIES GARAGE	PORT OF OAKLAND
ADDRESS 209 BRIISH STREET	NEAREST CROSS STREET PARCEL # (OPTIONAL) MARKET STREET
CITY NAME OAKLAND	STATE ZIP CODE SITE PHONE # WITH AREA CODE CA 94607 (510) 577-4045
✓ 80X TO INDICATE CORPORATION INDIVIDUAL PARTHERSHIP	LOCAL-AGENCY COUNTY-AGENCY STATE-AGENCY FEDERAL-AGENCY DISTRICTS
"If owner of UST is a public agency, complete the following: name of Supervisor of division, section TYPE OF BUSINESS 1. CAS STATION 2. DISTRIBUTOR	/ IF INDIAN # OF TANKS AT SITE E. P. A. I. D. # (optional)
TYPE OF BUSINESS 1 GAS STATION 2 DISTRIBUTOR 3 FARM 4 PROCESSOR 5 OTHER	RESERVATION OR TRUST LANDS 2 CALOOO015571
EMERGENCY CONTACT PERSON (PRIMARY)	EMERGENCY CONTACT PERSON (SECONDARY) - optional
DAYS: NAME (LAST, FIRST) HOGLUND, HOMER (510) 577-4045	DAYS: NAME (LAST, FIRST) PHONE & WITH AREA CODE
NIGHTS: NAME (LAST, FIRST) PHONE # WITH AREA CODE HOGLUND, HOMER (510) 223-8847	NIGHTS: NAME (LAST, FIRST) PHONE # WITH AREA CODE
II. PROPERTY OWNER INFORMATION - (MUST BE COMPLETED)	
PORT OF OAKLAND	CARE OF ADDRESS INFORMATION NEIL WERNER, ENVIRONMENTAL COMPLIANCE
MAILING OR STREET ADDRESS	✓ box to indicate INDIVIDUAL A LOCAL-AGENCY STATE-AGENCY
530 WATER STREET	CORPORATION PARTNERSHIP COUNTY AGENCY FEDERAL AGENCY
OAKLAND	STATE
III. TANK OWNER INFORMATION - (MUST BE COMPLETED)	
NAME OF OWNER	CARE OF ADDRESS INFORMATION NEIL WERNER, ENVIRONMENTAL COMPLIANCE
PORT OF OAKLAND MAILING OR STREET ADDRESS	Z by a legal and a second a second and a second a second and a second a second and a second and a second and
530 WATER STREET	CORPORATION PARTNERSHIP COUNTY-AGENCY FEDERAL-AGENCY
CITY NAME	STATE ZIP CODE PHONE # WITH AREA CODE
OAKLAND	CA
IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUM	1BER - Call (916) 322-9669 if questions arise.
TY (TK) HQ [4 4-]-[0 0 0 5 6 8]	•
V. PETROLEUM UST FINANCIAL RESPONSIBILITY - (MUST BE CO	MPLETED) - IDENTIFY THE METHOD(S) USED
the state of the s	GUARANTEE 1 INSURANCE 4 SURETY 60ND
• —	EXEMPTION 99 OTHER
VI. LEGAL NOTIFICATION AND BILLING ADDRESS Legal notification	n and billing will be sent to the tank owner unless box I or II is checked.
CHECK ONE BOX INDICATING WHICH ABOVE ADDRESS SHOULD BE USED FOR LEGAL NOTIF	FICATIONS AND BILLING: I II. X III.
THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AN	D TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT
OWNERS NAME (PRINTED & SIGNED)	DATE MONTHODAY/YEAR
NEIL WERNER My Mline	DR 3/20/96
LOCAL AGENCY USE ONLY	
COUNTY # JURISDICTION #	FACILITY #
· [
LOCATION CODE - OPTIONAL CENSUS TRACT # - OPTIONAL	SUPVISOR - DISTRICT CODE - OPTIONAL

	Î
Alameda County Health Care Services	Agency
Department of Environmental Health Lermit	
STID #3968 This is to certify that Port of Oakland	
	, is permitted
to operate a Two Underground Storage Tanks	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
at 209 Brush St, Oakland, CA. 94607 (#01-000-058430-000) This permit is not transferable and is good until	003)
March 19, 2002	
Tamela Specialist Jesued this 9th day of August, 1 By Authority of Specialist Director of Environment	9
Specialist By Authority of Specialist Director of Environm	ental Health

CITY OF OAKLAND FIRE PREVENTION BUREAU 421 14TH ST., 1ST FL. OAKLAND, CALIFORNIA 94612 (510) 238-3851

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

, 10 , 110	. Re	quest Submi	ital Date: 5-1/-98	7
PLEASE CIRCLE APPROPI				
(a) Remove (b) Install (c) Repair	d) Modify (e)	Abandon/Clo	ose in Place A	•
(a) Gasoline) (b) Fuel oil (c) D	iesel (d)		tank(s) and excave	ate, commencing:
(a) four feet inside the curb line* *Inside curb line, please attach copy of			om PLANNING AND	BUILDING
on theside of		St./Aye	feetof	St./Aye.
Site Address: 209 Brush	ST.	Preser	it storage	
Owner: POVT OF Oakland	Address	530. W	later St.	Phone <u>5/0-27<i>2</i>-1/</u> 76
Applicant: Port of Oall	Address_	530 V	vaterst.	Phone 2721176
Sidewalk surface to be disturbed N		of Tanks	2 Capacity 10 00	Diesel O Unione Gallons ea.
Remarks RePlace fill Spi	11 boxes. WI	4 OPW	Universal boxe	s of non-corrus
Signature Weil Wenn				Materials. 121618 (15gal 2
PLEASE ATTACH/SUBMIT: (All ap	onlicants must have	a City Rusia	IF COC(AF	121019 612gal
• (3) Copies of Closure Plans	for underground t	ank removal	(3)	
• (3) Sets of plans and (1) cop	y of specifications	for above gr	ound tank removal	•
• (3) Sets of plans and (3) sets	of application pac	kets for unde	rground tank install	ation/modifications
 (3) Sets of plans for abovegree copy or prepare to show Planer repair 	ound tank installa- oning and Buildin	tion g approval fo	r aboveground tank	removal and tank
NOTE: FOR TANK INSTALLATIO	N PLEASE SUBN	ait this ai	PLICATION FORM	I ALONG WITH A
APPLICATION FOR PERMIT TO C	PERATE, MAIN	TAIN OR S	TORE	
	FOR OFFICE	USE ONLY	,	
Permit No.	Amt. Recy'd		Date Issued:	
Copies to: Electrical Inspection	Ck#	Cash		
rev:02/98	Recv'd by:			Tk

STATE OF CALIFORNIA STATE WATER RESOURCES CONTROL BOARD UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B



COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONLY 1 NEW PERMIT X 3 RENEWAL PERMIT 5 CHANGE OF INFORMATION 7 PERMANENTLY CLOSED ON S ONE ITEM 2 INTERIM PERMIT 4 AMENDED PERMIT 6 TEMPORARY TANK CLOSURE 8 TANK REMOVED
DBA OR FACILITY NAME WHERE TANK IS INSTALLED: HARBOR FACILITIES GARAGE
1. TANK DESCRIPTION COMPLETE ALL ITEMS - SPECIFY IF UNKNOWN
A OWNER'S TANK LO. FF16
C. DATE INSTALLED (MO/DAY/YEAR) 1987 D. TANK CAPACITY IN GALLONS: 1,000
II. TANK CONTENTS IF A-1 IS MARKED, COMPLETE ITEM C.
A X 1 MOTOR VEHICLE FUEL 4 OIL 8. C. 1a REGULAR UNLEADED Y 3 DIESEL 6 AVIATION GA 2 PETROLEUM 80 EMPTY XX 1 PRODUCT 1b PREMUM UNLEADED 4 GASAHOL 7 METHANOL 10 MIDGRADE UNLEADED 5 JET FUEL 8 M85 2 VASTE 2 LEADED 99 OTHER (DESCRIBE IN ITEM 0. BELOW)
D. IF (A.1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED C. A. S. #:
III. TANK CONSTRUCTION MARK ONE ITEM ONLY IN BOXES A. B. AND C, AND ALL THAT APPLIES IN BOX D AND E
A. TYPE OF 1 DOUBLE WALL
B. TANK
C. INTERIOR
D. EXTERIOR 1 POLYETHYLENE WRAP 2 COATING 3 VINYL WRAP X 4 FIBERGLASS REINFORCED PLASTIC PROTECTION 5 CATHODIC PROTECTION 91 NONE 95 UNKNOWN 99 OTHER
E. SPILL AND OVERFILL, etc. SPILL CONTAINMENT INSTALLED (YEAR) 1987 OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) 10 DISPENSER CONTAINMENT YES NO 10 DISPENSE
IV. PIPING INFORMATION CIRCLE A IF ABOVE GROUND OR 0 IF UNDERGROUND, BOTH IF APPLICABLE
A. SYSTEM TYPE A 1 1 SUCTION A U 2 PRESSURE A U 3 GRAVITY A U 4 FLEXIBLE PIPING A U 99 OTHER
B. CONSTRUCTION A U 1 SINGLE WALL A 0 2 DOUBLE WALL A U 3 UNED TRENCH A U 95 UNKNOWN A U 99 OTHER
C. MATERIAL AND A U 1 BARE STEEL A U 2 STAINLESS STEEL A U 3 POLYVINYL CHLORIDE (PVC) A U 4 FIBERGLASS PIPE CORROSION A U 5 ALUMINUM A U 6 CONCRETE A U 7 STEEL W COATING A U 8 100% METHANOL COMPATIBLE W/FRP PROTECTION A U 9 GALVANIZED STEEL A U 10 CATHODIC PROTECTION A U 95 UNKNOWN A U 99 OTHER
D. LEAK DETECTION 1 MECHANICAL LINE LEAX 2 LINE TIGHTNESS X 3 CONTINUOUS INTERSTITUL 4 ELECTRONIC LINE 5 AUTOMATIC PUMP 99 OTHER 99 OTHER 99 OTHER
V. TANK LEAK DETECTION
1 VISUAL CHECK 2 MANUAL INVENTORY 3 VADOZE 4 AUTOMATIC TANK 5 GROUND WATER 5 ANNUAL TANK MONITORING GAUGING MONITORING TESTING 7 CONTINUOUS INTERSTITIAL 8 SIR 9 WEEKLY MANUAL 10 MONTHLY TANK 95 UNKNOWN 99 OTHER
VI. TANK CLOSURE INFORMATION (PERMANENT CLOSURE IN-PLACE)
1. ESTIMATED DATE LAST USED (MO/DAYYR) . 2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING GALLONS INERT MATERIAL? YES NO
THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY K
TANK OWNER'S NAME (PRINTED & SIGNATURE) NEIL WERNER ALL WELL
LOCAL AGENCY USE ONLY THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW
STATE I.D.# COUNTY # JURISDICTION # FACILITY # TANK #
PERMIT NUMBER PERMIT APPROVED BY/DATE PERMIT EXPIRATION DATE

STATE OF CALIFORNIA STATE WATER RESOURCES CONTROL BOARD UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B



COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONLY 1 NEW PERMIT 3 RENEWAL PERMIT 5 CHANGE OF INFORMATION 7 PERMANENTLY CLOSED ON S ONE ITEM 2 INTERIM PERMIT 4 AMENDED PERMIT 6 TEMPORARY TANK CLOSURE 8 TANK REMOVED
DBA OR FACILITY NAME WHERE TANK IS INSTALLED: HARBOR FACILITIES GARAGE
I. TANK DESCRIPTION COMPLETE ALL ITEMS – SPECIFY IF UNKNOWN
A OWNER'S TANK I. D. # EF 15 B. MANUFACTURED BY: JOOR
C. DATE INSTALLED (MO/DAY/YEAR) 1987 D. TANK CAPACITY IN GALLONS: 10,000
II. TANK CONTENTS IF A-1 IS MARKED, COMPLETE ITEM C.
A X 1 MOTOR VEHICLE FUEL 4 OIL 8. C. X 1a REGULAR UNLEADED 3 DIESEL 6 AVIATION GAS 2 PETROLEUM 80 EMPTY X 1 PRODUCT 1b PREMIUM UNLEADED 4 GASAHOL 7 METHANOL 1 C MIDGRADE UNLEADED 5 JET FUEL 8 M85 2 C X 1a REGULAR UNLEADED 5 JET FUEL 8 M85 2 LEADED 99 OTHER (DESCRIBE IN ITEM D. BELOW)
D. IF (A.1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED C. A. S. #:
III. TANK CONSTRUCTION MARK ONE ITEM ONLY IN BOXES A, B, AND C, AND ALL THAT APPLIES IN BOX D AND E
A. TYPE OF TOUBLE WALL 3 SINGLE WALL WITH EXTERIOR UNER 5 INTERNAL BLADDER SYSTEM 95 UNKNOWN SYSTEM 2 SINGLE WALL IN A VAULT 99 OTHER
B. TANK
C. INTERIOR 1 RUBBER LINED 2 ALXYD LINING 3 EPOXY LINING 4 PHENOLIC LINING LINING OR 5 GLASS LINING \$ 8 UNUNED 95 UNKNOWN 99 OTHER COATING IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES NO
D. EXTERIOR 1 POLYETHYLENE WRAP 2 COATING 3 VINYL WRAP 4 FIBERGLASS REINFORCED PLASTIC CORROSION 5 CATHODIC PROTECTION 91 NONE 95 UNKNOWN X 99 OTHER Steel Clud W/fiberglass
E SPILL AND OVERFILL, etc. SPILL CONTAINMENT INSTALLED (YEAR) 1987 OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) ON STRIKER PLATE YES NO DISPENSER CONTAINMENT YES NO
V. PIPING INFORMATION CIRCLE A IF ABOVE GROUND OR Q IF UNDERGROUND, BOTH IF APPLICABLE
A. SYSTEM TYPE A 0 1 suction A U 2 PRESSURE A U 3 GRAVITY A U 4 FLEXIBLE PIPING A U 99 OTHER
S. CONSTRUCTION AU 1 SINGLE WALL AU 2 DOUBLE WALL AU 3 UNED TRENCH AU 95 UNKNOWN AU 99 OTHER
MATERIAL AND A U 1 BARE STEEL A U 2 STAINLESS STEEL A U 3 POLYVINYL CHLORIDE (PVC) A Q 4 FIBERGLASS PIPE CORROSION A U 5 ALUMINUM A U 6 CONCRETE A U 7 STEEL W/ COATING A U 8 100% METHANOL COMPATIBLE W/FRP PROTECTION A U 9 GALVANIZED STEEL A U 10 CATHODIC PROTECTION A U 95 UNKNOWN A U 99 OTHER
. LEAK DETECTION 1 MECHANICAL LINE LEAX 2 LINE TIGHTNESS 3 CONTINUOUS INTERSTITUAL 4 ELECTRONIC LINE 5 AUTOMATIC PUMP 99 OTHER 99 OTHER 99 OTHER
TANK LEAK DETECTION
1 VISUAL CHECK 2 MANUAL INVENTORY 3 VADOZE 4 AUTOMATIC TANK 5 GROUND WATER 6 ANNUAL TANK MONITORING 5 GAUGING MONITORING TESTING 6 ANNUAL TANK GAUGING TESTING 9 WEEKLY MANUAL 10 MONTHLY TANK 95 UNKNOWN 99 OTHER
I. TANK CLOSURE INFORMATION (PERMANENT CLOSURE IN-PLACE)
ESTIMATED DATE LAST USED (MO/DAY/YR) 2. ESTIMATED QUANTITY OF GALLONS 3. WAS TANK FILLED WITH YES NO GRAND NO GALLONS INERT MATERIAL ?
THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT TANK OWNER'S NAME (PRINTED & SIGNATURE) NEIL WERNER LULUM OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT TANK OWNER'S NAME (PRINTED & SIGNATURE) NEIL WERNER
OCAL AGENCY USE ONLY THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BE
STATE I.D.# COUNTY # JURISDICTION # FACILITY # TANK #
PERMIT APPROVED BY/DATE PERMIT EXPIRATION DATE

12:45

OPW 6 T 5 0 OVERFILL PREVENTION

OPW 61SO-1000 and 61SO-100C Grooved Tube

The OPW 615O-1000 and 61SO-100C Overfill Prevention Valves feature a grooved tube design for use in two-point applications with tank gauging probes. The 61SO-100C is CARB approved.

These valves have a slotted section that runs through both the tube and the valve body to allow the installation of nost manufacturer's gauging systems -. In only a negligible effect on product delivery time.

Assembly

All OPW 61SO series valves are furrushed with complete Instructions and all of the necessary hardware for field or shop assembly.

For complete assembly and installation instructions, refer to C-3357-PA (OPW 6150 and 6150M) or C-3634-PA (OPW 6150C) of C-3687-PA (OPW 51SOP) or C 3792-M (OPW 615OR),

Materials

Yalve body: cast aluminum Parat: mitte rubber, closed cell foom Valve: duminum Seaks: viton Upper & lower Drop Tube: alvavitum Prostic parts: Acuted Hardwore: Stainless Stae

Replacement Paris

-	_
Port #e.	Description
6150K-0001	Float Kit
MPPBEO	had point intel hubs
(03632M	Couniel Inlet tube

Important

In order to prevent profluc spillage from the Underground Sprage Tank (UST), properly maintained delivery equipment and a proper connection at the tight fill adaptor are essential. Delivery personnel should be managed and trained to inspect delivery elbow and hoses for damaged are missing ралз. They should always make certain there is a positive connection between the adaptor and elbow. If delivery equipment is not properly maintained or the elbow is not securely coupled to the adaptor - a serious spill may resul when the OPW 6150 closes - causing a hazard, and environmental contamire

Note: The OPW 6150 Ortifil Prevention Valve is not to be used in pumping applications. The 5150 is designed only for tight fill gravity drop applications.

Information

For additional useful information on the specification, assembly installation and use of the OPW 6150, refer to Technical Bulletin TB-6150

OPW 6150 Overfill Prevention Valves are covered under the following patent: 4,986,320. Re 33,555 and Canadian patent 1,287,546. Direr patents pending.

IMPORTANT: OPW products should be beed in controllarion with applicable federal, state and spoil from and regulations. Product selection stroubly by blood on physical specifications and Ilmitations an with the environment and manufact to be purified.
OPY MAKES NO WARRANTY OF PTAMES! FOR A PARTICULAR USB. All IRMAND PILL IN specifications in this literature are besset of the lates rtuer information available or the stone of publication. OPW receives the right to make changes at any time in prices. meterials, specifications and model discontinue models without sories or collifatio

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05/22/98

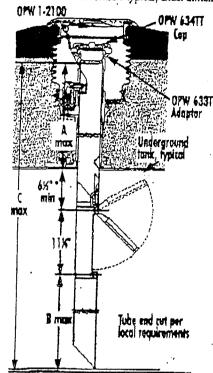
12:45

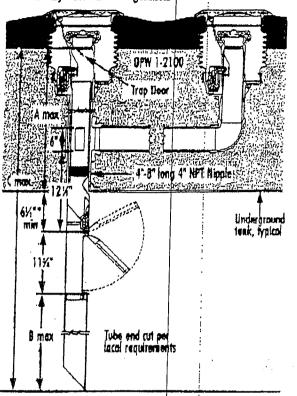
COMM PETROL EQUIP → 8053260453

6150 OVERFILL PREVENTION VALVES

Typical Application Assembly

Installation schematic typical; exact dimensions will vary with tank configuration.





OPW 61SO-4000

OPW 6150R-4000

Ordering Spedifications and Discussions

Product/Suffix Number	Description		ier Tube ngth		rer Kuba ngih		verall agth		Length		Nominal k Dia.	Max.	Actual Dia.	lbs.	kg.
		'n.	л.	in.	m.	Ħ.	तो.	íπ.	m:	in.	机	in,	町,		
6150-3000	3" two-point	60"	กรา	83"	17416	155%	· :4.10 .	53%	1.4	96"	25	108"	2.7	13	. 6
6150-1000	Grooved tube	60"	113	83"	77.1	154%		53%		96"	2.4	107"	.27	17	8
6)50-)000	CARB, Grooved tube	60	11.5	83-	24	154%		53K		96"	7:44	107"	.27.	17	8
6150-4000	4" two-point		113	83"	1211	154%	3.9:	33 K		94°	2.4	107 st	27		. 7
6150-4010	4" two-point		34	102	26	2337		113%		120	3,77	126"	3.2	25	11
6150-400C	CARB 4", two-point		NEW	83"	21	154%		33 %		96"	2.4	107"	2.7	76	7
6150-4100	CARE 4", two-point		D.	102"	7/4	233K		113%		120"	3:17	126"	3.2	25	11
4150N-4121"	lonaritem trilog-owi		A Pila	102	724	233%		113%		120"	3.1	126-	3.2		11
6150H-412C*	CARE 4", two-point		EJAFA .	102	1234	233%"		113 47		120"	3.18	126"	3.7		11
6150(-4001	Ceaxia		113	83"	234	154%"		53 %		96"	24	107"	27	16 .	.7
6150(-40)1	Ceaxia	120"	11	102	23	233%	25.9	113 %	2.9	120	31	126"	32	25 .	11
6150P-4002	CARE, pop. cocxis	60"	1133	83"	2	154%"	319	53 X°		96"	24.		27.		9
61509-4012	CARD, pep. couxiel			102	26	221 Yi"	5.6	TOLKS	2.6	120"	3.1		.3.2		12
6150CN-4000°	Ceaxia, methanol			102"	244	233%	13.9	1138"	24		(3,)		3.2	25	
6150-48YT	Overfill velve only, no	orom t	1083 540	plied		· · · · · · · · · · · · · · · · · · ·									
61302-4841	Kit to adapt 6150-48	Y for c	o Dixoo	polkat	MIX									6 1.	3.,
6150R-4000**	Remote	72"	1981			1667	MZ:	65%"	417	967	:2 :47	107°	27	19	
6150KM-4000***	Remote, methonol	72				1834/1"	4.7.	65%"	117		997		3.2		9

^{*}For use with MAS & M100 methonol fuels **Remote fill applications

[&]quot; from isside wall of tank to bottom of upper tube

PAGE 03

371 P. 02 MAY 13 '98 09:46

CITY OF OAKLAND



505 - 14TH STREET . 10TH FLOOR . OAKLAND, CALIFORNIA 94612

Office of Budget & Finance Customer Service Section

(510) 238-3704 TDD: (510) 839-6451

May 13, 1998

TO WHOM IT MAY CONCERN:

THE BUSINESS NAMED BELOW HAS BEEN ISSUED A BUSINESS TAX CERTIFICATE BY THIS OFFICE:

BUSINESS NAME: REDWINE-MANLEY TESTING SERVICES, INC.

BUSINESS ADDRESS: 3810 AMBERWOOD LANE, BAKERSFIELD, CA 93309

OWNER NAME: DENISE R. TURNER, PRESIDENT

BUSINESS TAX CERTIFICATE ACCOUNT NO.: 1682172

EXPIRATION DATE OF CERTIFICATE: DECEMBER 31, 1998

BUSINESS CLASSIFICATION: MISCELLANEOUS TRADE CONTRACTORS

THE CERTIFICATE IS A BUSINESS TAX AND IS NOT REGULATORY. INFORMATION CONCERNING OWNERSHIP IS THAT GIVEN BY LICENSEE OR CERTIFICATE HOLDER.

ROBERT L. MOORE

TAX REPRESENTATIVE II

CUSTOMER SERVICE SECTION



APPENDIX B

Chain-of Custody Records and Analytical Laboratory Reports



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

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

ANALYTICAL REPORT

Prepared for:

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

Date: 16-JUN-03

Lab Job Number: 165650 Project ID: 8207.001

Location: Port of Oakland

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:

perations Manager

This package may be reproduced only in its entirety.

NELAP # 01107CA

Page 1 of 33



Laboratory Number: 165650 Client: Geomatrix Consultants

Project#: 8207.001

Location: Berth 23 Port of Oakland

Receipt Date: 06/05/03

CASE NARRATIVE

This hardcopy data package contains sample and QC results for four water samples that were received on June 05, 2003. The samples were received cold and intact at 4.0 degrees Celsius.

Total Volatile Hydrocarbons by EPA 8015B

High surrogate recoveries were observed in sample T2-060503-S (165650-004). This outlier can be attributed to hydrocarbons coeluting with the surrogate peaks. No other analytical problems were encountered.

Total Extractable Hydrocarbons by EPA 8015B

The matrix spike sample, matrix spike and matrix spike duplicate of batch 82007 were analyzed at a dilution. This dilution caused the surrogate to be diluted out. Low spike recovery was observed in the matrix spike of sample CT#165650-001 (not a sample from this site). The associated laboratory control sample met acceptance criteria. No other analytical problems were encountered.

MTBE, BTEX by EPA 8260B

No analytical problems were encountered.

Lead by EPA 6010B

No analytical problems were encountered...

2101 Websier Street, 12th Floor • Oakland, CA 94612 Phone: 510-663-4100 • Fax: 510-663-4141	Time:	e: Company:	Time:		Company:	Time:	ny:	Company:	
	Dale:		Dale:		Drinted Name:		Name:	Printed Name	
	7		74	Tomptims	COMPANY:	<u>ئے</u> ا	XVVa	Beceived by:	
Laboratory Comments and Log, No.:	Time:		Time:	rocker	LISA BA	Time:	May 1 -	6 2 2 Vall	
Method of Shipment,	Date:		Date:	(Signature):	Religquished by Signature	Date:	列(Signature):	Helphqu	
	Containers	Zavavir Total No. of Containers	Results to:	L	Turnaround Time: 24-40-6	」, ∵ ⊐	3	Laboratory:	
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NWY I NW - WONTH HOLD IN NIN	5	X	×	X	×	-	1545 12-060503-5	4	١ _
	5	X	X	X	X	2	1550 12060503- By	1	٠,١
	<i>S</i>	<i>X</i>	X	メメ	1	* (1605-17-060203 NI	122	درد
NNY I TI= I mona / In the C	Ls	×	×	×	X		1530 Ti-060503	6503	1
Filtered Preserver Cooled No. of Co	Soil (S), Vapor (V)		Method 8	Method 8	(Hal. VC) EPA Mei (BETX o	EPA Me (Full Sca	Time Sample Number	Date	
d	Water (W	1424	3015M (N	in) hod 827(HS only) B015M (C	thod 802 nly) thod 826 thod 826	thod 802 an) thod 802	Julian well	2	
Additional Comments) r (O)		fotor Oil)	asoline)	BTEX MIB		Samplers (Signature:)	S/Voers	
REMARKS		SES .	ANALYSES				10. 8207.001	Project No.:	
e: 6503 Page / of /	Date:	004334		 	Record	ody			

SOP Volume:

Client Services

Section:

1.1.2

Page:

l of l

Effective Date: Revision:

10-May-99 1 Number 3 of 3

Filename:

Filename: F:\qc\forms\cooler.wpd

F:\QC\Forms\QC\Cooler.wpd

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Rev. 1, 4/95

Login	#: US US Date Received: 6-5-03 Number of Coolers:
Client	: Creomatrix Project: 8207,001 - Port Of Oakland
A	Preliminary Examination Phase Date Opened: 6-5-03 By (print): Toy Windsor (sign) July 4 Manual Company (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? How many and where? Seal date: Seal name:
3.	Were custody seals unbroken and intact at the date and time of arrival? YES NO
4.	Were custody papers dry and intact when received?
5. 6.	Were custody papers filled out properly (ink, signed, etc.)?
7.	Was project identifiable from custody papers?
8.	If YES, enter project name at the top of this form. If required, was sufficient ice used? Samples should be 2-6 degrees C
	Type of ice: Wet: Temperature: 4.0
В.	Login Phase Date Logged In: 6-5-03 By (print): Troy Windsor (sign) July 4 Millson (sign)
1.	Describe type of packing in cooler: n ziploc fupp bags Did all bottles arrive unbroken? (YES) NO
3.	Were labels in good condition and complete (ID, date, time, signature, etc.)?YES NO
1.	Did bottle labels agree with custody papers?
5.	Were appropriate containers used for the tests indicated?
o. 7	Was sufficient amount of sample sent for tests indicated?
· 3.	Were bubbles absent in VOA samples? If NO, list sample Ids belowYES NO N/
-	Was the client contacted concerning this sample delivery?
•	If YES, give details below.
	Who was called?By whom?Date:
ـ نىندى	nal Comments:
λααπιο	



Total Volatile Hydrocarbons

Lab #: 165650 Location: Port of Oakland

Client: Geomatrix Consultants Prep: EPA 5030B

 Project#:
 8207.001
 Analysis:
 8015B

 Matrix:
 Soil
 Batch#:
 81928

 Matrix:
 Soil
 81928

Units: mg/Kg Sampled: 06/05/03
Basis: as received Received: 06/05/03

Field ID: T1-060503 Diln Fac: 250.0

Type: SAMPLE Analyzed: 06/06/03
|Lab ID: 165650-001

Analyte Result RL

Gasoline C7-C12 11,000 250

Surrogate %REC Limits

Trifluorotoluene (FID) 144 56-144

Bromofluorobenzene (FID) 125 51-142

Field ID: T2-060503-N Diln Fac: 1.000

Type: SAMPLE Analyzed: 06/06/03
Lab ID: 165650-002

Analyte Result RL
Gasoline C7-C12 4.3 1.1

Surrogate %REC Limits
Trifluorotoluene (FID) 121 56-144
Bromofluorobenzene (FID) 114 51-142

Field ID: T2-060503-W Diln Fac: 1.000
Type: SAMPLE Analyzed: 06/05/03

Type: SAMPLE Analyzed: 06/05/0.

Lab ID: 165650-003

 Analyte
 Result
 RL

 Gasoline C7-C12
 ND
 1.1

 Surrogate
 %REC Limits

 Trifluorotoluene (FID)
 99
 56-144

 Bromofluorobenzène (FID)
 107
 51-142

*= Value outside of QC limits; see narrative

ND= Not Detected

RL= Reporting Limit

Page 1 of 2

GC19 TVH 'X' Data File (FID)

Sample Name: 165650-001,81928

: G:\GC19\DATA\156X021.raw

FileName : TVHBTXE Method

Scale Factor:

Start Time : 0.00 min

End Time : 26.80 min Plot Offset: -30 mV

Sample #: a

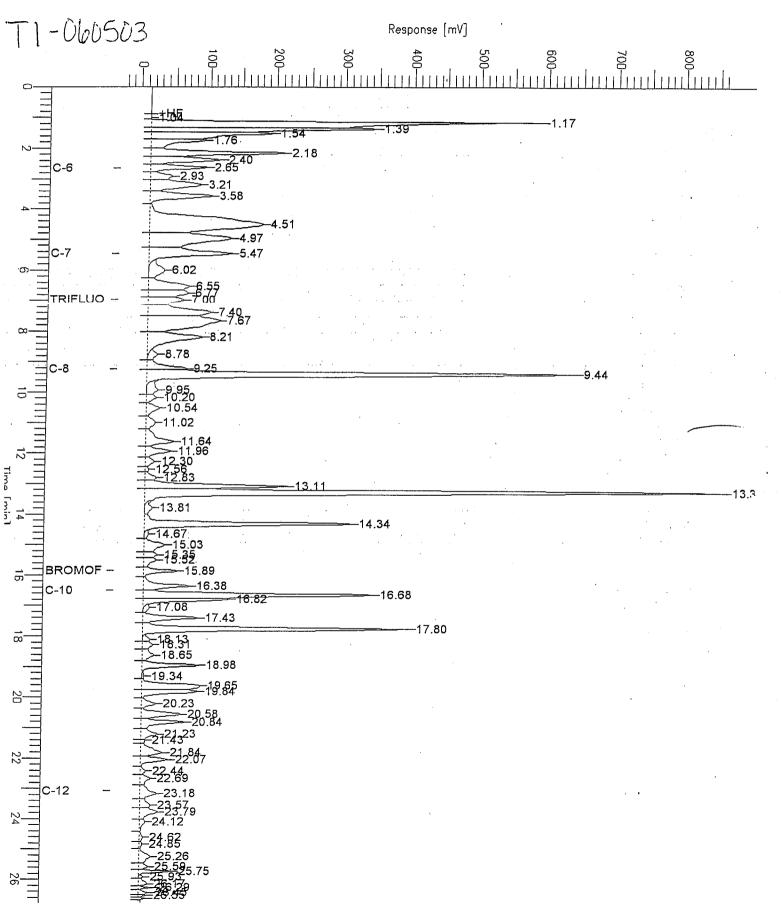
Page 1 of 1 Date: 6/6/03 08:59 AM

Time of Injection: 6/6/03 02:11 AM

Low Point: -29.83 mV

High Point: 863.11 mV

Plot Scale: 892.9 mV



GC19 TVH 'X' Data File (FID)

Sample Name: 165650-002,81928

: G:\GC19\DATA\156X018.raw

: TVHBTXE

Start Time : 0.00 min

End Time : 26.80 min

Sample #: a

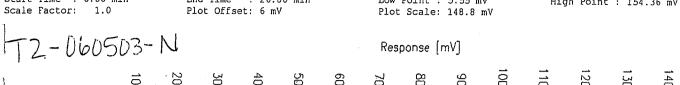
Date: 6/6/03 08:59 AM

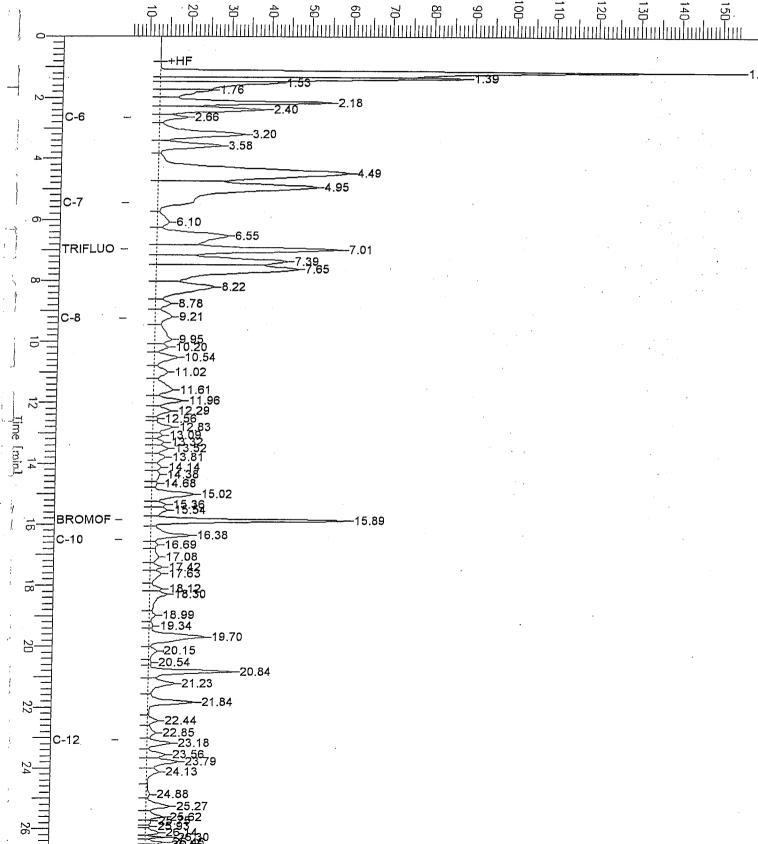
Time of Injection: 6/6/03 12:29 AM

Low Point : 5.55 mV

High Point: 154.36 mV

Page 1 of 1







Total Volatile Hydrocarbons Lab #: 165650 Location: Port of Oakland Client: Geomatrix Consultants Prep: EPA 5030B Project#: 8207.001 Analysis: 8015B Soil Matrix: Batch#: 81928 mg/Kg 06/05/03 Units: Sampled: as received Received: 06/05/03 Basis:

Field ID:

T2-060503-S

Type:

SAMPLE

Lab ID:

165650-004

Diln Fac:

50.00

Analyzed:

06/06/03

Analyte	Result	RL	
Gasoline C7-C12	2,200	50	

Surrogate	%REC Limits	
Trifluorotoluene (FID)	160 * 56-144	
Bromofluorobenzene (FID)	162 * 51-142	

Type: Lab ID: BLANK

QC215466

Diln Fac:

1.000

Analyzed:

06/05/03

Analyte	Result	RL	
Gasoline C7-C12	ND	1.0	

Surrogate	%REC	! Limits	
Trifluorotoluene (FID)	97	56-144	
Bromofluorobenzene (FID)	103	51-142	

 $[\]mbox{\tt *= Value}$ outside of QC limits; see narrative ND= Not Detected

RL= Reporting Limit

GC19 TVH 'X' Data File (FID)

Sample Name : 165650-004,81928

: G:\GC19\DATA\156X020.raw ileName

: TVHBTXE lethod

Start Time : 0.00 min Scale Factor: 1.0

End Time : 26.80 min

Plot Offset: -39 mV

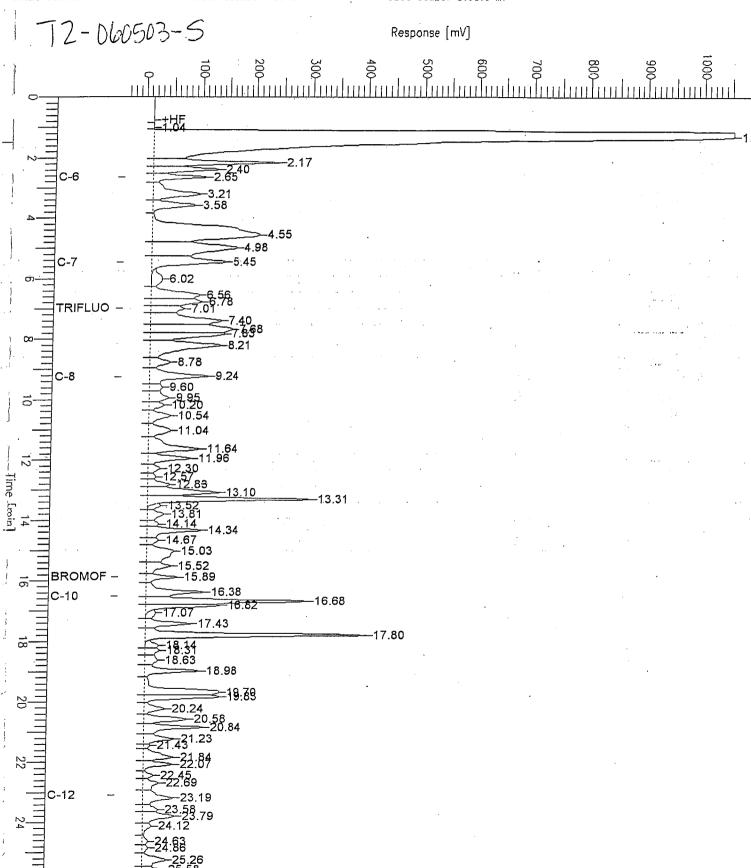
Sample #: a

Page 1 of 1

Date: 6/6/03 08:59 AM
Time of Injection: 6/6/03 01:37 AM

Low Point: -39.28 mV High Point: 1052.06 mV

Plot Scale: 1091.3 mV



GC19 TVH 'X' Data File (FID)

Sample Name : ccv/lcs,qc215468,81928,03ws0819,5/5000

FileName : G:\GC19\DATA\156X003.raw

Method : TVHBTXE

Start Time : 0.00 min

min End Time : 26.80 min

Scale Factor: 1.0 Plot Offset: -28 mV

Sample #:

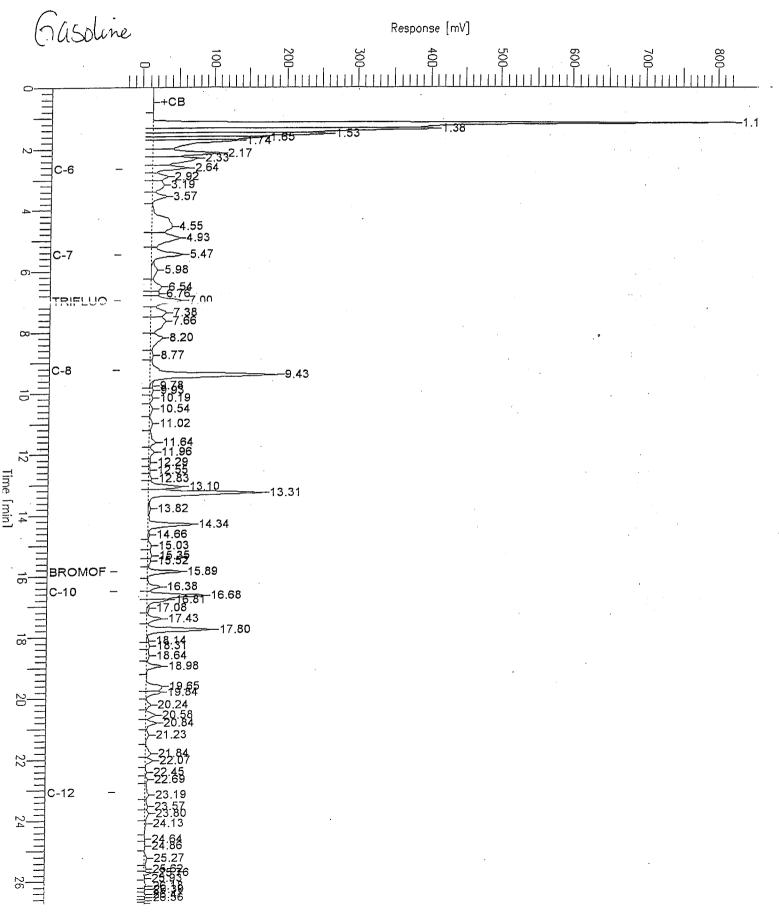
Page 1 of 1

Date : 6/5/03 10:31 AM

Time of Injection: 6/5/03 10:03 AM

Low Point : -27.80 mV High Point : 823.73 mV

Plot Scale: 851.5 mV





	Total Vola	tile Hydrocarbo	ons
Lab #:	165650	Location:	Port of Oakland
Client:	Geomatrix Consultants	Prep:	EPA 5030B
Project#:	8207.001	Analysis:	8015B
Type:	LCS	Basis:	as received
Lab ID:	QC215468	Diln Fac:	1.000
Matrix:	Soil	Batch#:	81928
Units:	mg/Kg	Analyzed:	06/05/03

Analyte	Spiked	Result	%REC	3 Limits	
Gasoline C7-C12	10.00	9.942	99	80-120	
,		,			
			000000000000000000000000000000000000000		***************

Trifluorotoluene (FID) 118 56-144 Bromofluorobenzene (FID) 111 51-142	Surroga	te	%REC	Limits			
Bromofluorobenzene (FTD) 111 51-142	Trifluorotoluene	(FID)	118	56-144			
DIOMOTITUDIOSCHIZULE (11D) III SI 14Z	Bromofluorobenzene	e (FID)	111	51-142		<u> </u>	* .



	Total Vola	tile Hydrocarbo	ons
Lab #:	165650	Location:	Port of Oakland
Client:	Geomatrix Consultants	Prep:	EPA 5030B
Project#:	8207.001	Analysis:	8015B
Field ID:	T2-060503-W	Diln Fac:	1.000
MSS Lab ID:	165650-003	Batch#:	81928
Matrix:	Soil	Sampled:	06/05/03
Units:	mg/Kg	Received:	06/05/03
Basis:	as received	Analyzed:	06/05/03

Type:

MS

Lab ID:

QC215599

Analyte	MSS R	esult	Spi	ked	Result	%R	EC Limits
Gasoline C7-C12		0.1203	1	0.42	10.24	97	24-134

Surrogate	%REC	Limits		
Trifluorotoluene (FID)	126	56-144		
Bromofluorobenzene (FID)	117	51-142		

Type:

MSD

Lab ID:

QC215600

Gasoline C7-C12	10.10	9.773	96	24-134	2	32
Surrogate	%REC Limits		***************************************		*********	

Surrogate	%REC	Limits	
Trifluorotoluene (FID)	126	56-144	
Bromofluorobenzene (FID)	118	51-142	



Total Extractable Hydrocarbons Port of Oakland EPA 8015B Lab #: 165650 Location: Geomatrix Consultants Client: Analysis: Project#: 8207.001 Matrix: Soil Sampled: 06/05/03 mq/Kq Received: 06/05/03 Units: as received Basis: rield ID: T1-060503 Prepared: 06/05/03 SAMPLE Analyzed: 06/06/03 Type: 165650-001 Lab ID: Prep: EPA 3550)iln Fac: 5.000 Cleanup Method: EPA 3630C latch#: 81951 Analyte Result Diesel C10-C24 620 L Y 5.0 Surrogate Limits Hexacosane 36-141 rield ID: T2-060503-N 06/07/03 Prepared: 06/08/03 SAMPLE Type: Analyzed: SHAKER TABLE 165650-002 hab ID: Prep: iln Fac: 1.000 Cleanup Method: EPA 3630C atch#: 82007 Analyte Result Diesel C10-C24 1.4 L Y Limits Surrogate Hexacosane 36-141 Field ID: T2-060503-W Prepared: 06/05/03 Analyzed: 06/06/03 SAMPLE Type: ab ID: 165650-003 Prep: EPA 3550 iln Fac: 1.000 Cleanup Method: EPA 3630C Batch#: 81951 Analyte Result Diesel C10-C24 %REC Limits Hexacosane 36-141 T2-060503-S Prepared: Analyzed: Field ID: 06/05/03 ype: ab ID: SAMPLE 06/06/03 165650-004 Prep: EPA 3550 Cleanup Method: EPA 3630C iln Fac: 5.000 Batch#: 81951 Analyte Result Diesel C10-C24 720 L Y Surrogate %REC Limits Hexacosane 75 36-141

L= Lighter hydrocarbons contributed to the quantitation

D= Not Detected L= Reporting Limit

rage 1 of 2

Y= Sample exhibits chromatographic pattern which does not resemble standard

20.0

Chromatogram

Sample Name : 165650-001sg,81951

FileName : G:\GC13\CHB\155B057.RAW

Method : BTEH154.MTH

Start Time : 0.00 min 0.0 Scale Factor:

End Time : 31.90 min

Plot Offset: -20 mV

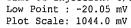
Page 1 of 1

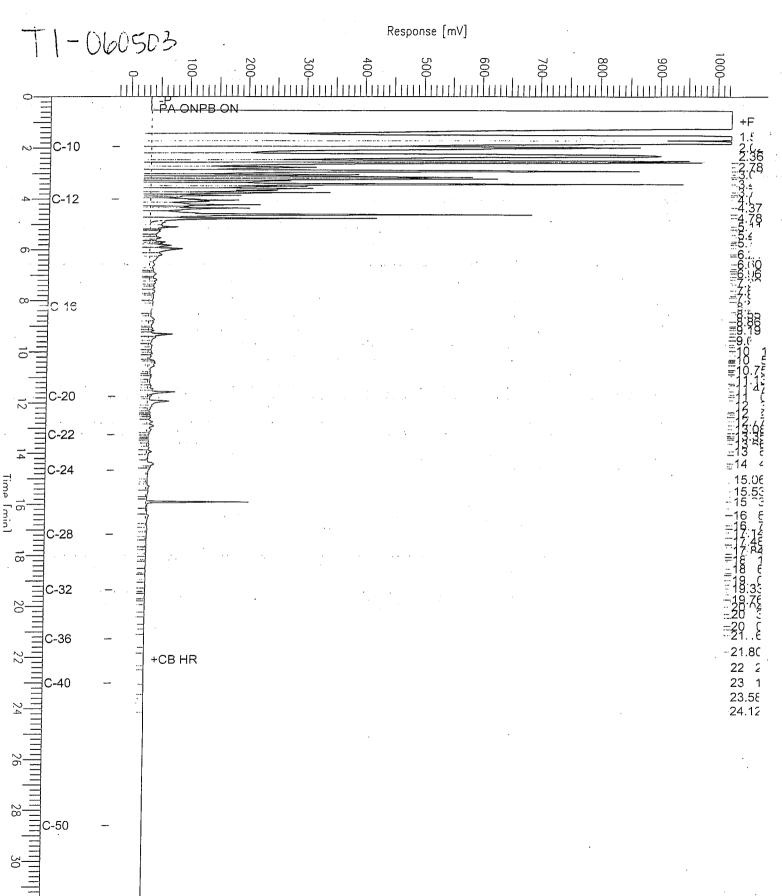
Sample #: 81951 Date : 6/6/03 08:37 AM

Time of Injection: 6/6/03

03:23 AM

High Point : 1024.00 mV





Sample Name: 165650-002sg,82007 Sample #: 82007 Page 1 of 1 FileName : G:\GC15\CHB\156B109.RAW Date: 6/9/03 09:54 AM Method : BTEH156.MTH Time of Injection: 6/8/03 03:33 PM Start Time : 0.01 min End Time : 31.91 min Low Point : 22.23 mV High Point: 279.56 mV Scale Factor: Plot Offset: 22 mV Plot Scale: 257.3 mV 2-060503-N Response [mV] C-10 C-12 C-16 HR -12.7 =13.0 -13.4 =14:9 C-22 -14.9 <u>=</u>15.4 C-24 -16.9 -16.9 -17.3 -17.7 -18.4 _≘19.1 =19.1 =19.6 =20.1 =20.5 =20.8 =21.3 =21.6 C-36 -23.7 -24.3 -24.7 -25.7 -26.6=28.8

Sample Name : 165650-004sg,81951

: G:\GC13\CHB\155B060.RAW

FileName : BTEH154.MTH Method

Start Time : 0.00 min

Scale Factor: 0.0

End Time : 31.90 min

Plot Offset: -20 mV

Sample #: 81951

Date: 6/6/03 08:39 AM

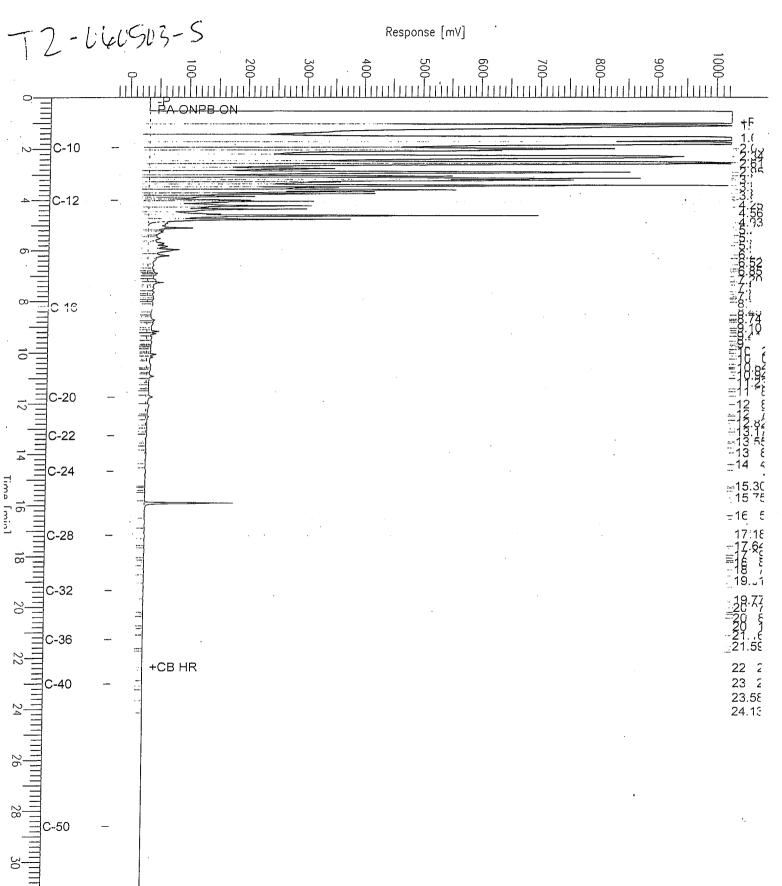
Time of Injection: 6/6/03 05:21 AM

Low Point : -20.20 mV

High Point: 1024.00 mV

Page 1 of 1

Plot Scale: 1044.2 mV



imple Name : ccv,03ws0738,dsl

: G:\GC11\CHA\157A002.RAW

:thod : ATEH157.MTH Start Time : 0.01 min

0.0

End Time : 31.91 min

Plot Offset: 20 mV

Sample #: 500mg/L

Date: 6/6/03 10:57 AM

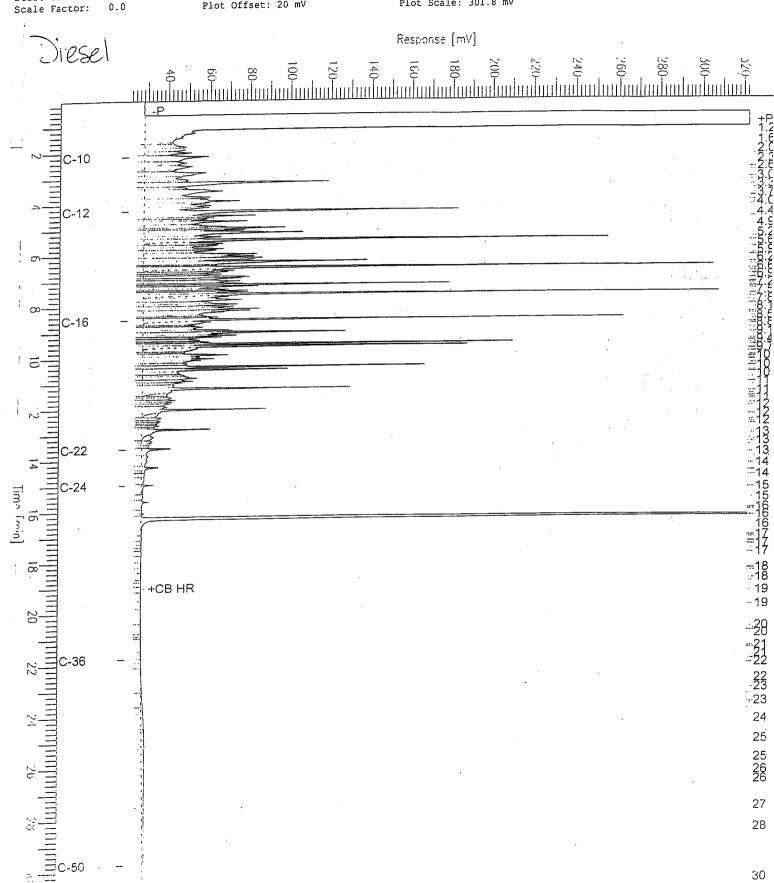
Time of Injection: 6/6/03 09:09 AM

Low Point : 20.37 mV

High Point : 322.21 mV

Page 1 of 1

Plot Scale: 301.8 mV





Total Extractable Hydrocarbons Lab #: 165650 Location: Port of Oakland Client: Geomatrix Consultants Analysis: EPA 8015B 8207.001 Project#: Matrix: Soil Sampled: 06/05/03 mg/Kg Units: Received: 06/05/03 Basis: as received

lype:
ab ID:)iln Fac: }atch#:

Hexacosane

BLANK QC215569 1.000 81951

Prepared:

06/05/03 Analyzed: 06/06/03 Prep: EPA 3550 Cleanup Method: EPA 3630C

Analyte Diesel C10-C24

Result ND

0.99

Surrogate

%REC Limits 95 36-141

'ype: ab ID: iln Fac: atch#:

BLANK OC215791 1.000 82007

Prepared:

06/07/03 Analyzed: 06/08/03 Prep: SHAKER TABLE Cleanup Method: EPA 3630C

Analyte Diesel C10-C24

Result

ND

1.0

Surrogate Limits Hexacosane 36-141

⊨ Reporting Limit age 2 of 2

20.0

[≓] Lighter hydrocarbons contributed to the quantitation

⁼ Sample exhibits chromatographic pattern which does not resemble standard

[₩] Not Detected



Total Extractable Hydrocarbons

Lab #: 165650 Location: Port of Oakland Client: Geomatrix Consultants Prep: EPA 3550 Project#: 8207.001 Analysis: EPA 8015B Type: LCS Diln Fac: 1.000

 Type:
 LCS
 Diln Fac:
 1.000

 Lab ID:
 QC215570
 Batch#:
 81951

 Matrix:
 Soil
 Prepared:
 06/05/03

 Units:
 mg/Kg
 Analyzed:
 06/06/03

Basis: as received

leanup Method: EPA 3630C

Analyte Spiked Result %REC Limits
Diesel C10-C24 50.30 37.12 74 49-129

Surrogate %REC Limits
Hexacosane 70 36-141



	Total Extra	ctable Hydrocar	fbons
Lab #:	165650	Location:	Port of Oakland
Client:	Geomatrix Consultants	Prep:	SHAKER TABLE
Project#:	8207.001	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC215792	Batch#:	82007
Matrix:	Soil	Prepared:	06/07/03
Units:	mg/Kg	Analyzed:	06/08/03
Racic.	as received	-	

leanup Method: EPA 3630C

	Analy	te Spiked		%RE	C	Limits
Diesel	C10-C24	24.94	17.07	68		49-129

Surrogate		·····*€K.E.C	TITHITUS			•
Hexacosane	•	65	36-141			



Lab #:	165650	Location:	Port of Oakland
Client:	Geomatrix Consultants	Prep:	EPA 3550
Project#:	8207.001	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZ	Batch#:	81951
MSS Lab ID:	165624-001	Sampled:	06/04/03
Matrix:	Soil	Received:	06/05/03
Units:	mg/Kg	Prepared:	06/05/03
Basis:	as received	Analyzed:	06/06/03
Diln Fac:	1.000		

ype:

MS

Lab ID:

QC215571

Analyte	MSS Result	Spiked	Result	%REC Limits
Diesel C10-C24	8.382	49.64	55.36	95 32-134

i , , , ,	Gurrogate	%REC	Limits
Hexacosane		74	36-141

ype:

MSD

Lab ID:

QC215572

, E	Analy	rte :	Spiked	Result	%REC	' Limits	RPD	Lim
: 4.	Diesel C10-C24		49.66	52.56	89	32-134	5	48

Surrogate		Limits	
Hexacosane	78	36-141	

PD= Relative Percent Difference Page 1 of 1



	Total Extra	ctable Hydrocar	rbons
Lab #:	165650	Location:	Port of Oakland
Client:	Geomatrix Consultants	Prep:	SHAKER TABLE
Project#:	8207.001	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZ	Batch#:	82007
MSS Lab ID:	165683-001	Sampled:	06/06/03
Matrix:	Soil	Received:	06/06/03
Units:	mg/Kg	Prepared:	06/07/03
Basis:	as received	Analyzed:	06/10/03
Diln Fac:	5.000	<u>-</u>	

ype:

MS

Lab ID:

QC215793

Analyt	е	MSS Result :	Spiked	Result	%REC	Limits
الاستكساب المساسم	•	71.43			17 *	

Surrogate	% P.R.C	Limits	
Hexacosane	DO	36-141	

pe:

MSD

Lab ID:

QC215794

		S	piked		*REC	Limits	RPD	Lim'
Diesel	C10-C24	•	24.94	97.59	105	32-134	25	48

Surrogate		%REC	Limits			
lexacosane	-	DO	36-141			

^{*=} Value outside of QC limits; see narrative

D= Diluted Out

D= Relative Percent Difference



7		Purgeable	Aromatics by GC	C/MS	
,	Lab #:	165650	Location:	Port of Oakland	*************
1	Client:	Geomatrix Consultants	Prep:	EPA 5030B	
1	Project#:	8207.001	Analysis:	EPA 8260B	
١,	Field ID:	T1-060503	Diln Fac:	5,000	
,	Lab ID:	165650-001	Batch#:	81977	
	Matrix:	Soil	Sampled:	06/05/03	
-	Units:	ug/Kg	Received:	06/05/03	
	Basis:	as received	Analyzed:	06/06/03	

	Analyte	Result	RL	
ر	MTBE	ND	25,000	
1	Benzene	57,000	25,000	
1	Toluene	880,000	25,000	
J	Ethylbenzene	270,000	25,000	
	m,p-Xylenes	1,100,000	25,000	
	o-Xylene	410,000	25,000	
	o-Xylene	410,000	25,000	

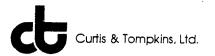
	Surrogate	2007	7				
ï	1,2-Dichloroethane-d4	118	76-130				
	Toluene-d8	105	80-120			 . epter	
J	Bromofluorobenzene	 100	76-125		4.5		:



	Purgeable	Aromatics by G0	e/ms
Lab #:	165650	Location:	Port of Oakland
Client:	Geomatrix Consultants	Prep:	EPA 5030B
Project#:	8207.001	Analysis:	EPA 8260B
Field ID:	T2-060503-N	Diln Fac:	1.000
Lab ID:	165650-002	Batch#:	81974
Matrix:	Soil	Sampled:	06/05/03
Units:	ug/Kg	Received:	06/05/03
Basis:	as received	Analyzed:	06/06/03

Analyte	Result	RL
MTBE	5.9	5.0
Benzene	5.5	5.0
Toluene	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes o-Xylene	, ND	5.0
o-Xylene	ND	5.0

Surrogate	%REC	Limits	
1,2-Dichloroethane-d4	99	76-130	
Toluene-d8	103	80-120	
Bromofluorobenzene	103	76-125	•



		Purgeable	Aromatics by GC/M	5	
	Lab #:	165650	Location:	Port of Oakla	and
}	Client:	Geomatrix Consultants	Prep:	EPA 5030B	
1	Project#:	8207.001	Analysis:	EPA 8260B	
3	Field ID:	T2-060503-W	Diln Fac:	1.064	
	Lab ID:	165650-003	Batch#:	81974	
j	Matrix:	Soil	Sampled:	06/05/03	
-	Units:	ug/Kg	Received:	06/05/03	
	Basis:	as received	Analyzed:	06/06/03	
1					
	Analyt	te Resul	lt RL		
	MTBE	140	5.3	3	
,	Benzene	ND	5.3	3	
	Toluene	ND	5.3	3	
- }	Ethylbenzene	ND	-5.3	3	
	m,p-Xylenes	ND	5.3	3 .	
	o-Xylene .	ND	5.3	3	

, ,	Surrogate	%REC	Limits	
1	1,2-Dichloroethane-d4	. 99	76-130	
1	Toluene-d8	104	80-120	•
1	Bromofluorobenzene	105	76-125	



	Purgeable	Aromatics by GC	C/MS
Lab #:	165650	Location:	Port of Oakland
Client:	Geomatrix Consultants	Prep:	EPA 5030B
Project#:	8207.001	Analysis:	EPA 8260B
Field ID:	T2-060503-S	Diln Fac:	142.9
Lab ID:	165650-004	Batch#:	81977
Matrix:	Soil	Sampled:	06/05/03
Units:	ug/Kg	Received:	06/05/03
Basis:	as received	Analyzed:	06/06/03

Analyte	Result	RL	
MTBE	ND	710	
Benzene	920	710	·
Toluene	ND	710	
Ethylbenzene	23,000	710	
Ethylbenzene m,p-Xylenes o-Xylene	34,000 6,600	710	
o-Xylene	6,600	710	

Surrogate %REC Limits 1,2-Dichloroethane-d4 115 76-130			
moluono do 107 00 100		•	•
Toluene-d8			
Bromofluorobenzene 99 76-125			



Purgeable Aromatics by GC/MS

Lab #: 165650
Client: Geomatrix Consultants

Prep:

Port of Oakland

8207.001

Analysis:

Location:

EPA 5030B EPA 8260B

Project#: 820 Type: LCS

Diln Fac: Batch#: 1.000 81977

Lab ID:
Matrix:
Units:

QC215662 Water ug/L

Batch#: Analyzed:

06/06/03

Analyte	Spiked	Result	%REC	' Limits
Benzene	50.00	48.99	98	78-120
Toluene	50.00	51.54	103	79-120
Chlorobenzene	50.00	49.46	99	80-120

	Surrogate	%REC	Limits			
	1,2-Dichloroethane-d4	122	76-130			
	Toluene-d8	102	80-120	 •		
.[Bromofluorobenzene	97	76-125	•		•



	Purgeable .	Aromatics by GC	:/MS
Lab #:	165650	Location:	Port of Oakland
Client:	Geomatrix Consultants	Prep:	EPA 5030B
Project#:	8207.001	Analysis:	EPA 8260B
Type:	LCS	Basis:	as received
Lab ID:	QC215654	Diln Fac:	1.000
Matrix:	Soil	Batch#:	81974
Units:	ug/Kg	Analyzed:	06/06/03

Analyte	Spiked	Result	%REC	Limits
Benzene	 50.00	49.71	99	78-120
Toluene	50.00	52.34	105	79-120
Chlorobenzene	 50.00	52.22	104	80-120

Surrogate	%REC	Limits				
1,2-Dichloroethane-d4	97	76-130				
Toluene-d8	106	80~120				•
Bromofluorobenzene	99	76-125				



	Purgeable	Aromatics by Go	C/MS
Lab #:	165650	Location:	Port of Oakland
Client:	Geomatrix Consultants	Prep:	EPA 5030B
Project#:	8207.001	Analysis:	EPA 8260B
Field ID:	T2-060503-W	Diln Fac:	1.064
MSS Lab ID:	165650-003	Batch#:	81974
Matrix:	Soil	Sampled:	06/05/03
Units:	ug/Kg	Received:	06/05/03
Basis:	as received	Analyzed:	06/06/03

Type:

MS

Lab ID:

QC215722

	Analyte			•		<u> </u>
ļ	Analyce	MSS Result	Spiked	Result	%RE(1 Limits
	Benzene	<0.08600	53.19	51.74	97	55-121
$\ $	Toluene	<0.2100	53.19	55.14	104	44-129
	Chlorobenzene	<0.1700	53.19	53.54	101	48-121

Surrogate	%REC	Limits			
1,2-Dichloroethane-d4	97	76 ⁻ -130			
Toluene-d8	105	80-120			•
Bromofluorobenzene	106	76-125	* .	**************************************	
		····			

Type:

MSD

Lab ID:

QC215723

7.3	Analyte		Spiked	Result	%REC	Limits	RPD	16,217
	Benzene		53.19	51.67	97	55-121	0	20
iJ	Toluene		53.19	55.50	104	44-129	1	20
, ,	Chlorobenzene		53.19	53.85	101	48-121	1	20
	Surrogate	%REC	Limits					
	1,2-Dichloroethane-d4	96	76-130					***************************************
	Toluene-d8	105	80-120					
	Bromofluorobenzene	103	76-125					



	Purgeable	Aromatics by GG	C/MS
Lab #:	165650	Location:	Port of Oakland
Client:	Geomatrix Consultants	Prep:	EPA 5030B
Project#:	8207.001	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZ	Batch#:	81977
MSS Lab ID:	165618-013	Sampled:	06/04/03
Matrix:	Water	Received:	06/04/03
Units:	ug/L	Analyzed:	06/06/03
Diln Fac:	1.000		

Type:

MS

Lab ID:

QC215703

Anal	.yte	MSS	Result	Spiked	Result	%REC	Limits
Benzene	. *		<0.2800	 50.00	49.13	98	55-121
Toluene			<0.2200	50.00	53.50	107	44-129
Chlorobenzene		 	<0.2200	 50.00	 49.07	98	48-121

Surrogate	%REC	Limits	
1,2-Dichloroethane-d4	96	76-130	
Toluene-d8	99	80-120	
Bromofluorobenzene	99	76-125	

Type:

MSD

Lab ID:

QC215704

Analyte	Spiked	Result	%REC	Limits	RPD	Li
Benzene	50.00	49.99	100	55-121	2	20
Toluene	50.00	54.66	109	44-129	2	20
Chlorobenzene	50.00	51.28	103	48-121	4	20

Surrogate	%RE(Limits	
1,2-Dichloroethane-d4	96	76-130	
Toluene-d8	102	80-120	
Bromofluorobenzene	95	76-125	



	Lead	
165650	Location:	Port of Oakland
Geomatrix Consultants 8207.001	Prep: Analysis:	EPA 3050 EPA 6010B
Lead Soil	Batch#: Sampled:	81960 06/05/03
mg/Kg	Received:	06/05/03
1.000	Prepared: Analyzed:	06/05/03 06/06/03
Type Lab ID	Result	RL
SAMPLE 165650-001	4.5	0.15
	4.5 2.8	0.12
SAMPLE 165650-004	3.2	0.13 0.12 0.15
	Geomatrix Consultants 8207.001 Lead Soil mg/Kg as received 1.000 Type Lab ID SAMPLE 165650-001 SAMPLE 165650-002 SAMPLE 165650-003 SAMPLE 165650-004	165650 Location: Geomatrix Consultants Prep: 8207.001 Analysis: Lead Batch#: Soil Sampled: mg/Kg Received: as received Prepared: 1.000 Analyzed: Type Lab ID Result SAMPLE 165650-001 4.5 SAMPLE 165650-002 4.5 SAMPLE 165650-003 2.8 SAMPLE 165650-004 3.2



		Lead	
Lab #:	165650	Location:	Port of Oakland
Client:	Geomatrix Consultants	Prep:	EPA 3050
Project#:	8207.001	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Batch#:	81960
Units:	mg/Kg	Prepared:	06/05/03
Basis:	as received	Analyzed:	06/06/03 .

Туре	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim	
BS	QC215602	100.0	85.50	86	71-120			-
BSD	QC215603	100.0	88.50	89	71-120	3	20 ·	· · · · · · · · · · · · · · · · · · ·



		Lead	
Lab #:	165650	Location:	Port of Oakland
Client:	Geomatrix Consultants	Prep:	EPA 3050
Project#:	8207.001	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	ZZZZZZZZZ	Batch#:	81960
MSS Lab ID:	165628-001	Sampled:	06/05/03
latrix:	Soil	Received:	06/05/03
nits:	mg/Kg	Prepared:	06/05/03
asis:	as received	Analyzed:	06/06/03

95.24

80.97

86.19

76.52

75

77

23-137

23-137

40

MS

MSD

QC215604

QC215605

14.39



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

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

ANALYTICAL REPORT

Prepared for:

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

Date: 18-JUN-03 Lab Job Number: 165736

Project ID: 8207.001

Location: 1195 Maritime Berth 23

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

This package may be reproduced only in its entirety.

NELAP # 01107CA

Page 1 of ZZ

Date: (0 /10 / 0 3 Page / of)	REMARKS			Soli (S), Wybor (V), Filtered Preserved Cooled No. of Con	<u>}</u> -	1								Total No. of Containers ス	(Signature): Date: Method of Shipment:	Time: Laboratory Comments and Log No.:		Date:	
Record	ANALYSES	(le	(Vino acc TSOB boor (Vino acc (Vino acc	(Full Soai (Full Soai (Full Soai (Full Soai (Full Soai Sub (Full S	× × × ×	× × × × × ×					Preservation Corports	D Ves D No 10 NA		Turnaround Time: Results to: A4 - Nove (0.544) Erin Forein	y (Signature): Date	Printed Name: Time:	Сотрапу:	Received by: Date: Received by:	Printed Name.
hain-of Custody	Project No.: 8207,001	Samplers (Signature:)	Har Maray	Date Time Sample Number	6/10/03 09:48 P1-041003	-6/10/03 11:00 P2-061003					ceived Id On	Cold LI Ambient by Intact	·	Curtis of Tompkins	Shed by (Signature): Date:	T. Machanya 1) Time:	dix 0 13:40	Date: Rec	



Total Volatile Hydrocarbons

Lab #: 165736 Location: Prep:

Port of Oakland

Client: Geomatrix Consultants Project#: 8207.001

EPA 5.030B

Matrix: Soil Analysis: 8015B Sampled: 06/10/03

Units: mg/Kg

Received: 06/10/03

as received Basis: Batch#: 82067

06/10/03

Field ID:

P1-061003

Lab ID:

Analyzed:

165736-001

Type:

SAMPLE

Diln Fac:

20.00

Analyte Result Gasoline C7-C12 33 H 4.0

Surrogate Limits Trifluorotoluene (FID) 99 56-144

Bromofluorobenzene (FID) 96 51-142

Field ID:

P2-061003

Lab ID:

165736-002

Type:

SAMPLE

Diln Fac:

20.00

Analyte Result Gasoline C7-C12 190 4.0

Surrogate	*REC	Limits
Trifluorotoluene (FID)	125	56-144
Bromofluorobenzene (FID)	115	51-142

Type:

BLANK

Diln Fac:

1.000

Lab ID: QC216028

Analyte Result RL Gasoline C7-C12 1.0

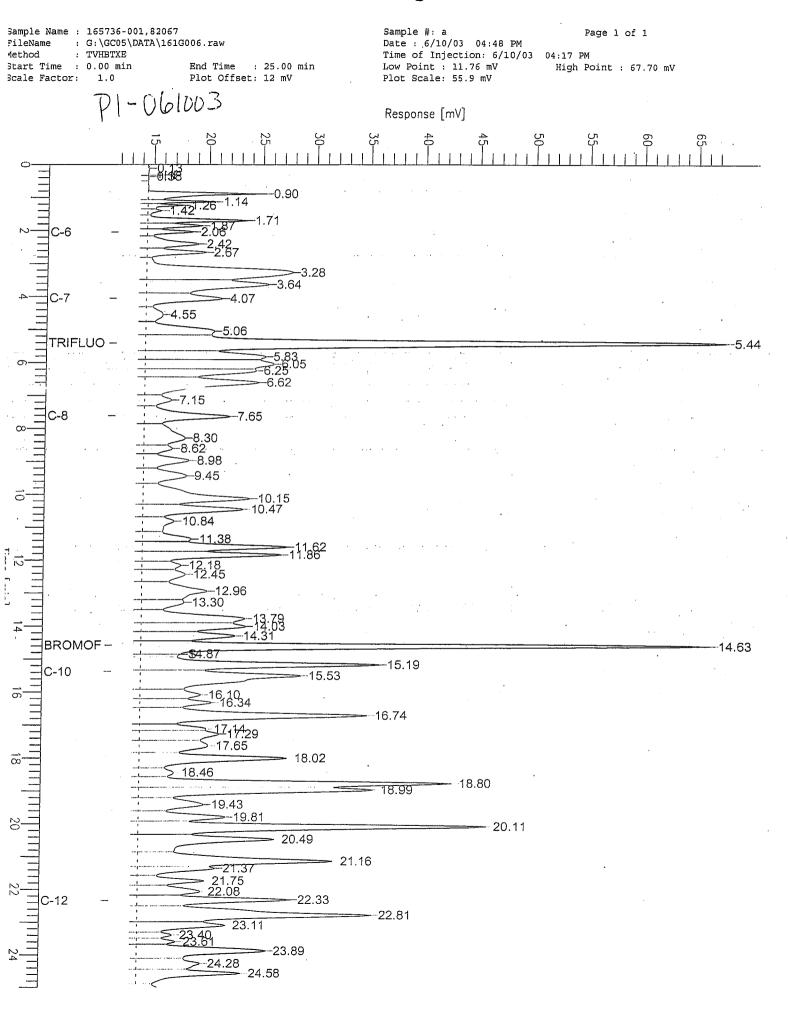
,			
Surroga	te	%REC	Limits
Trifluorotoluene	(FID)	90	56-144
Bromofluorobenzen	e (FID)	85	51-142

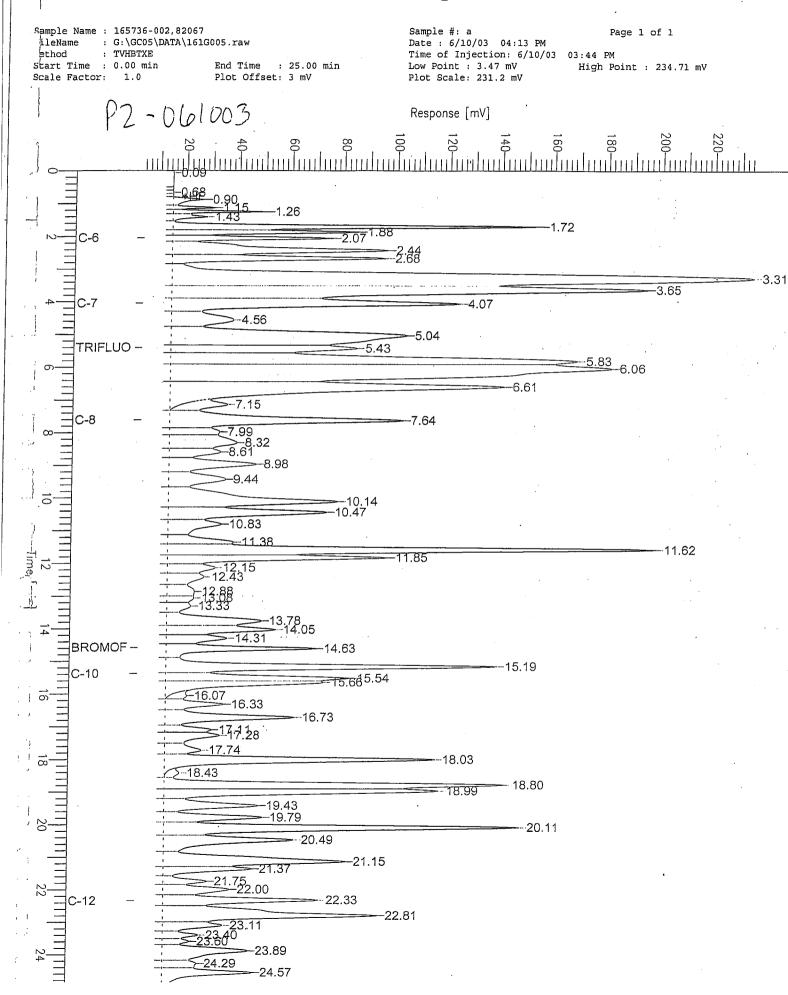
H= Heavier hydrocarbons contributed to the quantitation

ND= Not Detected

RL= Reporting Limit

Page 1 of 1





Sample #:

Date : 6/10/03 02:21 PM

Page 1 of 1

Sample Name : CCV/LCS, QC216029, 82067, 03WS0819, 2.5/5000

: G:\GC05\DATA\161G002.raw

FileName

: TVHBTXE Method Time of Injection: 6/10/03 01:56 PM Start Time : 0.00 min End Time : 25.00 min Low Point : 12.00 mV High Point : 71.47 mV Plot Offset: 12 mV Scale Factor: 1.0 Plot Scale: 59.5 mV 's wroline Response [mV] =_5.68 C-6 - TRIFLUO - C-8 - 10 - 12 -1.26 --1.72 1.88 2.06 >--3.29 3.64 4.10 -4.53 -5.04 -5.44 <u>>-</u>5.82 ≥-6.06 --6.61 -7.18 7.8 5-8,24 -8.59 -8.99 -9.45 -10.15**−**10.48 10.82 11.63 11.86 12.45 -12.96 BROMOF-14.63 15.19 15.52 16.33 16.74 17.29 17.69 - 18.03 $\le 19.02^{18.79}$ -19.43 >-19.83 >-20.12 -20.48 ²11¹69 21.75 22.00 -22.33 22.81



																					¢			

Lab #: Client:

Gasoline C7-C12

165736

Geomatrix Consultants

8207.001

Type: Lab ID: Matrix:

Units:

Project#:

LCS QC216029 Soil mg/Kg

Analyte

Location:

Prep:

Analysis: Basis:

Diln Fac:

Batch#: Analyzed:

Port of Oakland EPA 5030B 8015B

as received

1.000 82067 06/10/03

Spiked Result %REC Limits 5.000 4.879 98 80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	99	56-144
Bromofluorobenzene (FID)	86	51-142



	Total Volat:	ile Hydrocarbons	
Lab #:	165736	Location:	Port of Oakland
Client:	Geomatrix Consultants	Prep:	EPA 5030B
Project#:	8207.001	Analysis:	8015B
Field ID:	ZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	165723-005	Batch#:	82067
Matrix:	Soil ·	Sampled:	06/07/03
Units:	mg/Kg	Received:	06/09/03
Basis:	as received	Analyzed:	06/10/03

Type:

MS

Lab ID:

QC216101

	Analyt	.e.	MSS Result	Spiked	Result		C Limits
Gasoline	C7-C12	• •	0.1296	9.346	8.606	91 ·	24-134

Surrogate	%REC	Limits	
Trifluorotoluene (FID)	105	56-144	
Bromofluorobenzene (FID)	87	51-142	

Type:

MSD

Lab ID:

QC216102

Analyte	Spiked	Result	%RB(I Limits	RPD	Li
Gasoline C7-C12	9.524	8.917	92	24-134	2	32
			-			
	000000000000000000000000000000000000000			000000000000000000000000000000000000000		

Surrogate	%REC	Limits		
Trifluorotoluene (FID)	104	56-144		1
Bromofluorobenzene (FIL) 87	51-142	•	



Total Extractable Hydrocarbons

Lab #: 165.736 Location: 1195 Maritime Berth 23

Client: Geomatrix Consultants SHAKER TABLE Prep: Project#: 8207.001 Analysis: EPA 8015B

Soil Matrix: Sampled: 06/10/03 . Units: mg/Kg Received: 06/10/03

Basis: as received Prepared: 06/10/03

Diln Fac: 1.000 . Analyzed: 06/11/03 Batch#: 82088

rield ID:

P1-061003

lype: SAMPLE Lab ID:

165736-001

Cleanup Method: EPA 3630C

Analyte Result

Diesel C10-C24 1.3 Y 1.0

%REC Limits Surrogate Hexacosane 36-141

ield ID:

Type:

P2-061003

SAMPLE

Lab ID:

165736-002

Cleanup Method: EPA 3630C

Analyte Result

Diesel C10-C24 90 L Y

Surrogate %REC Limits Hexacosane 101 36-141

Type:

BLANK

Cleanup Method: EPA 3630C

Tab ID:

QC216115

Analyte

Result

Diesel C10-C24

ND

%REC Limits Surrogate

Hexacosane

89

36-141

L= Lighter hydrocarbons contributed to the quantitation

Y= Sample exhibits chromatographic pattern which does not resemble standard

D= Not Detected

.L= Reporting Limit

Page 1 of 1

Sample Name : 165736-001sg,82088
FileName : G:\GC11\CHA\162A006.RAW

Method : ATEH158.MTH

Start Time : 0.01 min

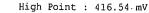
Plot Offset: 9 mV

End Time : 31.91 min

Sample #: 82088 Date : 6/11/03 02:56 PM

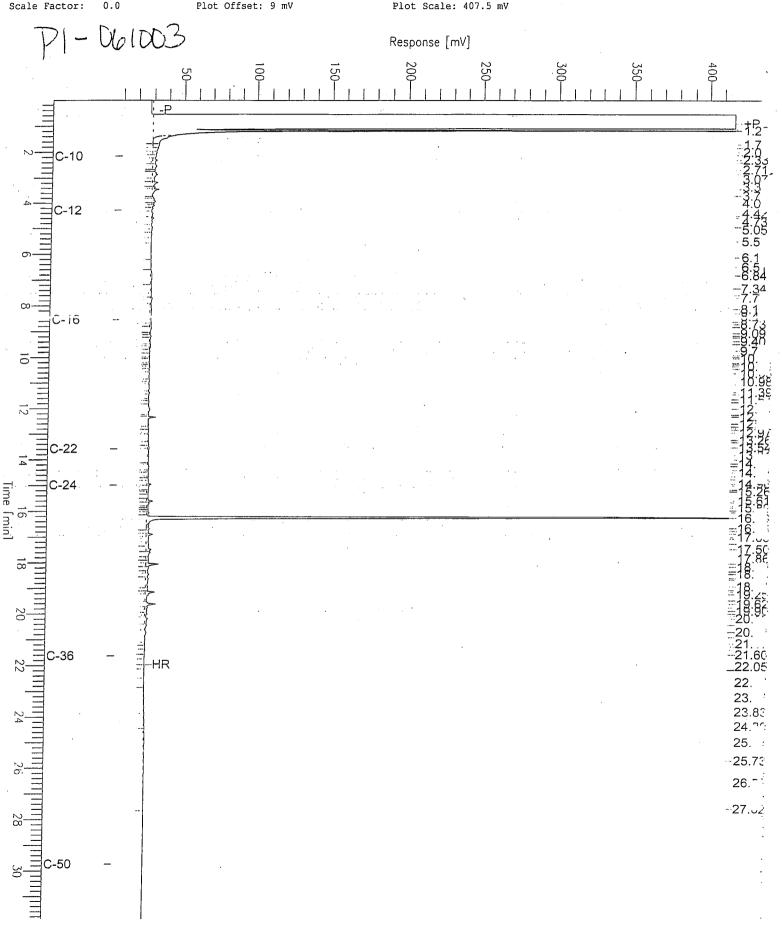
Time of Injection: 6/11/03 02:17 PM

Low Point: 9.06 mV



Page 1 of 1

Plot Scale: 407.5 mV



Sample Name : 165736-002sg,82088

: G:\GC11\CHA\162A007.RAW FileName

: ATEH158.MTH Method

Start Time : 0.00 min Scale Factor:

End Time : 31.90 min

Plot Offset: -25 mV

Sample #: 82088

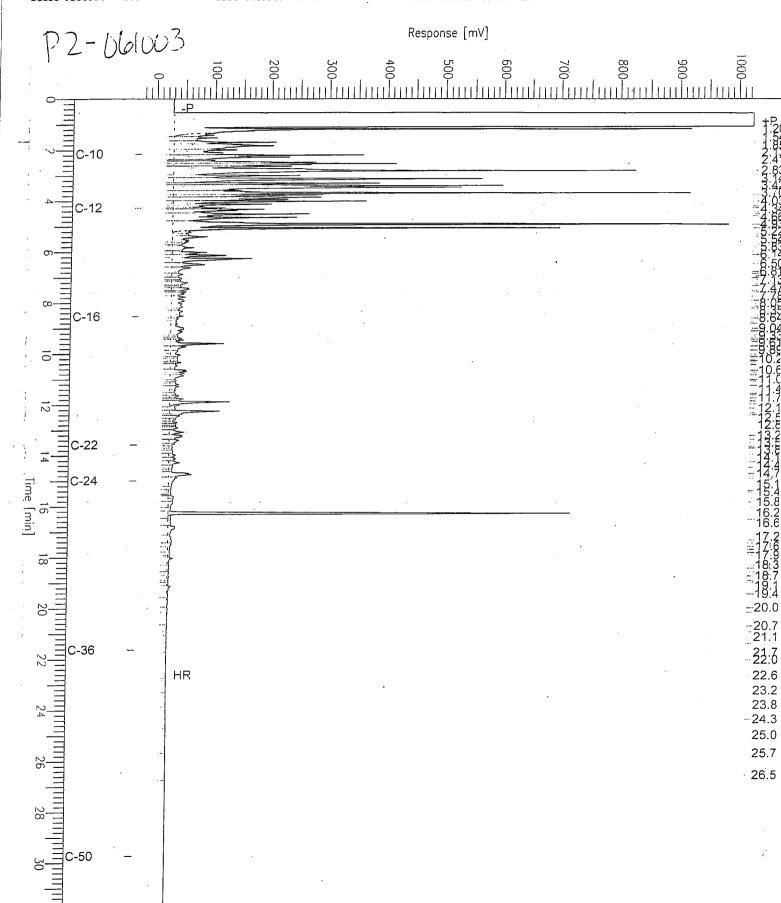
Date: 6/11/03 03:33 PM

Time of Injection: 6/11/03 02:57 PM

Low Point: -24.87 mV High Point: 1024.00 mV

Page 1 of 1

Plot Scale: 1048.9 mV



Sample Name : ccv,03ws0738,dsl

: G:\GC11\CHA\162A002.RAW

FileName : ATEH158.MTH 1ethod

Start Time : 0.01 min

End Time : 31.91 min Plot Offset: 19 mV

Sample #: 500mg/L

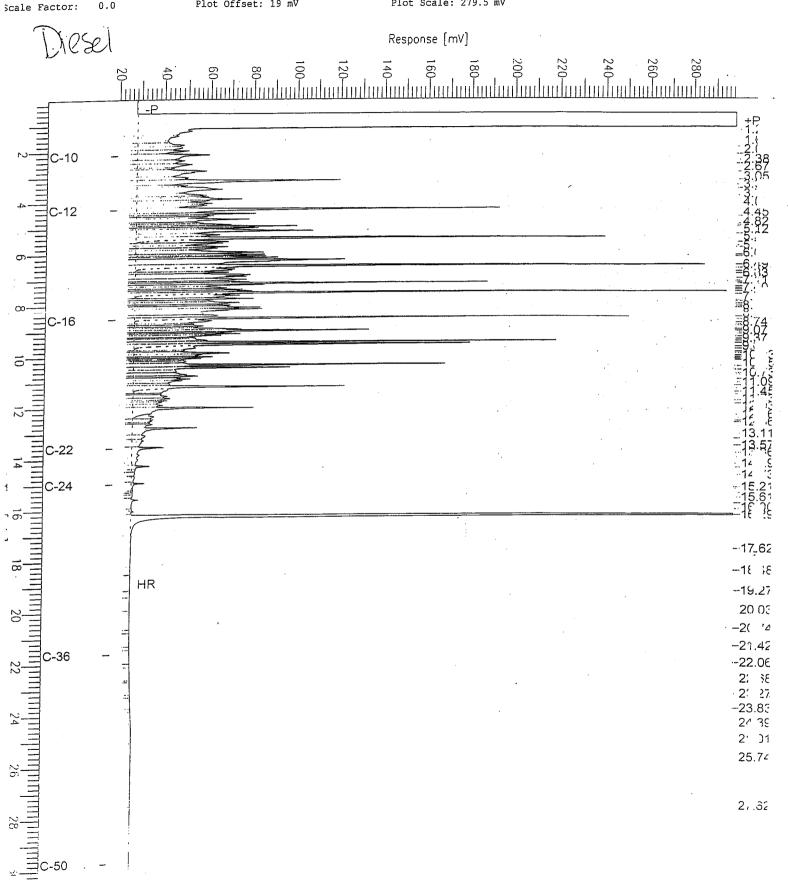
Date: 6/11/03 11:23 AM

Time of Injection: 6/11/03 10:10 AM

High Point : 298.70 mV

Page 1 of 1

Low Point: 19.23 mV Plot Scale: 279.5 mV





Total Extractable Hydrocarbons

Lab #: 165736 Location: 1195 Maritime Berth 23

Client: Geomatrix Consultants Prep: SHAKER TABLE

 Project#:
 8207.001
 Analysis:
 EPA 8015B

 Type:
 LCS
 Diln Fac:
 1.000

Lab ID: QC216116 Batch#: 82088
Matrix: Soil Prepared: 06/10/03

Matrix: Soil Prepared: 06/10/03
Units: mg/Kg Analyzed: 06/11/03

Basis: as received

cleanup Method: EPA 3630C

 Analyte
 Spiked
 Result
 %REC Limits

 Diesel C10-C24
 50.43
 39.54
 78
 49-129

Surrogate %REC Limits
Hexacosane 92 36-141



Total Extra	ctable Hydrocar	bons
165736	Location:	1195 Maritime Berth 23
Geomatrix Consultants	Prep:	SHAKER TABLE
8207.001	Analysis:	EPA 8015B
ZZZZZZZZZ	Batch#:	82088
165715-009	Sampled:	06/09/03
Soil	Received:	06/09/03
mg/Kg	Prepared:	06/10/03
as received	Analyzed:	06/11/03
2.000		
	165736 Geomatrix Consultants 8207.001 ZZZZZZZZZZ 165715-009 Soil mg/Kg as received	Geomatrix Consultants Prep: 8207.001 Analysis: ZZZZZZZZZZ Batch#: 165715-009 Sampled: Soil Received: mg/Kg Prepared: as received Analyzed:

'ype: ab ID: MS

QC216117

Cleanup Method: EPA 3630C

					 Annual Control of the		
	Analy	te M	GG Reenle	had in?	Result	S. D. T.	740000700100000000000000000000000000000
000000000000000000000000000000000000000	· · · · · · · · · · · · · · · · · · ·	····				77.5	Carrier Control of Con
Diesel	C10-C24		68.34	49.85	99.41	62	32-134

Surrogate				
Surrogate	**************************************	00000		
	······			XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

Hevadogane	. 0 0	26 717	•	
UEVOCABUIE	0.0	30-141		

ype: ab ID: MSD

QC216118

Cleanup Method: EPA 3630C

	Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel	C10-C24	49.61	112.8	90	32-134	13	48

Surrogate	%REC	Limits	
Iexacosane	101	36-141	



			Pur	geable	Aromat:		GC/M	S				
,	Lab #:	165736			Loc	ation:		1195	Marit	ime Ber	rth 23	
•	Client:	Geomatrix C	onsult	ants	Pre	p: ,		EPA :	5030B			
	Project#:	8207.001			Ana	lysis:		EPA 8	3260B			
,	Field ID:	P1-061003			Dil	n Fac:		5.556	5			
	Lab ID:	165736-001			Bat	ch#:		82057	7			
-	Matrix:	Soil			Sam	pled:		06/10	0/03			
	Units:	ug/Kg			Rec	eived:		06/10	0/03			
	Basis:	as received			Ana.	lyzed:		06/10	0/03			
					5 5.3							
	Analyt	ie .		Resul	t		RL					
1	MTBE			ND			28			•		
:	Benzene .			ND			28					
. 1	Toluene			ND			28					•
	Chlorobenzene			ND .			28	7				
	Ethylbenzene		100	230			28	• • • • • •	. •			
	m,p-Xylenes			610			28					·
	o-Xylene			210			28	٠,				
: 1	1,3-Dichlorobenze			ND		**	.28		.1			
	1,4-Dichlorobenze		* .	ND	**		28	·	* •	. •		
Ĺ	1,2-Dichlorobenze	ne		ND		·	28					
	Surroga	***************************************	%RE	C Limit	5							
1	1,2-Dichloroethan	e-d4	104	76-13	_					. •		
	Toluene-d8		105	80-12	0							
	Bromofluorobenzen	е	109	76-12	5	*	•					



	Purgeable .	Aromatics by GC	:/MS
Lab #:	165736	Location:	1195 Maritime Berth 23
Client:	Geomatrix Consultants	Prep:	EPA 5030B
Project#:	8207.001	Analysis:	EPA 8260B
Field ID:	P2-061003	Diln Fac:	71.43
Lab ID:	165736-002	Batch#:	82099
Matrix:	Soil	Sampled:	06/10/03
Units:	ug/Kg	Received:	06/10/03
Basis:	as received	Analyzed:	06/11/03

Analyte	Result	RLi
MTBE	ND	360
Benzene	440	360
Toluene	ND	360
Chlorobenzene	ND	360
Ethylbenzene	11,000	360
m,p-Xylenes	5,500	360
o-Xylene	ND	360
1,3-Dichlorobenzene	ND	360
1,4-Dichlorobenzene	ND	360
1,2-Dichlorobenzene	ND	360

		7.3.00		
Surrogate	*KEC	Limits		
1,2-Dichloroethane-d4	90	76-130	 * * *	· · · · · · · · · · · · · · · · · · ·
Toluene-d8	101	80-120		
Bromofluorobenzene	98	76-125	<u> </u>	



1		Purgeable Aromatics by GC/MS									
,	Lab #:	165736		•	Location:		1195 Maritin	ne Berth	23		
!	Client:	Geomatrix	Consultan	ts	Prep:		EPA 5030B				
: "	Project#:	8207.001			Analysis:		EPA 8260B				
, .	Type:	BLANK			Basis:		as received	· ·			
j	Lab ID:	QC215991			Diln Fac:		1.000				
-	Matrix:	Soil			Batch#:		82057				
	Units:	ug/Kg			Analyzed:		06/10/03				
1, 1	Analyt	.e		Result		RL					
	MTBE	٠	NI		•	5.0)				
1	Benzene		NI		•	5.0)				
i	Toluene		NI			5.0)				
	Chlorobenzene		NI)		5.0)				
,	Ethylbenzene		NI)		5.0					
	m,p-Xylenes		NI	*		5.0	(* ,				
ļ	o-Xylene		ND			5.0			•		
	1,3-Dichlorobenze		, ND			5.0	й Ч				
	1,4-Dichlorobenze		ND			5.0					
	1,2-Dichlorobenze	ne	ND			5.0					
. 17											
. 🌡	Surroga	************************	%REC	Limits							
•]	1,2-Dichloroethane	≘-d4	100	76-130	$\label{eq:continuous} (x,y) = (x,y) + (x,y) $						
	Toluene-d8		103	80-120							
Ţ	Bromofluorobenzene	9	109	76-125							



	Purgeable Arc	matics by GC/M	S
Lab #:	165736	Location:	1195 Maritime Berth 23
Client:	Geomatrix Consultants	Prep: ,	EPA 5030B
Project#:	8207.001	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC216157	Batch#:	82099
Matrix:	Water	Analyzed:	06/11/03
Units:	ug/L	·	

Analyte	Result	RL	.
MTBE	ND	5.0	_
Benzene	ND	5.0	
Toluene	ND	5.0	
Chlorobenzene	ND .	5.0	
Ethylbenzene	ND	5.0	
m,p-Xylenes	ND	5.0	
n-Xylene	CIN	5.0	
1,3-Dichlorobenzene	ND	5.0	
1,4-Dichlorobenzene	ND .	5.0	Ą
1,2-Dichlorobenzene	ND	5.0	

Surrogate	%REC	Limits		
1,2-Dichloroethane-d4	89	76-130	er i er er	
Toluene-d8	103	80-120		1
Bromofluorobenzene	100	76-125	4	 •



Dirmashi	6 A ***	****	by GC/MS
* ***			

Lab #: 165736 Client: Geomatrix Consultants Project#: 8207.001

LCS QC215990

Matrix: Soil Units: ug/Kg

Type:

Lab ID:

Location: Prep:

Analysis: Basis:

Diln Fac: Batch#: Analyzed:

1195 Maritime Berth 23 EPA 5030B EPA 8260B

as received

1.000 82057 06/10/03

1					
Analyte	Spiked	Result	%REC	Limits	
Benzene	50.00	49.51	99	78-120	***********
Toluene	50.00	52.29	105	79-120	
Chlorobenzene	50.00	49.99	100	80-120	

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	100	76-130
Toluene-d8	106	80-120
Bromofluorobenzene	103	76-125



	Purgeable	Aromatics by GC	C/MS
Lab #:	165736	Location:	1195 Maritime Berth 23
Client:	Geomatrix Consultants	Prep:	EPA 5030B
Project#:	8207.001	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZ	Diln Fac:	1.020
MSS Lab ID:	165723-004	Batch#:	82057
Matrix:	Soil	Sampled:	06/07/03
Units:	ug/Kg	Received:	06/09/03
Basis:	as received	Analyzed:	06/10/03

Type:

MS

Lab ID:

QC216079

Analyte MSS	Result	Spiked .	Result	%RE	C Limits
Benzene	<0.08200	51.02	44.57	87	55-121.
Toluene	~ 0.2000 .	51.02	44.03	86	44-129
Chlorobenzene	<0.1600	51.02	36.32	71	48-121

Surrogate	%REC	Limits	
1,2-Dichloroethane-d4	109	76-130 [.]	
Toluene-d8	108	80-120	
Bromofluorobenzene	109	76-125	

Type:

MSD

Lab ID:

QC216080

Analyte	Spiked	Result	%RE(2 Limits	RPI	Lii
Benzene	51.02	45.34	89	55-121	2	20
Toluene	51.02	45.64	89	44-129	4	20
Chlorobenzene	51.02	38.07	75	. 48-121	5	20

Surrogate	%REC	Limits	
1,2-Dichloroethane-d4	104	76-130	
Toluene-d8	107	80-120	
Bromofluorobenzene	109	76-125	



Purgeable Aromatics by GC/MS

Lab #: 165736
Client: Geomatri:
Project#: 8207.001

LCS

Water

ug/L

QC216156

Type:

Lab ID:

Matrix:

Units:

Geomatrix Consultants

Location: Prep: Analysis: 1195 Maritime Berth 23

p: EPA 5030B lysis: EPA 8260B n Fac: 1.000

Diln Fac: Batch#: Analyzed:

82099 06/11/03

	Analyte	Spiked	Result	%REC	Limits	
	Benzene	50.00	49.91	100	78-120	*************
	Toluene	50.00	51.64	103	79-120	
d	Chlorobenzene	50.00	51.84	104	80-120	

٠.	Surrogate	%R	EC	Limits		•			
-	1,2-Dichloroethane-d4	87		76-130				•	******
	Toluene-d8	104		80-120			-		
	Bromofluorobenzene	96		76-125	• •				



	Purgeable	Aromatics by GO	C/MS
Lab #:	165736	Location:	1195 Maritime Berth 23
Client:	Geomatrix Consultants	Prep:	EPA 5030B
Project#:	8207.001	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZ	Batch#:	82099
MSS Lab ID:	165670-001	Sampled:	06/05/03
Matrix:	TCLP Leachate	Received:	06/06/03
Units:	ug/L	Analyzed:	06/11/03
Diln Fac:	0.9800		

Type:

MS .

Lab ID:

QC216220

Analyte	MSS Result	Spiked	Result		C Limits
Benzene	<0.2300	49.00	46.49	95	55-121
Toluene	< 0 3300	49.00	47.96	98	44 129
Chlorobenzene	<0.2300	49.00	48.03	98	48-121

Surrogate	%REC	Limits	
1,2-Dichloroethane-d4	89	76-130	
Toluene-d8	102	80-120	
Bromofluorobenzene	94	76-125	

Type:

MSD.

Lab ID: QC216221

Analyte	Spiked	Result	%REC	Limits	RPL	Li
Benzene	49.00	46.80	96	55-121	1.	20
Toluene	49.00	48.66	99	44-129	1	20
Chlorobenzene	49.00	48.82	100	48-121	2	20

Surrogate	%REC	Limits	
1,2-Dichloroethane-d4	89	76-130	
Toluene-d8	100	80-120	
Bromofluorobenzene	97	76-125	



		Lead	
Lab #:	165736	Location:	1195 Maritime Berth 23
Client:	Geomatrix Consultants	Prep:	EPA 3050
Project#:	8207.001	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	82082
Matrix:	Soil	Sampled:	06/10/03
Units:	mg/Kg	Received:	06/10/03
Basis:	as received	Prepared:	06/10/03
Diln Fac:	1.000	Analyzed:	06/11/03

Field ID	Type Lab ID	Result	RL	Capt of " All Common
P1-061003	SAMPLE 165736-001	3.8	0.14	
P2-061003	SAMPLE 165736-002	5.2	0.13	
	BLANK QC216091	ND	0.15	



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

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

ANALYTICAL REPORT

Prepared for:

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

Date: 26-JUN-03 Lab Job Number: 165890 Project ID: 8207.001

Location: Berth 23 Port of Oakland

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:

perations Manager

This package may be reproduced only in its entirety.

NELAP # 01107CA

Page 1 of <u>2\</u>

l of l		ents	La de	(#IA > # (D)	14.24.7 W.E.	Correct?	A On Ice	-7647487A7 6/17/23 WILLIAMES CA 94612 A141
S Page	REMARKS	Additional Comments Contrainers No. of	(camposite	SISXWAY 21	Canaples b	Preservation Correct?	Received Rambient S megi: mmonts and Log, No.:	AUTAT For all accept TEH 7 48 TAT Per J. Patterson, 6/17/23 Zioi Webster Street, 12th Floor · Oakland, CA 94612 Phone: 510-663-4100 · Fax: 510-663-4141
Date: 6/17/03		Soil (S), Water (W) Vapor (V), or Other (O) Filtered Preserved betooled	77272	2 2 1 0 0 0	2 2 2 2 2 2 2 2 1 0 0 0			Date: 2101 Webst
004337							MVばん t L— Total No. cf Containers Relinquished by (Signature): Date: Printed Name: Time:	r: I by: Iame:
004	ANALYSES	Method 8015M (Diesel) Selica Gel Cleanup Silica Gel Cleanup TH 20 - PL THOLID	×× ××	X			Results to: ANGA INDate: Relinquished to Printed Name:	Company: Date: Received by: Printed Name: Company:
Record		EPA Method 8270 EPA Method 8270 EPA Method 8270 SIM (PAHS only) SIM (PAHS only) SIM (PAHS only)	×X	××;			Time: Kn. Vignature): I Name:	Company: Received by: Printed Name: Company:
ustody	100	Sample Number (Hal. VOCs only) EPA Method 8021 (Hal. VOCs only) EPA Method 8021	2061703	16_061703 (D_061703	26-06-703 20-06-703 20-06-703 2A-06-703		My HW Form	1.39 (1.39) Date:
Chain-of	Project No.: 8207,00	Samplers (Signature:)	417 03 09391B.	23	1015 1023 1037 1037		Laboratory: (ULMS + 6W Refinguished by (Signature). Printed Name:	Company: Company: Company: Company:

SOP Volume:

Client Services

Section:

1.1.2

Page:

1 of 1

Effective Date:

10-May-99

Revision:

Number 3 of 3

Filename:

Filename: F:\qc\forms\cooler.wpd

F:\QC\Forms\QC\Cooler.wpd

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Rev. 1, 4/95

Login	n#: 65890 Date Received: 6/16/03 Number of Coolers:	
Client	t: GEOMATRIX Project: BERTH 23 PORT OF OAM	LAND
Α.	Preliminary Examination Phase Date Opened: 6/6/63 By (print): 6 HAHN (sign)	^
1.	Did cooler come with a shipping slip (airbill, etc.)?	640
	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	
4.	Were custody papers dry and intact when received?	
5.	Were custody papers filled out properly (ink, signed, etc.)?	NO
6.	Did you sign the custody papers in the appropriate place?YES	NO N
7.	Was project identifiable from custody papers?) 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: WET Temperature: (OLD	
_		
В.	Login Phase Date Logged In: 6/6/63 By (print): 6 - HAHW (sign)	
1.	Describe type of packing in cooler: <u>BAGED IN</u> <u>ETFEOC.</u>	
2.	Did all bottles arrive unbroken?	
3.	Were labels in good condition and complete (ID, date, time, signature, etc.)?YES	
4.	Did bottle labels agree with custody papers?	NO
5.	Were appropriate containers used for the tests indicated?YES	NO
6.	Were correct preservatives added to samples? YES	
7.	Was sufficient amount of sample sent for tests indicated?	
8.	Were bubbles absent in VOA samples? If NO, list sample Ids below	
9.	Was the client contacted concerning this sample delivery? YES	NO
•	If YES, give details below.	
	Who was called? By whom? Date:	
Additio	onal Comments:	
		



Total Volatile Hydrocarbons								
Lab #:	165890	Location:	Berth 23 Port of Oakland					
Client:	Geomatrix Consultants	Prep:	EPA 5030B					
Project#:	8207.001	Analysis:	8015B					
Matrix:	Soil	Sampled:	06/17/03					
Units:	mg/Kg	Received:	06/17/03					
Basis:	as received	Analyzed:	06/17/03					
Batch#:	82268							

Field ID:

COMP #1A-#1D

Lab ID:

165890-005

Type:

SAMPLE

Diln Fac:

10.00

	the state of the s		
F0000000000000000000000000000000000000			
	Dees 14		
		RL	

Surrogate		Limits		
Trifluorotoluene (FID)	106	56-144		
Bromofluorobenzene (FID)	119	51-142	<u> </u>	

Field ID:

COMP #2A-#2D

Lab ID:

165890-010

Type:

SAMPLE

Diln Fac:

5.000

Analyte	Result	RL	
Gasoline C7-C12	110 H Y	.5.0	

Surrogate	%REC	Limits	
Trifluorotoluene (FID)	99	56-144	
Bromofluorobenzene (FID)	106	51-142	

Type:

BLANK

Diln Fac:

1.000

Lab ID:

QC216857

Analyte	Result	RL	
Gasoline C7-C12	ND	1.0	_

Surrogate	%REC	Limits
Trifluorotoluene (FID)	88	56-144
Bromofluorobenzene (FID)	81	51-142

H= Heavier hydrocarbons contributed to the quantitation

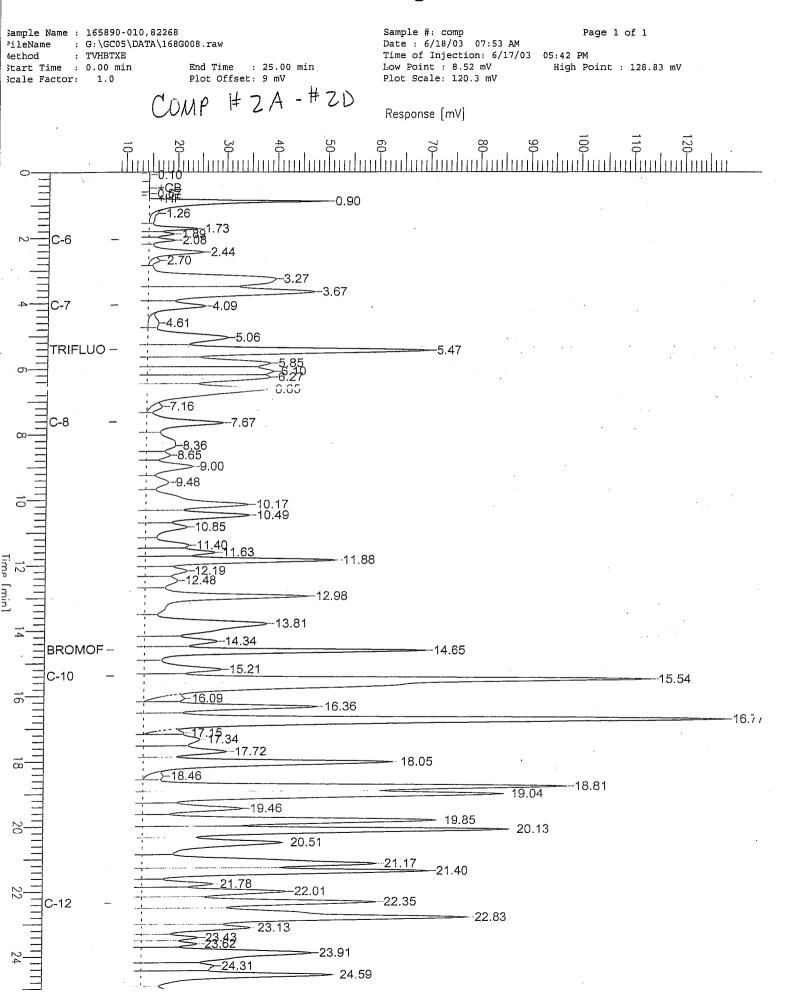
Y= Sample exhibits chromatographic pattern which does not resemble standard

ID= Not Detected

₹L= Reporting Limit

?age 1 of 1

Sample Name : 165890-005,82268 Sample #: comp Page 1 of 1 : G:\GC05\DATA\168G009.raw Date: 6/18/03 07:53 AM ileName : TVHBTXE ethod Time of Injection: 6/17/03 06:15 PM Low Point : 3.60 mV start Time : 0.00 min End Time : 25.00 min High Point : 227.30 mV Scale Factor: 1.0 Plot Offset: 4 mV Plot Scale: 223.7 mV Response [mV] -0.91 1.26 C-6 3.66 -4.08 4.63 TRIFLUO -5.46 -6.647.17 -7.66 -9.00 9.47 10.84 13.33 -13.79 BROMOF -14.64 C-10 -16,10 16.35 16.75 18.04 ∑18.46 18.80 19.03 19.45 -20.1220.50 <u>21.16</u> 21.39 C-12 -22.00 22.33 22.82 23.89 24.28 24.58



Sample Name : CCV/BS,QC216858,82268,03WS0819,5/5000 Sample #: Page 1 of 1 Date: 6/17/03 02:45 PM : G:\GC05\DATA\168G002.raw ileName : TVHBTXE Time of Injection: 6/17/03 02:20 PM ethod Low Point : 8.66 mV start Time : 0.00 min High Point : 127.78 mV End Time : 25.00 min Plot Scale: 119.1 mV Plot Offset: 9 mV Scale Factor: 1.0 Response [mV] +CB -1.262.06 3.65 4.11 4.54 -5.06 TRIFLUO --6.63 -7.18 -8.28 -8.61 -9.00 -9.46 -10.16 -10.49 11.65 -12.44 12.98 BROMOF--14.65 15.21 C-10 15.54 €16.08 -16.35 16.75 -17.31 -17.70 -18.04 -19.45 20.50 21.77 -22.02 C-12 22.34 -22.82



	Total Vola	tile Hydrocarbo	ons
Lab #:	165890	Location:	Berth 23 Port of Oakland
Client:	Geomatrix Consultants	Prep:	EPA 5030B
Project#:	8207.001	Analysis:	8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Batch#:	82268
Basis:	as received	Analyzed:	06/17/03

Type:

BS

Lab ID:

QC216858

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	10.00	10.12	101	80-120

Surrogate	%REC	Limits	
Trifluorotoluene (FTD)	104	56-144	
Bromofluorobenzene (FID)	89	51-142	

Type:

BSD

Lab ID:

QC216872

whathe	SPIKEG	Result	51 , 11	- DIMITTED	∴r.r.	1111
Gasoline C7-C12	10.00	8.819	88	80-120	14	20
		•				

Surrogate	%REC	Limits		
Trifluorotoluene (FID)	103	56-144	,	
Bromofluorobenzene (FID)	91	51-142		



Total Extractable Hydrocarbons Lab #: 165890 Location: Berth 23 Port of Oakland Client: Geomatrix Consultants Prep: SHAKER TABLE 8207.001 Project#: Analysis: EPA 8015B Matrix: Soil Batch#: 82285 Units: mg/Kg Sampled: 06/17/03 Basis: as received Received: 06/17/03 Diln Fac: 1.000 Prepared: 06/17/03

Field ID:

COMP #1A-#1D

Type: Lab ID: SAMPLE

165890-005

Analyzed:

06/20/03

Cleanup Method:

EPA 3630C

Analyte	Result	RL
Diesel Clo-C24	180 T. Y	0 99

Surrogate Limits Hexacosane 36-141

Field ID:

COMP #2A-#2D

SAMPLE

Type: Lab ID:

165890-010

Analyzed:

06/20/03

Cleanup Method: EPA 3630C

Analyte Diesel C10-C24

Result 67 H L Y

1.0

Limits

Hexacosane

96

36-141

Type: Lab ID: BLANK

QC216920

Analyzed:

06/19/03

Cleanup Method: EPA 3630C

Analyte

Result

Diesel C10-C24

1.0

Surrogate %REC Limits Hexacosane 36-141

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

Page 1 of 1

10.3

Sample Name : 165890-005sg,82285

: G:\GC13\CHB\167B118.RAW FileName

Method : BTEH166.MTH

Start Time : 0.00 min 0.0 Scale Factor:

C-50

HR

End Time : 31.90 min

Plot Offset: -19 mV

Sample #: 82285

Date: 6/20/03 08:48 AM

Time of Injection: 6/20/03 02:03 AM

Low Point : -18.86 mV

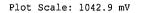
High Point: 1024.00 mV

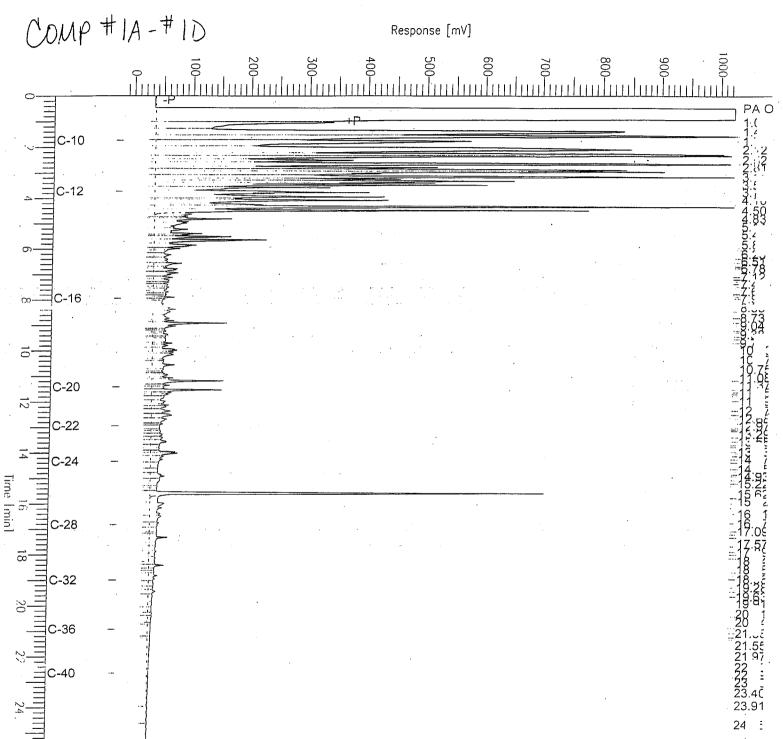
24

25.89

26 27 27 27.05 28.07

Page 1 of 1





Sample Name: 165890-010sg,82285

FileName : G:\GC13\CHB\167B119.RAW

Method : BTEH166.MTH

Start Time : 0.01 min Scale Factor: 0.0

End Time : 31.91 min

Plot Offset: 23 mV

Sample #: 82285

Date: 6/20/03 08:49 AM

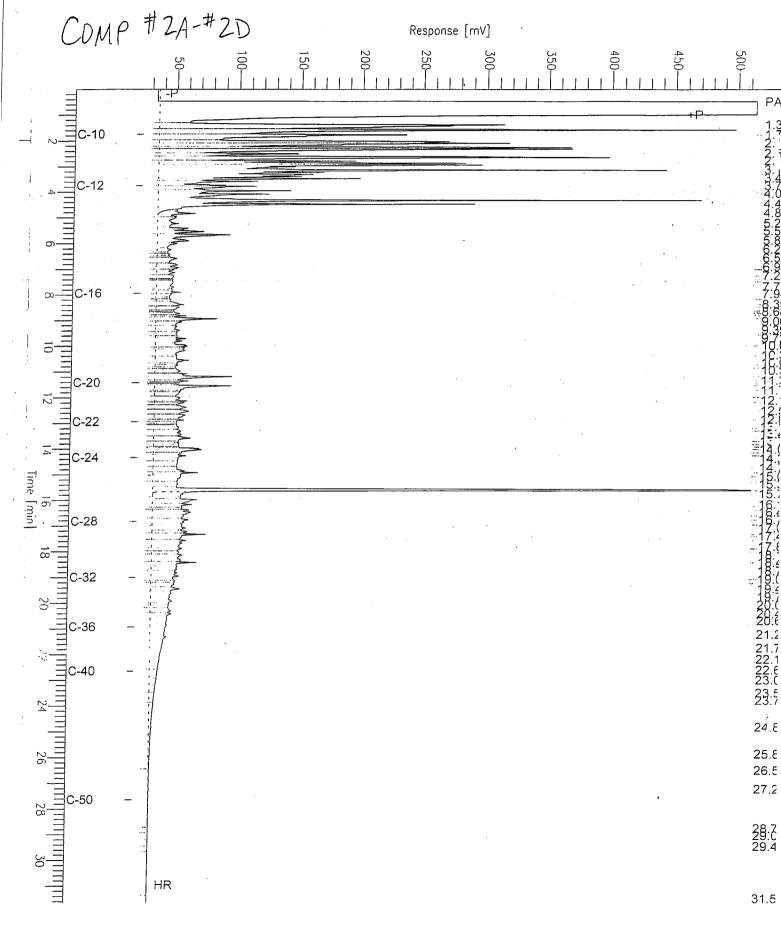
Time of Injection: 6/20/03 02:42 AM

Low Point : 22.80 mV

High Point : 514.02 mV

Page 1 of 1

Plot Scale: 491.2 mV



mple Name : ccv,03ws0966,dsl

LieName

ihod

: G:\GC11\CHA\170A002.RAW

: ATEH167.MTH

art Time : 0.01 min

End Time : 31.91 min Plot Offset: 21 mV

Sample #: 500mg/L

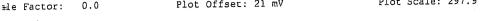
Date: 6/19/03 11:43 AM Time of Injection: 6/19/03 10:30 AM

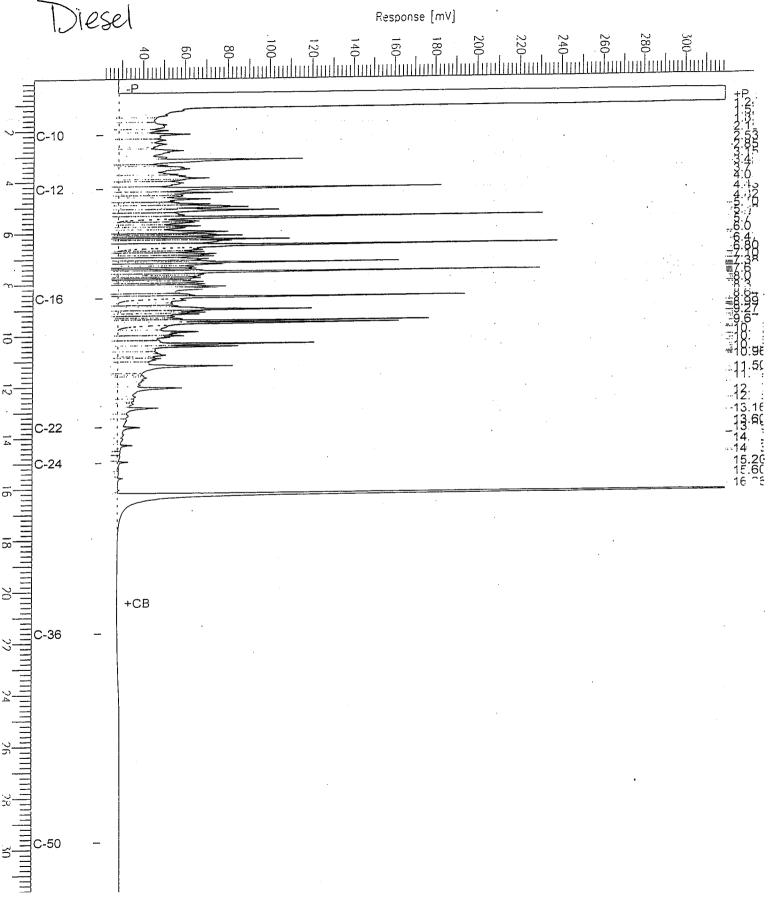
Low Point : 20.81 mV

High Point : 318.75 mV

Page 1 of 1

Plot Scale: 297.9 mV







Total Extractable Hydrocarbons Lab #: 165890 Location: Berth 23 Port of Oakland Client: Geomatrix Consultants Prep: SHAKER TABLE Project#: 8207.001 Analysis: EPA 8015B LCS Type: Diln Fac: 1.000 QC216921 Batch#: Lab ID: 82285 Soil Prepared: Matrix: 06/17/03 Units: mg/Kg Analyzed: 06/19/03 as received Basis:

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%RE	C Limits	
Diesel C10-C24	50.19	48.15	96	49-129	

: ,	Surrog	jate		%RI					
1	Hexacosane		•	90	36-141			•	



	Total Extra	ctable Hydrocar	bons
Lab #:	165890	Location:	Berth 23 Port of Oakland
Client:	Geomatrix Consultants	Prep:	SHAKER TABLE
Project#:	8207.001	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	82285
MSS Lab ID:	165655-001	Sampled:	06/04/03
Matrix:	Soil	Received:	06/04/03
Units:	mg/Kg	Prepared:	06/17/03
Basis:	as received	Analyzed:	06/21/03
Diln Fac:	2.000		

Type: Lab ID:

QC216922

Cleanup Method: EPA 3630C

žnalyte	MSS Result	Spiked	Result	0.7575 2445	c limits
Diesel C10-C24	40.24	50.37	79.62	78	32-134

Surrogate %REC Limits 36-141 Hexacosane

Type: Lab ID: MSD

QC216923

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD:	Lim
Diesel C10-C24	50.10	89.06	97	32-134	11	48

Surrogate	%REC	Limits	
Hexacosane	107	36-141	



•		Purp	geable Aro	matics by	GC/M	S			
	Lab #:	165890		Location:		Berth 23 Po	rt of	Oakland	
	Client:	Geomatrix Consult	ants	Prep:		EPA 5030B			
1	Project#:	8207.001		Analysis:		EPA 8260B			
, .	Field ID:	COMP #1A-#1D		Diln Fac:		33.33	-		
ĺ	Lab ID:	165890-005	·	Batch#:		82297			
-	Matrix:	· Soil.		Sampled:		06/17/03			
	Units:	ug/Kg		Received:		06/17/03			
	Basis:	as received		Analyzed:		06/18/03			
	Analy	te	Result		RL				
[MTBE		ND ·		170				
1	Benzene		ND		170			•	
. :	Toluene		ND		170				
Ţ	Ethylbenzene		270		170		•		
	m,p-Xylenes		2,800	* ***	170				
1 2	o-Xylene		1,900		170				

ાં 💹	Surrogate	%R	EC Limits			
1	,2-Dichloroethane-d4	101	76-130	et a grand and a g	 	
T	oluene-d8	103	80-120			
. В	romofluorobenzene	103	76-125	· · ·		
-					 	



	Purgeable	Aromatics by GO	c/ms
Lab #:	165890	Location:	Berth 23 Port of Oakland
Client:	Geomatrix Consultants	Prep:	EPA 5030B
Project#:	8207.001	Analysis:	EPA 8260B
Field ID:	COMP #2A-#2D	Diln Fac:	25.00
Lab ID:	165890-010	Batch#:	82297
Matrix:	Soil	Sampled:	06/17/03
Units:	ug/Kg	Received:	06/17/03
Basis:	as received	Analyzed:	06/18/03

Analyte	Result	RL	
MTBE	ND .	130	
Benzene	ND	130	
Toluene	ND	130	٠,
Ethylbenzene	ND	130	
Ethylbenzene m,p-Xylenes o-Xylene	150	130	·
o-Xylene	130	130	

Surrogate	%REC	Limits		
1,2-Dichloroethane-d4	99	76-130		
Toluene-d8	102	80-120		1
Bromofluorobenzene	105	76-125		



***************************************	·	
Director		ov GC/MS

Diln Fac:

1.000

Lab #: 165890 Location: Berth 23 Port of Oakland Client: Geomatrix Consultants Prep: EPA 5030B

Project#: 8207.001 Analysis: EPA 8260B Type: BLANK

Lab ID: QC216979 Batch#: 82297 Matrix: Water Analyzed: 06/18/03 Units: ug/L

Analyte Result RL MTBE ND 5.0 Benzene ND 5.0 Toluene ND 5.0 Ethylbenzene ND 5.0 m,p-Xylenes ND 5.0 o-Xylene ND 5.0

١,,,					 		
	Surrogate	%REC	Limits				
	1,2-Dichloroethane-d4	99	76-130			 * ***	
	Toluene-d8	100	80-120		 •	and a great of cast at the	
-	Bromofluorobenzene	114	76-125	•			



	Purgeable	Aromatics by GC	C/MS
Lab #:	165890	Location:	Berth 23 Port of Oakland
Client:	Geomatrix Consultants	Prep:	EPA 5030B
Project#:	8207.001	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC216978	Batch#:	82297
Matrix:	Water	Analyzed:	06/18/03
Units:	ug/L	****	

Analyte	Opaneou .	Deer 1	%REC	Limits	
Benzene	50.00	53.76	108	78-120	*
Toluene	50.00	53.70	107	79-120	

Surrogate	%REC	Limits			
1,2-Dichloroethane-d4	98	76-130			
Toluene-d8	100	80-120			.]
Bromofluorobenzene	106	76-125	•		1



	Purgeable .	Aromatics by GC	2/MS
Lab #:	165890	Location:	Berth 23 Port of Oakland
Client:	Geomatrix Consultants	Prep:	EPA 5030B
Project#:	8207.001	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Diln Fac:	25.00
MSS Lab ID:	165858-001	Batch#:	82297
Matrix:	Miscell.	Sampled:	06/14/03
Units:	ug/Kg	Received:	06/16/03
Basis:	as received	Analyzed:	06/18/03

Type:

MS

Lab ID:

QC217047

Analyte	MSS Result	Spiked	Result	%REC	Limits
Benzene	15.79	1,250	1,317	104	55~121
Toluene	14.78	1,250	1,363	108	44-129

Surrogate	%REC	2 Limits		
1,2-Dichloroethane-d4	97	76-130		
Toluene-d8	106	80-120	•	•
Bromofluorobenzene	110	76-125		

Type:

MSD

Lab ID:

QC217048

ر i	Analyte	Spiked	Result	%REC	Limits	RPD	Lim
-	Benzene	1,250	1,402	111	55-121	6	20
1	Toluene	1,250	1,332	105	44-129	2	20
j							

	Surrogate	%REC	Limits	
	1,2-Dichloroethane-d4	99	76-130	
أسرر	Toluene-d8	99	80-120	•
	Bromofluorobenzene	110	76-125	



		Lead	
Tab #.	165890	Location:	Berth 23 Port of Oakland
Lab #: Client:	Geomatrix Consultants	Prep:	EPA 3050
Project#:	8207.001	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	82284
Matrix:	Soil	Sampled:	06/17/03
Units:	mg/Kg	Received:	06/17/03
Basis:	as received	Prepared:	06/17/03
Diln Fac:	1.000	Analyzed:	06/18/03

	Field ID	Type	Lab ID	Result	RL	
COMP	#1A-#1D	SAMPLE	165890-005	6.9	0.13	
COMP	#2A-#2D	SAMPLE	165890-010	21	0.13	
		BLANK	QC216914	ND	0.15	



,			***************************************	
		7	ead	
		1	cuu	
j				
٦	Lab #:	165890	Location:	Berth 23 Port of Oakland
	Client:	Geomatrix Consultants	Prep:	EPA 3050
1	Project#:	8207.001	Analysis:	EPA 6010B
Γ	Analyte:	Lead	Diln Fac:	1.000
	Matrix:	Soil	Batch#:	82284
_	Units:	mg/Kg	Prepared:	06/17/03
	Basis:	as received	Analyzed:	06/18/03
	7			

	Type	e Lab ID	S	biked	Result	%REC	Limits	RPD	Lim	
i	BS	QC216915		100.0	85.50	86	71-120			 20000000000
	BSD	QC216916		100.0	. 85.50	86	71-120	0	20	
	d .									

	•				
				•	
			•		
		•	•		
•					
•					



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ANALYTICAL REPORT

Prepared for:

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

Date: 18-JUN-03 Lab Job Number: 165651

Project ID: 8207.001

Location: Port of Oakland

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

This package may be reproduced only in its entirety.

NELAP # 01107CA

Page 1 of \G



Total Volatile Hydrocarbons							
Lab #:	165651	Location:	Port of Oakland				
Client:	Geomatrix Consultants	Prep:	EPA 5030B				
Project#:	8207.001	Analysis:	8015B				
Field ID:	GW-060503	Batch#:	81980				
Matrix:	Water	Sampled:	06/05/03				
Units:	ug/L	Received:	06/05/03				

Type: Lab ID: SAMPLE

165651-001

Diln Fac:

5.000

Analyzed:

06/07/03

Analyte	Result	RL	
Gasoline C7-C12	19,000	250	

Surrogate	%P.E.C	Limits	
Trifluorotoluene (FID)	100	57-150	
Bromofluorobenzene (FID)	91	65-144	·

Type: Lab ID: BLANK

QC215673

Diln Fac:

1.000

Analyzed:

06/06/03

Analyte	Result	RL	
Gasoline C7-C12	· ND	50	

Surrogate	%RI	EC Limits	
Trifluorotoluene (FID)	87	57-150	
Bromofluorobenzene (FID)	80	65-144	

ND= Not Detected RL= Reporting Limit Rage 1 of 1



Total Volatile Hydrocarbons

Lab #:

165651

Location:

Port of Oakland

Client:

Geomatrix Consultants

Prep:

EPA 5030B

Project#:

8207.001

Analysis:

Type:

LCS

8015B

Diln Fac:

1.000

Lab ID: Matrix: QC215674 Water

Batch#:

81980

Units:

ug/L

Analyzed:

06/06/03

Analyte Spiked Result %REC Limits Gasoline C7-C12 1,017 102 80-120 1,000

Surrogate %REC Limits Trifluorotoluene (FID) 96 57-150 Bromofluorobenzene (FID) 86 65-144



i — v — cera, migrational,	Total Vola	tile Hydrocarbon	S alawa a salah s
		in the first paragraphy in the Applicable of Special Professional Professional Communication (Communication Co The Communication	ya waki waki waki kamana ma Mara ili maja ma kama ili maja ma kama ili maja ma kama ili maja maja maja maja ma Maja maja Maja maja maja maja maja maja
Lab #:	165651	Location:	Port of Oakland
Client:	Geomatrix Consultants	Prep:	EPA 5030B
Project#:	8207.001	Analysis:	8015B
Field ID:	ZZZZZZZZZZ	Batch#:	81980
MSS Lab ID:	165625-005	. Sampled:	06/03/03
Matrix:	Water	Received:	06/05/03
Units:	ug/L	Analyzed:	06/07/03
Diln Fac:	1.000		

Type:

MS

Lab ID:

QC215710

Analyte	MSS Result	Spiked	Result	%RE(] Limits
Gasoline C7-C12	372.9	2,000	2,266	95	76-120

Surrogate	%REC	Limits	
Trifluorotoluene (FID)	110	57-150	
Bromofluorobenzene (FID)	107	65-144	

Type:

MSD

Lab ID: QC215711

Analyte	Spiked	Result	%REC	Limits	RPD	
Gasoline C7-C12	2,000	2,243	94	76-120	1	20

Surrogate	%REC	Limits	
Trifluorotoluene (FID)	109	57-150	
Bromofluorobenzene (FID)	107	65-144	



Total Extractable Hydrocarbons Lab #: 165651 Location: Port of Oakland Client: Geomatrix Consultants Prep: EPA 3520C Project#: 8207.001 Analysis: EPA 8015B Field ID: GW-060503 Batch#: 82043 Matrix: Water Sampled: 06/05/03 Units: ug/L Received: 06/05/03 Diln Fac: 1.000 Prepared: 06/09/03

Type: ab ID: SAMPLE

165651-001

Analyzed:

06/12/03

Cleanup Method:

EPA 3630C

	Anal	.yte		Result			RL
Diesel	C10-C24			 2,100	LY		50

%REC Limits Surrogate Hexacosane 44-146

ype: ab ID: BLANK

QC215950

Analyzed:

06/11/03

Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	NT)	50

Surrogate %REC Limits Hexacosane 151 * >LR b 44-146

*= Value outside of QC limits; see narrative

L= Lighter hydrocarbons contributed to the quantitation

Y= Sample exhibits chromatographic pattern which does not resemble standard

b= See narrative

ND= Not Detected

RL≃ Reporting Limit

LR= Response exceeds instrument's linear range

Page 1 of 1



Total Extractable Hydrocarbons Lab #: 165651 Location: Port of Oakland Client: Geomatrix Consultants Prep: EPA 3520C Project#: 8207.001 Analysis: EPA 8015B Matrix: Water Batch#: 82043 Units: ug/L Prepared: 06/09/03 Diln Fac: 1.000 Analyzed: 06/12/03

Type: Lab ID:

QC215951

Cleanup Method: EPA 3630C

Analyte	Spiked			Limits
Diesel C10-C24	2,500	2,668	107	38-137

%REC Limits Hexacosane 44-146

[ype: lab ID: BSD

QC215952

Cleanup Method: EPA 3630C

Analyte	Spiked		*KEC	Limits Ri	· LIM
Diesel C10-C24	2.500	2.570	103	38-137 4	3 に

4			
Surrogate	%RE	C Limits	
Hexacosane	95	44-146	



		Purgeable 2	Aromatics by	GC/MS		
	Lab #:	165651	Location:	Port of Oak	land	-
.,	Client:	Geomatrix Consultants	Prep:	EPA 5030B	7 -	
•	Project#:	8207.001	Analysis:	EPA 8260B		
	Field ID:	GW-060503	Batch#:	82221		
	Lab, ID:	165651-001	Sampled:	06/05/03		
. .	Matrix:	Water	Received:	06/05/03	:	
	Units:	ug/L	Analyzed:	06/17/03	•	
	Diln Fac:	16.67				
					•	
1	Analyt	te Result		RL		
ı	MTBE	1,200		8.3		
	Benzene	610		8.3		
1	Toluene	2,500	*	8.3		
	Ethylbenzene	700	•	8.3		
	m,p-Xylenes	2;500	And the second s	8.3		
	o-Xylene	930		8.3		

Surrogate	%REC	Limits		
1,2-Dichloroethane-d4	106	77-129		
Toluene-d8	100	80-120	* A	• •
Bromofluorobenzene	99	80-123		



	Purgeable	Aromatics by GG	:/Ms
Lab #:	165651	Location:	Port of Oakland
Client:	Geomatrix Consultants	Prep:	EPA 5030B
Project#:	8207.001	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC216680	Batch#:	82221
Matrix:	Water	Analyzed:	06/16/03
Units:	ug/L	· .	

Analyte		Res	ult	RL		
MTBE		ND		 0.5		
Benzene		ND		 0.5	٠,	ŀ
Toluene		ND		0.5		. ,
Ethylbenzene		ND		0.5		f
m,p-Xylenes o-Xylene	•	ND		 0.5		
o-Xylene		ND		0.5		

Surrogate	%F	EC Limits				
1,2-Dichloroethane-d4	105			•		
Toluene-d8	. 99	80-120	% K	•		+ +
Bromofluorobenzene	102	80-123		• •		



Purgeable Aromatics by GC/MS

Lab #: 165651 Location: Port of Oakland Client: Geomatrix Consultants Prep: EPA 5030B

Project#: 8207.001 Analysis: EPA 8260B

Matrix: Water Batch#: 82221 Units: ug/L Analyzed: 06/16/03 Diln Fac:

1.000

Lab ID:

QC216677

•	,					
í	Analyte	Spiked	Result	%REC	Limits	
i	MTBE	50.00	52.24	104	69-124	
	Benzene	50.00	50.47	101	80-120	
	Toluene	50.00	51.55	103	80-120	
, .	Ethylbenzene	50.00	55.88	112	80-120	
	m,p-Xylenes o-Xylene	100.0	110.6	111	80-121	
, 1	o-Xylene	 50.00	55.32	111	80-120	

Surrogate	%REC	Limits		
1,2-Dichloroethane-d4	1.05	77-129		
Toluene-d8	103	80-120		· · · · · · · · · · · · · · · · · · ·
Bromofluorobenzene	101	80-123	· .	

BSD

Lab ID:

QC216678

Analyte	Spiked	Result	%REC	Limits	RPI	Lim
MTBE	50.00	52.86	106	69-124	1	20
Benzene	50.00	48.68	97	80-120	4	20
Toluene	50.00	50.71	101	80-120	2	20
Ethylbenzene	50.00	53.43	107	80-120	4	20
m,p-Xylenes	100.0	106.0	106	80-121	4	20
o-Xylene	50.00	53.57	107	80-120	3	20

Surrogate	%REC	Limits	
1,2-Dichloroethane-d4	105	77-129	
Toluene-d8	103	80-120	•
['] Bromofluorobenzene	101	80-123	



		Lead	
Lab #:	165651	Location:	Port of Oakland
Client:	Geomatrix Consultants	Prep:	EPA 3010
Project#:	8207.001	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	82012
Field ID:	GW-060503	Sampled:	06/05/03
Matrix:	Water	Received:	06/05/03
Units:	ug/L	Prepared:	06/09/03
Diln Fac:	1.000	Analyzed:	06/11/03

Туре	Lab ID	Result	RL		
SAMPLE	165651-001	140	3.0	•	
BLANK	QC215816	ND	3.0		



Lead Lab #: 165651 Location: Port of Oakland Client: Geomatrix Consultants Prep: EPA 3010 Project#: 8207.001 Analysis: EPA 6010B Analyte: Lead Batch#: 82012 Matrix: Water Prepared: 06/09/03 Units: ug/L Analyzed: 06/11/03 Diln Fac: 1.000

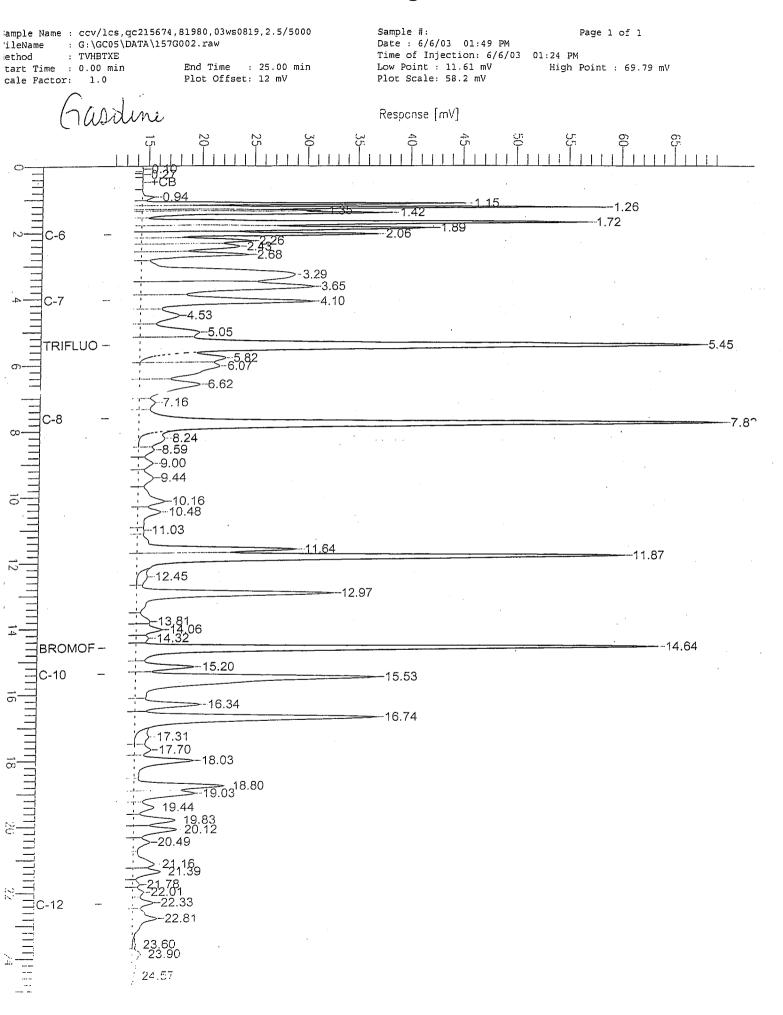
BS QC215817 100.0 99.70 100 68-123) Lim	RPD	Limits	%REC	Result	Spiked	e Lab ID	Type	
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100.0 91.10 91 68-123 9	27	9	68-123	91	91.10	100.0	QC215818	BSD	Ĺ



		Lead	
Lab #:	165651	Location:	Port of Oakland
Client:	Geomatrix Consultants	Prep:	EPA 3010
Project#:	8207.001	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	82012
Field ID:	ZZZZZZZZZ	Sampled:	. 06/04/03
MSS Lab ID:	165655-015 _.	Received:	06/04/03
Matrix:	Water	Prepared:	06/09/03
Units:	ug/L	Analyzed:	06/11/03
Diln Fac:	1.000		

Type Lab ID MSS Result Spil						
MS QC215819 <1.700 10	00.0 9	8.20	98 3	33-145		
MSD QC215820 10	00.0 9	5.00	95 3	33-145	3 4	13

Sample #: b1 Date: 6/7/03 06:45 PM Sample Name : 165651-001,81980 Page 1 of 1 : G:\GC05\DATA\157G047.raw FileName : TVHBTXE Method Time of Injection: 6/7/03 03:52 PM Low Point : -4.64 mV Start Time : 0.00 min End Time : 25.00 min High Point : 393.42 mV Scale Factor: 1.0 Plot Offset: -5 mV Plot Scale: 398.1 mV 6W-060503 Response [mV] 1.42 .26 -2.68 -3.29 C-7 4.11 4.55 5.23 TRIFLUO -5.45 -6.08 -6.60 -7.31 C-8 -9.38 -10.15 -10.47 <u>11.32</u> 11.63 11.87 -12.96 14.06 BROMOF -14.63 15.19 C-10 -15.52 5 -16.33 -16.73 17.27 17.71 -18.02 =19.01 18.80 -19.41 -19.81 --20.11 -20.48 C-12 -22.80



Sample Name : 165651-001,82043
FileName : G:\GC15\CHP\15

Start Time : 0.01 min

End Time : 31.91 min

Scale Factor: Plot Offset: 24 mV 0.0

Sample #: 82043

Date: 6/12/03 09:07 AM

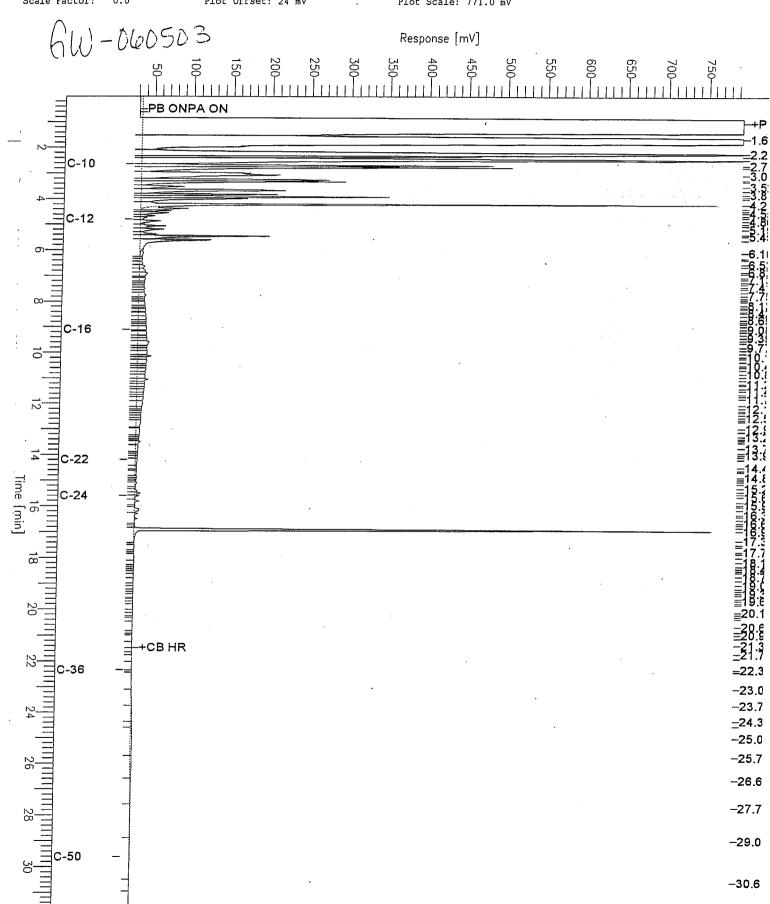
02:05 AM

Page 1 of 1

Time of Injection: 6/12/03

Low Point : 23.62 mV High Point: 794.64 mV

Plot Scale: 771.0 mV



mple Name : ccv,03ws0738,dsl

: G:\GC13\CHB\162B002.RAW

: BTEH160.MTH

leName

thod

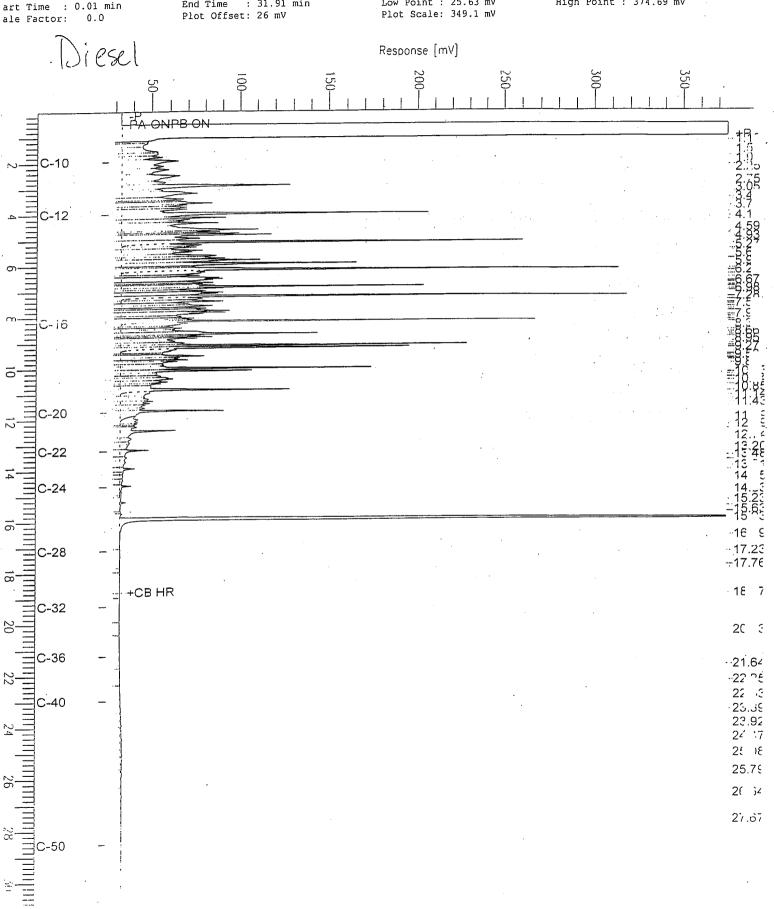
End Time : 31.91 min

Sample #: 500mg/L Date : 6/11/03 10:43 AM

Time of Injection: 6/11/03 10:06 AM Low Point: 25.63 mV High Po

High Point : 374.69 mV

Page 1 of 1



2101 Webster Street, 12th Floor - Oakland, CA 94612 Phone: 510-663-4100 Fax: 510-663-4141 Geomatrix Consultants Laboratory Comments and Log No.: proente 65703 Metals, TPHB, BJEX, *BTEX, MTDE BY Additional Comments ₽ 82606 かつので Method of Spipment: Page REMARKS 100 5 5 No. of Containers Time: Time: Date: Date: Deviese1^c 76 Total No. of Containers Fitered Soil (S), Water (W) Vapor (V), or Other (o) Relinquished by (Signature): Printed Name: Printed Name: Received by: 6185Company: Company: E.zavarin Results to: Silica Gel Cleanup ANALYSES Date: Time: Time: Date: (liO 1010M) m3 f08 bortse (leseid) mc ros borteM Method 8015m (Gasoline) Relinquished by (Signature): (Vino SHAY) MIS (Full Scan) Turnaround Time: Standard EPA Method 8260 Printed Name: Printed Name: Received by: Chain-of Custody Record EPA Method 8021 (Hal. VOCs only) Company: Company: EPA Method 8021 (Full Scan) Dale: Date: (45|67 Sample Number 6W-060503 Time: 2 Time: 2 TB-060503 Justs + Compliers Actinquisting by (Signature): Samplers (Signature:)
Elizalith Wille Dring & Tomptons Project No.: 8207.00 1515 Time Printed Name: Laboratory: 6/5/03 Date

16265

SOP Volume:

Client Services

Section:

1.1.2

Page:

l of l

Effective Date: Revision:

10-May-99 1 Number 3 of 3

Filename:

Filename: F:\qc\forms\cooler.wpd

F:\QC\Forms\QC\Cooler.wpd

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Rev. 1, 4/95

Login	#: 16565 Date Received: 6-5-03 Number of Coolers: Example: Ceomatrix Project: 8207.001 - Part	
Client	: Creomatrix Project: 8207.001 - Port	Of Raklan
A. 1.	Preliminary Examination Phase Date Opened: 6-5-03 By (print): 104 Windsor (sign) July 6. Did cooler come with a shipping slip (airbill, etc.)? YIf YES, enter carrier name and airbill number:	ES NO
3.	Were custody seals unbroken and intact at the date and time of arrival?	ES NO N
ے. 4.	Were custody papers dry and intact when received?	
5.	Were custody papers filled out properly (ink, signed, etc.)?	
6.	Did you sign the custody papers in the appropriate place?	
7.	Was project identifiable from custody papers?	ES 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	ES) NO
in the	Type of ice: Wet Temperature: 4.0	
1. 2. 3. 4. 5. 5. 7.	Login Phase Date Logged In: 6-5-03 By (print): Toy Windst (sign) July 4 Medical Describe type of packing in cooler: 1/2 Ziploc +4pe bag 5 Did all bottles arrive unbroken? Were labels in good condition and complete (ID, date, time, signature, etc.)? Did bottle labels agree with custody papers? Were appropriate containers used for the tests indicated? Were correct preservatives added to samples? Was sufficient amount of sample sent for tests indicated? Were bubbles absent in VOA samples? If NO, list sample Ids below. Was the client contacted concerning this sample delivery? YIFYES, give details below. Who was called? By whom? Date:	ES NO ES NO ES NO ES NO ES NO
Additio 8 –	Sample -002 one vou Wair bubble I comin c	diameter
	· · ·	



APPENDIX C

Uniform Hazardous Waste Manifests and Certificates of Destruction



99 South Austin Road/WEIGHING LOCATION inteca, CA 95336 idfill: (209) 982-4298 / WEIGHING LOCATION

purce Recovery: (209) 982-4936 001576 FOSS ENVIRONMENTAL BRIAN ECKHOFF

P.O. Box 6336 Stockton, CA 95206 Main Office: (209) 466-4482 Fax: (209) 465-0631

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1405 FERRY POINT 94501 ALAMEDA, CA Contract: 1576#

72,280.00 LB 00 Gross Weight 31,100.00 LB Stored Tare Weight Net Weight

41,180.00 LB 20.59 TN

CLASS II SOIL 20.59 TN

WEIGHMASTER CEXTRICATE THIS IS TO CERTIFY That the following described commodity was weighed, measured, or counted by a weightnuster, whose signature is an ithis certificate, who is a recognized authority of occurrency, as prescribed by Chapter it (commending with Section 12700) or Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

MANIFEST #00009

DRIVER'S SIGNATURE

WASTE MANIFEST F.A.L.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O.O	WASTE MANIFEST	1	US EPA ID No. 1 . O . O . T . 5 . 5 . 7 .	Manifest Doc. N	- 1		6/25/2003	
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11. Weste Shipping Name and Description 12. Containers 13. Total No. Typo Country Allied Waste/Formard					(20	9) 466-4 482	<u>}</u>	
No. Type Country We Note PRAZARDOUS HASTE, SOLLID (HYDEOCARBON SOLL) D. O. J. D. T. O. O. O. D. D. D. D. O. O. D. D. D. D. O. O. O. D. D. D. D. D. O. O. O. D. D. D. D. D. D. O. O. O. D.	MANTECEL CA 95336		C.A.D.9.9.0.1	9.4.1.3.3				
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99 South Austin Road/WEIGHING LOCATION Inteca, CA 95336 Indill: (209) 982-4298 / WEIGHING LOCATION Source Recovery: (209) 982-4936

on 1576
FOSS ENVIRONMENTAL
BRIAN ECKHOFF
1605 FERRY POINT
ALAMEDA, CA 94501
Contract: 1576#

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P.O. Box 6336 Stockton, CA 95206 Main Office: (209) 466-4482 Fax: (209) 465-0631

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CLASS II SOIL

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Inbound - SCALE TICKET

WEIGHMASTER CERTIFICATE THIS IS TO CERTIFY That the following described commodity was weighted, measured, or counted by a weight master, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of DMIsion 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food, and Agriculture.

MANIFEST #00008

DRIVER'S SIGNATURE

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199 South Austin Road/WEIGHING LOCATION anteca, CA 95336 andfill: (209) 982-4298 / WEIGHING LOCATION Source Recovery: (209) 982-4936

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FOSS ENVIRONMENTAL
BRIAN ECKHOFF
1605 FERRY POINT
ALAMEDA, CA 94501
Contract: 1576#

P.O. Box 6336 Stocklon, CA 95206 Main Office: (209) 466-4482 Fax: (209) 465-0631

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Weight

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Inbound - SCALE TICKET

21.42 TN 11 CLASS II SOIL

WEIGHMASTER CERTIFICATE THIS IS TO CERTIFY That the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is for this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commending with Section 12700) of Division 5 of the California Business and Professions Code, pathinistered by the Division of Measurement Standards of the California Department of Food and Agriculture.

MANIFEST #00007

DRIVER'S SIGNATURE

2am

S.	NON-HAZARDOUS WASTE MANIFEST	1. Gonoralor's U C. A. L. G. O			Manifest D		2. Page 1 of 1			6/25/2	ŏaz.	
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99 South Austin Road/WEIGHING LOCATION anteca, CA 95336 undfill: (209) 982-4298 / WEIGHING LOCATION Source Recovery: (209) 982-4936

001576
FOSS ENVIRONMENTAL
BRIAN ECKHOFF
1605 FERRY POINT
ALAMEDA, CA 94501
Contract: 1576#

P.O. Box 6336 Stockton, CA 95206 Main Office: (209) 466-4482 Fax: (209) 465-0631

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18.53 TN 11 CLASS II SOIL

WEIGHMASTER CERTIFICATE THIS IS TO CERTIFY That the following described commodity was weighted, measured, or counted by a weightmoster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 1270D) of Division 5 of the California Business and Professions Code, authority by the Division of Measurement Standards of the California Department of Food and Agriculture.

MANIFEST #00006

DRIVER'S SIGNATURE

Sue S

WASTE MANIFEST	1. Generalor's US EPA ID No.	Manifest Doc.			6/25	/2003	ı.
3. Generator's Name and Mailing Address			<u> </u>		41 mm	, 2003	•
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0211100, CA 94607 4. Generators Phono (510) 627-110	o o						
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7. Transporter 2 Company Name	8. US EP	'A ID Number	B. Transp	orter's Phor			
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Designated Facility Name and She Address		A ID Number	C. Facility	a Phone ,	TO THE OWNER.		
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15. Special Handling Instructions and Additional Info	maton STEAR PROPER PE	y service —	DIG (510)-			nd Above	
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99 South Austin Road/WEIGHING LOCATION anteca, CA 95336 indfill: (209) 982-4298 / WEIGHING LOCATION source Recovery: (209) 982-4936

urce Recovery: (209) 982-4936
001576
FOSS ENVIRONMENTAL
BRIAN ECKHOFF
1605 FERRY POINT
ALAMEDA, CA, 94501
Contract: 1576#

P.O. Box 6336 Stockton, CA 95206 Main Office: (209) 466-4482 Fax; (209) 465-0631 243413

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26 June 2002 12:26 pm

26 June 2002 12:26 pm

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DAKLAND

Inbound - SCALE TICKET

26:45

Gross Weight Tare Weight

Net Weight

72,160.00 LB 32,800.00 LB

39,360.00 LB 19.68 TN

19.68 TN 11 CLASS II SOIL

WEIGHMASTER CERTIFICATE THIS IS TO CERTIFY That the following described commodity was weighted, measured, or counted by a weightmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

MANIFEST #000005

DRIVER'S SIGNATURE

WASTE MANIFEST	1. Generalor's US	0.0.1.5.5.7	Manifest Doc. N 1 0 0 0 0 5	1 . ~			6/25	/20	03
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CANTAND, CA 94607									
		UC FDa I	D Number	.					
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99 South Austin Road/WEIGHING LOCATION inteca, CA 95336 ndfill: (209) 982-4298 / WEIGHING LOCATION source Recovery: (209) 982-4936

001576
FOSS ENVIRONMENTAL
BRIAN ECKHOFF
16D5 FERRY POINT
ALAMEDA, CA 94501
Contract: 1576#

P.O. Box 6336 Stockton, CA 95206 Main Office: (209) 466-4482 Fax: (209) 465-0631

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Inbound - SCALE TICKET

or Gross Weight 56,500.00 LB Stored Tare Weight 31,100.00 LB

Net Weight 35,400.00 LB 17.70 TN

17.70 TN 11 CLASS II SOIL

WEIGHMASTER CEXTIFICATE THIS IS TO CERTIFY That the following described commodity was weighted, measured, or counted by a weightnessor, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

MANTEFET #0000

DRIVER'S SIGNATURE

NON-HAZARDOUS	1. Generalor's US E			No. 2. Page			
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7. Transporter 2 Company Name	8.	US EPA	D Number				
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99 South Austin Road/WEIGHING LOCATION anteca, CA 95336 Indfill: (209) 982-4298 / WEIGHING LOCATION source Recovery: (209) 982-4936

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FOSS ENVIRONMENTAL BRIAN ECKHOFF 1605 FERRY POINT ALAMEDA, CA 94501 Contract: 1576#

P.O. Box 6336 Stockton, CA 95206 Main Office: (209) 466-4482 Fax: (209) 465-0631

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Gross Weight 70,360.00 LB 32,600.00 LB Stored Tare Weight

37,760.00 LB 18.88 TN Net Weight

CLASS II SOIL TN 18.88

WEIGHMASTER CERTIFICATE THIS IS TO CERTIFY That the following described commodity was weighted, measured, or counted by a weightmaster, whose signature is on this certificate, who is a recognized cultivative of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 6 of the Collisional Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture,

MANIFEST #00003

DRIVER'S SIGNATURE

Inbound - SCALE TICKET

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99 South Austin Road/WEIGHING LOCATION nteca, CA 95336 idfill: (209) 982-4298 / WEIGHING LOCATION jource Recovery; (209) 982-4936

OO1578
FOSS ENVIRONMENTAL
BRIAN ECKHOFF
1805 FERRY POINT
ALAMEDA, CA 84501
Contract: 1876#

P.O. Box 6336 Stockton, CA 95206 Main Office: (209) 466-4482 Fax: (209) 465-0631

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Inbound - SCALE TICKET

Gross Weight 73,300.00 LB Tare Weight 32,100.00 LB

Net Weight 41,200.00 LB 20.60 TN

20.60 TN 11 CLASS II SOIL

WEIGHMASTEE CERTIFICATE .THIS IS TO CERTIFY That the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commending with Section 12700) of Division 5 of the Controlled Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

MANIFEST #00002

DRIVER'S SIGNATURE

WASTE MANIFEST	1. Generators US EPA ID No. C.A.L.O.O.O.O.O.1.5	1	.0 2	1		6/25/2003	
3. Generator's Name and Mailing Address PORT OF CAKLAND 5.30 HATER ST.	P. W. B. C. C. G. G. G. T. S.	13 17 12 0 10 10	.0 .2	<u> </u>		9/ 25/ 2UN3	
CARLAND, CA 94607							
5. Transporter 1 Company Name		JS EPA ID Number		Fransporter's	Phone		
	1				; .)	·.	
7. Transporter 2 Company Name	8- U	JS EPA ID Number	В. Т	ransporter's	Phone:		<u> </u>
9. Designated Facility Name and Sile Address		IS EPA ID Number		acility's Phor	TÉ		-
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11. Waste Shipping Name and Description	* 1			12 Cor No.	itainers Type	13. Total Quantity	U, W/
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D. Additional Descriptions for Materials Listed Above	ve		E. Ha	indling Code	for Wast	as Listed Above	
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15, Special Handling Instructions and Additional info						**	
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COES ENVIRONPENTAL DERVICES COB (AP30389 PO (A)	WEAR PROPER 24 HOUR EMERGE P30389-01 TO 6 03-	THE POS SUBJECT TO TESTINAL	— {51 20127	5		l of Hazardous Wes Month Day	
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T/S/D/F COPY



999 South Austin Road/WEIGHING LOCATION Agnteca, CA 95336

dfill: (209) 982-4298 / WEIGHING LOCATION ource Recovery; (209) 982-4936

O01576
FOSS ENVIRONMENTAL
BRIAN ECKHOFF
1605 FERRY POINT
ALAMEDA, CA 94501
Contract: 1576#

P.O. Box 6336 Stockton, CA 95206 Main Office: (209) 466-4482 Fax: (209) 465-0631

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Inbound - SCALE TICKET

Gross Weight stored Tare Weight 77,060.00 LB

31,340.00 LB

Net Weight 45,720.00 LB 22.86 TN

22.86 TN 11 CLASS II SOIL

50

"FEGHMASTER CERTIFICATE. THIS IS TO CERTIFY That the following described commodity was welched, measured, or counted by a weightnaster, whose algorithms is a meagnized cuthotity of acquirecy, as prescribed by Chapter 7 (commercing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

MANIFEST #00001

DRIVER'S SIGNATURE

Dam

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	VASTE MANIFEST	CALQ). 0. 0. 1. 5. 5.	7. 1. 0. 0. 0. 0.	1 of	1		6/25/2	003
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	ar 2 Company Name		8, US EPA	ID Number		nsporter a		· 1 53	غد
LEGO W.	d Facility Name and Site Address OVERTURY, IRC. // 1717 81	de Cold		ID Number		ilhy's Phon	656 (56	0028404 2-SEP425	1019 445
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	Eding Instructions and Additional In BOXINESTRAL SERVICE 30369 PO (303.70	R PROPER PLE UR EMERICACY TO \$ 03-147-	SERVICE	(510)	-74 <u>9-</u> 1	1350		
FOSS KHYI Kaba (Alfa	ROMENTAL SERVICE 10389 PO #	E. — 24 BC AP30389-01	TO # 03-127-	SERVICE 26 WO # 20	(510) 1275			l of Hazarcous	Waste
FOSS RHVI FOR A AND 16. GENERATO Primed/Type	PR'S CERTIFICATION: I confry the red Name	AP30309-01	TO # 03-107-	SERVICE 26 WO # 20	(510) 1275				Waste Ley
FOSS RHVI FOR A AND 16. GENERATO Primed/Type	PA'S CERTIFICATION: I certify the did Name 1 Acknowledgement of Receipt of did Name	AP30389-01 AP30389-01 Malerials described above	TO # 03-107-	26 WO 20	(510) 1275			Month (29y . 7 /
16. GENERATO Primed/Type Primed/Type 18. Transporter	PA'S CERTIFICATION: I certify the ad Name 1 Advanced germent of Receipt of ad Name 2 Acknowledgement of Receipt of	AP30389-01 AP30389-01 Materials described above	TO 103-117-	SERVICE 26 WO # 20	(510) 1275			Month (2эу . 7 /
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DAY OR NIGHT TELEPHONE (510) 235-1393

CERTIFICATE

CERTIFIED SERVICES COMPANY 255 Parr Bouleward - Richmond, California 94801

NO.3969

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1.7	OB NO.	
1	J 110.	52T0551

	FOR: ECOLOGY CONTROL INTONK NO. 30724 OAKIANO,
1	LOCATION: RICHMOND, CA DATE: TIME:
-	TEST METHOD VISUAL GASTECH/1314 SMPN LAST PRODUCT DIESEL
	This is to certify that I have personally determined that this tank is in accordance with the Americal Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.
	TANK SIZE 1,000 GAL CONDITION SAFE FOR FIRE
	REMARKS: CXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1% ECOLOGY CONTROL INDUSTRIES HERBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY. ECOLOGY CONTROL INDUSTRIES HAS THE APROPRIATE PERMITS FOR, AND HAS ACCEPTED THE TANK SHIPPED TO US FOR PROCESSING.
	In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.
	STANDARD SAFETY DESIGNATION SAFE FOR MEN: Means that In the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissable concentrations; and (c) In the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the inspector's certificate. SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the inspector.
	The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

TITLE

DAY OR NIGHT TELEPHONE (510) 235-1393

CERTIFICATE

CERTIFIED SERVICES COMPANY

ECOLOGY CONTROL INTANK NO. _____

255 Parr Boulevard - Richmond, California 94801

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TANK SIZE	10,000 GAL	CONDITI	SAFE FOR FIRE	
REMARKS:	OXYGEN 20.8% LOWER EXPLOSE HERBY CERTIFIES THAT THE AB AND THEREFORE DESTROYED A	OVE NUMBERED TANK HA	S BEEN CUT OPEN. PROCESSE	
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	THE TANK SHIPPED TO US FOR I			
In the event of an immediately stop	y physical or atmospheric changes all hot work and contact the under	affecting the gas-free co	nditions of the above tanks, or alld for 24 hours if no physica	If in any doubt,

STANDARD SAFETY DESIGNATION

changes occur.

SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissable concentrations; and (c) in the judgment of the inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the inspector's certificate.

SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the inspector's certificate, and further, (c) All adjacent spaces have either been cleaner sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the inspector.

The undersigned repres which it was issued.	entative acknow	ledges recelpt of this certific	cate and understands the condition	ons and limitations	under
EPRESENTATIVE		TITLE	INSPECTOR	N/X · ·	
			**************************************		C.

See Instructions on back of page 6.

Department of Yoxic Substant Sperumente, Californ

A	1	1. Generator's US	EDA ID No.	Manifesta	ocument No.	2. Pone 1		7. 1
1	UNIFORM HAZARDOUS					1	information	ired by teder
ı	WASTE MANIFEST	KUALLOO	1010/155	71910	1817	6 0,1		4 0/ 1 0001
	3. Generator's Name and Mailing Address Port OF Cakland			,			观题	O.A. G
	580 water St Oakland Ca 99	7						2491
	4. Generator's Phone (570) 621-1	4601	·					
	5. Transporter 1 Company Name	100	6. US EPA ID Number					
	Ecology Control Industries	_		8004				
		<u> </u>	A D 9 8 2 8. US EPA ID Number	0301	73			0_20
İ	7. Transporter 2 Company Name		8, US EPA ID Number			le da rescue en d <u>e su</u>		
	•	1	11111	1111				700
	9. Designated facility Name and 51th Address Ecology Control Industries	1	O. US EPA ID Number		C. S.			
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Ĺ	16. GENERATOR'S CERTIFICATION: I hereby dec marked, and labeled, and are in all respects	clare that the controls of in proper condition for i	his consignment are fully remport by highway ac	or volume: DDRESS: N & 2 7 and accorately di-	s are apr 209 EV 055 1 107 20 scribed above bls internation	proximate TUS 4 8+ Company ASK Company of the proper shipping nated and national government of the proper shipping nated and national government.	Pok be V PL O mo and are alo ment regulation	3-MT
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APPENDIX D

Backfill Analytical Laboratory and Geotechnical Testing Reports



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

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

ANALYTICAL REPORT

Prepared for:

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

Date: 11-JUN-03

Lab Job Number: 165557 Project ID: 8207.001

Location: 1195 Maritime Berth 23

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:

s Manager

This package may be reproduced only in its entirety.

NELAP # 01107CA

Page 1 of 14

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		Total Volatile	Hydrocarbons	
	Lab #:	165557	Location:	Port of Oakland
	Client:	Geomatrix Consultants	Prep:	EPA 5030B
	Project#:	8207.001	Analysis:	8015B
	Field ID:	FILL-060303	Batch#:	81870
	Matrix:	Soil	Sampled:	06/03/03
	Units:	mg/Kg	Received:	06/03/03
	Basis:	as received	Analyzed:	06/03/03
!	Diln Fac:	1.000		

SAMPLE

Lab ID:

165557-001

,I				
Analyte		Result	RL	
Gasoline C7-C12	N	D	0.99	
Surrogate	%REC	Limits		
Trifluorotoluene (FID)	105	56-144		
Bromofluorobenzene (FID)	109	51-142	·	

Type:

BLANK

Tab ID

00215207

Gasoline C7-C12	N	D	1.0	
Surrogate	%REC	Limits		
Trifluorotoluene (FID)	103	56-144		·
Bromofluorobenzene (FID)	110	51-142		•

ND= Not Detected
L= Reporting Limit
Page 1 of 1



	Total Vola	tile Hydrocarbo	DIRE
Lab #:	165557	Location:	Port of Oakland
Client:	Geomatrix Consultants	Prep:	EPA 5030B
Project#:	8207.001	Analysis:	8015B
Type:	LCS	Basis:	as received
Lab ID:	QC215209	Diln Fac:	1.000
Matrix:	Soil	Batch#:	81870
Units:	mg/Kg	Analyzed:	06/03/03

Gasoline C7-C12 5.000 4.704 94 80-120	Analyte	Spiked		%RE		
	Gasoline C7-C12	5.000	4.704	94	80-120	

Surrogate	%REC	T.imits		
Trifluorotoluene (FID)	115	56-144	,	
Bromofluorobenzene (FID)	103	51-142	 	



	Total Vola	tile Hydrocarbo	DIE
Lab #:	165557	Location:	Port of Oakland
Client:	Geomatrix Consultants	Prep:	EPA 5030B
Project#:	8207.001	Analysis:	8015B
Field ID:	ZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	165552-005	Batch#:	81870
Matrix:	Soil	Sampled:	06/02/03
Units:	mg/Kg	Received:	06/02/03
Basis:	as received	Analyzed:	06/03/03

MS

Lab ID:

QC215229

Analyte	MSS	Result	Spiked	Result	%RE	C Limits
Gasoline C7-C12		<0.06100	10.53	9.810	93	24-134
Surrogate	SREC	Limits				
Trifluorotoluene (FID)	122	56-144				
, IIIII						

Tyne:

MSD

Lab ID:

QC215230

Analyte		Spiked	Result		%RE	C Limits	RPD	Lim
Gasoline C7-C12		10.99	10.	.42	95	24-134	2	32
Surrogate	%REC	Limits						
Trifluorotoluene (FID)	125	56-144						
Bromofluorobenzene (FID)	117	51-142						



	Total Extra	ctable Hydrocar	fbons
Lab #:	165557	Location:	Port of Oakland
Client:	Geomatrix Consultants	Prep:	EPA 3550
Project#:	8207.001	Analysis:	EPA 8015B
Field ID:	FILL-060303	Batch#:	81951
Matrix:	Soil	Sampled:	06/03/03
Units:	mg/Kg	Received:	06/03/03
Basis:	as received	Prepared:	06/05/03
Diln Fac:	1.000	Analyzed:	06/06/03

SAMPLE

lab ID:

165557-001

Cleanup Method: EPA 3630C

	Analyte	1	Result	RL	
Diesel	C10-C24		25 H Y	1.0	

Sur	rogare	%REC	Limits		
Hexacosane		93	36-141	,	

'ype:

BLANK

Cleanup Method: EPA 3630C

QC215569

Analyte Result RL						
	***********	202-00000000	••••••		***************************************	
G10 G04		Ana.	.yte x	esult kt		
	710	GO 4) III)		0.00	

Surrogate	%REC	Limits	
Hexacosane	95	36-141	

age 1 of 1

H= Heavier hydrocarbons contributed to the quantitation

Y= Sample exhibits chromatographic pattern which does not resemble standard

D= Not Detected

L= Reporting Limit

Chromatogram

Sample Name: 165557-001sg,81951

FileName : G:\GC15\CHB\156B037.RAW

: BTEH156.MTH Method

Start Time : 0.01 min Scale Factor:

: 31.91 min End Time

Plot Offset: 20 mV

Page 1 of 1

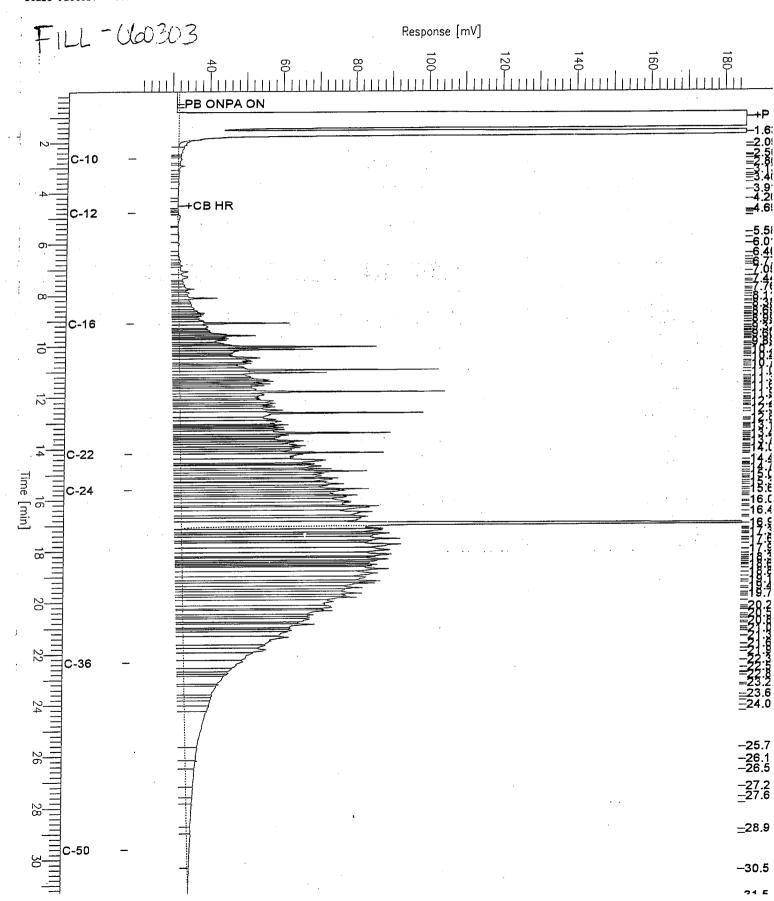
Sample #: 81951 Date: 6/6/03 12:24 PM

Time of Injection: 6/6/03 11:49 AM

Low Point : 20.06 mV

High Point: 185.59 mV

Plot Scale: 165.5 mV



Chromatogram

ample Name : ccv,03ws0738,dsl

: G:\GC11\CHA\157A002.RAW

ethod tart Time : 0.01 min

ileName

: ATEH157.MTH

: 31.91 min End Time Plot Offset: 20 mV

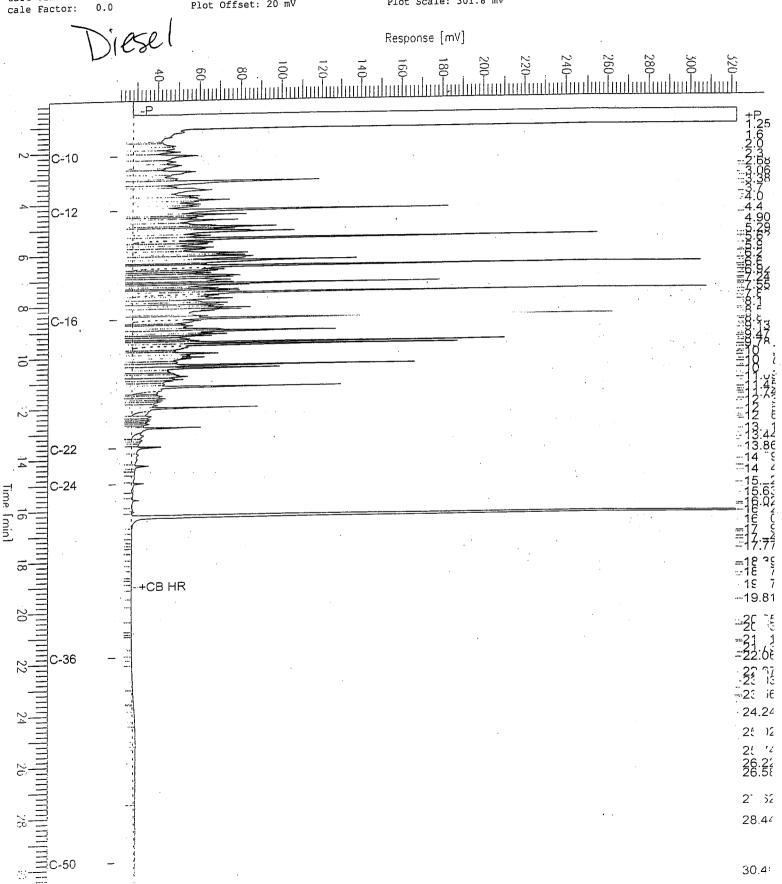
Sample #: 500mg/L Date: 6/6/03 10:57 AM

Time of Injection: 6/6/03 09:09 AM

High Point: 322.21 mV

Page 1 of 1

Low Point : 20.37 mV Plot Scale: 301.8 mV





Total Extractable Hydrocarbons Port of Oakland Location: 165557 Lab #: EPA 3550 Geomatrix Consultants Prep: Client: EPA 8015B Analysis: 8207.001 Project#: Diln Fac: 1.000 LCS Type: 81951 Batch#: Lab ID: QC215570 06/05/03 Prepared: Soil Matrix: 06/06/03 Analyzed: mg/Kg Units: as received Basis:

leanup Method: EPA 3630C

PROCESSES CONTROL CONT		Result	%RE	C Limits	
Diesel C10-C24	50.30	37.12	74	49-129	

			Limits
_			Limits
- 60			13M1CS
	Surrogade		
,	Surrogate		
			26 111
	71	1	46 = 141
	HAYACOSANE //	,	20 744
	nexacondiae		



	Total Extra	ctable Hydrocar	
Lab #:	165557	Location:	Port of Oakland
Client:	Geomatrix Consultants	Prep:	EPA 3550
Project#:	8207.001	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZ	Batch#:	81951
MSS Lab ID:	165624-001	Sampled:	06/04/03
Matrix:	Soil	Received:	06/05/03
Units:	mg/Kg	Prepared:	06/05/03
Basis:	as received	Analyzed:	06/06/03
Diln Fac:	1.000		

'ype:

MS

Lab ID:

QC215571

Analyte	MSS	Result	Spiked		esult	67(24)	. Diminis	
Diesel C10-C24		8.382	49.64		55.36	95	32-134	
D10001 010 01								
Surrogate	2.5	PO Timite						
bulloyace	₩.			***************************************	*******************	000000000000000000000000000000000000000	***************************************	

36-141

ype:

Hexacosane

MSD

Lab ID:

QC215572

Analyte	Spiked	Result	%REC	Limits	RPI) Lim
Diesel C10-C24	49.66	52.56	89	32-134	5	48

Surrogate	%REC	Limits
Hexacosane	78	36-141



			Purgea	ble Aro	ematics by G	C/MS			
1	Lab #:	165557	<u></u>		Location:		1195 Maritime	Berth 23	3
	Client:	Geomatrix Cons	sultant	S	Prep:		EPA 5030B		
	Project#:	8207.001			Analysis:		EPA 8260B		
J	Field ID:	FILL-060303			Diln Fac:		0.9804		
	Lab ID:	165557-001			Batch#:		81883		
	Matrix:	Soil			Sampled:		06/03/03		
		ug/Kg			Received:		06/03/03		
	Basis:	as received			Analyzed:		06/03/03		
	Analyt	te	***************************************	Result	· · · · · · · · · · · · · · · · · · ·	RL			
	MTBE		ND			4.9			
1	Benzene	•	ND		A	4.9			
	Toluene		ND			4.9			
1	Ethylbenzene		ND			4.9	* * *		
	m,p-Xylenes		ND		ender Ender de la companya de la companya de la companya de la companya de la companya de la companya de la companya	4.9 4.9			· .
. /L	o-Xylene		ND			4.7			
	Surroga		%REC	Limits					
	1,2-Dichloroethan		96 103	76-130				ranges to	
	Toluene-d8		103	80-120	e e e				
L	Bromofluorobenzen	<u>те</u>	97	76-125			<u> </u>		



	Purgeable	Aromatics by GC	:/MS
Lab #:	165557	Location:	1195 Maritime Berth 23
Client:	Geomatrix Consultants	Prep:	EPA 5030B
Project#:	8207.001	Analysis:	EPA 8260B
Type:	BLANK	· Basis:	as received
Lab ID:	QC215272	Diln Fac:	1.000
Matrix:	Soil	Batch#:	81883
Units:	ug/Kg	Analyzed:	06/03/03

Analyte	Result	RL		
MTBE	ND	5	. 0	
Benzene	ND	5	.0	
Toluene	ND	5	.0	ļ
Ethylbenzene	ND	5	.0	!
m,p-Xylenes	ND .		.0	i
Ethylbenzene m,p-Xylenes o-Xylene	ND	5	.0	

1,2-Dichloroethane-d4 88 76-130 Toluene-d8 102 80-120 Bromofluorobenzene 94 76-125	Surrogate	%REC	Limits		
	1,2-Dichloroethane-d4	88	76-130	•	
Bromofluorobenzene 94 76-125	Toluene-d8	102	80-120	•	•
	Bromofluorobenzene	94	76-125		



		Purgeable 1	Aromatics by GO	C/MS
,	Lab #:	165557	Location:	1195 Maritime Berth 23
'n	Client:	Geomatrix Consultants	Prep:	EPA 5030B
-	Project#:	8207.001	Analysis:	EPA 8260B
J	Type:	LCS	Basis:	as received
	Lab ID:	QC215271	Diln Fac:	1.000
1	Matrix:	Soil	Batch#:	81883
}	Units:	ug/Kg	Analyzed:	06/03/03

Analyte	Spiked	Result	%RE(7 Limits
Benzene	50.00	46.09	92	78-120
Toluene	50.00	47.98	96	79-120

	Surrogate	%REC	Limits		
د.	1,2-Dichloroethane-d4	87	76-130	,	
	Toluene-d8	. 102	80-120		
	Bromofluorobenzene	89	76-125		
- 1				 	



	Purgeable	Aromatics by GC	C/MS
Lab #:	165557	Location:	1195 Maritime Berth 23
Client:	Geomatrix Consultants	Prep:	EPA 5030B
Project#:	8207.001	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Diln Fac:	0.9615
MSS Lab ID:	165552-001	Batch#:	81883
Matrix:	Soil	Sampled:	06/02/03
Units:	ug/Kg	Received:	06/02/03
Basis:	as received	Analyzed:	06/03/03

MS

Lab ID:

QC215274

Analyte	MSS Result	Spiked	Result	%RE	C Limita
Benzene	<0.07800	48.08	41.14	86	55-121
Toluene	<0.1900	48.08	39.73	83	44-125

Surrogate	%REC	Limits			
1,2-Dichloroethane-d4	97	76-130	·	•	1
Toluene-d8	103	80-120	•		
Bromofluorobenzene	99	76-125		 	

Type:

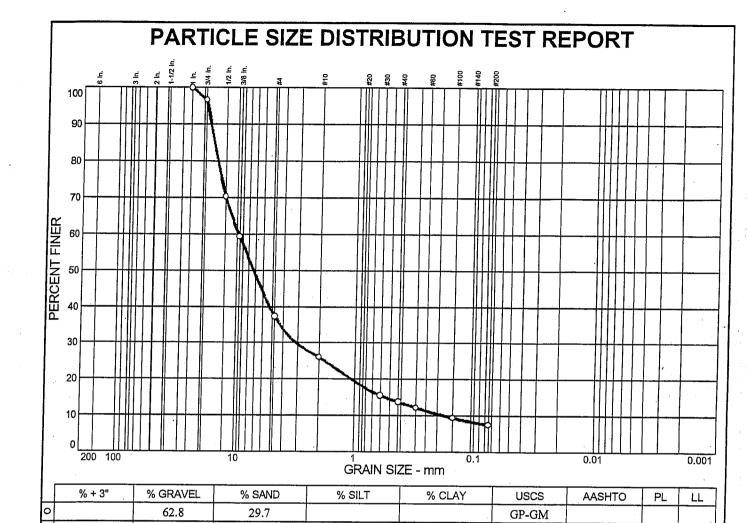
MSD

Lab ID:

QC215275

•					**********		
Analyte	Spiked	Result	%RE	2 Limits	RPD	Lin	
Benzene	48.08	40.91	85	55-121	1	20	
Toluene	48.08	40.54	84	44-129	2	20	

Surrogate	%REC	Limits	
1,2-Dichloroethane-d4	99	76-130	
Toluene-d8	103	80-120	
Bromofluorobenzene	95	76-125	



SIEVE	PERCENT FINER				
inches size	0				
1 3/4 1/2 3/8	100.0 96.6 70.3 59.3				
>		GRAIN SIZE	Ξ ,		
D ₆₀	9.73	GRAIN SIZE	<u> </u>		
D ₆₀		GRAIN SIZE			
1	9.73	GRAIN SIZE	=		
D ₃₀	9.73 3.09 0.178	GRAIN SIZE			
D ₃₀	9.73 3.09 0.178				

SIEVE	PERCENT FINER						
number size	0						
#4 #10 #30 #40 #50 #100 #200	37.2 26.0 15.5 13.8 12.2 9.4 7.5	•					

SOIL DESCRIPT	ION
O Greenish Gray 1	Poorly Graded GRAVEL with
Clay and Sand	

REMARKS:		

o Source: Fill-071503

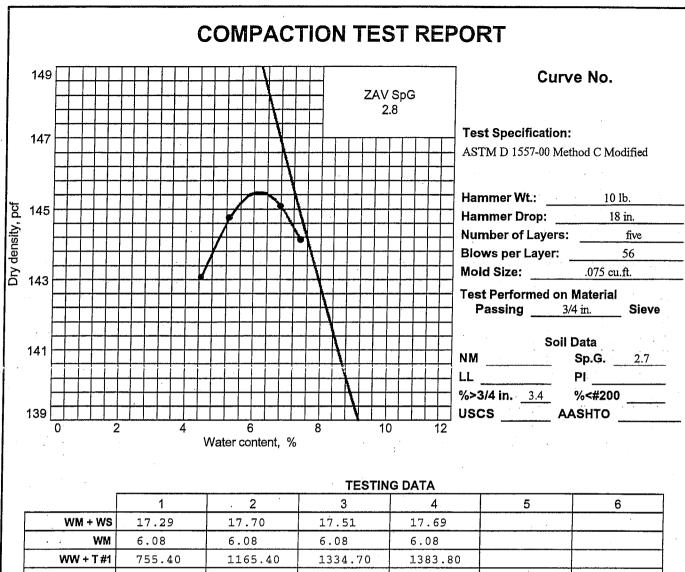
COOPER TESTING LABORATORY

Client: Geomatrix

Project: Port of Oakland-Berth 23 - 8207.002

Project No.: 109-366

Plate



			1	1 7 1	5	U
WM + WS	17.29	17.70	17.51	17.69		
ww.	6.08	6.08	6.08	6.08		
WW + T #1	755.40	1165.40	1334.70	1383.80		
WD + T #1	727.20	1101.20	1275.80	1299.10		
TARE #1	96.90	156.30	161.00	155.80		
WW + T #2			-		. •	
WD + T #2						
TARE #2						
MOISTURE	4.5	6.8	5.3	7.4		
DRY DENSITY	143.1	145.1	144.8	144.1		

TEST RESULTS	Material Description		
Maximum dry density = 145.5 pcf	Greenish Gray Poorly Graded GRAVEL with Clay and Sand		
Optimum moisture = 6.1 %			
Project No. 109-366 Client: Geomatrix	Remarks:		
Project: Port of Oakland-Berth 23 - 8207.002			
● Source: Fill-071503			
COMPACTION TEST REPORT			
COOPER TESTING LABORATORY	Figure		