McCampbell Analytical, Inc.
"When Onality Counte"

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
33 Santa Ciara, Stc.240	Client Contact: Paul King	Date Reported: 02/11/10
Oakland, CA 94610	Client P.O.:	Date Completed: 02/11/10

WorkOrder: 1002217

February 11, 2010

Dear	Pau	ıl
------	-----	----

#### 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.

CHAIN OF CUSTODY RECORD

PAGE \_\_\_ OF \_\_\_

5777 1550 F				INEE	EMERYVILLE IRK AUE VILLE, CA			S/t-c-1	Street	6/4			The second		$I_{I_{i}}$		3		
MICHAEL DESCHENES Allichaux			charl	1 Leschence.			The Page 2	NA THE	A ED	$^{\prime}/$	/	/	Page William		REMARKS				
SAMPLE MUMBER	DATE	TIME	l .	J	SAMPLE LOCA	i	NUMBER OF CONTAINERS	1	$I_q^c$		//	$^{\prime}/$		/ «	/				
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RETINOUISHED BY:	(SICHATUR)	8 7	DATE		RECEIVED FOR LABORATORY BY:			T T		\$4	احبار	E AM	AL'	rsis fu	CLUEST S	HECT	s <del>treden dit</del>		
Results and billing to: P&O Environmental, inc. lob@pdenviro.com				PRIOR TO ANALYSIS.															

## McCampbell Analytical, Inc.

# **CHAIN-OF-CUSTODY RECORD**

ClientCode: PDEO

Page 1 of 1

Date Printed: 02/09/2010

-	~
 1534 Willow Pass Rd	
Pittsburg, CA 94565-	170
1534 Willow Pass Rd Pittsburg, CA 94565- (925) 252-9262	

P & D Environmental

55 Santa Clara, Ste.240

Report to: Paul King WorkOrder: 1002217

☐ J-flag	☐ ThirdParty	HardCopy	🗹 Email	∏Fax	☐ Excel	EDF	WriteOn	☐ WaterTra			
5 days	uested TAT:	Req		ill to:	Bil						
			ayable	Accounts Pa		om	lab@pdenviro.co	Email:			
00/00/00/0			onmental	P & D Envir				cc:			
02/09/2010	e Received:	Dat	ara, Ste.240	55 Santa CI				PO:			

Oakland, CA 94610 ProjectNo: #0494; City of Emeryville Oakland, CA 94610 (510) 658-6916 FAX 510-834-0152

			· · · · · · · · · · · · · · · · · · ·													
					Requested Tests (See legend below)											
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		Α	Α						<u>l</u> .	<u> </u>		<u> </u>	

#### Test Legend:

1 MBTEXOXY-8260B_S	2 TPH(D)_S	3	4	5
6	7	8	9	10
44	4.0			

Prepared by: Shino Hamilton

#### Comments:

Comments:

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

## Sample Receipt Checklist

Client Name:	P & D Environmen	ntal			Date	and	Time Received:	2/9/2010 6	:34:36 PM		
Project Name:	#0494; City of En	neryville			Chec	Checklist completed and reviewed b			Shino Hamilton		
WorkOrder N°:	1002217	Matrix <u>Soil</u>			Carrie	ier:	Rob Pringle (Ma	Al Courier)			
Chain of Custody (COC) Information											
Chain of custody	present?		Yes	V	No 🗆						
Chain of custody signed when relinquished and received?				V	№ 🗆						
Chain of custody	agrees with sample l	abels?	Yes	<b>7</b>	№ 🗆						
Sample IDs noted	by Client on COC?		Yes	V	No 🗆						
Date and Time of	collection noted by Cli	ent on COC?	Yes	$\mathbf{V}$	No 🗀						
Sampler's name r	noted on COC?		Yes	✓	No 🗀						
Sample Receipt Information											
Custody seals in	tact on shipping contai	iner/cooler?	Yes		No 🗆			NA 🗹			
Shipping contains	er/cooler in good cond	ition?	Yes	V	No 🗆						
Samples in prope	er containers/bottles?		Yes	✓	No 🗆						
Sample containe	rs intact?		Yes	<b>V</b>	No 🗆						
Sufficient sample	volume for indicated	test?	Yes	<b>V</b>	No 🗆						
		Sample Preser	vatio	n and Ho	old Time (HT	T) inf	<u>formation</u>				
All samples recei	ived within holding time	<b>ə</b> ?	Yes	<b>V</b>	No 🗆						
Container/Temp l	Blank temperature		Coole	er Temp:	1.4°C			na 🗆			
Water - VOA vial	ls have zero headspac	ce / no bubbles?	Yes		No 🗆	No	VOA vials submi	tted 🗹			
Sample labels ch	necked for correct pres	servation?	Yes	$\overline{\mathbf{v}}$	No 🗌						
Metal - pH accep	table upon receipt (pH	<2)?	Yes		No 🗀			NA 🗹			
Samples Receive	ed on Ice?		Yes	<b>✓</b>	No 🗆						
	•	(Ice Type	e: WE	TICE	)						
* NOTE: If the "N	lo" box is checked, se	e comments below.									
			===			===	=====	====	======		
Client contacted:		Date contact	ed:				Contacted	by:			

McCampbell Analytical, Inc
"When Quality Counts"

w den Quanty	Counts		Telephone: 8	11-232-9262 Fax: 923	1-232-3203					
P & D Environmental	Client Pr Emeryvi	roject ID: #0494;	City of	Date Sampled:	02/08/10					
55 Santa Clara, Ste.240				Date Received: 02/09/10						
	Client C	Contact: Paul King	02/09/10							
Oakland, CA 94610	Client P.	O.:		Date Analyzed:	02/10/10					
Extraction Method: SW5030B	Ans	alytical Method: SW826		Work Order:	1002217					
Lab ID	1002217-001A									
Client ID	SP1					Limit for				
Matrix	S									
DF	1				S	w				
Compound Concentration						ug/l.				
Benzene	ND				0.005	NA				
1,2-Dibromoethane (EDB)	ND				0.004	NA				
1,2-Dichloroethane (1,2-DCA)	ND				0.004	NA				
Ethylbenzene	ND				0.005	NA				
Toluene	ND				0.005	NA				
Xylenes	ND		:		0.005	NA				
Surrogate Recoveries (%)										
%SS1:	107									
%SS2:	84									
Comments										

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.

<sup>\*</sup> water and vapor samples are reported in  $\mu g/L$ , soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in  $\mu g/w$  ipe.

McCampbell Analytical, Inc	_
"When Quality Counts"	÷

P & D Environmental	Client Project ID: #0494; City of	Date Sampled: 02/08/10
55 Santa Clara, Ste.240	Emeryville	Date Received: 02/09/10
55 Suria Ciara, Ste.2 10	Client Contact: Paul King	Date Extracted: 02/09/10
Oakland, CA 94610	Client P.O.:	Date Analyzed 02/10/10

#### Total Extractable Petroleum Hydrocarbons\*

Analytical methods: SW8015B Work Order: 1002217

Extraction method SV	73550C	Analytical:		Work Order: 1002				
Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	DF	% SS	Comments		
1002217-001A	SP1	S	830	10	103	el,ell		
			·					
·								
					_			
					ļ	-:-		
	ng Limit for DF =1;	w	NA			A		
	ns not detected at or the reporting limit	S	1.0		mg	/Kg		

above the reporting minit			
* water samples are reported in µg/L, wipe samples in	n μg/wipe, soil/solid/sludge samples in 1	mg/kg, product/oil/non-a	queous liquid samples in mg/L,
and all DISTLC / STLC / SPLP / TCLP extracts are r	reported in ug/L.		

<sup>#</sup> 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.

e1) unmodified or weakly modified diesel is significant

ell) stoddard solvent/mineral spirit (?)

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

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 Matrix: Soil

BatchID: 48557

WorkOrder 1002217

EPA Method SW8015B Extraction SW3550C Spiked Sample ID: 1002172-00													
Analyte	Sample	mple Spiked MS MSD MS-M		MS-MSD	MS-MSD LCS		LCS-LCSD	Acce	ерtапсе	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 Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

#### 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.

## QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 48587

WorkOrder 1002217

11.0. Outriple means: Out														
EPA Method SW8260B	Extra	ction SW	5030B					s	piked San	ple ID	: 1002201-0	04a		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	ptance	ptance Criteria (%)			
Attalyte	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 Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

#### BATCH 48587 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1002217-001.	A 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

McCampbell Analytical,	Inc.
"When Quality Counts"	

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
33 Santa Clara, Ste.240	Client Contact: Paul King	Date Reported: 02/11/10
Oakland, CA 94610	Client P.O.:	Date Completed: 02/11/10

WorkOrder: 1002229

February 11, 2010

Dear	Paul	۱

#### 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.

# P & D ENVIRONMENTAL, INC.

55 Santa Ciara Ave, Suite 246 Oukland, CA 94616 retus 44846914

# CHAIN OF CUSTODY RECORD

PAGE \_\_ OF \_\_

PROJECT NUMBER:			174 °	FEMERYVILLE  ARK AUE.  RYVILLE, CA			<b>☆</b> /					
SAMPLED BY: (PRINTED AND SIG WICKAEL DESCREDES  SAMPLE NUMBER DATE T		SICHAT	URE)	SAMPLE LOCATION	NUMBER OF CONTAINERS	AWA Taes	199		//	//		REWARKS
T1 - 7.0	2/8/10	13.35	ے کی		ł	X	$\sqrt{}$	廿	$\int$		icE	NORMAL TURN AREW
	2/8/10	14100	ICPA* GOOD HUAD DECHI	CONDITION APPROPRIATE CONTAINERS CONTAINERS ORINATED IN LAB PRESERVED IN LA RVATION CONTAINERS		X	X				100	
ELINQUISHED BY: ( LINQUISHED BY: (  ELINQUISHED BY: (  Builts and billing to  ED Environmental,   Depotenties, com	SIGNATURE		DATE/ 2/6 BATE VIO BATE	TIME RECEIVED BY: (SIGNATURE)  TIME RECEIVED BY: (SIGNATURE)  TIME RECEIVED FOR LABORATORY (SIGNATURE)  REMARKS:	BY:	LAE	MAN S	A R	COI	PTAC LIN ANA	(g .YSS R	CRATORY:  CAMPAGIL ANALYTIC  ORATORY PHONE NUMBER  77) 252-9262  EQUEST SHEET  S (V)NO

## McCampbell Analytical, Inc.

## **CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

1534 Willow Pass Rd Pittsburg, CA 94565-1701 (925) 252-9262

P & D Environmental

Oakland, CA 94610

55 Santa Clara, Ste.240

Report to:

Paul King

WorkOrder: 1002229 ClientCode: PDEO 🔽 Email ☐ HardCopy ☐ ThirdParty ☐ J-flag ☐ WaterTrax ☐ WriteOn ☐ EDF Excel Fax Requested TAT: 5 days Bill to: Accounts Payable lab@pdenviro.com Email: P & D Environmental CC: Date Received: 02/09/2010 55 Santa Clara, Ste.240 PO: Date Printed: 02/09/2010 ProjectNo: #0494; City of Emeryville Oakland, CA 94610

(510) 658-6916 FAX 510-834-0152

<del></del>				Requested Tests (See legend below)									elow)				
Lab ID	Client ID	Matrix	Collection Date Ho	old _	1	2	3	<u> </u>	4	5	6	7	8	9	10	11	12
1002229-001	T1 - 7.0	Soil	2/8/2010 13:35		Α	Α											
1002229-002	T2 - 6.0	Soil	2/8/2010 14:00		Α	Α							<u> </u>	<u> </u>	<u> </u>		<u> </u>

#### Test Legend:

1 MBTEXOXY-8260B_S	2 TPH(D)_S	3	4	5
6	7	8	9	10

Prepared by: Shino Hamilton

#### Comments:

Comments:

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

## Sample Receipt Checklist

Client Name:	P & D Environmental				Date :	and Time Received:	2/9/2010 8	:02:10 PM
Project Name:	#0494; City of Emery	ville			Chec	klist completed and r	eviewed by:	Shino Hamilton
WorkOrder N°:	1002229 Mat	rix <u>Soil</u>			Carrie	er: Rob Pringle (M	IAI Courier)	
		<u>Chain</u>	of Cu	stody (C	OC) Informa	ation .		
Chain of custody	/ present?		Yes	V	No 🗆			
Chain of custody	signed when relinquished	and received?	Yes	$\checkmark$	No 🗆			
Chain of custody	agrees with sample labels	?	Yes	$\overline{\checkmark}$	No 🗆			
Sample IDs noted	d by Client on COC?		Yes	V	No 🗆			
Date and Time of	f collection noted by Client or	n COC?	Yes	$\checkmark$	No 🗀			
Sampler's name	noted on COC?		Yes	V	No 🗀			
		<u>Sa</u>	ample	Receipt	Information	<u>1</u>		
Custody seals in	tact on shipping container/o	ooler?	Yes		No 🗆		NA 🗹	
Shipping contain	er/cooler in good condition?		Yes	V	No 🗆			
Samples in prope	er containers/bottles?		Yes	V	No 🗆			
Sample containe	ers intact?		Yes	V	No 🗆			
Sufficient sample	volume for indicated test?		Yes	$\mathbf{V}$	No 🗆			
		Sample Preser	vation	n and Ho	ld Time (HT	) Information		
Alt samples recei	ived within holding time?		Yes	abla	№ 🗆			
Container/Temp (	Blank temperature		Coole	r Temp:	1.4°C		NA 🗆	
Water - VOA via	ls have zero headspace / n	o bubbles?	Yes		No □	No VOA vials subm	itted 🗹	
Sample labels ch	necked for correct preserva	tion?	Yes	$\mathbf{V}$	No 🗌			
Metal - pH accep	stable upon receipt (pH<2)?		Yes		No 🗆		NA 🗹	
Samples Receive	ed on Ice?		Yes	$\mathbf{V}$	No 🗆			
		(Ice Type	e:WE	TICE	)			
* NOTE: If the "N	No" box is checked, see col	mments below.						
======	<b>= = = =</b> = = = = =	<b>-</b> -				=====	====	======
Client contacted;		Date contact	ed:			Contacted	by:	

P & D Environmental		oject ID: #0494;	City of	Date Sampled:	02/08/10	
55 Santa Clara, Ste.240	Emeryvill	ıe		Date Received:	02/09/10	
20 Dailing Claring DUNE IV	Client Co	ontact: Paul King	;	Date Extracted:	02/09/10	
Oakland, CA 94610	Client P.C	O.:		Date Analyzed:	02/10/10	
	BTEX + E	EDB and 1,2-DCA	. by GC/MS*			-
Extraction Method: SW5030B Analytical Method: SW8260			0B	7	Work Order:	1002229
Lab ID	1002229-001A	1002229-002A				
Client ID	T1 - 7.0	T2 - 6.0			Reporting DF	
Matrix	S	S				
DF	1	1			S	w
Compound	Compound Concentration				mg/kg	ug/L
Benzene	ND	ND			0.005	NA
1,2-Dibromoethane (EDB)	ND	ND			0.004	NA
1,2-Dichloroethane (1,2-DCA)	NĐ	ND			0.004	NA
Ethylbenzene	ND	ND			0.005	NA
Toluene	ND	ND			0.005	. NA
Xylenes	ND	ND			0.005	NA
	Surrogate Recoveries (%)					
%SS1:	116	117				
%SS2:	105	104				
Comments			·			

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

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

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

McCampbell Analytical,	Inc.
"When Quality Counts"	

P & D Environmental	Client Project ID: #0494; City of Emeryville	Date Sampled: 02/08/10
55 Santa Clara, Ste.240	Emeryville	Date Received: 02/09/10
	Client Contact: Paul King	Date Extracted: 02/09/10
Oakland, CA 94610	Client P.O.:	Date Analyzed 02/09/00-02/10/10

## Total Extractable Petroleum Hydrocarbons\*

Extraction method SW3550C Analytical methods: SW8015B 1002229 Work Order: TPH-Diesel Lab ID Client ID Matrix DF % SS Comments (C10-C23) 1002229-001A T1 - 7.0 S 15 109 **e**3 1002229-002A T2 - 6.0 S 5.8 111 e2 Reporting Limit for DF =1; ND means not detected at or

above the reporting limit	3	1.0	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 p	ug/L.					

<sup>#</sup> 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.

e2) diesel range compounds are significant; no recognizable pattern

e3) aged diesel is significant



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

## QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 48557

WorkOrder 1002229

EPA Method SW8015B	115B Extraction SW3550C Spiked Sample ID: 1002172-0								01A			
Analyte	Sample	Spiked	Ms	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acc	eptance	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 Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

#### 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	1 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.

Telephone: 877-252-9262 Fax: 925-252-92

## QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 48587

WorkOrder 1002229

EPA Method SW8260B	Extraction SW5030B Spiked Sample ID: 1002201-004a								)04a			
Analida	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	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 Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

#### 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	4 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.

	McCampbell Analytical,	Inc.
····· (	"When Quality Counts"	

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
O-111 CA 04610	Client Contact: Paul King	Date Reported: 12/10/09
Oakland, CA 94610	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.

P & D ENVIRONMENTAL, INC.
55 Sente Clere Ave, Suite 240
Onkland, CA 94610

0912246

RUSH PAGE L OF L

CHAIN OF CUSTODY RECORD

PROJECT NUMBER:				of Of	ENERYVILLE RISK AUE VILLE			ซ์/	Ser.		[			
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SAMPLE NUMBER	DATE	TIME	TYPE		SAMPLE LOCATION	₹₹		J	/	//	' /	1	<b>&amp;</b> /	. 1
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RELINQUISHED BY:		)	12/4/4	MMC	RECEIVED BY: (SIGNATURE)	6	LA	BOR	ATO	₹Y CI	AT HC	CT:	LABORATORY PHONE HUME 19251 253 - 936	ER:
RELINQUISHED BY:	SCNATURE	)	DATE	TIME	RECEIVED FOR LABORATORY (SICHATURE)	BY:			SA	MPLE	ANI	u ysi	S REQUEST SHEET	No. 1
Results and billing t P&O Environmental, lab@pdenviro.com	ox Inc.				REMARKS: 2 VOA'S		(		CO	T.			**************************************	
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# ALLENI OF AUGTORY BEAGIN

Page 1 of 1

McCampbell Ana	lytical, In	<b>c.</b>			CH	A	N-	·Ul	<b>U</b>	US1	UD	Y K	Łij	Ut	{U		rage	1 01	•
1534 Willow Pass R Pittsburg, CA 9456:	a 5-1701				,	Work	Ord	ler:	0912	246	(	Client	Code:	PD	EO				
(925) 252-9262		<b>∰</b> WaterTrax	☐ WriteOn	EDF		Excel		Ε	]Fax	!	<b>☑</b> Email			lardC	ору	☐ Thir	dParty	$\Box$ 1	flag
Report to: Paul King P & D Environmental 55 Santa Clara, Ste.24 Oakland, CA 94610	40	Email: la cc: PO:	ab@pdenviro	o.com			Bill	Acc P & 55 S	D Env Santa	Payabl rironme Clara, CA 946	ental Ste.240				Date	ested Rece Prin	ived:		
(510) 658-6916 FAX	510-834-0152												18.		and be	low)			
Lab ID	Client ID		Matrix	Collection Date	Hold	1	I	2	3	Rec 4	uested 5	6		7	8	9	10	11	12
0912246-001	UST OIL		Oil	12/9/2009 9:30		Α					<u> </u>	[	$\prod$						
Test Legend:  1 G-MBTEX_Oil				3			_		_	4				$\exists$		5			
6 11	7			8		_				9			_			10		. <u>-</u> .	

The following SampID: 001A contains testgroup.

Prepared by: Maria Venegas

Comments:

24hr Rush

Comments:

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

## Sample Receipt Checklist

Client Name:	P & D Environme	ntal				Date a	ınd Time Received:	12/9/2009	2:44:44 PM				
Project Name:			C	Check	list completed and i	reviewed by:	Maria Venegas						
WorkOrder N°:	0912246	Matrix <u>Oil</u>			c	Carrie	r: <u>Rob Pringle (N</u>	MAI Courier)					
		<u>Chain</u>	of Cu	stody (C	OC) Inf	orma	ition						
Chain of custody	y present?		Yes	$\checkmark$	No								
Chain of custody	y signed when relinqui	shed and received?	Yes	V	No								
Chain of custody	y agrees with sample l	abels?	Yes	$\checkmark$	No								
Sample IDs noted	d by Client on COC?		Yes	<b>V</b>	No								
Date and Time or	f collection noted by CI	ient on COC?	Yes	✓	No								
Sampler's name	noted on COC?		Yes	V	No								
Sample Receipt Information													
Custody seals in	stact on shipping conta	iner/cooler?	Yes		No			NA 🗹					
Shipping contain	er/cooler in good cond	lition?	Yes	✓	No								
Samples in prop	er containers/bottles?		Yes	<b>V</b>	No								
Sample containe	ers intact?		Yes	✓	No								
Sufficient sample	e volume for indicated	test?	Yes	$\checkmark$	No								
		Sample Prese	rvatio	n and Ho	old Time	e (HT	) Information						
All samples rece	ived within holding tim	ie?	Yes	abla	No								
Container/Temp	Blank temperature		Coole	er Temp:	7.2°C			NA 🗆					
Water - VOA via	als have zero headspa	ce / no bubbles?	Yes		No	, <b></b>	No VOA vials subn	nitted 🗹					
Sample labels c	hecked for correct pre	servation?	Yes	✓	No								
Metal - pH accep	ptable upon receipt (pl	H<2)?	Yes		No	, <b></b>		NA 🗹					
Samples Receiv	red on Ice?		Yes	~	No	, 🗆							
		(Ice Typ	e: WE	ET ICE	)								
* NOTE: If the "	No" box is checked, s	ee comments below.											
			==	===	===	==			<b>===</b> =====				
Client contacted	:	Date contact	ted:				Contacte	d by:					

Me Me	cCampbell A		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 Environ	mental		Client Project ID:	#0494; City of	Date Sampled:	12/09/09				
55 Santa Clara	, Ste.240		Emeryville		Date Received: 12/09/09					
	,	Ī	Client Contact: Pa	ul King	Date Extracted:	12/09/09				
Oakland, CA 9	4610		Client P.O.:		Date Analyzed	12/10/09				
Extraction method S			Fuel Fing	erPrint *		Work Order: 0912246				
Lab ID	Client ID	Matrix			l Fingerprint					
0912246- 001A	UST OIL	0	This sample sho	-	carbon pattern that resen tromatograms enclosed.	ibles fuel oil, possibly				

File : D:\HPCHEM\GC11\DATAB\12090941.D

Operator : Thu

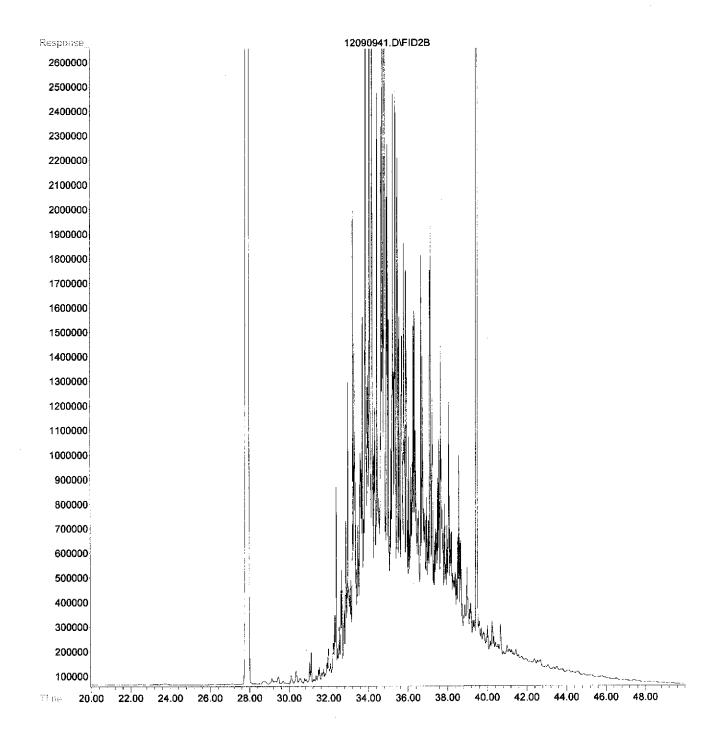
Acquired : 10 Dec 2009 9:59 am using AcqMethod GC11AW.M

Instrument : GC-11

Sample Name: 0912246-001A OIL RE

Misc Info : TPH(FF)\_O

Vial Number: 71



## QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Oil

QC Matrix: Soil

BatchID: 47521

WorkOrder 0912246

EPA Method SW8015B	Extra	ction SW	3550C			Spiked Sample ID: 0912243-012A							
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)		
	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	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.