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Alameda County Environmental Health

## P&D ENVIRONMENTAL, INC. 55 Santa Clara Avenue, Suite 240 Oakland, CA 94610 (510) 658-6916

March 12, 2010 Report 0494.R1

Mr. Michael Roberts City Of Emeryville 1333 Park Avenue Emeryville, CA 94608

SUBJECT: UNDERGROUND STORAGE TANK REMOVAL REPORT 1550 Park Avenue Emeryville, CA

Dear Mr. Roberts:

P&D Environmental, Inc. (P&D) is pleased to present this report documenting the removal of one 1,400-gallon capacity underground storage tank (UST) from the subject site. Based on the type of petroleum hydrocarbons detected in and beneath the UST, the UST formerly contained heating oil. The UST was removed from the site on February 8, 2010. A Site Location Map (Figure 1), a Site Plan (Figure 2) and a Site Plan Detail (Figure 3) showing the locations of the UST at the site are attached with this report.

All sample collection was performed under the supervision of a professional geologist. This report is prepared in accordance with guidelines set forth in the document "Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites" dated August 10, 1990 and "Appendix A - Workplan for Initial Subsurface Investigation" dated August 20, 1991.

## BACKGROUND

On or about November 6, 2009 an UST was discovered adjacent to the building located at 1550 Park Avenue in Emeryville, California during excavation for redevelopment and re-surfacing of the sidewalk and adjacent street. The street, curb and gutter adjacent to the south side of the UST were excavated to a depth of approximately four feet below grade as part of the redevelopment project. The top of the UST was encountered at a depth of approximately one foot below grade, and the UST was measured to be approximately 10 feet long. No pipes were observed to be connected to the UST. However, an opening in the top of the tank allowed access to the UST interior. The UST was measured to be approximately 5 feet in diameter. The UST was filled almost entirely with water and a layer of floating black, viscous fluid that exhibited a strong oily odor and that resembled Bunker C heating oil.

### FIELD ACTIVITIES

### **UST Content Characterization**

On December 9, 2009 approximately 700 gallons of oily water was pumped from the UST by Clearwater Environmental, Inc. (Clearwater) of Union City, California in preparation for UST removal. The fluid was hauled from the site as a non-RCRA hazardous waste liquid by Clearwater to the Clearwater Environmental disposal facility in Silver Springs, Nevada using uniform hazardous waste manifest # 004449810 JJK. Clearwater is a State-certified hazardous waste hauler. A copy of the manifest is attached with this report.

At the time that the liquids were pumped from the UST, a sample of the liquid designated as UST Oil was collected by P&D personnel for laboratory analysis. The sample was collected into two 40-milliliter VOA vials that were preserved with hydrochloric acid by inserting a rod into the UST and allowing the viscous liquid that coated the rod to flow off of the rod into the containers. The VOA vials were capped with Teflon-lined screw caps and stored in a cooler with ice pending delivery to the laboratory. Chain of custody procedures were observed for all sample handling.

The sample was analyzed for fuel fingerprint analysis using EPA Methods 3550C/8015B. The laboratory results identified the sample as consisting of fuel oil and possibly bunker oil, and the laboratory report included a chromatogram of the sample analysis. A copy of the laboratory report and chain of custody documentation is attached with this report.

### Additional Liquid Removal

Prior to removal of the UST, the area of excavation was marked with white paint, Underground Service Alert was notified for buried utility location, a permit application for UST removal was submitted and approved with the Alameda County Department of Environmental Health (ACDEH), the date of removal was scheduled with the ACDEH inspector and the City of Emeryville Fire Department inspector, and PG&E was scheduled to secure the utility pole located at the east end of the UST.

During January and early February 2010 substantial rain events filled the excavated area adjacent to the UST with water. In the days prior to the scheduled UST removal, the UST was observed to be filled with water to a height equivalent to the water level in the adjacent excavated area. On the morning of February 8, 2010 (the scheduled day for UST removal) Clearwater returned to the site and pumped 1375 gallons of water from the UST and the adjacent excavated area. The water was hauled from the site by Clearwater with non-hazardous waste manifest #7951 to the Alviso Independent Oil facility in Alviso, California. Clearwater returned to the site on February 8, 2010 and removed approximately 120 gallons of water from the UST and oily water from the bottom of the UST pit. The water was hauled from the site by Clearwater with non-hazardous waste manifest #6833 to the Alviso Independent Oil facility in Alviso, California. Copies of the non-hazardous waste manifest #6833 to the Alviso Independent Oil facility in Alviso, California.

### **UST Removal and Soil Sample Collection**

On February 8, 2010 the west and south sides of the UST were excavated and the UST was removed from the UST pit by IMX, Inc. of Oakland, California (IMX). The soil excavated from around the UST was discolored blue-gray and exhibited a strong oily odor. Prior to removal of the UST from the pit, the UST atmosphere was inerted using dry ice. A LEL/oxygen meter was used to evaluate the UST atmosphere, and the meter readings showed 0% LEL and 12.8% oxygen. Inspector George Warren from the City of Emeryville Fire Department was onsite and approved removal of the UST from the UST pit.

At the time of UST removal, a high voltage electrical conduit associated with the utility pole located immediately at the east end of the UST was observed to be located on top of the northeast corner of the UST. It appeared that the top of the UST had been depressed to provide space for the placement of the conduit at the time that the conduit was installed.

Following removal of the UST from the pit, the UST was visually inspected. The UST was measured to be 5 feet in diameter and 10 feet in length with a calculated volume of approximately 1500 gallons. The UST was constructed of single wall bare steel with riveted seams. The exterior of the UST appeared to be in good condition, with rust scaling observed primarily around the entire UST exterior at an elevation midway between the top and the bottom of the UST. No evidence of holes, cracks, or pitting from substantial corrosion was observed. However, a hole was observed at the west end of the UST at the southwest corner where a rivet was observed to be missing at an elevation approximately midway between the top and the bottom of the UST. It was unclear if the rivet was dislodged during the UST removal activities. Mr. Barney Chan of the ACDEH was present at the site to observe the UST removal and the UST condition following removal.

Following removal of the UST from the pit, water with a discontinuous layer of black oil floating on the water was observed to be present in the UST pit at a depth of approximately 6 feet below the ground surface. Mr. Chan of the ACDEH determined that an inadequate amount of water was present in the bottom of the UST pit for water sample collection. As described above, the water was removed from the UST pit by Clearwater.

Following removal of the water from the bottom of the UST pit, loose fill surrounding the UST consisting of sand and gravel that had fallen into the pit from the pit walls was removed from the bottom of the UST pit and a total of two soil samples were collected from the pit bottom using a backhoe bucket (one soil sample was collected from each end of the pit). Soil sample T1 was collected from the west end of the pit at a depth of approximately 7 feet below grade and soil sample T2 was collected from the east end of the pit at a depth of approximately 6 feet below grade.

The soil from the pit bottom consisted of clayey silt. The soil samples were collected from relatively undisturbed soil in the backhoe bucket by removing loose soil from the vicinity of the teeth of the bucket and pushing a 2-inch diameter 6-inch long stainless steel tube into the relatively undisturbed soil. No odor was detected in the sampled soil. The tubes were filled entirely to ensure that no head space was present in the tubes. The ends of the tubes were then sequentially covered with aluminum foil and plastic end caps. The tubes were then labeled and stored in a cooler with ice pending delivery to the laboratory. Chain of custody procedures were observed for all sample handling. The sample collection locations are shown in Figure 3. A copy

## Page 3 of 7 **P&D Environmental, Inc.**

of the County of Alameda Underground Tank System Closure Inspection Report dated February 8, 2010 is attached with this report.

Following soil sample collection from the UST pit, the bottom one half foot of the construction excavation located to the south of the UST pit was excavated and stockpiled. The area of excavation is shown in Figure 3. All excavated soil from the UST pit and from the adjacent construction excavation was transported to a nearby City yard where it was stockpiled on a sheet of visqueen. A total of 4 stainless steel tubes were filled with soil from different locations in the stockpile by manually pushing the tubes into the soil for disposal characterization purposes. The samples were to be composited at the laboratory and were designated as SP1. The tubes were sealed, labeled and stored as described above. Following sample collection the stockpile was covered with plastic and secured, pending removal from the site.

Although a vent pipe was observed on the building wall immediately to the north of the east end of the UST, excavation at the base of the vent pipe revealed that the vent pipe was not connected to the UST. The vent pipe penetrated the building wall below the ground surface. The vent pipe was cut off at the building exterior and the pipe was capped.

Photographs showing the UST prior to removal, the construction excavation located to the south of the UST, the UST following removal, the missing rivet from the UST, and the oily water in the UST pit are attached with this report.

Following soil sample collection from the UST pit bottom, the UST pit was backfilled with material provided by the City of Emeryville and compacted. City of Emeryville Dennis McGowan was onsite to verify that backfilling and compaction was performed in accordance with City requirements.

## **UST Transportation and Destruction**

Following removal of soil from the UST exterior and removal of remaining liquids from the UST interior, the UST was loaded onto an Ecology Control Industries (ECI) truck and transported with uniform hazardous waste manifest # 002135627 JJK to the ECI facility in Richmond, California. ECI is a State-certified hazardous waste hauler, and the ECI Richmond facility is a State-certified Transport, Storage and Disposal Facility. The UST was subsequently cut and destroyed at the ECI facility. Copies of the manifest and certificate of destruction are attached with this report.

### **Unauthorized Release Report**

An Underground Storage Tank Unauthorized Release (Leak)/Contamination Site Report was subsequently completed by the City of Emeryville naming the property owner adjacent to the UST as the responsible party. A copy of the report was provided electronically to Mr. Chan at the ACDEH on March 8, 2010. A copy of the report is also attached with this report.

### <u>Soil Disposal</u>

On March 10, 2010 a total of 20.29 tons of soil was transported from the site by IMX to the Republic Services Vasco Road Landfill in Livermore, California with two non-numbered non-hazardous waste manifests. Copies of the manifests and the landfill WeighMaster Certificates are attached with this report.

## LABORATORY ANALYSIS

The two soil samples collected from the UST pit bottom (T1 and T2) and the composite sample collected from the soil stockpile (SP1) were analyzed for Total Petroleum Hydrocarbons as Diesel (TPH-D) using EPA Method 3550C in conjunction with modified EPA Method 8015C; and for benzene, toluene, ethylbenzene, and xylenes (BTEX), 1,2-dibromomethane (EDB), and for 1,2-dichloroethane (1,2-DCA) by EPA Method 5030B in conjunction with EPA Method 8260B. In addition, the stockpile soil sample was also analyzed for LUFT 5 metals (cadmium, total chromium, lead, nickel and zinc) using EPA Methods 3050B in conjunction with EPA Method 6010B, and for STLC total chromium using California 22 WET extraction methods and EPA Method 6010B for disposal characterization purposes.

The laboratory analytical results of the tank pit bottom samples show that BTEX, EDB and 1,2-DCA were not detected in any of the samples. TPH-D was detected in the tank pit bottom samples T1 and T2 and in the soil stockpile composite sample at concentrations of 15, 5.8 and 830 milligrams per kilogram (mg/kg), respectively. In the composite soil stockpile sample the metals total chromium, lead, nickel and zinc were detected at concentrations of 54, 26, 57 and 110 mg/kg, respectively, and the STLC total chromium result was 0.23 mg/L. The tank pit bottom sample results are summarized in Table 1, and the soil stockpile sample results are summarized in Table 2. Copies of the laboratory reports and chain of custody documentation are attached with this report.

## **DISCUSSION AND RECOMMENDATIONS**

Visual observation of the groundwater in the UST pit and the results of the soil samples collected from beneath the UST show that soil and groundwater beneath the UST has been impacted by petroleum hydrocarbons. Based on the UST ownership being identified as the adjacent property owner at 1550 Park Avenue, P&D recommends that no further action be taken by the City of Emeryville.

## **DISTRIBUTION**

A copy of this report should be sent to Mr. Barney Chan at the Alameda County Department of Environmental Health.

## **LIMITATIONS**

This report was prepared solely for the use of The City of Emeryville. The content and conclusions provided by P&D in this assessment are based on information collected during our investigation, which may include, but not be limited to, visual site inspections; interviews with the site owner,

regulatory agencies and other pertinent individuals; review of available public documents; subsurface exploration and our professional judgment based on said information at the time of preparation of this document. Any subsurface sample results and observations presented herein are considered to be representative of the area of investigation; however, geological conditions may vary between borings and may not necessarily apply to the general site as a whole. If future subsurface or other conditions are revealed which vary from these findings, the newly revealed conditions must be evaluated and may invalidate the findings of this report.

This report is issued with the understanding that it is the responsibility of the owner, or his representative, to ensure that the information contained herein is brought to the attention of the appropriate regulatory agencies, where required by law. Additionally, it is the sole responsibility of the owner to properly dispose of any hazardous materials or hazardous wastes left onsite, in accordance with existing laws and regulations.

This report has been prepared in accordance with generally accepted practices using standards of care and diligence normally practiced by recognized consulting firms performing services of a similar nature. P&D is not responsible for the accuracy or completeness of information provided by other individuals or entities which is used in this report. This report presents our professional judgment based upon data and findings identified in this report and interpretation of such data based upon our experience and background, and no warranty, either express or implied, is made. The conclusions presented are based upon the current regulatory climate and may require revision if future regulatory changes occur.

Should you have any questions, please do not hesitate to contact us at (510) 658-6916.

Sincerely,

P&D Environmental, Inc.

King Paul H. King

Professional Geologist #5901 Expires: 12/31/11



Attachments:

Table 1 Summary of Pit Bottom Soil Sample Laboratory Analytical Results Table 2 Summary of Soil Stockpile Laboratory Analytical Results Site Location Map (Figure 1) Site Plan Aerial Photograph (Figure 2) Site Plan Detail Showing UST (Figure 3) Uniform Hazardous Waste Manifest #004449810 JJK dated 12/9/09 for liquid from UST Non-Hazardous Waste Manifest #7951 dated 2/8/10 for water from UST and UST Pit Non-Hazardous Waste Manifest #6833 dated 2/8/10 for water from UST and UST Pit Uniform Hazardous Waste Manifest #002135627 JJK dated 2/8/10 for UST disposal Certificate of Tank Destruction (1) for tank # 34019 County of Alameda Underground Tank System Closure Inspection Report dated 2/8/10 (2 pp) Photographs Underground Storage Tank Unauthorized Release (Leak)/Contamination Site Report Non-Hazardous Waste Manifests dated 3/10/10 for soil stockpile disposal WeighMaster Certificates # 05769 and 05880 Laboratory Analytical Reports and Chain of Custody Documentation

PHK 0494.R1

## **TABLES**

# TABLE 1 SUMMARY OF PIT BOTTOM SOIL SAMPLE ANALYTICAL RESULTS

	Sample	TPH-D	Benzene	Toluene	Ethyl-	Total	EDB	<u>1,2-DCA</u>
Sample ID	<b>Date</b>				<u>benzene</u>	<b>Xylenes</b>		
T1-7.0	2/8/2010	15, a	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.004	ND<0.004
T2-6.0	2/8/2010	5.8, b	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.004	ND<0.004
<u>NOTES</u>								
TPH-G = Tc	tal Petroleun	n Hydrocar	bons as Gase	oline.				
EDB = 1,2-I	Dibromoethar	ne.						
1,2-DCA = 1	1,2-Dichloroe	ethane.						Ì
ND = Not D	etected.							
a = Laborato	ory analytical	note: diese	el-range com	pounds are s	ignififcant; n	o recognizab	ole pattern.	
b = Laborate	ory analytical	note: aged	l diesel is sig	nificant.	-	-	-	
All results re	ported in mi	lligrams pe	er kilogram (i	mg/kg) unles	s otherwise r	noted.		

# TABLE 2SUMMARY OF SOIL STOCKPILE SAMPLE ANALYTICAL RESULTS

	Sample	TPH-D	Benzene	Toluene	Ethyl-	Total	EDB	<u>1,2-DCA</u>
<u>Sample ID</u>	<b>Date</b>				<u>benzene</u>	<b>Xylenes</b>		
SP1	2/8/2010	830. c.d	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.004	ND<0.004
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<b>NOTES</b>								
TPH-G = To	tal Petroleur	n Hydrocar	bons as Gase	oline.				
EDB = 1,2-E	Dibromoetha	ne.						
1,2-DCA = 1	,2-Dichloro	ethane.						
ND = Not D	etected.							
c = Laborato	ry analytical	note: unm	odified or we	eakly modifie	ed diesel-rang	ge compound	ls are present	
d = Laborato	ory analytical	l note: Stod	dard solvent	/ mineral spin	rit(?)			
The metals to	otal chromiu	m, lead, nic	ckel, and zin	c were detect	ed at concen	trations of 54	1, 26, 57, and	110 mg/kg,
respectively.	The total cl	hromium S'	TLC analysis	s result was (	).23 milligrar	ns per liter (1	mg/l).	
All results re	ported in mi	lligrams pe	r kilogram (1	mg/kg) unles	s otherwise r	noted.		

**FIGURES** 



Figure 1 Site Location Map City of Emeryville 1550 Park Avenue Emeryville, California

Base Map From: U.S. Geological Survey Oakland West, California 7.5-Minute Quadrangle Photorevised 1980

P&D Environmental, Inc. 55 Santa Clara Ave., Suite 240 Oakland, CA 94610



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	Attn: Kirk Hayward						
	16. GENERATOR'S CERTIFICATION: I certify th	e materials described above on t	this manifest are not subject to state or	federal regulations f	or reporting p	roper disposal of Hazar	dous Waste.
↓	Printed/Typed Name		Signature				
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S P	17. Transporter Acknowledgement of Receipt of i	Materials	Signature	<u>,</u>			
PR	Printed/Typed Name		Signature	1			
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면	18 Discrepancy Indication Space		Junice Me	m			0 1.0
	To. Discrepancy maiorition opaco						
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	t						
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Y	19. Facility Owner or Operator: Cartification of re	ceipt of waste materials cove	red by this manifest except as note	d in Item 18.			
	Printed/Typed Name		Signature /	,			
			1 11/14	<u></u>		Month	Day Year
	Charles Seaton		1/1/1/0	/		2	8 10
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	NON-HAZARDOUS	1. Generator's US EPA ID No.		2. Page 1 3. Document Number of			
	WASTE MANIFEST			1		6833	
1	4. Generator's Name and Mailing Address	DEVELOPMENT		SITE			
	1333 PARK AVE.		[	1550	S PA.	RK AVE	Ξ,
	EMERIVILLE, CA.	94608		Emé,	RYVIL	$\mathcal{L}_{\mathbf{E}_{i}} \mathcal{C}_{\mathbf{A}_{i}}$	
	Generator's Phone (510) 596 - 4	300					
	5. Transporter Company Name	6. US EPA ID N	lumber	7. Transporter i	Phone		*
	CLEARWATER ENVIRONMENTAL	CAR00000	7013	(51	<b>0) 476-</b> 1	740	
	8. Designated Facility Name and Site Address	9. US EPA ID N	lumber	10. Facility's Pl	one		
	5002 ARCHER STREET						
G	ALVISO, CA 95002	CAL00016	1743	(51	) 476-1	740	
N	11. Waste Shipping Name and Description			12. Co	ntainers	13. Total	14. Unit
	8.						VVVVOI
T	Non-Hazardous waste, Liquio			00	,	0120	G
R	b.					1100	<u> </u>
							,
	15. Special Handling Instructions and Additional Ini	ormation		Handling Code:	for Waste	s Listed Above	L
	Wear PPE			11a.		11b.	
	Emergency Contact						
	(510) 476-1740 Attn: Kirk Hayward		· · · ·				
	16. GENERATOR'S CERTIFICATION: I certify the	naterials described above on this manifest are not s	subject to state or federa	I regulations for re	porting pro	per disposal of Hazard	ious Waste.
↓	Printed/Typed Name	Signature					
R	Jaul H.K.	·~ \-	Zan W	Kir	المسر		Day Year B 10
NS	17. Transporter Acknowledgement of Receipt of Ma	torials			6		<u> </u>
l	Printed/Typed Name	Signature					
TE	Millo Stores	Mill	a Atta			Month 1	Day Year 8 20
٣	18. Discrepancy Indication Space		2 PULL			<u></u>	<u> </u>
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+							
Y	19. Facility Owner or Operator: Certification of rece	pt of waste materials covered by this manifes	t except as noted in It	em 18.			
	Printed/Typed Name	Signature	[]]/]	A			Davi M
	1 Charles Seato		n UP			Month 1	S /n
							<u> </u>

UNIFORM		1 Concreter ID N	Jumhor			Page 1 of 1	3 Emergency P	Response	Phone	4. Manifest	Trackína N	lumber		
WAST	M HAZARDOUS E MANIFEST	CACD0	2648803		<u> </u>		800-	321-	5479	00	213	8562	27 .	JJK
5. Generate	or's Name and Mailin	g Address			I	G	enerator's Site	Address	(if different th	an mailing addres	ss)			
		CITY	OF EMERYM	LLE										
		105U EME	PARKAVE DVM LE CA	OARGE ELL	SMENA	I								
Generator's	s Phone:510-595 rter 1 Company Nam	<u>e</u>			941 San 2017					U.S. EPA ID N	lumber			
	,	Ecology Cr	ontrol Industria	35							C4	D98203	10173	
7. Transpor	rter 2 Company Nam	e								U.S. EPA ID N	lumber			
	1.5 10 11	/ O': 4 ! !						<u></u>			lumbor			
8. Designat	ted Facility Name and	o Sile Address	- Naria ana amin'ny solatana amin'ny fisiana							0.3. EFAID I	annoer			
		EV 25	S PARR BOUL	EVARD	o meo						C.A	000946	6392	
Facility's Ph	hone:510-235-1	333 <sup>R</sup> (	CHMOND, CA	94801							¥			· · · · · ·
9a. 9b.	. U.S. DOT Descriptio	on (including Prope	er Shipping Name, Ha	zard Class, ID Ni	umber,		1	0. Contair	ners	11. Total	12. Unit	1:	3. Waste Co	odes
	o Packing Group (ir a	ny))		<u></u>			N	0.	Туре	Quantity	VVL./VOI.		1	1
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	EMPTY STOP	RAGE TANK	)					N						
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14. Special FCL.40	Handling Instructions	s and Additional In	formation					-				I		
14. Special ECL JC TANK	Handling Instructions OB #52T4048 (#34019	s and Additional In	formation					-			<u> </u>	l		
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Page 1 of 1

### Tank Processing JOB #: 52T4048 TANK CERTIFICATION

*******	****	PART 1 – To be	e completed by the	e Customer***	******	* * * * * * * * * * * * * * * * * * * *
CUSTOMER:	DENV	GENERATOR:	CITY OF EMER	RYVILLE	State Waste Code	es:_512
LOCATION: EMER	YVILLE	EPA I.D.# (	CAC002648803		EPA Waste Codes	:
TRANSPORTER: E	CI MAN	IFEST # 002135	630JJK			
	TANK 1	TANK 2	TANK 3	TANK 4	TANK 5	TANK 6
TANK #:	34019					
CAPACITY:	1500 6-				·	
DIAMETER:	\$5			<u></u>		
LENGTH:	10					
STEEL/GLASS:	27			<u></u>		
LAST CONTAINE	D:_K)					

LG = Leaded Gas, UG = Unleaded Gas, D = Diesel, UO = Used Oil, FO = Fuel Oil Specify the material Last Contained if other than above.

LAND DISPOSAL RESTRICTION NOTIFICATION FORM

The waste represented on this manifest is not generated by a chemical manufacturing plant, coke-by product recovery plant of petroleum refinery. As such, it is not regulated under 40 CFR Part 61, Subpart FF (NESHAPS for Benzene Operations).

Pursuant to 40 CFR 268.7 I am notifying Ecology Control Industries that the material described by the above manifest is a nonwastewater, Non-RCRA solid hazardous waste and not currently subject to EPA Land Disposal Restrictions.

Pursuant to CCR 22 66268.7 I am notifying Ecology Control Industries that the material described by the manifest is a metal containing Non-RCRA solid hazardous waste (662683.29(g)), and an organics containing Non-RCRA solid hazardous waste (66268.29(k)). The treatment standards for these wastes have been repealed. This waste is no longer subject to land disposal restrictions.

I am an authorized agent/representative of the generator. I certify that all information submitted in this and associated documents is complete and accurate to the best of my knowledge. The tanks on the transport equipment have been numbered to correspond with the information provided above. In the event that the tanks do not correspond to the form, I will pay any and all costs incurred in rectifying the discrepancies between the tank(s) and the form. In the event that the tank(s) contain excessive solids or liquids, I agree to pay the cost of preparation, transportation and disposal/recycling of the excess material according to the schedule of charges in effect at the time of receipt of the tank(s). Further, I will not hold Ecology Control Industries responsible for any damage to tanks which occurs after the tanks are removed from the ground.

AUTHORIZED	REPRES	ENTATIVE		
SIGNATURE:	ME	Moler		 
PRINT NAME:_	MÊ	Robert	5	 

DATE:_	2/2	3/10		
TITLE:	Gr.	Civil	Eng.	

## **CERTIFICATE OF TANK DESTRUCTION**

### CERTIFICATE CERTIFIED SERVICES COMPANY 265 Parr Boulevard - Richmond, California \$4501

Phone # 510-235-1393

CUSTOMER: P & D ENVIRONMENTAL, INC	JOB NO: <u>52T4048</u>
GENERATOR: CITY OF EMERYVILLE 1550 PARK AVE, EMERYVIL	LE. CA 94608
FOR: ECOLOGY CONTROL INDUSTRIES	TANK NO.: 34019
LOCATION: RICHMOND	DATE: 2/25/10
LAST PRODUCT: FUEL OIL	TEST METHOD: VISUAL GASTECH/1314 SMPN

This is to certify that I have personally determined that this is in accordance with the American 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, 500 GALLONS

CONDITION: SAFE FOR FIRE

REMARKS:

OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1% ECOLOGY CONTROL INDUSTRIES

HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN OUT OPEN, PROCESSED

AND THEREFORE, DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY.

ECOLOGY CONTROL INDUSTRIES HAS THE APPROPRIATE 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 it 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 permissible concentrations; and (c) in the judgment of 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.

under which it was issued,	A		
James Wi	log		lugene fin
REPRESENTATIVE		TITLE	INSPECTOR

**COUNTY INSPECTION REPORT** 

<b></b>		CU INDERGROU INS For Use By th	UNIY OF ALL ND TANK S SPECTION R e County of Alameda,	AMEDA YSTEM CLO EPORT Environmental Health	DSURE		
Facility Name: Ct Address: 15:50 Park A M. C Project Contact: Paul	y of Owery City: <u>Emery</u> hael Roberts Kung Phone N	Uille 12 Zip: 570-596-433 10.: 578-658-66	Contractor's name :	IMX =	Inc		
Tank ID No.	/ 						<u></u>
Size ~	1500GALLONS					·····	
<b>Construction Material</b>	Gteel						
Single/Double Wall	7.05.			······			
Backfill Type	gravel/clau/silt	ł		·····			
Oxygen <10%	129	· ···					
LEL <20%	0.0		· ·				
Tank Condition	rusty covered						
	top isn't no holes observed						
Soil/Groundwater Condition	GW applars improtent of the						
Soil Sample Depth	7'ha. + 6'han	, <u> </u>					
Number and Description of Soil/Groundwater	et Fal Tra						
Samples (Indicate Sample Locations on Site Plan)	Erspails Turth Track	bac		Ì		:	i
Sue Flan.)	11-1193 (-0-0	<u>*95</u>		Marg		the R	۱ 
Disposition of Tank Con Tank & Piping Transpo Sampling: Discourse Soil: Soil	Unline       rt:     Image: Comparison       dence Tape;     Image: Ch       Stored on Bormed Plastic	ipped on Manifest; ain of Custody; & Covered;	Transporter Name Sar Samples Refrigerated; Soil Returned to Exca	Piping: Rinsed/ ne as on Application. Pipeline Samples T vation. Site 1	Tested/Capped. Rin aken 🛛 Yes, 🗹 N. Plan: 🖉 Attached.	o (If no, explain No pypin	d on Manifest. why in Comments.) q Лип вычена
Comments/Special Cond bebachfi	litions: Strekpili	dsorts taken.	to nearly a	City ste for	- security	Terih p	it aul
Inspector: Ban	nez Clian	Agency:	ACDET Date	2-8-10 :: Start Tin	12:00 me: Sto	p Time:	
Signature of Contractor/A	uthorized Agent:	Vaul M	1.124mg	Date:	2-8-10	Pag	;e of

ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH Certified Unified Program Agency (CUPA) 1131 Harbor Bay Parkway, Alameda, CA 94502-6577 Phone (510) 567-6700; Fax (510) 337-9335 TION NSPEC Th. NO rney Chan 1550 Park Ane neru wille APDEH ONSITE th oh 6-10 remova O avo co И Mı. PAN arginillo ſΜ ist OR 0 envor m nesa sheer Ô In Mia ่ภ an Eure tan ira A an hiron tinke to San A n en N 5 nl Sh T2 1 X Sporls an r moist was ler. ve 10 ł, 11 bas . 4 (1 60 Cañ 0 es Stern discrete No stock tabo to be annessted + run at the al . . 2-810 Page \_\_\_\_ of \_\_\_\_ GenInspNotes.form 11-24-03

N: LOP-CUPA-TEAM\CUPA\CUPA Inspection Forms

## PHOTOGRAPHS

- UST prior to removal
- Construction excavation located to the south of UST
- UST following removal
- Missing rivet from UST
- Oily water in UST pit



UST prior to removal



Construction excavation located to the south of UST



UST following removal



Missing rivet from UST



Oily water in UST pit

**UNAUTHORIZED RELEASE FORM** 

	UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT					
	EMERGENCY HAS STATE OFFICE OF EMERGENCY SERVICES			FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I AM A DESIGNATED GO REPORTED THIS INFORMATION TO LOCAL OFFI	OVERNMENT EMPLOYEE AND THAT I HAVE CIALS PURSUANT TO SECTION 25180.7 OF	
REPO	RT DATE CASE	#		THE HEALTH AND SAFETY CODE.		
				SIGNED	DATE	
	NAME OF INDIVIDUAL FILING REPORT		PHONE	SIGNATURE		
۲	Markus Niebanck		(510) 5			
ORTED	□ LOCAL AGENCY □ REGIO □ OWNER/OPERATOR ☑ OTHE	NAL BOARD		City of Emeryville		
REP	ADDRESS 1333 Park Avenue			Emeryville	CA 94608 state zip	
Щ	NAME			CONTACT PERSON	PHONE (510) 653 0850	
NSIB RTY	Pellegrini Refridge & Rest	Equip Co	Unknown	Pennie Barger	(510) 055-9650	
RESPO PAI	1550 Park Avenue			Emeryville	CA 94608 STATE ZIP	
	FACILITY NAME (IF APPLICABLE)			OPERATOR	PHONE	
NOIT	ADDRESS					
FLOCA	Same as above			CITY COUNTY	ZIP	
SITE	CROSS STREET					
	LOCAL AGENCY AGENCY NA	AME			PHONE	
NTINC	Alameda County Environm	ental Health - E	Barney C	han	(510) 567-6765	
GENC	REGIONAL BOARD		- <b></b>		PHONE	
IMPI A					( )	
	(1)		NAME	QU	ANTITY LOST (GALLONS)	
ANCE	Heating Oil					
SUBST INVO	(2)				Unknown	
1ENT	DATE DISCOVERED	HOW DISCOVERED	Tank T	est Tank Removal	Nuisance Conditions	
BATEA	DATE DISCHARGE BEGAN					
RYIAE				Remove Contents Close Tanl	k	
SOVE	HAS DISCHARGE BEEN STOPPED?			Replace Tank		
DIS(				Repair Piping		
RCE/ JSE	SOURCE OF DISCHARGE		CAUSE(S)			
SOU	🗌 Tank Leak 🔲 Piping Leak 🛛 U	Inknown 🗌 Other	Overfi	I Corrosion CRupture/Failure X	Unknown 🔲 Spill 🗌 Other	
CASE TYPE	CHECK ONE ONLY					
RENT						
STP STP	ż Ź │					
┣──┤						
OPAL	Image: Check APPROPRIATE ACTION(S)       Image: State (CD)       Image: State (ET)       Image: State (CD)       Image: State (CD)    <					
REME		Remove Free Produc	ct (FP)			
<u> </u>	LI Excavate & Dispose (ED)	Pump & Treat Groun	dwater (GT	) U Vent Soil (VS)		
NTS						
MME						
U N						

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SOIL DISPOSAL DOCUMENTATION



NON-HAZARDOUS WASTE MANIFEST

GENERATOR INFORMATION		<b>CUSTOMER/BILLING INFORMATION</b>			
E Generator Name: <u>R</u>	MERYVILLE EDEVELOPMENT AGENCY	Billing Nam	e: <u>P&amp;D ENV</u>	IRONMENTAL	
Address 1333 PA	RK AVE.	Address	55 SANTA CLAF	A AVE. STE. 2	200
City: EMERYVI	LLE County:	City: OA	KLAND	County:	
State CA	Zip: 94608	State: <u>CA</u>		Zip:	94611
Site Location (if differe	int): 1333 PARK BLVD, EMERY	YVILLE			
Republic Services Approval #	Description of Waste		Volume/Weight	Expiration Date	Container Type
3850102938	CONTAMINATED SOIL-ADC		20/TONS	12/31/2010	
*Atta	ch Additional Sheet if necessary				

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

3110/10

Generator/Authorized Agent Name

Signature

**Date Shipped** 

#### TRANSPORTER INFORMATION

Transporter Name: Transporter Address: 7147 jnc 850 57H ave Dakland (a. 91806

DOT#	60421
Truck Number:	009
Phone Number:	510-530-9368

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

Name of Authorized Agent

laught lambe

Signature

Date Delivered

#### **DISPOSAL SITE INFORMATION**

Site Name <u>:</u>	VASCO ROAD LANDFILL	Phone No	925 447 0491
Site Address:	4001 VASCO ROAD	LIVERMORE, CA	

I hereby acknowledge receipt of the above described materials.

Name (Print or Type)

Signature

2-10-1

Date Received



## NON-HAZARDOUS WASTE MANIFEST

GENER	ATOR INFORMATION		CUSTOMER/BILI	LING INFORM	ATION
El Generator Name: <u>R</u> I	MERYVILLE EDEVELOPMENT AGENCY	Billing N	ame: <u>P&amp;D ENV</u>	IRONMENTAL	
Address 1333 PA	RK AVE.	Address	55 SANTA CLAR	A AVE. STE. 2	200
City: EMERYVI	LLE County:	City:	OAKLAND	County:	
State CA	Zip: <u>94608</u>	State:	CA	Zip:	94611
Site Location (if differe	nt): 1333 PARK BLVD, EMERY	YVILLE			
Republic Services Approval #	Description of Waste		Volume/Weight	Expiration Date	Container Type
3850102938	CONTAMINATED SOIL-ADC		20/TONS	12/31/2010	

\*Attach Additional Sheet if necessary

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

aria (25til)2

**Generator/Authorized Agent Name** 

<u>Signature</u>

Date Shipped

### TRANSPORTER INFORMATION

Transporter Name: Transporter Address:

INC TH aVP (3. 7H

DOT# 60421 Truck Number: <u>207</u> Phone Number: <u>572-532-9368</u>

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

76

Name of Authorized Agent

Harther Canther 3/1

Signature

Date Delivered

### DISPOSAL SITE INFORMATION

Site Name <u>:</u>	VASCO ROAD LANDFILL	Phone No.	925 447 0491
Site Address:	4001 VASCO RO		
I hereby acknowledge receip	ot of the above described materials.		
A -		N	3-10-10

Şignature

Date Received

Name (Print or Type)
REPUBLIC SERVICES	1.1011-3-103 3.1011-3-1013	STE REGLAS		0	5769
4001 N, Vasco Road, Livermore, CA 94551 (925) 447-0491		OI 04	-74-70 Weight		Barrissen and an I
" 021260 PAD ENVIRONMENTAL 55 SANTA CLARA AVE, STE. 200 DAKLAND, CA 94611		DATE IN LO Miscos DATE OUT LO Misco VEHICLE	ih 2010 rch 2010	TIME IN LOCOVIC BUT TIME OUT LOCOVIC B	A HER FRE WARN - 1 Market Her State Market Her State Her State Her State
CONTRACTOR ORDOALORDONO	al dura tun and	HEFEHENGE		EMERY	THE MAN
Tare Weight 25,980.00 Net Weight 21,060.00	It: It: It: IO, SB TH	Entrocario I	- SCALE TI	CINET	Hure grow
IO.53 TN SW-CONT SOIL 1.00 LD ENVIRONMENTAL 1.00 LD FUEL RECOVERY	FEE (new)	RATE	EXTENSION	TAX	TOTAL
			do j-trad c	ine a 1 na primi a	
Lander		la en quinda	neutronat Restriction of the	and the stand	Alter a sector
WARNING: Transporting any unauthorized hazardous waste to this facility for disposal is prohibited by law. Persons violating this prohibition are subject to civil and criminal prosecution. All children must remain in vehicles. Absolutely no salvaging allowed.	THIS IS TO C weighed, mea- is on this cert prescribed by I 5 of the Califo the division of of Food & Agr	WEIGHMASTER ERTIFY that the foll sured, or counted by licate, who is a reco Chapter 7 (commenci chapter 7 (commenci mia Business and Pr Measurement Stand iculture.	CERTIFICATE owing described comm a weighmaster, whose ignized authority of acc ng with Section 12700) o ofessions Code, admin ards of the California Dr	odity was signature uracy, as f Division istered by apartment	TENDERED
Driver:	Weighmaster	ipren is one	fafer and	ho n'inner	

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4001 N, Vasco Road, Livermore, CA 94551 (925) 447-0491       Site Doct T       Get Doct T	REPUBLIC SERVICES	LO 18 2012 05880
OZIZAO         PAD ENVIRONMENTAL         SES SANTA CLARA ALS, STE. 200         DAILAND, CA 94-511         Contract: 3850102938         OF Gross Using to 1, 25, 250, 00 1b         Tare Using to 1, 25, 250, 00 1b         Tare Using to 1, 25, 250, 00 1b         Tare Using to 1, 9, 520, 00 1b <tr< th=""><th>4001 N, Vasco Road, Livermore, CA 94551 (925) 447-0491</th><th>SITE TICKET GRID 04"25"20 0000 WEIGHMASTER</th></tr<>	4001 N, Vasco Road, Livermore, CA 94551 (925) 447-0491	SITE TICKET GRID 04"25"20 0000 WEIGHMASTER
O212860 PRD ENVIRONMENTAL SS SANTA CLARA AVE, STE. 200 OAKLAND, CA 94611     DATE N     The B mm of the SD mm of March 2010     PESD pm       Contract: 3850102938     Vence     In Beach 2010     PESD pm       March 2010     Tare Velight 25,759.00     Ib     Inbound - SCALE TICKET       Vence     ON SWARD Velight 25,759.00     Ib     Inbound - SCALE TICKET       Vence     ON SWARD Velight 25,759.00     Ib     Inbound - SCALE TICKET       Vence     ON SWARD Velight 25,759.00     Ib     Inbound - SCALE TICKET       Vence     Vence     Ib March 2010     Im State 1000       Vence     Vence     Inbound - SCALE TICKET	9	reaction of the second of the owner from the second s
Page Env31edUniter Hell       ESS SHAFTA CLARKA AVE, STE. 200       Date out       The out       350B pm         Contract: 3650102938       PERCENT       Date out       Barch 2010       350B pm         Of Gross Weight 45,300.00 Ib Tare Weight 25,750.00 Ib Net Weight 19,550.00 Ib       Inbound - SCALE TICKET       PERCENTION         OTY       Unit of the contract.       For any first clarks to the contract.       Tare Verification         OTY       Unit of the contract.       For any first clarks to the contract.       Tare Verification         OTY       Unit of the contract.       For any first clarks to the contract.       Tare Verification         OTY       Unit of the contract.       For any first clarks to the contract.       Tare Verification         Verification       Extension       Tare Verification       For any first clarks to the contract.         Verification       Extension       Tare Verification       For any first clarks to the contract.       Tare Verification         Verification       Extension       Extension       Tare Verification       For any first clarks to the contract.       Tare Verification       Tare Verification         Verification       Extension       Extension       Extension       Tare Verification       Tare Verification       Tare Verification       Tare Verification         Verification	021260	10 Marvety 2010 24 32 pm 201 1 for wells ?
Verticality of the result       Verticality         Contracts 3550102930       Interact of the result       Interact of the result         OBJORS Waight 25,750.00 lb       Interact of the result       Interact of the result         Net Waight 25,750.00 lb       Interact of the result       Interact of the result         OT       UNIT       DESCRIPTION       Interact of the result       Total the result         Variation of the result       Sub-CONT SOIL       ENVIRONMENTAL FEE       Interact of the result         Net Waight 19, 520.00 lb       ENVIRONMENTAL FEE       Interact of the result       I	ESS SANTA CLARA AVE, STE. 200	10 Mayth 2010 3:08 pm
MARNING: Transporting any unsubtrized hazardous waste toms inschilder of subaging allowed.       Mart must remain in vehicles.         Other	Contract: 3850102938	REFERENCE ORIGIN
Ob Gross Weight 25, 20, 00 lb Net Weight 25, 20, 00 lb       Incourd - SCALE TICKET         OTY       UNIT DESCRIPTION       BATE       EXTENSION       TAX       TOTAL         9,76 LB       SH-CONT SOIL ENVIRONMENTAL FEE FUEL RECOVERY FEE       Distribution       Distribution       TAX       TOTAL         1,00 LD       FUEL RECOVERY FEE       Distribution       Distribution       Distribution       TAX       TOTAL         NARNING: Transporting any unauthorized hazardous wasts on backedity for disposal is prohibited by prosecution.       NET AMOUND       THE STORT SOIL ENVIRONMENTAL FEE FUEL RECOVERY FEE       The Distribution of accuracy and the California Department or this certificate, who is a recognized authority of accuracy and the California Business and Professions Code, administration of Distribution	steed study too	at a unit freed anase attillance doub uses from the PULLAR
OTY.     UNIT     DESCRIPTION     RATE     EXTENSION     TAX     TOTAL       9.75     TR     SW-CONT SOIL     ENVIRONMENTAL. FEE     Image: SW-CONT SOIL     Im	Control Gross Weight 45,300.00 15 Tare Weight 25,780.00 15 Net Weight 19,520.00 15 9.7	Storezaledzien zup Mittelinger die Friedrich erstellingen der SCALE TECHET 6 TN State und Friedrich der State in State i
9.76       TR       SW-CONT SOIL       ENVIRONMENTAL FEE         1.00       LD       ENVIRONMENTAL FEE       ENVIRONMENTAL FEE         FUEL       FUEL       FUEL       FUEL       FUEL         ANNING:       Transporting any unauthorized hazardous waste to the factility for disposal is prohibited by law. Persons violating this.       The STORE The Store of the factility for disposal is prohibited by law. Persons violating the following described commenting with store disposal is prohibited by law. Persons violating the following described of point and command prosecution.       Met AMOUNT         National formation of the disposal is prohibited by law. Persons violating the following described of point and command prosecution.       The following described of point and command prosecution.       Met AMOUNT         Molifering must remain in webides.       Weighmaster:       Weighmaster:       Met AMOUNT         Driver:	OTY. UNIT DESCRIPTION	RATE EXTENSION TAX TOTAL
WARNING: Transporting any unauthorized hazardous waste to his facility for disposal is prohibited by law. Persons violating this prohibition are subject to civil and criminal prosecution.       MARNING: Transporting any unauthorized hazardous waste to his facility for disposal is prohibited by law. Persons violating this prohibited must remain in vehicles.       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 (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 & Agriculture.       TENDERED         Driver:       Weighmaster:       Weighmaster:	9.76 TR SW-CONT SOIL 1.00 LD ENVIRONMENTAL FEE 1.00 LD FUEL RECOVERY FEE	
WARNING: Transporting any unauthorized hazardous waste to his facility for disposal is prohibited by law. Persons violating this rohibition are subject to civil and criminal prosecution.       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 (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 & Agriculture.       TENDERED         Driver:	Vergrend att mererel to	anternation in the second side (tangent and second size as particular
Driver: Weighmaster:	VARNING: Transporting any unauthorized hazardous waste to is o his facility for disposal is prohibited by law. Persons violating this pre- prohibition are subject to civil and criminal prosecution. 5 oil il children must remain in vehicles. 4 Absolutely no salvaging allowed. 6	WEIGHMASTER CERTIFICATE IS IS TO CERTIFY that the following described commodity was ghed, measured, or counted by a weighmaster, whose signature on this certificate, who is a recognized authority of accuracy, as scribed by Chapter 7 (commencing with Section 12700) of Division I the California Business and Professions Code, administered by division of Measurement Standards of the California Department Food & Agriculture.
	Driver: We	lighmaster:

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# LABORATORY ANALYTICAL REPORTS

- McCampbell work order #0912246 UST contents sample
- McCampbell work order #1002229 UST pit bottom soil samples
- McCampbell work order #1002217 stock pile soil sample organics results
- McCampbell work order #1002217 addon A stock pile soil sample LUFT 5 metals results
- McCampbell work order #1002217 addon B stock pile soil sample Total Chromium STLC results

McCampbell A	nalytical, Inc. v Counts"	1534 Will Web: www.mc Telepho	low Pass Road, Pittsburg, campbell.com E-mail: m one: 877-252-9262 Fax:	CA 94565-1701 ain@mccampbell.com 925-252-9269
P & D Environmental	Client Project ID: #0494;	City of Emeryville	Date Sampled:	12/09/09
55 Santa Clara, Ste.240			Date Received:	12/09/09
Oakland, CA 94610	Client Contact: Paul King	5	Date Reported:	12/10/09
	Client P.O.:		Date Completed:	12/10/09

### WorkOrder: 0912246

December 10, 2009

Dear Paul:

Enclosed within are:

- 1) The results of the 1 analyzed sample from your project: **#0494; City of Emeryville,**
- 2) A QC report for the above sample,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

Dakland, CA 94610 (510) 658-6916				C	HAIN OF CU	STO	Y	RE	CC		D		PAGE OF
PROJECT NUMBER:		P	COTY 155 EMI	NAME: OF OF ERYL	ENERYDILLE IRK AUE IILLE		S(Es).	Terret				.	2
SAMPLED BY: (PRI Michael J	DESCH	SIGNAT	ure) S	cel	clear Descher	IT ANER OF		ET/	//	1	//	ESERV.	REWARKS
SAMPLE NUMBER	DATE	TIME	TYPE		SAMPLE LOCATION	5 S	VI	1/	//	[]	/	å	
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RELINQUISHED BY: (	SIGNATURE	E)	DATE 12 16	TIME 1400	RECEIVED BY: (SIGNATUR	E) 6	LAB	GRATE	AR	DEL	ACT:	192	5) 252-9262
RELINQUISHED BY: (	SIGNATURE	.)	DATE	TIME	RECEIVED FOR LABORATO	RY BY:		S	AMPL	E AN	ALYS	IS RE	OUEST SHEET
Results and billing to P&D Environmental, lab@pdenviro.com	o: Inc.		і I		REMARKS: 2 VOA'S		IC GC	E/t*_	T.L.			APPR	OPRIATE

0912246-001

1534 Willow Pass Rd Pitteburg CA 94565-1701

# CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 252-9262			WorkO	rder: 09122	246 C	lientCode: PDEO		
	WaterTrax WriteOn	EDF	Excel	Fax	🖌 Email	HardCopy	ThirdParty	J-flag
Report to:			Bi	II to:		Re	quested TAT:	1 day
Paul King P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610 (510) 658-6916 FAX 510-834-0152	Email: lab@pdenviro.com cc: PO: ProjectNo: #0494; City of Eme	ryville		Accounts F P & D Env 55 Santa ( Oakland, (	Payable ironmental Clara, Ste.240 CA 94610	Da Da	te Received: te Printed:	12/09/2009 12/09/2009
					Requested 1	ests (See legend	below)	
Lab ID Client ID	Matrix Col	lection Date Hold	1	2 3	4 5	6 7 8	9 10	11 12

А

12/9/2009 9:30

<u>Test Legend:</u>

#### G-MBTEX\_Oil 2 1 7 6 11 12

UST OIL

Oil

3	
8	

4
0

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The following SampID: 001A contains testgroup.

Prepared by: Maria Venegas

**Comments:** 24hr Rush

> NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.

"When Ouality Counts"

# Sample Receipt Checklist

Client Name: P & D Environmental							Date and Time Received: 12/9/2009 2:44:44 PM					
Project Name: #049	94; City of Em	eryville	e				Check	klist co	mpleted and	reviewed by:	Maria Venegas	
WorkOrder N°: 0912	2246	Matrix g	Oil				Carrie	er:	Rob Pringle (	MAI Courier)		
			<u>Chain</u>	of Cu	stody (C	:OC) Ir	nforma	ation				
Chain of custody prese	ent?			Yes	✓	N	lo 🗆					
Chain of custody signe	d when relinquis	hed and	received?	Yes	✓	N	lo 🗆					
Chain of custody agree	es with sample la	bels?		Yes	✓	N	lo 🗌					
Sample IDs noted by Cli	ient on COC?			Yes	✓	N	lo 🗆					
Date and Time of collect	tion noted by Clie	ent on CC	DC?	Yes	✓	N	lo 🗆					
Sampler's name noted of	on COC?			Yes	✓	N	lo 🗆					
Sample Receipt Information												
Custody seals intact on	n shipping contair	ner/coole	er?	Yes		N	lo 🗆			NA 🔽		
Shipping container/cool	ler in good condit	ion?		Yes	✓	N	lo 🗆					
Samples in proper containers/bottles?				Yes	✓	N	lo 🗆					
Sample containers inta	ct?			Yes	✓	N	lo 🗆					
Sufficient sample volum	ne for indicated te	est?		Yes		Ν	lo 🗌					
		<u>San</u>	nple Prese	rvation	and Ho	old Tin	ne (HT)	) Info	rmation			
All samples received wi	ithin holding time	?		Yes	✓	N	lo 🗌					
Container/Temp Blank t	temperature			Coole	r Temp:	7.2°C	;			NA 🗆		
Water - VOA vials have	e zero headspac	e / no bu	ubbles?	Yes		Ν	lo 🗆	No V	OA vials sub	mitted 🗹		
Sample labels checked	d for correct prese	ervation	?	Yes	✓	N	lo 🗌					
Metal - pH acceptable u	upon receipt (pH<	<2)?		Yes		Ν	lo 🗆			NA 🗹		
Samples Received on I	ce?			Yes	✓	N	lo 🗆					
			(Ісе Тур	e: WE	T ICE	)						
* NOTE: If the "No" box	* NOTE: If the "No" box is checked, see comments below.											

Client contacted:

Date contacted:

Contacted by:

Comments:

	CCampbell Ar	nalyti <sub>Counts"</sub>	<u>cal, Inc.</u>	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269						
P & D Enviro	onmental		Client Project ID:	#0494; City of	Date Sampled: 12/09/09					
55 Santa Clar	a, Ste.240		Emeryville		Date Received: 12/09/09					
			Client Contact: Pa	ul King	Date Extracted: 12/09/09					
Oakland, CA	94610		Client P.O.:		Date Analyzed 12/10/09					
Fuel FingerPrint *										
Extraction method	SW3550C		Analytical m	ethods SW8015B	Work Order: 0912246					
Lab ID	Client ID	Matri	x	Fuel Fingerprint						
0912246- 001A       UST OIL       O       This sample shows a significant hydrocarbon pattern that resembles fuel oil, possibly bunker oil. Chromatograms enclosed.										

File : D:\HPCHEM\GC11\DATAB\12090941.D
Operator : Thu
Acquired : 10 Dec 2009 9:59 am using AcqMethod GC11AW.M
Instrument : GC-11
Sample Name: 0912246-001A OIL RE
Misc Info : TPH(FF)\_O
Vial Number: 71





1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269

### "When Ouality Counts"

### QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Oil QC Matrix: Soil							BatchID: 47521				WorkOrder 0912246	
EPA Method SW8015B	A Method SW8015B Extraction SW3550C							5	Spiked Sar	nple ID	: 0912243-0	)12A
Analyte	Sample Spiked MS MSD MS-MSI				MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
/ indiyio	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	ND	20	101	101	0	111	112	0.888	70 - 130	30	70 - 130	30
%SS:	105	50	101	101	0	95	97	2.56	70 - 130	30	70 - 130	30
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

#### BATCH 47521 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0912246-001A	12/09/09 9:30 AM	1 12/09/09	12/10/09 9:59 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

JR QA/QC Officer

WcCampbell An "When Ouality"	nalytical, Inc.	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269							
P & D Environmental	Client Project ID: #0494;	City of Emeryville	Date Sampled:	02/08/10					
55 Santa Clara, Ste.240			Date Received:	02/09/10					
	Client Contact: Paul King	<b>r</b>	Date Reported:	02/11/10					
Oakland, CA 94610	Client P.O.:		Date Completed:	02/11/10					

### WorkOrder: 1002229

February 11, 2010

Dear Paul:

Enclosed within are:

- 1) The results of the 2 analyzed samples from your project: **#0494; City of Emeryville,**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

NVIRONMENTAI Santa Clara Ave, Suite 240 Oakland, CA 94610 (510) 658-6916	l, Inc.			(	CHAIN	OF (	CUS	TOE	00	R	EC	22	20		PAG	<u>   (                                 </u>	F [
PROJECT NUMBER:		Ċ	ITY I 1550 EMEI	OF EN TARE RYVII	NERYVI < AUE, LLE, CA	UE					K and	- And -	7	//		/	
SAMPLED BY: (PE Michael DES	CHENES	SIGNAT	URE)	al 1	Ascler		_	IUMBER OF ONTAINERS	AWAL YSIC		The state	1	//	PRESER	ALL	REMARK	s
T1 - 7.0	2/8/10	13:35	SiL		SAMPLE	LOCATION		1	X	X	1	$\left( \right)$	$\square$	ILE	NORMAL	TURN	ARO
T2-6.0	2/8/10	14:00	あん					1	X	X	+			1CE	(1	U.	
											-						
											+						
			ICE/t*	1.4%	$C \downarrow$			/									
			DECHI	ORINATE	DIN LAB	APPROPRIA CONTAINEI PRESERVEI	D IN LAB		_		+						
			TREOF	AVATION	·						+						
RELINQUISHED BY:	SIGNATURE	2	DATE/ 2/6	TIME	RECEIVED	BY: (SIGNA	TURE)		ATOT A	HO. 1	F SAM	-LIS	22	LAB	ORATORY:	L ANAL	YT
RELINCTIC		31	PATE /0	TIME	RECEIVED	BY: SIGNA	TURE)		ANO	EL	TORY	CON	LING	1: LAB	ORATORY F	HONE NU	JMBE
RECINICUISHED BY: (	SIGNATURE	)	DATE	TIME	RECEIVED	FOR LABOR	ATORY E	BY:			SAMP	TACH	ANAL	YSIS R	EQUEST SH	EE 1	
Results and billing to P&D Environmental, lob <b>9</b> pdenviro.com	o: Inc.				REMARKS:												

P



1534 Willow Pass Rd Pittsburg, CA 94565-1701

# CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 252-9262			Work(	Order:	10022	229	Cli	entCode: PD	θEΟ				
	WaterTrax WriteOn	EDF	Excel	Ľ	Fax	<b>~</b>	Email	HardC	Сору		arty	☐ J-f	lag
Report to:			I	Bill to:					Requ	uested TA	хт:	5 d	lays
Paul King P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610 (510) 658-6916 FAX 510-834-0152	Email: lab@pdenviro.com cc: PO: ProjectNo: #0494; City of Emer	ryville		Acc P & 55 : Oal	counts F D Env Santa ( kland, (	Payable ironmen Clara, St CA 9461	tal e.240 0		Date Date	e Receive e Printed	ed: !:	02/09/2 02/09/2	2010 2010
		[				Requ	ested T	ests (See lege	end be	elow)			
Lab ID Client ID	Matrix Coll	lection Date Hold	1	2	3	4	5	6 7	8	9	10	11	12

Easte		matrix	Concontent Date			-	•	•	v	•	•	 	
				-									
1002229-001	T1 - 7.0	Soil	2/8/2010 13:35		А	А							
1002229-002	T2 - 6.0	Soil	2/8/2010 14:00		А	А							

### Test Legend:

1	MBTEXOXY-8260B_S
6	
11	

2	TPH(D)_S
7	
12	

3	
8	

4	
9	

5	
10	

Prepared by: Shino Hamilton

### **Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.

"When Ouality Counts"

# Sample Receipt Checklist

Client Name:	P & D Environme	ntal				I	Date a	and Tim	ne Received	: <b>2/9/</b> 2	2010 8	:02:10 PM
Project Name:	#0494; City of En	neryville	e			(	Check	klist co	mpleted and	d reviewe	ed by:	Shino Hamilton
WorkOrder N°:	1002229	Matrix 3	<u>Soil</u>			(	Carrie	er: <u>I</u>	Rob Pringle	(MAI Cou	urier)	
			<u>Chain</u>	ofCu	stody (C	COC) Inf	orma	ation				
Chain of custody	present?			Yes	✓	No						
Chain of custody	signed when relinqui	shed and	received?	Yes	✓	No						
Chain of custody	agrees with sample I	abels?		Yes	✓	No						
Sample IDs noted	by Client on COC?			Yes	$\checkmark$	No						
Date and Time of	collection noted by Cl	ient on CC	C?	Yes	✓	No						
Sampler's name n	noted on COC?			Yes	✓	No						
			<u>S</u>	ample	Receipt	t Inform	ation	<u>n</u>				
Custody seals int	tact on shipping conta	iner/coole	er?	Yes		No				NA 🕨		
Shipping containe	er/cooler in good cond	lition?		Yes	$\checkmark$	No						
Samples in prope	er containers/bottles?			Yes	✓	No						
Sample container	rs intact?			Yes	$\checkmark$	No						
Sufficient sample	e volume for indicated	test?		Yes	✓	No						
		<u>San</u>	nple Prese	rvation	and Ho	old Time	e (HT)	) Infor	mation			
All samples receive	ived within holding tim	e?		Yes	✓	No						
Container/Temp E	Blank temperature			Coole	r Temp:	1.4°C				NA		
Water - VOA vial	ls have zero headspa	ce / no bu	ubbles?	Yes		No		No VO	OA vials sub	omitted		
Sample labels ch	necked for correct pre	servation	?	Yes		No						
Metal - pH accept	table upon receipt (p⊢	l<2)?		Yes		No				NA 🕨		
Samples Receive	ed on Ice?			Yes	✓	No						
			(Ісе Тур	e: WE	T ICE	)						
* NOTE: If the "N	No" box is checked, se	ee comme	ents below.									

Client contacted:

Date contacted:

Contacted by:

Comments:

McCampbell An "When Ouality	alytical, I Counts"	<u>nc.</u>	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269							
P & D Environmental	Client	Project ID:	#0494;	City of	Date Sampled: 02/08/10					
55 Santa Clara, Ste.240	Emery	/ille			Date Received:	02/09/10				
	Client	Contact: Pa	aul King	5	Date Extracted:	02/09/10				
Oakland, CA 94610	Client ]	P.O.:			Date Analyzed:	02/10/10				
	BTEX -	- EDB and 1	,2-DCA	by GC/MS*						
Extraction Method: SW5030B	A	nalytical Metho	d: SW826	OB		Work Order:	1002229			
Lab ID	1002229-001A	1002229	-002A							
Client ID	T1 - 7.0	T2 - 6	5.0			Reporting DF	Limit for =1			
Matrix	S									
DF	1	1				S	W			
Compound			Conce	entration		mg/kg	ug/L			
Benzene	ND	NE	)			0.005	NA			
1,2-Dibromoethane (EDB)	ND	NE	)			0.004	NA			
1,2-Dichloroethane (1,2-DCA)	ND	NE	)			0.004	NA			
Ethylbenzene	ND	NE	)			0.005	NA			
Toluene	ND	NE	)			0.005	NA			
Xylenes	ND	NE	)			0.005	NA			
	Su	rogate Rec	coveries	s (%)						
%SS1:	116	117	7							
%SS2:	105	104	4							
Comments										
* water and vapor samples are reported in extracts are reported in mg/L, wipe sampl	μg/L, soil/sludge es in μg/wipe.	solid samples	s in mg/k	g, product/oil/non-a	queous liquid sample	es and all TC	LP & SPLP			

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

	CCampbell Analyti	cal, Inc.	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269								
P & D Enviro	onmental	Client Project ID:	#0494; City of	Date Sampled: 02/08/10							
55 Santa Clara	a, Ste.240	Emeryvine		Date Rec	eived:	02/09/1	0				
		Client Contact: P	aul King	Date Extr	acted:	02/09/1	0				
Oakland, CA	94610	Client P.O.:		Date Ana	lyzed	02/09/0	0-02/10/10				
Extraction method	<b>To</b> SW3550C	tal Extractable Pet Analytical	roleum Hydrocarbons* methods: SW8015B			Work Orde	er: 1002229				
Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)		DF	% SS	Comments				
1002229-001A	T1 - 7.0	S	15		1	109	e3				
1002229-002A	T2 - 6.0	s	5.8		1	111	e2				
Repo	porting Limit for $DF = 1$ ; means not detected at or	W	NA			N	A				
abo	ove the reporting limit	S	1.0			mg	/Kg				

\* water samples are reported in  $\mu g/L$ , wipe samples in  $\mu g/wipe$ , soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in  $\mu g/L$ .

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

e2) diesel range compounds are significant; no recognizable pattern e3) aged diesel is significant

Angela Rydelius, Lab Manager



1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269

## "When Ouality Counts"

### QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil	N.O. Sample Matrix: Soil QC Matrix: Soil						BatchID: 48557 WorkOrder 1				Order 10022	29
EPA Method SW8015B	Extra	ction SW	3550C					5	Spiked San	nple ID	: 1002172-0	001A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			1
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD RPD LCS/LCSI			RPD
TPH-Diesel (C10-C23)	120	40	109	113	1.14	104	106	1.66	70 - 130	30	70 - 130	30
%SS:	101	25	95	108	12.9	95	97	1.95	70 - 130	30	70 - 130	30
All target compounds in the Method I NONE	Blank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following	exceptions:			

#### BATCH 48557 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1002229-001A	02/08/10 1:35 PM	02/09/10	02/09/00 9:36 PM	1002229-002A	02/08/10 2:00 PM	02/09/10	02/10/10 6:02 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QA/QC Officer

"When Ouality Counts"

# QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil	nple Matrix: Soil QC Matrix: Soil					BatchID: 48587 WorkOrder 1002229					29	
EPA Method SW8260B	Extra	ction SW	5030B					ę	Spiked Sar	nple ID	: 1002201-0	)04a
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acc	Acceptance Criteria (%)		
Analyte	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	0.050	75.9	77.2	1.68	86.2	80.3	7.02	70 - 130	30	70 - 130	30
Benzene	ND	0.050	94.4	98.7	4.42	105	100	4.93	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	84.8	81.9	3.52	95.1	89.2	6.37	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	98.4	101	2.13	115	106	7.46	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	93.2	96.4	3.32	106	100	5.55	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	89	91.5	2.83	103	94	9.03	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	90.3	92.9	2.82	103	95	7.83	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	85.3	87.9	2.95	98.1	91.5	6.96	70 - 130	30	70 - 130	30
Toluene	ND	0.050	105	107	1.36	118	112	5.86	70 - 130	30	70 - 130	30
%SS1:	103	0.13	111	112	1.08	113	112	0.775	70 - 130	30	70 - 130	30
%SS2:	121	0.13	111	112	0.523	113	114	0.0106	70 - 130	30	70 - 130	30
All target compounds in the Method NONE	Blank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following	exceptions:			

### BATCH 48587 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1002229-001A	02/08/10 1:35 PM	02/09/10	02/10/10 8:33 PM	1002229-002A	02/08/10 2:00 PM	02/09/10	02/10/10 9:12 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



WcCampbell An "When Ouality"	nalytical, Inc.	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269					
P & D Environmental	Client Project ID: #0494;	City of Emeryville	Date Sampled:	02/08/10			
55 Santa Clara, Ste.240			Date Received:	02/09/10			
	Client Contact: Paul King	<b>r</b>	Date Reported:	02/11/10			
Oakland, CA 94610	Client P.O.:		Date Completed:	02/11/10			

### WorkOrder: 1002217

February 11, 2010

Dear Paul:

Enclosed within are:

- 1) The results of the **1** analyzed sample from your project: **#0494; City of Emeryville,**
- 2) A QC report for the above sample,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

VIRONMENTAL, INC ants Clara Ave, Suite 240 Oakland, CA 94610 (510) 658-6916	с.		C	HAIN C	F CUS	TOE	OC IY	REC	OR	D	PAG	e of
PROJECT NUMBER:		PROJECT CITY 155 EMI	NAME: OF D TO THERY N	EMERYV ARK AUE /ILLE, C	A		Es);					/
SAMPLED BY: (PRINTED Michael Desci SAMPLE NUMBER DI	AND SIGNA HENES	TYPE	charl	SAMPLE LOCA	ULA -	NUMBER OF CONTAINERS	SIEL THIN THE	The second		PRES	UNAL-	REMARKS
SP1 2/8	3/10 14:3	USIL	SIL	EXCAVATEL	EXCAVATION	04	X		Ħ	ICE	NORMAL	TURN AROUN
	ICE/re	41°C	1	APPROPRIATE	/							
	HHAD SP. DECHLOI PRESERV	ACE ABSEN	T LAB AS 0&	CONTAINERS PRESERVED IN G METALS OTH	ILAD					1		
RELINQUISHED BY (SICH	ATURE)	BATE	TIMES	RECEIVED BY	(SIGNATURE)		POTAL (IN	AD. OF SAM			BORATORY:	
RELINGUISHED BY: (SIGN,	ATURE)	PATE 9/10	TIME	RECEIVED BY	(SIGNATURE)		LABO	RATORY	CONT	ACT: LAS	CAMPB BORATORY	PHONE NUMBER
RELINQUISHED BY: (SICN	ATURES	BATE	TIME	RECEIVED FOR	RLABORATOR	Y BY:	CIACS.	SAM	PLE AN	ALYSIS I	EQUEST S	HEET
Results and billing to: P&D Environmental, Inc. lob@pdenviro.com				REMARKS:	RIOR TO	ANA	LYS	CONT.	AINE	RS 8	SP1	

1534 Willow Pass Rd Pittsburg CA 94565 1701

# CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 252-9262				Wor	kOrder	: 10022	217	Client	Code: PDE	0			
	WaterTrax	WriteO	n 🗌 EDF	Exce	I	Fax	🖌 Em	nail	HardCo	ру 🗌 ТІ	hirdParty	□ J-	flag
Report to:					Bill to:				F	Requeste	d TAT:	5 0	days
Paul King	Email: la	ab@pdenvir	o.com		Ac	ccounts I	Payable						
P & D Environmental	CC:				Р	& D Env	ironmental						
55 Santa Clara, Ste.240	PO:				55	5 Santa (	Clara, Ste.2	40	1	Date Rec	eived:	02/09/	2010
Oakland, CA 94610	ProjectNo: #	#0494; City o	of Emeryville		O	akland, (	CA 94610		1	Date Pri	nted:	02/09/	2010
(510) 658-6916 FAX 510-834-0152	2												
							Request	ed Test	s (See leger	nd below)			
Lab ID Client II	)	Matrix	Collection Date	Hold 1	2	3	4 5	6	7	8 9	10	11	12

#### 1002217-001 SP1 Soil 2/8/2010 14:30 А А

#### Test Legend:

1	MBTEXOXY-8260B_S
6	
11	

2	TPH(D)_S
7	
12	

3	
8	

4	
9	

5			
10			

Prepared by: Shino Hamilton

### **Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.

"When Ouality Counts"

# Sample Receipt Checklist

Client Name: P & D Environmental			Date a	and Time Received:	2/9/2010 6	:34:36 PM
Project Name: #0494; City of Emeryville			Check	list completed and re	eviewed by:	Shino Hamilton
WorkOrder N°:         1002217         Matrix         Soil			Carrie	r: <u>Rob Pringle (M</u>	Al Courier)	
<u>Chain</u>	of Cu	stody (CC	<u> ) Informa</u>	ition		
Chain of custody present?	Yes	$\checkmark$	No 🗆			
Chain of custody signed when relinquished and received?	Yes	✓	No 🗆			
Chain of custody agrees with sample labels?	Yes		No 🗌			
Sample IDs noted by Client on COC?	Yes	$\checkmark$	No 🗆			
Date and Time of collection noted by Client on COC?	Yes	$\checkmark$	No 🗆			
Sampler's name noted on COC?	Yes	$\checkmark$	No 🗆			
<u>s</u>	ample	Receipt I	Information	<u>l</u>		
Custody seals intact on shipping container/cooler?	Yes		No 🗆		NA 🔽	
Shipping container/cooler in good condition?	Yes	$\checkmark$	No 🗆			
Samples in proper containers/bottles?	Yes	✓	No 🗆			
Sample containers intact?	Yes	$\checkmark$	No 🗆			
Sufficient sample volume for indicated test?	Yes	✓	No 🗌			
Sample Prese	rvatior	and Hol	<u>d Time (HT)</u>	) Information		
All samples received within holding time?	Yes	✓	No 🗌			
Container/Temp Blank temperature	Coole	r Temp:	1.4°C		NA 🗆	
Water - VOA vials have zero headspace / no bubbles?	Yes		No 🗆	No VOA vials subm	itted 🗹	
Sample labels checked for correct preservation?	Yes	✓	No 🗌			
Metal - pH acceptable upon receipt (pH<2)?	Yes		No 🗆		NA 🗹	
Samples Received on Ice?	Yes	$\checkmark$	No 🗆			
(Ісе Тур	e: WE	TICE )				
* NOTE: If the "No" box is checked, see comments below.						

Client contacted:

Date contacted:

Contacted by:

Comments:

McCampbell Ar	nalytic <sub>Counts"</sub>	al, Inc.	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269							
P & D Environmental	(	Client Project ID:	#0494;	City of	Date Sampled:	02/08/10				
	]	Emeryville			Date Received:	02/09/10				
55 Santa Clara, Ste.240	(	Client Contact: Pa	ul King	ţ	Date Extracted:	02/09/10				
Oakland, CA 94610		Client P.O.:		, 	Date Analyzed:	02/10/10				
	B	TEX   EDB and 1	2 DCA	by CC/MS*						
Extraction Method: SW5030B	D	Analytical Method	<b>,2-DCA</b> 1: SW826	OB		Work Order:	1002217			
Lab ID	1002217	7-001A								
Client ID	SP	21				Reporting	Limit for			
Matrix	S	5				DF	=1			
DF	1					s	W			
Compound			Conce	entration		mg/kg	ug/L			
						6.6				
Benzene	N	D				0.005	NA			
1,2-Dibromoethane (EDB)	N	D				0.004	NA			
1,2-Dichloroethane (1,2-DCA)	N	D				0.004	NA			
Ethylbenzene	N	D				0.005	NA			
Toluene	N	D				0.005	NA			
Xylenes	N	D				0.005	NA			
		Surrogate Rec	overies	s (%)						
%SS1:	10	)7								
%SS2:	8	4								
Comments										
* water and vapor samples are reported in extracts are reported in mg/L, wipe sample	μg/L, soil les in μg/w	/sludge/solid samples vipe.	in mg/k	g, product/oil/non-a	queous liquid sample	es and all TC	LP & SPLP			
ND means not detected above the reporti	ng limit/m	nethod detection limi	t; N/A m	eans analyte not ap	plicable to this anal	ysis.				

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

	IcCampbell Analyti "When Ouality Counts"	cal, Inc.	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269							
P & D Enviro	onmental	Client Project ID:	#0494; City of	Date Sam	pled: 02/08/10					
55 Santa Clar	a, Ste.240	Emeryvine		Date Rec	eived:	02/09/1	0			
		Client Contact: P	aul King	Date Extr	acted:	02/09/1	0			
Oakland, CA	94610	Client P.O.: Date Analyzed 02/10/10								
Extraction method	<b>To</b> SW3550C	tal Extractable Pet Analytical	roleum Hydrocarbons* nethods: SW8015B			Work Orde	er: 1002217			
Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)		DF	% SS	Comments			
1002217-001A	SP1	S	830		10	103	e1,e11			
Repo	orting Limit for DF =1;	W	NA			N	A			
ND n abo	ove the reporting limit	S	1.0			mg	/Kg			

\* water samples are reported in  $\mu$ g/L, wipe samples in  $\mu$ g/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in  $\mu$ g/L.

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

e1) unmodified or weakly modified diesel is significant e11) stoddard solvent/mineral spirit (?)

Angela Rydelius, Lab Manager



McCampbell Analytical, Inc. "When Ouality Counts" 1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269

### QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil			QC Matri	x: Soil			Batch	ID: 48557		WorkOrder 1002217			
EPA Method SW8015B	Extra	ction SW	3550C			Spiked Sample ID: 1002172-00							
Analyte	Sample	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)								
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD	
TPH-Diesel (C10-C23)	120	40	109	113	1.14	104	106	1.66	70 - 130	30	70 - 130	30	
%SS:	101	25	95	108	12.9	95	97	1.95	70 - 130	30	70 - 130	30	
All target compounds in the Method NONE	Blank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following	exceptions:				

### BATCH 48557 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1002217-001A	02/08/10 2:30 PM	1 02/09/10	02/10/10 7:13 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

A QA/QC Officer

### "When Ouality Counts"

## QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil			QC Matri	x: Soil			BatchID: 48587 WorkOrder				Order 10022	17
EPA Method SW8260B	Extra	ction SW	5030B					5	Spiked Sar	nple ID	: 1002201-0	)04a
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acc	eptance	e Criteria (%)	)
Analyte	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	0.050	75.9	77.2	1.68	86.2	80.3	7.02	70 - 130	30	70 - 130	30
Benzene	ND	0.050	94.4	98.7	4.42	105	100	4.93	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	84.8	81.9	3.52	95.1	89.2	6.37	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	98.4	101	2.13	115	106	7.46	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	93.2	96.4	3.32	106	100	5.55	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	89	91.5	2.83	103	94	9.03	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	90.3	92.9	2.82	103	95	7.83	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	85.3	87.9	2.95	98.1	91.5	6.96	70 - 130	30	70 - 130	30
Toluene	ND	0.050	105	107	1.36	118	112	5.86	70 - 130	30	70 - 130	30
%SS1:	103	0.13	111	112	1.08	113	112	0.775	70 - 130	30	70 - 130	30
%SS2:	121	0.13	111	112	0.523	113	114	0.0106	70 - 130	30	70 - 130	30
All target compounds in the Method I NONE	Blank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following	exceptions:			

#### BATCH 48587 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1002217-001A	02/08/10 2:30 PM	02/09/10	02/10/10 7:55 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



When Ouality	nalytical, Inc.	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269						
P & D Environmental	Client Project ID: #0494;	City of Emeryville	Date Sampled:	02/08/10				
55 Santa Clara, Ste.240			Date Received:	02/09/10				
	Client Contact: Paul King	<b>r</b>	Date Reported:	02/11/10				
Oakland, CA 94610	Client P.O.:		Date Completed:	02/18/10				

### WorkOrder: 1002217

February 22, 2010

Dear Paul:

Enclosed within are:

- 1) The results of the **1** analyzed sample from your project: **#0494; City of Emeryville,**
- 2) A QC report for the above sample,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

(510) 658-6916		_			JUAIL		000	TUL	11	NE			5M	PAG	ε
PROJECT NUMBER:		F	ROJECT PITY 155 EMI	NAME: OF TO FI ERY	EMER ARK VILLE	AUE, CA	LE t		(Es).		L'ELEN RUN	and a link		4	
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SAMPLE NUMBER	DATE	TIME	TYPE		SAMPLE	LOCAT	юн	1900	K	H	31	1	1 4		
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						•			П	1	H	1			
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aliata Dise	2h	-21	9/10	39.	2				TOTAL	HE 3H	NENT) CONTAINS NENT)	25 1	IM	C GUPB	ELLA
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RETINQUISHED BY: (	SIGNATURE	5-1-	DATE	TIME	RECEIVE (SIGNAT	D FOR	LABORATORY	BY:	FUC	S	AMPLE	ANA	VLYSIS F	EQUEST SI	AEC 1
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P

McCampbe 1534 Will Pittsburg, (925) 252	ell Analytical, Inc low Pass Rd , CA 94565-1701 2-9262	•			C	HAII WorkO	V-O rder:	F-C	UST A	rod,	Y RI	ECOF Code: PI	RD deo		Page	1 of	1
		WaterTrax	Write	Dn 🗌 EDF	Γ	Excel		Fax		🖌 Email		HardC	Сору	Thirc	dParty	□ J-	flag
Report to: Paul King P & D Enviror 55 Santa Clar Oakland, CA (510) 658-6916	nmental ra, Ste.240 94610 6 FAX 510-834-0152	Email: lab cc: PO: ProjectNo: #04	@pdenviro 94; City of	.com Emeryville			Bill to: Ac P & 55 Oa	counts   & D Env Santa ( Ikland, (	Payabl ironme Clara, S CA 946	e ental Ste.240 510			Req Dat Dat Dat	uested te Recet te Add-( te Print	TAT: ived: On: ted:	5 02/09 02/17 02/17	days //2010 //2010 //2010
									Req	uested	Tests	(See lege	end be	elow)			
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1002217-001	SP1		Soil	2/8/2010 14:30		А											

### Test Legend:

1	LUFT_S
6	
11	

2	
7	
12	

3	
8	

5	
10	

Prepared by: Shino Hamilton

#### **Comments:** Luft added 2/17/10 per email 5 day

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.

	McCampbo	<u>.</u>	1534 Web: www Te	Willow F w.mccamp lephone: 8	Pass Ro bell.com 377-252	oad, Pittsburg, CA m E-mail: main 2-9262 Fax: 925	94565-1701 @mccampbell.com -252-9269	m				
P & D Environmental Cl				Client Project ID: #0494; City of				te Sampled:	02/08/10			
55 San	Santa Clara, Ste.240						Dat	te Received:	02/09/10			
			Client Cor	ntact: Pa	ul King		Dat	te Extracted:	02/17/10			
Oaklan	d, CA 94610		Client P.O	.:			Dat	te Analyzed:	02/18/10			
Extraction	method: SW3050B			I	LUFT 5 Metals*	5010B				Work O	rder: 10	02217
Lab ID	Client ID	Matrix	Extraction Type	Cadmiur	n Chromium	Lea	ıd	Nickel	Zinc	DF	% SS	Comments
001A	SP1	S	TOTAL	ND	54	26	5	57	110	1	101	
										-		

Reporting Limit for DF =1;	W	TOTAL	NA	NA	NA	NA	NA	NA
above the reporting limit	S	TOTAL	1.5	1.5	5.0	1.5	5.0	mg/Kg

\*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

# means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

TOTAL = Hot acid digestion of a representative sample aliquot.

TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container. DISS = Dissolved metals by direct analysis of  $0.45 \ \mu m$  filtered and acidified sample.

DHS ELAP Certification 1644



Angela Rydelius, Lab Manager



1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269

"When Ouality Counts"

## QC SUMMARY REPORT FOR 6010C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 1002217

EPA Method SW6010B			Extract	tion SW	3050B		BatchID	): 48824	Spik	ed Sample	ID:	1002217-00	1 <b>A</b>
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acc	eptanc	e Criteria (%	5)
, indigite	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Cadmium	ND	50	99.2	98.3	0.861	10	92.4	100	8.22	75 - 125	25	75 - 125	25
Chromium	54	50	NR	NR	NR	10	78.9	89.6	12.7	75 - 125	25	75 - 125	25
Lead	26	50	87	79.8	5.36	10	84.3	84.3	0	75 - 125	25	75 - 125	25
Nickel	57	50	NR	NR	NR	10	83.1	93.2	11.5	75 - 125	25	75 - 125	25
Zinc	110	500	94.8	94.4	0.387	100	89.4	88.4	1.10	75 - 125	25	75 - 125	25
%SS:	101	250	101	100	1.18	250	94	101	6.39	70 - 130	20	70 - 130	20
All target compounds in th NONE	e Method B	lank of th	is extract	ion batch	were ND les	ss than the	e method F	RL with the	e following e	exceptions:			

			<u>BATCH 48824 SL</u>	JMMARY			
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1002217-001A	02/08/10 2:30 PM	02/17/10	02/18/10 1:51 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



McCampbell Ar	nalytical, Inc.	1534 Will Web: www.mc Telepho	low Pass Road, Pittsburg, campbell.com E-mail: m one: 877-252-9262 Fax:	CA 94565-1701 aain@mccampbell.com 925-252-9269
P & D Environmental	Client Project ID: #0494;	City of Emeryville	Date Sampled:	02/08/10
55 Santa Clara Ste 240			Date Received:	02/09/10
55 Suna China, 510.2 10	Client Contact: Paul King		Date Reported:	03/03/10
Oakland, CA 94610	Client P.O.:		Date Completed:	03/03/10

### WorkOrder: 1002217

March 03, 2010

Dear Paul:

Enclosed within are:

- 1) The results of the 1 analyzed sample from your project: **#0494; City of Emeryville,**
- 2) A QC report for the above sample,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

VIRONMENTAL, ata Clara Ave, Sulte 240 Dakland, CA 94610 (510) 658-6916	INC.			C	HAIN OF CUS	 STOD	OC Y I	RECOR	7	PAGE OF
PROJECT NUMBER:	P (	PROJECT NAME: CITY OF EMERY VILLE 1550 FARK AUE EMERYVILLE, CA.				Es);	Caller Caller	ALL THE REAL		
SAMPLED BY: (PRI	NTED AND	SIGNAT	ure)	charl	Deschenes.	IUMBER OF ONTAINERS	Sector H			REMARKS
SAMPLE NUMBER	DATE	TIME	TYPE SU.	Soil	EXCAUNTED FROM -	20	XX	ANX X	4	ICE WARMAL FUDI AF
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	DE	CHLORI	ATED IN	LAB AS   O&	PRESERVED IN LAD		H	+++	++	
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RELINQUISHED BY:	SICNATURE	1	BATE	THE	RECEIVED BY: (SIGNATURE		TOTAL H	O. OF SAMPLES	1	LABORATORY-
Alithe Desi	eli	=21	9/10	39-	PLO -		TOTAL M	a. of contramers segment)	H	MC GUIPBELL ANALYT
RELINQUISHED BY: (	SIGNATURE	R	BATE 9/10	TIME	RECEIVED BY: (SIGNATUR	E)	LABO	ATORY CON	TACT	(B77) 252-9262
RELINQUISHED BY: (	SICNATURE	5-1-	BATE	TIME	RECEIVED FOR LABORATOR (SIGNATURE)	RY BY:	- ALCE	SAMPLE	ANALY	YSIS REQUEST SHEET
Results and billing to P&D Environmental, lab@edenviro.com	o: Inc.				REMARKS: PLEASE G	omas	TE	CONTAIN	ERS	s SP1

McCampbell Analytical, Inc 1534 Willow Pass Rd Pittsburg, CA 94565-1701 (925) 252-9262	•	CHAIN-OF-CU WorkOrder: 100221	JSTODY F B Clien	RECORD ntCode: PDEO	Page	1 of 1
	WaterTrax WriteOn EDF	Excel Fax	🖌 Email	HardCopy	ThirdParty	J-flag
Report to: Paul King P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610 (510) 658-6916 FAX 510-834-0152	Email: lab@pdenviro.com cc: PO: ProjectNo: #0494; City of Emeryville	Bill to: Accounts F P & D Envi 55 Santa C Oakland, C	Payable ronmental Clara, Ste.240 CA 94610	Ree Da Da Da	quested TAT: te Received: te Add-On: te Printed:	5 days 02/09/2010 03/01/2010 03/01/2010
			Requested Test	s (See legend b	elow)	
Lab ID Client ID	Matrix Collection Dat	te Hold 1 2 3	4 5 6	7 8	9 10	11 12

А

2/8/2010 14:30

### Test Legend:

1002217-001

1 STLC_METALS_S	2	3	4
6	7	8	9
11	12		

Soil

5	
10	

<b>1</b>	Prepared	bv:	Shino	Hamilton
----------	----------	-----	-------	----------

### Comments: Luft added 2/17/10 per email 5 day. STLC Cr (24hr) added 03/01/10 per email.

SP1

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.

	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269								
P & D Environmental Client Project ID: #			#0494; City of	#0494; City of Date Sam		02/08/10			
55 Santa Clara	a, Ste.240	Emeryville			Date Received:	02/09/10			
		Client Contact: F	aul King		Date Extracted:	03/01/10	3/01/10-03/03/10		
Oakland, CA	94610	Client P.O.:			Date Analyzed:	03/03/10			
Extraction method	: CA Title 22	Ana	CP Metals*	)10B			Work Ord	ler: 1002217	
Lab ID	Client ID	Matrix	Extraction Type		Chromium	DF	% SS	Comments	
1002217-001A	SP1	S	WET		0.23	1	N/A		

Reporting Limit for $DF = 1$ ;	W	TOTAL	NA	μg/L
ND means not detected at or above the reporting limit	S	WET	0.05	mg/L

\*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

# means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

WET = Waste Extraction Test, i.e., STLC (Soluble Threshold Limit Concentration). DI WET = Waste Extraction Test using DI water (DI STLC).

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager



McCampbell Analytical, Inc. "When Ouality Counts" 1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269

### QC SUMMARY REPORT FOR SW6010B

W.O. Sample Matrix: Soil QC Matrix: Soil						BatchID: 48971			WorkOrder 1002217		17	
EPA Method SW6010B         Extraction CA Title 22         Spiked Sample ID: N/A												
Analyte Sample Spiked MS MSD MS-MSD LCS LCSD LCS-LCSD Acceptance Criteria (%)												
, analyte	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Chromium	N/A	1	N/A	N/A	N/A	94.3	95.4	1.16	N/A	N/A	75 - 125	25
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

### BATCH 48971 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1002217-001A	02/08/10 2:30 PM	1 03/01/10	03/03/10 5:18 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QA/QC Officer