GENERAL ENGINEERING CONTRACTOR A, HAZ #921387

COOK ENVIRONMENTAL SERVICES, INC.

RECEIVED

By Alameda County Environmental Health at 2:34 pm, Oct 25, 2013

April 11, 2013

Leroy Griffin City of Oakland Fire Department Fire Prevention Bureau 250 Frank H. Ogawa Plaza, Suite 3341 Oakland, CA 94612

Subject: Underground Storage Tank Closure 385 26th Street, Oakland

Dear Mr. Griffin,

This report documents the closure of one 550-gallon underground storage tank (UST) at the subject site. The UST was discovered by a paving a grading contractor on February 13, 2013. Cook Environmental Services (CES) was hired by the property owner, the Kyle Milligan and Susan Casentini Trust, to inspect the property on February 14, 2013. CES discovered a buried redwood tank approximately 12 feet in diameter that contained an unknown volume of heating oil.

The structural integrity of the redwood tank had been severely compromised and a large volume of heating oil had impacted surrounding soils. The underground storage tank (UST) was connected to a large cast iron pipe that was probably connected to a fill spout behind the sidewalk on 26^{th} Street.

The City of Oakland Fire Department was notified and Cook Environmental Services, Inc (CES) filed an UST removal permit with the Fire Department on March 4, 2013. A copy of the permit is provided as **Attachment A**. On March 18, 2013, Mr. Griffin requested that an unauthorized release form be submitted for the site. A copy of this form is provided in **Attachment B**.

CES retained Fremouw Environmental Services, Inc (FES) to empty the UST. Since the redwood tank was badly decayed, no triple rinse or decontamination procedures could be performed. FES removed approximately 80 gallons of heating oil from the excavation on March 11, 2013. A sample of the heating oil was collected on March 11, 2013 and analyzed for PCBs. PCBs were not detected. The laboratory report for this analysis is included as **Attachment C**. The two drums of heating oil were disposed of as non-RCRA waste. The hazardous waste manifest for the heating oil is provided in **Attachment D**.

CES excavated the UST and contaminated soil from March 11 to 13, 2013. Leroy Griffin of the City of Oakland Fire Prevention Bureau was onsite. Since the redwood tank was badly decomposed, it could not be removed intact and was taken out in pieces and placed in 10 cubic yard roll off bins along with the contaminated soil. Six bins were filled (approximately 60 CY). The soil in four of the bins was classified as non-hazardous and was disposed of at the Potrero Hills landfill in Suisun, California. Non-hazardous waste manifests for these soils are provided in **Attachment E**.

The soil in two of the bins was classified as non-RCRA hazardous waste and was disposed of at the U.S. Ecology landfill in Beatty, Nevada. Hazardous waste manifests for these soils are provided in Attachment F.

After excavation activities were complete, CES collected two soil samples from the base of the excavation. Sample S1 was collected from the south end of the excavation at depth of approximately 10 feet below grade. Sample S2 was collected from the north end of the excavation (closest to 26th Street) at a depth of approximately 10 feet below grade. Soil samples were collected from the bucket of the excavator and placed in stainless steel sample tubes, labeled and placed on ice in a cooler. Samples were handled using chain-of-custody procedures.

Samples were transported to McCampbell Analytical, Inc. in Pittsburg, California that same day and analyzed for the standard suite of analytes required of a UST containing heating oil. Analyses included total petroleum hydrocarbons as diesel (TPH-d) using EPA method 8015B modified; benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA method 8021B; and naphthalene and MtBE using EPA method 8260B. The samples appeared to be contaminated due to staining and hydrocarbon odor.

BTEX and MtBE constituents were not detected in soil samples above laboratory detection limits. TPH-d concentrations range from 6,500 to 11,000 milligrams per kilogram (mg/kg). Naphthalene concentrations range from 10 to 14 mg/kg. The laboratory analytical reports are provided in **Attachment G**.

In conclusion, there has been a release of heating oil from a former redwood UST that was located in a parking lot adjacent to $385 \ 26^{\text{th}}$ Street. Approximately 80 cubic yards of soil and redwood debris were removed from the site and disposed of offsite. Residual soil contains up to 11,000 mg/kg of TPH-d. BTEX constituents were not detected. Naphthalene was detected at up to 14 mg/kg. Groundwater was not encountered in the excavation.

The site potentially qualifies for closure under the Low-Threat Underground Storage Tank Case Closure Policy established by the State Water Resources Control Board. The following general criteria for low risk closure have been satisfied:

- 1. The unauthorized release is located within the service area of a public water system;
- 2. The unauthorized release consists only of petroleum;
- 3. The unauthorized ("primary") release from the UST system has been stopped;
- 4. Free product has been removed to the maximum extent practicable;
- 5. Secondary source removal has been addressed;
- 6. Soil or groundwater has been tested for MtBE and the results reported in accordance with Health and Safety Code section 25296.15 and
- 7. Nuisance as defined by Water Code section 13050 does not exist at the site.

The only criterion that has not been fully satisfied is the development of a conceptual site model that delineates the lateral and vertical extent of TPH contamination in soil and evaluates whether groundwater quality has been affected. We recommend additional investigation to fill this data gap so that the Site can be evaluated for closure under the Low-Threat Underground Storage Tank Case Closure Policy.

UST Closure Report 385 26th Street Oakland, California

April 11, 2013 Project No. 1095 Page 3

Please call me if you have questions or concerns related to this UST closure report.

Very truly yours, Cook Environmental Services, Inc.

Inn Ces

Tim Cook, P.E. President





ATTACHMENT A UST Removal Permit





Inspection Work Order

В	usiness Name:	STUDIO QUERCUS	Reason:	Tanks
А	ddress:	385 26TH ST	Scheduled:	2013-02-22 2:30PM
J	ob (Insp Ref#):	2013-25951	Assigned To:	Skillern,Sheryl
C	comments:	3/4/13 - Meka Bolds w/Cook Environmental request. CLIENT IS REQUESTING INSPE Removal of UST and 1-inspection. Tim Coo paid. hro	CTION ON 3/6/13. PLEAS	SE CONFIRM. hro
In	voice #	2013-01003	Applicant:	Tim Cook with Cook Environme
In	nvoice Amount	795.50	Applicant Ph#:	925-478-8390
			Contractor:	
			Contractor Ph#:	
		OA BK TI DA	EVIEWED'AND AP AKLAND FIRE DEPA M_{10} TLE: $S(M) = M/4$ TE: $3/4/2$ ALL INSPECTIONS RI 48 HOURS NOTI	EQUIRE



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			REVIEWED AND APPROVE
			OARLAND FIRE DEPARTMEN
	CITY OF OAK	1	BY: Jan Spl
	FIRE PREVENTIO		
	250 Frank Ogawa Plaz Oakland, California		DATE: 3/4/13
	(510) 238-33		ALL INSPECTIONS REQUIRE 48 HOURS NOTICE
APPLICATION for	r PERMIT to INSTAL		COPREPARTANKS
	In the CITY OF O	AKLAND	
	Request Submitte	nl Date: <u>3</u>	3/4/13
PLEASE CIRLCE APPROPRIATE ACTIONS	S: Application is hereby	/ made for pe	rmit to:
(a) Remove (b) Install (c) Repair	(d) Modify	(e) Abandor	n/Close in Place A
(a) Gasoline (b) Fuel oil (c) Diesel	(cl)	_tank(s) and	excavate, commencing:
(a) four feet inside the curb line*; (b) inside the	e property line: (c) above	around (d)	underground tank(s)
*inside curb line, please attach copy of sidewar	tk/excavation permit from	11 PLANNIN	G AND BUILDING
	·- (· -··· ··		
on the Sooth side of	2674	(D)	40 Foot 5 of 26 CHIAND
on the <u>SOUM</u> side of a	<u>200</u>	_SLAVE	<u>10 1001 01 20 OIIAVE.</u>
Site Address: 385 76 M	<u>-</u>	Pres	ent storage hattus oil
Vielo Mill - David Susan CA	Setting Trist		(7) 601 60 97
Owner: Kyle Millis w and Sus w CA	ddress		Phone_(<u>510) 011-0015</u>
388 Belmant St. OA	KMAND, 44 °	14610	
Applicant: TIM Cook CookEnVA	WON MOTTAL 502 Address 405 THE WAN OT	UICES, IN AT BILL	
	WANDI	Yeer,	
Sidewalk surface to be disturbed &			
Remarks Vedwood - pulc, a	lecomposed,	heat o	il released to soil
Signature Tim Colle	`		
		<u></u>	
PLEASE ATTACH/SUBMIT: (All applicants i	must have a City Busine	ss License Pe	ernit)
🔏 (2) Copies of Closure Plans for underground	tank removal (s)		
• (2) Sets of plans and (1) copy of specification	is for above ground tank	removal	
• (2) Sets of plans and (2) sets of application pa		ank installati	on/modifications
• (2) Sets of plans for aboveground tank install		ound touls as	moval and tank repair
• copy or prepare to show Planning and Build NOTE: FOR TANK INSTALLATION PLEAS	ing approvation abovegi SE SUBMIT THIS APPI	JCATION F	ORM ALONG WITH A APPLICATION FOR
PERMIT TO OPERATE, MAINTAIN OR STO			
			1999 - 1997 - 199
	FOR OFFICE USE	ONLY	
Permit No Ar	nt. Recv'd		Date Issued:
Copies to: Electrical Inspection ck	#	Cash	
Re	ceint#	Reev'd	by:
Ke	20011/01		
Re Re	2011/11		

FACILITY INFORMATION

Facility/Residence Name		Business Type
Site Address 385 26th St	City	
Contact Person SUSAN CASETTINI	Title	Phone 510 891-989
E-Mail CASPITINIZO@hotmail.co	<u>~</u> .	Cell Phone 510 388 6608
Owner, Agency, or Corporation Name		Phone
Mailing Address	City	State Zip
EPA ID Number		
Note: Include "Proof of Financial Responsibil	lity"	
•	-	

CONTRACTOR REMOVING TANK(S) AND PIPING:

Contractor Cook Environmental Source	S
Contract Person Tim Cook	Phone 925478-8390
Business Address 485 Treat Nul Ste 2034 City	WALNUT Graf Zip 94597
State Contractors License 921.387	
Note: Attach a copy of Contractors License, Hazardon	s Materials Certification and

Workers Compensation

HAZARDOUS WASTE HAULERS:

Hazardous Waste Hauler, Tank(s) Fremous F	Source Sics EPA ID #
Business Address P.O. Box 2875	City VACANILLE
Contact Phil Fremewic	Phone 707 448-3700
Tank(s) and piping destination	
Hazardous Waste Hauler (Rinsate) Ars about	eEPA ID #A3 Above
Business address AS Above	City II
ContactAS About	e Phone "
Note: Include Hauler License No	License Exp. Date

SAMPLE COLLECTION AND ANALYSIS:

Sample Collector Tim Ceck	P.E. (Company Cook	Envir Soluces
Address 1485 Treft Blud	City WALNUT G	reelc Phone	925 787 6869
Soil/Water Analysis Laboratory	McComobell	Analimail	<u></u>
State certification No. 1644	Contact And	rola Phone	925 252-9269
Business Address 1534 Willow	PASS City Pit	tsh Kydellus	Zip 94565

	TANK(S) INFORM	MATION	
TANK SYSTEM: SIZE (GALLONS)	TANK CONSTRUCTION	SUBSTANCE(S) PREVIOUSLY CONTAINED	
$TANK1_50(?)$	Pedward	HETTELNS OUT APPROVED	
TANK 2		CARLAND FIRE DEPARTMENT	
TANK 3		BY: Jun Charge mot Tak	\bigcirc
TANK 4		TITLE: Stylon Hu Chige II	
		ALL INSPECTIONS REQUIRE 48 HOURS NOTICE	

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Applicant Declaration:

I certify the application information is correct and factual. I declare that I have read and will follow the "procedures to Close Underground Storage tank(s) Systems." I further agree to comply with all applicable City of Oakland Ordinances; Fire Code; Health and Safety Code Chapter 6.7; Title 23, California Code of Regulations.

Applicant Lin Coold Applicant Date^{2/22/18} Print Signature

"This box for OFM use only"

Comments Inspectors Signature Approval Date 3

REVIEWED AND ADPROVED OAKLAND FIRE DEPARTMENT BY: TITLE: SEV DATE: ALL INSPECTIONS REQUIRE **48 HOURS NOTICE**

HEALTH AND SAFETY PLAN FOR UNDERGROUND STORAGE TANK REMOVAL

010)

VIRONMENTAL Ervices, Inc.

> 385 26th Street Oakland, California 95209

PREPARED FOR: Paoli Construction 47 Bret Harte Lane San Rafael, CA 94901

SUBMITTED TO:

Leroy Griffin City of Oakland Fire Prevention Bureau 250 Frank H Ogawa Plaza, Suite 3341 Oakland, CA 94612

PREPARED BY:

Cook Environmental Services, Inc. 1485 Treat Boulevard, Suite 203A Walnut Creek, California

February 25, 2013

ATTACHMENT B Notice of Unauthorized Release

	UNDERGROUND STORAGE TANK (UST) SITE - UN	AUTHORIZED RELEASE / CONTAM	NATION REPORT
10.00	RGENCY HAS STATE OFFICE OF EMERGENCY SERVICES	FOR LOCAL AGENCY USE ONLY	NMENT EMPLOYEE AND THAT I HAVE
	DRT DATE CASE #	REPORTED THIS INFORMATION TO LOCAL OFFICIALS THE HEALTH AND SAFETY CODE.	
Ma	rch 18, 2013		
	NAME OF INDIVIDUAL FILING REPORT PHONE	SIGNATURE	DATE
×	Tim Cook (925)	478-8390 - Pan Cob	E
REPORTED BY	REPRESENTING LOCAL AGENCY REGIONAL BOARD OWNER/OPERATOR OTHER ADDRESS	COMPANY OR AGENCY NAME Cook Envir	onmental Services, Inc.
	1485 Treat Blvd., Ste 203A	Walnut Creek, CA 945	STATE ZIP
RESPONSIBLE	Kyle Milligan and Susan Casentini Trustunknown	CONTACT PERSON Susan Cansentini	PHONE ((510) 891-8893
RESP	388 Belmont St. Oakland CA 94610	CITY	STATE ZIP
	FACILITY NAME (IF APPLICABLE)	OPERATOR	PHONE
LION	ADDRESS		
SITE LOCATION	385 26th Street, Oakland, Alameda Co	unty, CA 94612	ZIP
SI	CROSS STREET Telegraph Ave.		
0	LOCAL AGENCY AGENCY NAME		PHONE
IMPLEMENTING AGENCIES	City of Oakland Fire Department		((510) 238-7759
GENG	REGIONAL BOARD		PHONE
IMPI	San Francisco Bay (Region 2)		((51)) 622-2300
	(1) NAME	QUANTI	TY LOST (GALLONS)
VCES	Heating Oil		Unknown
SUBSTANCES	(2)		Unknown
SCOVERY/ABATEMENT	DATE DISCOVERED 14, 2013 HOW DISCOVERED Tank T	Test Tank Removal ory Control Subsurface Monitoring	Nuisance Conditions
ABATE	DATE DISCHARGE BEGAN	METHOD USED TO STOP DISCHARGE (CHECK	
ERYI	Unknown	Remove Contents Close Tank Close Tank Change Proced	ure
COVI	HAS DISCHARGE BEEN STOPPED?	Replace Tank Other	ure
ā	Yes No IF YES, DATE	Repair Piping	
SOURCE/ CAUSE	SOURCE OF DISCHARGE CAUSE(S) Tank Piping Dispenser Delivery Problem	and a state way to a state of the	
SOL	Submersible Turbine Pump (STP) Other	Overfill Physical/Mechanical Damage Co tion Problem Unknown Other	rrosion
CASE TYPE	CHECK ONE ONLY	and the second	
AZ	Undetermined Soil Only Groundwater Drinking Water - (CHE)	CK ONLY IF WATER WELLS HAVE ACTUALLY BEE	IN AFFECTED)
CURRENT STATUS	Open - Assessment & Interim Remedial Action O	pen - Verification Monitoring pen - Inactive iosed – No Further Action Required	
ACTION	CHECK APPROPRIATE ACTION(S) Human health exposure control? Yes No Unknown Groundwater migration control? Yes No Unknown		
REMEDIAL ACTION	 □ No Action Required (NAR) □ Excavate & Treat (ET) □ Excavate & Dispose (ED) □ Free Product Removal (FPR) 	Treatment at Hookup (TH) Replace Supply (RS)	☐ Other
COMMENTS	80 gals of heating oil and 60 tons of contamina offsite. Verification soil samples were collected direction of the City of Oakland Fire Dept. Lab	from the bottom of the excava	

ATTACHMENT C Laboratory Analytical Report for Heating Oil



McCampbell Analytical, Inc. "When Quality Counts" 1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Cook Environmental Services, Inc.	Date Sampled:	03/11/13	
1485 Treat Blvd, Ste. 203A		Date Received:	03/11/13
1100 IIca Dira, Sec. 20011	Client Contact: Tim Cook	Date Reported:	03/12/13
Walnut Creek, CA 94597	Client P.O.:	Date Completed:	03/12/13

WorkOrder: 1303304

March 12, 2013

Dear Tim:

Enclosed within are:

- 1) The results of the 1 analyzed sample from your project: **#1095; Paoli Construction,**
- 2) QC data for the above sample, and
- 3) A copy of the chain of custody.

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.

The analytical results relate only to the items tested.

Teleph	ww.mccampbe one: (877) 25	Pittsl	Willow P burg, CA	ass Rd 9456	I. 5 Email: 1 Fa						L	八		11			ou	CHA ND	T	IM	C	F	US	L H	24	DY HR		48 H	IR			R SDAY
Report To: Tim C	Cook		E	Bill To	D:											D)	A	nal	ysis	Re	ques	t						C)the	r	Comment
Company: Cook	Environmen	tal Servic	es, Inc.	_												8																
1485	Freat Blvd, S	uite 203A														1 de									1							Filter
	ut Creek, CA	94597	E-Ma	il: teo	ook@coo	kenv	iron	men	tal.	com		_				A									8310							Samples for Metals
Tele: (925) 478-8	390		F	ax: ((925) 478	-839	4					_				2									1.00							analysis:
Project #:1095		_	P	rojec	t Name:	Pac	li Co	nstr	ruct	tion		_		mo		Tent		(0)		5					8270	-						Yes/No
Project Location:		Oakland						_				_		TPHmo		H		803		NEN					625 /	020	020)	-				
Sampler Name &	Signature:					_								S	alen	dau	2	05		\$ 0			(d)		A 6	0/0	/ 60	010				
		SAMPI	LING	LS	ners	N	IAT	RIX				HOD RVED		(8015)	aphtha	nethyl	0 / 8021	(EPA 6	-	2 PCB	41	51	oxys or	/ 8270	s by EP	ls (6010	s (6010	9/6.000				
SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers	Type Containers	Water	Soil	Sludge	Other	ICE	TOP	HNO ₃ Other	BTEX (8021B)	TPH as Diesel (8015) FPA 8260 monthese	EPA 8260 - naphthalene	3010-Pluse 2-methyl napthatene PCD	EPA 601 / 8010 / 8021	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8081	EPA 608 / 8082 PCB's ONLY	EPA 8140/8141	EPA 8150 / 81	EPA 8260 (9 oxys only)	EPA 525 / 625 / 8270	PAH's / PNA's by EPA	CAM-17 Metals (6010 / 6020)	LUFT 5 Metals (6010 / 6020)	Lead (200.8 / 200.9 / 6010)	SPLC Leach	TTLC Leach		
0-1	harrins oil from	3/11	PATY	1	the.	X				V					-	X					-		-	-		-						Rush
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Relinquished By:		Date:	Time:	Recei	ived By:		0		4	0						TION	vo	AS	0&		ME pH<		s	отн	ER							

McCampbell Analytical, 1534 Willow Pass Rd Pittsburg, CA 94565-1701 (925) 252-9262	, Inc.		RECORI ntCode: CESV	-	e 1 of 1				
	WaterTrax	WriteOn	EDF	Excel	EQuIS	🖌 Email		ThirdParty	J-flag
Report to:				Bill	to:		R	equested TAT:	1 day
Tim Cook Cook Environmental Services, Inc. 1485 Treat Blvd, Ste. 203A Walnut Creek, CA 94597 (925) 478-8390 FAX: 925-937-1759	cc: PO:	cook@cookenvi #1095; Paoli Cor			Tim Cook Cook Environr 1485 Treat Blv Walnut Creek	/d, Ste. 203A	D	ate Received: ate Printed:	03/11/2013 03/11/2013
						Requested	Tests (See legen	d below)	

Lab ID	Client ID	Matrix	Collection Date	Hold 1	2	3	4	5	6	7	8	9	10	11	12
						1	-		1	1	1 1		1		· · · · · ·
1303304-001	0-1	Water	3/11/2013 9:00	A											

Test Legend:

1	8081PCB_W
6	
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7	
12	

3	
8	

4	
9	

5	
10	

P	re	par	ed	by:	Jena	Alfaro

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.



Sample Receipt Checklist

Client Name:	Cook Environmenta	I Services, Inc.			Date and	Time Received:	3/11/2013	5:58:02 PM
Project Name:	#1095; Paoli Const	ruction			LogIn Re	viewed by:		Jena Alfaro
WorkOrder N°:	1303304	Matrix: Water			Carrier:	<u>Rob Pringle (M</u>	AI Courier)	
		<u>Cha</u>	<u>in of Cւ</u>	istody (C	OC) Informatior	<u>1</u>		
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 note	d by Client on COC?		Yes	✓	No			
Date and Time o	f collection noted by (Client on COC?	Yes	✓	No 🗌			
Sampler's name	noted on COC?		Yes	✓	No 🗌			
			Sample	Receipt	Information			
Custody seals in	tact on shipping conta	ainer/cooler?	Yes		No 🗌		NA 🖌	
Shipping contain	er/cooler in good con	dition?	Yes	✓	No 🗌			
Samples in prope	er containers/bottles?		Yes	✓	No 🗌			
Sample containe	ers intact?		Yes	✓	No 🗌			
Sufficient sample	e volume for indicated	test?	Yes	✓	No 🗌			
		Sample Pres	ervatio	n and Hol	ld Time (HT) Inf	ormation		
All samples rece	ived within holding tin	ne?	Yes	✓	No 🗌			
Container/Temp	Blank temperature		Coole	er Temp:	3.7°C			
Water - VOA vial	ls have zero headspa	ce / no bubbles?	Yes		No 🗌 No	o VOA vials submi	itted 🗹	
Sample labels ch	necked for correct pre	servation?	Yes	✓	No 🗌			
Metal - pH accep	otable upon receipt (pl	H<2)?	Yes		No 🗌		NA 🗹	
Samples Receive	ed on Ice?		Yes	✓	No 🗌			
		(Ісе Тур	be: WE	TICE)				
* NOTE: If the "N	lo" box is checked, se	ee comments below.						

Comments:

			Toll Fre	4 Willow Pass Road, Pittsburg, CA e Telephone: (877) 252-9262 / Fax w.mccampbell.com / E-mail: main	: (925) 252-9269	
Cook Environmental Services, Inc.		ent Project ID: #	1095; Paoli	Date Sampled:	03/11/13	
1485 Treat Blvd, Ste. 203A	Co	nstruction		Date Received:	03/11/13	
1405 Heat Divu, Stc. 205A	Cli	ent Contact: Ti	m Cook	Date Extracted:	03/11/13	
Walnut Creek, CA 94597	Cli	ent P.O.:		Date Analyzed:	03/11/13	
Organoch Extraction Method: SW3510C	lorine Pes	ticides by GC-E Analytical Method		c Target List) + PCBs*	Work Order: 13	303304
Lab ID	1303304-0	01A			Reporting	Limitfor
Client ID	0-1					F=1
Matrix	W					
DF	20				S	W
Compound			Concentration		µg/kg	µg/L
Aldrin	ND<0.1	0	Concentration	•	NA	0.005
a-BHC	ND<0.2				NA	0.005
b-BHC	ND<0.1				NA	0.005
d-BHC	ND<0.1				NA	0.005
g-BHC	ND<0.4				NA	0.02
Chlordane (Technical)	ND<2.0				NA	0.1
a-Chlordane	ND<1.0				NA	0.05
g-Chlordane	ND<1.0				NA	0.05
p,p-DDD	ND<0.2	0			NA	0.01
p,p-DDE	ND<0.2	0			NA	0.01
p,p-DDT	ND<0.2	0			NA	0.01
Dieldrin	ND<0.2	0			NA	0.01
Endosulfan I	ND<0.4	0			NA	0.02
Endosulfan II	ND<0.4	0			NA	0.02
Endosulfan sulfate	ND<1.0)			NA	0.05
Endrin	ND<0.2				NA	0.01
Endrin aldehyde	ND<1.0				NA	0.05
Endrin ketone	ND<1.0				NA	0.05
Heptachlor	ND<0.2				NA	0.01
Heptachlor epoxide	ND<0.2				NA	0.01
Hexachlorobenzene	ND<10				NA	0.5
Hexachlorocyclopentadiene	ND<20				NA	1.0
Methoxychlor Toxaphene	ND<2.0 ND<10				NA NA	0.1
Aroclor1016	ND<10				NA	0.5
Aroclor1221	ND<10				NA	0.5
Aroclor1221 Aroclor1232	ND<10				NA	0.5
Aroclor1232 Aroclor1242	ND<10				NA	0.5
Aroclor1242 Aroclor1248	ND<10				NA	0.5
Aroclor1254	ND<10				NA	0.5
Aroclor1260	ND<10				NA	0.5
PCBs, total	ND<10				NA	0.5
		Surrogate H	Recoveries (%)			
%SS:	108					
Comments	a3					
* water samples in µg/L, soil/sludge/solid sa	mples in mg/l	g, wipe samples in	ug/wipe, filter samp	les in µg/filter, product/oil/nor	n-aqueous liquid	samples and

all TCLP & SPLP extracts are reported in mg/L.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor.

surrogate diluted out of range or surrogate coelutes with another peak.

a3) sample diluted due to high organic content.



QC SUMMARY REPORT FOR SW8081A/8082

W.O. Sample Matrix: Water	QC Matrix:	Water			BatchID	: 75381		WorkC	rder: 1303304
EPA Method: SW8081A/8082 Extraction: S	W3510C					ę	Spiked Sam	ple ID:	N/A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Aldrin	N/A	1.25	N/A	N/A	N/A	95	N/A	N/A	70 - 130
g-BHC	N/A	1.25	N/A	N/A	N/A	100	N/A	N/A	70 - 130
p,p-DDT	N/A	1.25	N/A	N/A	N/A	85.7	N/A	N/A	70 - 130
Dieldrin	N/A	1.25	N/A	N/A	N/A	109	N/A	N/A	70 - 130
Endrin	N/A	1.25	N/A	N/A	N/A	102	N/A	N/A	70 - 130
Heptachlor	N/A	1.25	N/A	N/A	N/A	95.9	N/A	N/A	70 - 130
%SS:	N/A	1.25	N/A	N/A	N/A	81	N/A	N/A	70 - 130
All target compounds in the Method Blank of this extraction ba NONE	tch were ND	less than th	e method	RL with th	he following	g exceptior	15:		

			BATCH 75381 S	UMMARY			
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1303304-001A	03/11/13 9:00 AM	03/11/13	03/11/13 11:36 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

ATTACHMENT D Hazardous Waste Manifest for Heating Oil

↑ I	se print or type. (Form desig	1. Generator ID Number			2. Page 1 of	3. Emergency	Respon	se Phone	4. Manifest	Form t Tracking N	umber	~
	WASTE MANIFEST	CACOO	27228	310	1) CHEMITRE	-	018	333	8 J.
	 Generator's Name and Mailir TIM COOK 	ng Address				Generator's Sit		ss (if different that	in mailing addre	ess)		
	1485 TREAT BL	VD. STE 203A				385 267	HST					
	Generator's Phone: 9 2 6. Transporter 1 Company Nam	5 478-	8390		1	OAKLA	ND C	A 94901				
[[C IN IC					U.S. EPA ID			
	7. Transporter 2 Company Nam		L SERVICE	SINC			_		U.S. EPAID		017	10
	in the operation is company from	0							U.S. EPAID	Number		
	8. Designated Facility Name an GEM OF RANCH	IO CORDOVA LI	C dba PSC E	ENV. S					U.S. EPA ID	Number	-	
	1.1855 WHITE R RANCHO CORD Facility's Phone: 916 3	OVA CA 95742							LCA	098	n s s	41
		on (including Proper Shippin	g Name, Hazard Clas	ss, ID Number,			10. Conta No.	ainers Type	11. Total Quantity	12. Unit Wt./Vol.		Waste Code
5	1. NON-RCRAI	HAZARDOUS W	ASTE, LIQUIE	DS (OILY	SLUDGE		110.			C	343	
GENERATOR						đ	L	DW	40	9		
1	2.											
$\left \right $	3.					_	_				0	
\mathbf{F}	4											
	4. 14. Special Handling Instructions		2XDMG	55	Sludge E		H	ANDLERS T	O BE 40HR	TRAINED	D AND D	SE PPE
1	 Special Handling Instructions GENERATOR'S/OFFEROF marked and labeled/placard Exporter, I certify that the c I certify that the waste mining 	R'S CERTIFICATION: 1 her ded, and are in all respects i ontents of this consignment mization statement identified	eby declare that the c n proper condition for conform to the terms	contents of this r transport according the attached	consignment a ording to applica d EPA Acknowle e quantity gene	re fully and acc able internation adgment of Con rator) or (b) (if I	curately de al and nat	tional governme	by the proper sh ntal regulations.	inning same	and see also	a the state of the
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DESIGNATED FACILITY TO GENERATOR

ATTACHMENT E Non-Hazardous Waste Manifests for Soil

NON-HAZARDOUS 1. Gene WASTE MANIFEST	Weighed at: POTRERO HILL P.O. Box 68		INC.				FBIG		
5. Generator's Name and Mailing Address SUSAN CASENTINI TH 385 26TH STREET	FAIRFIELD, C			1 Gales	IL DIED I HIGHLIG DECK				
OAKLAND CA 94901 Generator's Phone: 9 2 5:	Deputy: Janes Quinor	192							-
6. Transporter 1 Company Name	Deposit: Janee Quind BILL TO: 2623	01162			U.S. EPA ID			0.4	4
FREMOUW ENVIRO	BILL TO: 2623	NVIRONMENTAL	SERVICES	and the second		and the second se	017	01	1
7. Transporter 2 Company Name	FALIDON L				U.S. EPA ID	Number			
	Vehicle ID:			-	U.S. EPA ID	Number			
8. Designated Facility Name and Site Adds POTRERO HILLS LANE	Reference: PHLF130	075			0.0. et A to	- Human			
3675 POTRERO HILLS	Grid: 14								
SUISUN CA 94585	HaulCust#: ORIGIN-	-DAKLAND			1				
Facility's Phone: 707 432-462	DI STOL STOL	UTA DIN 1616		ī	11. Total	12. Unit			-
9. Waste Shipping Name and Descri	Indea.	MFA BIN J616		ype	-	WIL/VOL			
1. NON HATADOOLIS	TRLR/LP#: 17030D	1			10		NONE		10.2
1 NON HAZARDOUS				Y	13	Y	ALCINE.		
	Origin: UAKLAND - DATE IN: 03/20/20	13 TIME IN	: 12:58:37			-	Notati	A CALL	1
2.	DATE OUT: 03/20/20		1: 13:18:15				NT NACES		
	DATE UDT. OUTLOT					1	THE ALL ST		
	- INBOUND TICKET N	umber: 01-	356019						2
3.						-		1	1
	SCALE 1 G	NUOU HIT	44520 LB			-	al tera		112
	SCALE 3 T	ANL ni.	27360 LB 17160 LB				2.4.24 8 11160	all and a state of the	
4.	NET WEIGH	IT	17160 LB			1			
Sec. 1. 1. 1.					1	1	A State		102
13. Special Handling Instructions and Add BIN-H JEIL	6500 Qty Descripti 8.58 Profile S	ion Soil-T Disp	Amount	HANDL	rs to be 40h	R TRAIN	ED AND US	PPE.	
BINH JEIL	8.58 Profile S	Soil-T Disp	second and fully and pro-	unatabu daarninadi	howe by the proder	ร่วมของคุณ			ged
BINH JCIG	8.58 Profile S RCATION: I hereby declare that the c	Soil-T Disp	second and fully and pro-	unatabu daarninadi	howe by the proder	ร่วมของคุณ		fied, pecka	1
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	NON-HAZARDOUS 1. Generator	POIRERO HILLS LANDFILL, INC.			raciding Num			
1	WASTE MANIFEST	P.0. Box 68	THE	an mailing adds	313M	15.21		
	5. Generator's Name and Mailing Address SUSAN CASENTINI TRUS	FAIRFIELD, CA 94533	POINT & F	an mass of mon	0.001			
-	385 26TH STREET	Deputy: Jaciyn Deleon						
-	Generator's Phone: 9.2.5.4	Deposit: Jaclyn Deleon						
	6. Transporter 1 Company Name	DILL TO: 2623		U.S. EPA ID		0 4 7		7
	FREMOLIW ENVIRONN	FREMOUW ENVIRONMENTAL SERVICES		-		017	101	r
	7. Transporter 2 Company Name			U.S. EPA ID	NUMBER			
	9 Decimpted Facility Name and Sta Address	Vehicle ID: OD1 Reference: PHLF13075		U.S. EPA ID	Number			
	8. Designated Facility Name and Site Address POTRERO HILLS LANDFI	Not of other						
	3675 POTRERO HILLS LA SUISUN CA 94585	HaulCust#: ORIGIN-OAKLAND						
	Facility's Phone: 707 432-4627	DriverOn?: N			-			-
	9. Waste Stripping Name and Description	Louto: 031313NF31	_	11. Total	12. Unit WL/VeL			
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ATTACHMENT F Hazardous Waste Manifests for Soil and Redwood Tank Debris

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DESIGNATED FACILITY TO GENERATOR $\pi \sim$

ATTACHMENT G Laboratory Analytical Report for Soil Samples



McCampbell Analytical, Inc. "When Quality Counts"

Analytical Report

Cook Environmental Services, Inc.	Client Project ID: #1095; Paoli Construction	Date Sampled:	03/13/13
1485 Treat Blvd, Ste. 203A		Date Received:	03/13/13
1405 Heat Dive, Ste. 20571	Client Contact: Tim Cook	Date Reported:	03/19/13
Walnut Creek, CA 94597	Client P.O.:	Date Completed:	03/19/13

WorkOrder: 1303385

April 10, 2013

Dear Tim:

Enclosed within are:

- 1) The results of the 2 analyzed samples from your project: **#1095; Paoli Construction,**
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

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.

The analytical results relate only to the items tested.

Teleph Report To: Tim C	ww.mccampbel one: (877) 25 Cook	Pittsb 1.com 2-9262	Willow P ourg, CA B	ass Rd	L 5 Email: r Fa:						n		Ι.	TUI			01	JND Coel	T (P	[M]	E nal)	0	RUS (es	H	۲ 24	HR		EC 48 H DW)		RD 72 to other	HR	5 DAY
	Treat Blvd, S ut Creek, CA 390 385 26 th St.,	uite 203A 94597	E-Ma F P	ax: (1	-839 Pao	4 li C		ruc	tion	ET	HOD		15) & TPHmo	othalene	ayl napthalene	021	A 602 / 8020)		CB's ONLY			s only)	20	PAH's / PNA's by EPA 625 / 8270 / 8310	5010 / 6020)	010 / 6020)	9 / 6010)			5	Filter Samples for Metals onalysis: Yes / No
SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers	Type Containers	er	Soil	ge	T			HNO ₃ Other	02180	TPH as Diesel (8015) & TPHmo	EPA 8260 - naphthalene	8310 Pluse 2-methyl napthalene	EPA 601 / 8010 / 8021	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8081	EPA 608 / 8082 PCB's ONLY	EPA 8140 / 8141	EPA 8150 / 8151	EPA 8260 (9 oxys only)	EPA 525 / 625 / 8270	PAH's / PNA's by	CAM-17 Metals (6010 / 6020)	LUFT 5 Metals (6010 / 6020)	Lead (200.8 / 200.9 / 6010)	SPLCTeach	TTLC Leach		
5-1 5-2	Pre Nex2 STREET	3/B 3/13		1	TUDE		x			X X			X		S	Č																,
Relinquished By: Relinquished By: Relinquished By:	Z	Date: 3/3/3/ Date: 3/3/3/ Date:	Time: Z & Time: MS Time:	Rece	eived By:				5			X	G H D A	CE/I [®] COOD EAD ECH PPRO RESE	CO SPA LOF	NDIT CE A UNA IATE	BSE TED CO LA	IN L NTA	INE		ME	TAL	s	OTH	IER		CON	AME	INTS			

McCampbell Analytical, 1534 Willow Pass Rd Pittsburg, CA 94565-1701	Inc.			•••••	-0F-CU rder: 1303385		RECOR[-	e 1 of 1
(925) 252-9262	WaterTrax	WriteOn	EDF	Excel	EQuIS	∢ Email	HardCopy	ThirdParty	_J-flag
Report to:				Bi	ll to:		Re	quested TAT:	5 days
Tim Cook Cook Environmental Services, Inc. 1485 Treat Blvd, Ste. 203A Walnut Creek, CA 94597 (925) 478-8390 FAX: 925-937-1759	cc: PO:	tcook@cookenvi #1095; Paoli Coi			Tim Cook Cook Environ 1485 Treat Bh Walnut Creek	vd, Ste. 203A	De	tte Received: tte Printed:	03/13/2013 03/13/2013
						Requested	Tests (See leaen	below)	

Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1303385-001	S-1	Soil	3/13/2013		А	Α	Α									
1303385-002	S-2	Soil	3/13/2013		А	А	А									

Test Legend:

1	8260VOC_S
6	
11	

2	G-MBTEX_S	
7		
12		

3	TPH(DMO)_S
8	



5	
10	

Prepared by: Jena Alfaro

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.



Sample Receipt Checklist

Client Name:	Cook Environmenta	I Services, Inc.			Date and	Time Received:	3/13/2013 3	3:28:27 PM
Project Name:	#1095; Paoli Constr	ruction			LogIn Re	viewed by:		Jena Alfaro
WorkOrder N°:	1303385	Matrix: Soil			Carrier:	<u>Rob Pringle (M</u>	<u>Al Courier)</u>	
		<u>Cha</u>	in of Cu	istody (C	OC) Information	<u>n</u>		
Chain of custody	present?		Yes	✓	No			
Chain of custody	signed when relinquis	shed and received?	Yes	✓	No			
Chain of custody	agrees with sample la	abels?	Yes	✓	No 🗌			
Sample IDs note	d by Client on COC?		Yes	✓	No			
Date and Time o	f collection noted by C	Client on COC?	Yes	✓	No			
Sampler's name	noted on COC?		Yes	✓	No			
			Sample	Receipt	Information			
Custody seals in	tact on shipping conta	iner/cooler?	Yes		No 🗌		NA 🖌	
Shipping contain	er/cooler in good cond	dition?	Yes	✓	No 🗌			
Samples in prope	er containers/bottles?		Yes	✓	No 🗌			
Sample containe	ers intact?		Yes	✓	No 🗌			
Sufficient sample	e volume for indicated	test?	Yes	✓	No 🗌			
		Sample Pres	servatio	n and Ho	<u>ld Time (HT) Inf</u>	ormation		
All samples rece	ived within holding tim	e?	Yes	✓	No 🗌			
Container/Temp	Blank temperature		Coole	r Temp:	2.8°C		NA	
Water - VOA vial	ls have zero headspac	ce / no bubbles?	Yes		No 🗌 No	o VOA vials submi	tted 🗹	
Sample labels ch	necked for correct pres	servation?	Yes	✓	No			
Metal - pH accep	otable upon receipt (pł	1<2)?	Yes		No 🗌		NA 🗹	
Samples Receive	ed on Ice?		Yes	✓	No 🗌			
		(Ісе Тур	be: WE	TICE)				
* NOTE: If the "N	lo" box is checked, se	e comments below.						

Comments:

	McCampbell Anal		Toll Free Telepho	Pass Road, Pittsburg, CA 94565-1701 ne: (877) 252-9262 / Fax: (925) 252-92 pbell.com / E-mail: main@mccampbell.						
Cook E	nvironmental Services, Inc.	Client Project ID	D: #1095; Paoli	Date Sampled: 03/13/13						
1485 Ti	reat Blvd, Ste. 203A	Construction		Date Received: 03/13/1	3					
1105 11	out Dive, Sto. 20311	Client Contact:	Tim Cook	Date Extracted: 03/13/1	3					
Walnut	Creek, CA 94597	Client P.O.:		Date Analyzed: 03/14/1	3					
Extraction	Work	Order: 1	303385							
Lab ID	Client ID	Matrix	Methyl-t-butyl ether (MTBE)	Naphthalene	DF	% SS	Comments			
001A	S-1	S	ND<1.0	10	200	87				
002A	S-2	S	ND<1.0	14	200	91				
					<u>.</u>					
	Reporting Limit for DF =1;	W	NA	NA		NA	1			
	ND means not detected at or above the reporting limit	S	0.005	0.005		mg/K				

liquid samples in mg/L.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or surrogate coelutes with another peak.

DHS ELAP Certification 1644

KF _ Analyst's Initial

	McCampbell Analytical, Inc. "When Quality Counts"						oll Free Telepho	Pass Road, Pittsburg ne: (877) 252-9262 pbell.com / E-mail: 1	/ Fax: (925) 252	-9269		
Cook	Environmental Servi	ces, Inc.		Client H Constru		: #1095; Paoli Date Sampled: 03/13/13						
1485 '	Treat Blvd, Ste. 2034	A		Constru	letton			Date Receiv	ed: 03/13	3/13		
	Client Contact:							Date Extract	ed: 03/1	3/13		
Walnu	it Creek, CA 94597			Client I	P.O.:			Date Analyz	ed: 03/14	4/13-03	8/15/13	
Extractio	Gase on method: SW5030B	oline Ra	nge (C	6-C12)	-	drocarbons		ne with BTEX	X and MTI		rk Order:	1303385
Lab ID	Client ID	Matrix	TP	'H(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	S-1	S				ND<1.0	ND<1.0	ND<1.0	ND<1.0	200	#	d7
002A	S-2	S				ND<1.0	ND<1.0	ND<1.0	ND<1.0	200	110	d7

Reporting Limit for DF =1; ND means not detected at or	W	50	5.0	0.5	0.5	0.5	0.5	ug/L
above the reporting limit	S	1.0	0.05	0.005	0.005	0.005	0.005	mg/Kg

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

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram



	Campbell Anal "When Quality Cou		Toll Free	Willow Pass Road, Pittsburg, CA Telephone: (877) 252-9262 / Fax: 9.mccampbell.com / E-mail: main@	(925) 252-9	0269	
Cook Environme	ntal Services, Inc.	ID: #1095; Paoli	Date Sampled:	03/13	/13		
1485 Treat Blvd,	Ste 2034	Construction		Date Received:	03/13	/13	
1405 Heat Bive,	, Sic. 205A	Client Contact	: Tim Cook	Date Extracted:	03/13	/13	
Walnut Creek, C	A 94597		Date Analyzed:	03/15	/13		
Extraction method: SW	carbons*	v	Vork Order:	1303385			
Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
1303385-001A	S-1	S	11,000	11,000	100	101	e7,e1,e2
1303385-002A	S-2	S	6500	5200	50	102	e1,e7,e2

Reporting Limit for DF =1; ND means not detected at or	W	NA	NA	ug/L
above the reporting limit	S	1.0	5.0	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/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 µg/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; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

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

e2) diesel range compounds are significant; no recognizable pattern

e7) oil range compounds are significant

Angela Rydelius, Lab Manager



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil	QC Matrix	QC Matrix: Soil				: 75463	WorkOrder: 1303385			
EPA Method: SW8015B	Extraction: SW3550B						Spiked Sam	ple ID:	1303388-001A	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)	
,	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH-Diesel (C10-C23)	11	40	NR	NR	NR	98	N/A	N/A	70 - 130	
%SS:	82	25	NR	NR	NR	93	N/A	N/A	70 - 130	
All target compounds in the Method Blank o NONE	f this extraction batch were ND	less than th	e method	RL with th	ne following	g exceptio	ns:			

BATCH 75463 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1303385-001A	03/13/12	3 03/13/13	03/15/13 9:17 PM	1303385-002A	03/13/13	3 03/13/13	03/15/13 11:35 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.

K__QA/QC Officer



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil	QC Matrix:	Soil			BatchID	: 75471	WorkOrder: 1303385			
EPA Method: SW8260B Extraction:	SW5030B					:	Spiked Sample ID: 1303385-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)	
, mayte	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
tert-Amyl methyl ether (TAME)	ND<1	0.050	NR	NR	NR	90.8	N/A	N/A	70 - 130	
Benzene	ND<1	0.050	NR	NR	NR	95.4	N/A	N/A	70 - 130	
t-Butyl alcohol (TBA)	ND<10	0.20	NR	NR	NR	112	N/A	N/A	70 - 130	
Chlorobenzene	ND<1	0.050	NR	NR	NR	95.4	N/A	N/A	70 - 130	
1,2-Dibromoethane (EDB)	ND<0.8	0.050	NR	NR	NR	101	N/A	N/A	70 - 130	
1,2-Dichloroethane (1,2-DCA)	ND<0.8	0.050	NR	NR	NR	101	N/A	N/A	70 - 130	
Diisopropyl ether (DIPE)	ND<1	0.050	NR	NR	NR	99.2	N/A	N/A	70 - 130	
Ethyl tert-butyl ether (ETBE)	ND<1	0.050	NR	NR	NR	99.5	N/A	N/A	70 - 130	
Methyl-t-butyl ether (MTBE)	ND<1	0.050	NR	NR	NR	99.5	N/A	N/A	70 - 130	
Toluene	ND<1	0.050	NR	NR	NR	104	N/A	N/A	70 - 130	
Trichloroethene	ND<1	0.050	NR	NR	NR	93	N/A	N/A	70 - 130	
%SS1:	99	0.12	NR	NR	NR	97	N/A	N/A	70 - 130	
%SS2:	107	0.12	NR	NR	NR	115	N/A	N/A	70 - 130	
%SS3:	87	0.012	NR	NR	NR	112	N/A	N/A	70 - 130	

BATCH 75471 SUMMARY Lab ID Date Sampled Date Extracted Date Analyzed Lab ID Date Sampled Date Extracted Date Analyzed 1303385-001A 03/13/13 03/13/13 03/14/13 1:22 AM 1303385-002A 03/13/13 03/13/13 03/14/13 2:04 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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with 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.

QA/QC Officer



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil	QC Matrix:	QC Matrix: Soil				: 75465	WorkOrder: 1303385			
EPA Method: SW8021B/8015Bm Extraction: S	W5030B					;	Spiked Sam	ple ID:	1303387-002A	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH(btex) [£]	ND	0.60	95.9	101	5.38	99.2	70 - 130	20	70 - 130	
MTBE	ND	0.10	74.2	81.5	8.79	76.6	70 - 130	20	70 - 130	
Benzene	ND	0.10	98.8	104	4.90	98.2	70 - 130	20	70 - 130	
Toluene	ND	0.10	95.8	100	4.13	96.2	70 - 130	20	70 - 130	
Ethylbenzene	ND	0.10	97.9	101	2.91	96.2	70 - 130	20	70 - 130	
Xylenes	ND	0.30	98	101	3.25	97.4	70 - 130	20	70 - 130	
%SS:	110	0.10	79	83	5.12	100	70 - 130	20	70 - 130	
All target compounds in the Method Blank of this extraction ba NONE	atch were ND	less than th	e method	RL with th	he following	g exceptior	15:			

BATCH 75465 SUMMARY									
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed		
1303385-001A	03/13/13	03/13/13	03/14/13 6:06 AM	1303385-002A	03/13/13	3 03/13/13	03/15/13 3:18 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.

 \pounds TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

NR = matrix interference and/or 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.

K____QA/QC Officer