



McC Campbell Analytical, Inc.

"When Quality Counts"

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

Edd Clark & Associates, Inc. 320 Professional Center Ste. 215 Rohnert Park, CA 94928	Client Project ID: #0585, 002; 1530- 1540 Solano Ave.	Date Sampled: 12/12/07
		Date Received: 12/13/07
	Client Contact: Etta Jon Vanden Bosch	Date Reported: 12/20/07
	Client P.O.:	Date Completed: 12/20/07

WorkOrder: 0712431

December 20, 2007

Dear Etta:

Enclosed within are:

- 1) The results of the **14** analyzed samples from your project: **#0585, 002; 1530- 1540 Solano Ave.,**
- 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

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.

0712431

Chain of Custody Report

P.O. Box 3039, Rohnert Park, CA 94927
Tel: (707) 792-9500 (800) 474-1448 Fax: (707) 792-9504

E-mail in EDF for Upload to Geotracker:

Yes No Initials ETVB

Samplers Signature: Etta Jon Vandenberg

Analysis

P. 1 of 2

EC&A job # <u>0585002</u>		Facility Name & Location: <u>1530-1540 Solano Ave. Albany, CA</u>					<u>TPH_g/BTEX MTBE (8015/8021) TPH_d, TPH_m (8015c)</u>		ICE / t° <u>3.4</u> GOOD CONDITION <input checked="" type="checkbox"/> APPROPRIATE HEAD SPACE ABSENT <input checked="" type="checkbox"/> CONTAINERS <u>yes</u> DECHLORINATED IN LAB <input type="checkbox"/> PRESERVED IN LAB <input type="checkbox"/> VOAS O & G METALS OTHER			Remarks	
Global I.D. # _____													
Field Point Name	Date	Time	Sample ID (depth)	Sample Type	Media	# of Items							
B-2	12/12/07	0945	B-2d6.0	discrete	S	1						← HOLD	
↓		0950	B-2d10.0	↓	↓	1	X	X				HOLD (ET)	
↓		1000	B-2d15.0	↓	↓	1	X	X					
↓		1015	B-2d20.0	↓	↓	1	X	X					
x5 ↓		1340	B-2W	grab	W	4/2	X	X					
B-3A		0830	B-3Ad6.0	discrete	S	1	X	X					
↓		0840	B-3Ad10.0	↓	S	1	X	X					
B-4		0730	B-4d6.0	↓	↓	1						← HOLD	
↓		0740	B-4d11.0	↓	↓	1	X	X					
↓		0750	B-4d15.0	↓	↓	1	X	X					
Relinquished by:		Date:	Time:	Received by:		Relinquished by:		Date:	Time:	Received by:			
<u>Etta Jon Vandenberg</u>		<u>12/13/07</u>	<u>1150</u>	<u>[Signature]</u>		<u>[Signature]</u>		<u>12/13/07</u>	<u>100</u>	<u>K. BURKO</u>			
Relinquished by:		Date:	Time:	Received by:		Relinquished by:		Date:	Time:	Received by:			

Chain of Custody Report

P.O. Box 3039, Rohnert Park, CA 94927
 Tel: (707) 792-9500 (800) 474-1448 Fax: (707) 792-9504

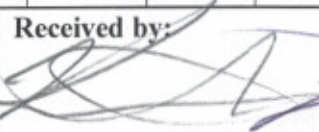
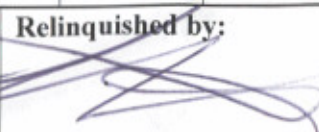
E-mail in EDF for Upload to Geotracker:

Yes No Initials ETUS

Samplers Signature: Etta Jon Vandenberg

Analysis

P. 2 of 2

EC&A job # <u>0585,002</u>		Facility Name & Location:									Remarks
Global I.D. # _____		<u>1530-1540 Solano Ave. Albany, CA</u>									
Field Point Name	Date	Time	Sample ID (depth)	Sample Type	Media	# of Items	TPH ₃ /BTEX/MTBE	(8015/8021B)	TPHD, TPHmo (8015C)		
B-4	<u>12/12/07</u>	<u>0800</u>	<u>B-4d20.0</u>	<u>discrete</u>	<u>S</u>	<u>1</u>	<u>X</u>	<u>X</u>			
↓		<u>1330</u>	<u>B-4W</u>	<u>grab</u>	<u>W</u>	<u>6(4/2)</u>	<u>X</u>	<u>X</u>			
B-5		<u>1100</u>	<u>B-5d6.0</u>	<u>discrete</u>	<u>S</u>	<u>1</u>	<u>X</u>	<u>X</u>			
↓		<u>1115</u>	<u>B-5d10.0</u>	↓	↓	<u>1</u>	<u>X</u>	<u>X</u>			
↓		<u>1210</u>	<u>B-5d15.0</u>	↓	↓	<u>1</u>	<u>X</u>	<u>X</u>			
↓		<u>1350</u>	<u>B-5W</u>	<u>grab</u>	<u>W</u>	<u>4/2</u>	<u>X</u>	<u>X</u>			
Relinquished by:		Date:	Time:	Received by:		Relinquished by:		Date:	Time:	Received by:	
<u>Etta Jon Vandenberg</u>		<u>12/13/07</u>	<u>1150</u>					<u>12/30/07</u>	<u>100</u>		
Relinquished by:		Date:	Time:	Received by:		Relinquished by:		Date:	Time:	Received by:	

+5

+20

McC Campbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0712431

ClientID: ECAR

EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty

Report to:	Etta Jon Vanden Bosch	Email: corpmail@ecaenviron.com	Bill to:	Accounts Payable	Requested TAT: 5 days
	Edd Clark & Associates, Inc.	TEL: (707) 792-9500 FAX: (707) 792-9504		Edd Clark & Associates, Inc.	Date Received: 12/13/2007
	320 Professional Center Ste. 215	ProjectNo: #0585, 002; 1530- 1540 Solano Ave.		320 Professional Center Ste.215	Date Printed: 12/14/2007
	Rohnert Park, CA 94928	PO:		Rohnert Park, CA 94928	

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0712431-002	B-2d 10.0	Soil	12/12/2007	<input type="checkbox"/>	A		A									
0712431-003	B-2d 15.0	Soil	12/12/2007	<input type="checkbox"/>	A		A									
0712431-004	B-2d 20.0	Soil	12/12/2007	<input type="checkbox"/>	A		A									
0712431-005	B-2 W	Water	12/12/2007	<input type="checkbox"/>		A		B								
0712431-006	B-3Ad 6.0	Soil	12/12/2007	<input type="checkbox"/>	A		A									
0712431-007	B-3Ad 10.0	Soil	12/12/2007	<input type="checkbox"/>	A		A									
0712431-009	B-4d 11.0	Soil	12/12/2007	<input type="checkbox"/>	A		A									
0712431-010	B-4d 15.0	Soil	12/12/2007	<input type="checkbox"/>	A		A									
0712431-011	B-4d 20.0	Soil	12/12/2007	<input type="checkbox"/>	A		A									
0712431-012	B-4W	Water	12/12/2007	<input type="checkbox"/>		A		B								
0712431-013	B-5d 6.0	Soil	12/12/2007	<input type="checkbox"/>	A		A									
0712431-014	B-5d 10.0	Soil	12/12/2007	<input type="checkbox"/>	A		A									
0712431-015	B-5d 15.0	Soil	12/12/2007	<input type="checkbox"/>	A		A									
0712431-016	B-5W	Water	12/12/2007	<input type="checkbox"/>		A		B								

Test Legend:

1	G-MBTEX_S	2	G-MBTEX_W	3	TPH(DMO)_S	4	TPH(DMO)_W	5	
6		7		8		9		10	
11		12							

Prepared by: Rosa Venegas

Comments:

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



Sample Receipt Checklist

Client Name: **Edd Clark & Associates, Inc.**

Date and Time Received: **12/13/2007 5:25:43 PM**

Project Name: **#0585, 002; 1530- 1540 Solano Ave.**

Checklist completed and reviewed by: Rosa Venegas

WorkOrder N°: **0712431** Matrix Soil/Water

Carrier: Rob Pringle (MAI Courier)

Chain of Custody (COC) Information

- Chain of custody present? Yes 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 No
- Date and Time of collection noted by Client on COC? Yes No
- Sampler's name noted on COC? Yes No

Sample Receipt Information

- Custody seals intact on shipping container/cooler? Yes No NA
- Shipping container/cooler in good condition? Yes No
- Samples in proper containers/bottles? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

- All samples received within holding time? Yes No
- Container/Temp Blank temperature Cooler Temp: 3.4°C NA
- Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
- Sample labels checked for correct preservation? Yes No
- TTLC Metal - pH acceptable upon receipt (pH<2)? Yes No NA

Client contacted:

Date contacted:

Contacted by:

Comments:



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Edd Clark & Associates, Inc. 320 Professional Center Ste. 215 Rohnert Park, CA 94928	Client Project ID: #0585, 002; 1530- 1540 Solano Ave.	Date Sampled: 12/12/07
	Client Contact: Etta Jon Vanden Bosch	Date Received: 12/13/07
	Client P.O.:	Date Extracted: 12/13/07-12/18/07
		Date Analyzed 12/14/07-12/18/07

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method SW5030B

Analytical methods SW8021B/8015Cm

Work Order: 0712431

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
002A	B-2d 10.0	S	ND	ND	ND	ND	ND	ND	1	89
003A	B-2d 15.0	S	ND	ND	ND	0.011	ND	0.0065	1	91
004A	B-2d 20.0	S	1.3,a	ND	0.0058	0.019	ND	0.016	1	96
005A	B-2 W	W	ND,i	ND	0.54	0.67	ND	ND	1	104
006A	B-3Ad 6.0	S	ND	ND	ND	ND	ND	ND	1	89
007A	B-3Ad 10.0	S	ND	ND	ND	ND	ND	ND	1	91
009A	B-4d 11.0	S	ND	ND	ND	ND	ND	ND	1	90
010A	B-4d 15.0	S	ND	ND	ND	ND	ND	ND	1	98
011A	B-4d 20.0	S	ND	ND	ND	ND	ND	ND	1	71
012A	B-4W	W	ND,i	ND	ND	ND	ND	ND	1	104
013A	B-5d 6.0	S	ND	ND	ND	ND	ND	ND	1	89
014A	B-5d 10.0	S	2.6,g	ND	ND	ND	ND	ND	1	93
015A	B-5d 15.0	S	2.3,g	ND	ND	ND	ND	ND	1	93
016A	B-5W	W	ND,i	ND	0.59	0.52	ND	ND	1	86

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high organic / MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) value derived using a client specified carbon range; o) results are reported on a dry weight basis; p) see attached narrative.



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Edd Clark & Associates, Inc. 320 Professional Center Ste. 215 Rohnert Park, CA 94928	Client Project ID: #0585, 002; 1530-1540 Solano Ave.	Date Sampled: 12/12/07
	Client Contact: Etta Jon Vanden Bosch	Date Received: 12/13/07
	Client P.O.:	Date Analyzed: 12/16/07-12/17/07
		Date Extracted: 12/13/07

Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons as Diesel and Motor Oil*

Extraction method: SW3510C/SW3550C

Analytical methods: SW8015C

Work Order: 0712431

Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0712431-002A	B-2d 10.0	S	ND	ND	1	103
0712431-003A	B-2d 15.0	S	ND	ND	1	104
0712431-004A	B-2d 20.0	S	ND	ND	1	103
0712431-005B	B-2 W	W	ND,i	ND	1	94
0712431-006A	B-3Ad 6.0	S	ND	ND	1	93
0712431-007A	B-3Ad 10.0	S	1.9,b	ND	1	103
0712431-009A	B-4d 11.0	S	ND	ND	1	119
0712431-010A	B-4d 15.0	S	ND	ND	1	108
0712431-011A	B-4d 20.0	S	ND	ND	1	117
0712431-012B	B-4W	W	ND,i	ND	1	80
0712431-013A	B-5d 6.0	S	ND	ND	1	81
0712431-014A	B-5d 10.0	S	6.8,g,k	9.1	1	97
0712431-015A	B-5d 15.0	S	5.9,k	ND	1	83
0712431-016B	B-5W	W	200,k,b,i	ND	1	85

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	250	µg/L
	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.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant; d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant (cooking oil?); h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range; l) bunker oil range (?); no recognizable pattern; m) fuel oil; n) stoddard solvent/mineral spirits; p) see attached narrative.



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0712431

Analyte	EPA Method SW8021B/8015Cm		Extraction SW5030B			BatchID: 32538			Spiked Sample ID: 0712402-002A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) [£]	ND	0.60	107	112	4.31	114	117	2.36	70 - 130	30	70 - 130	30
MTBE	ND	0.10	112	117	4.03	104	121	15.5	70 - 130	30	70 - 130	30
Benzene	ND	0.10	99.6	101	1.63	102	111	8.09	70 - 130	30	70 - 130	30
Toluene	ND	0.10	89.7	91.6	2.10	92.9	98.9	6.20	70 - 130	30	70 - 130	30
Ethylbenzene	ND	0.10	101	105	3.55	104	107	3.04	70 - 130	30	70 - 130	30
Xylenes	ND	0.30	96.3	100	3.74	103	103	0	70 - 130	30	70 - 130	30
%SS:	86	0.10	103	101	1.17	89	95	6.14	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 32538 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0712431-002A	12/12/07 9:50 AM	12/13/07	12/14/07 11:55 PM	0712431-003A	12/12/07 10:00 AM	12/13/07	12/15/07 2:27 AM
0712431-004A	12/12/07 10:15 AM	12/13/07	12/15/07 2:58 AM	0712431-006A	12/12/07 8:30 AM	12/13/07	12/18/07 5:58 PM
0712431-007A	12/12/07 8:40 AM	12/13/07	12/15/07 3:28 AM	0712431-009A	12/12/07 7:40 AM	12/13/07	12/14/07 5:46 PM
0712431-010A	12/12/07 7:50 AM	12/13/07	12/18/07 6:29 PM	0712431-011A	12/12/07 8:00 AM	12/13/07	12/15/07 5:30 AM
0712431-013A	12/12/07 11:00 AM	12/13/07	12/14/07 4:13 PM	0712431-014A	12/12/07 11:15 AM	12/13/07	12/15/07 6:00 AM
0712431-015A	12/12/07 12:10 PM	12/13/07	12/14/07 3:11 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.

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

cluttered chromatogram; sample peak coelutes with surrogate peak.



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder 0712431

EPA Method SW8021B/8015Cm	Extraction SW5030B			BatchID: 32521			Spiked Sample ID: 0712404-003A					
	Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)		
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) [£]	ND	60	102	98.5	3.31	92.1	92	0.140	70 - 130	30	70 - 130	30
MTBE	ND	10	112	105	6.21	102	101	0.586	70 - 130	30	70 - 130	30
Benzene	ND	10	94	92.8	1.29	95.6	90.4	5.68	70 - 130	30	70 - 130	30
Toluene	ND	10	93.5	91.6	2.01	94.5	84.2	11.5	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	104	102	1.63	105	99.7	5.30	70 - 130	30	70 - 130	30
Xylenes	ND	30	103	100	3.28	103	100	3.28	70 - 130	30	70 - 130	30
%SS:	90	10	96	96	0	100	99	0.549	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 32521 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0712431-005A	12/12/07 1:40 PM	12/16/07	12/16/07 9:09 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.

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

cluttered chromatogram; sample peak coelutes with surrogate peak.



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder 0712431

EPA Method SW8021B/8015Cm		Extraction SW5030B			BatchID: 32532			Spiked Sample ID: 0712441-001C				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) [£]	ND	60	98.4	86.7	12.6	94	101	6.78	70 - 130	30	70 - 130	30
MTBE	ND	10	102	104	2.67	93	98.8	6.01	70 - 130	30	70 - 130	30
Benzene	ND	10	92	83.6	9.54	90.1	91.8	1.90	70 - 130	30	70 - 130	30
Toluene	ND	10	90.6	80.9	11.2	89.6	90.1	0.565	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	100	81.5	20.7	103	102	1.74	70 - 130	30	70 - 130	30
Xylenes	ND	30	96.7	96.7	0	100	100	0	70 - 130	30	70 - 130	30
%SS:	99	10	97	88	9.64	95	95	0	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 32532 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0712431-012A	12/12/07 11:00 AM	12/16/07	12/16/07 10:10 PM	0712431-016A	12/12/07 1:50 PM	12/16/07	12/16/07 10:40 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.

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

cluttered chromatogram; sample peak coelutes with surrogate peak.



QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0712431

Analyte	EPA Method SW8015C		Extraction SW3550C			BatchID: 32514			Spiked Sample ID: 0712380-003A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(d)	3800	20	NR	NR	NR	112	110	1.73	70 - 130	30	70 - 130	30
%SS:	109	50	116	120	2.93	118	117	1.17	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 32514 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0712431-002A	12/12/07 9:50 AM	12/13/07	12/17/07 3:45 AM	0712431-003A	12/12/07 10:00 AM	12/13/07	12/17/07 4:55 AM
0712431-004A	12/12/07 10:15 AM	12/13/07	12/17/07 6:06 AM	0712431-006A	12/12/07 8:30 AM	12/13/07	12/17/07 4:07 PM
0712431-007A	12/12/07 8:40 AM	12/13/07	12/17/07 7:17 AM	0712431-009A	12/12/07 7:40 AM	12/13/07	12/17/07 11:50 AM
0712431-010A	12/12/07 7:50 AM	12/13/07	12/16/07 8:51 AM	0712431-011A	12/12/07 8:00 AM	12/13/07	12/17/07 12:58 PM
0712431-013A	12/12/07 11:00 AM	12/13/07	12/16/07 8:39 PM	0712431-014A	12/12/07 11:15 AM	12/13/07	12/17/07 10:23 PM
0712431-015A	12/12/07 12:10 PM	12/13/07	12/17/07 7:17 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.



QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0712431

EPA Method SW8015C		Extraction SW3510C			BatchID: 32515			Spiked Sample ID: N/A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(d)	N/A	1000	N/A	N/A	N/A	111	110	0.901	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	116	115	0.855	N/A	N/A	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 32515 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0712431-005B	12/12/07 1:40 PM	12/13/07	12/17/07 2:55 PM	0712431-012B	12/12/07 11:00 AM	12/13/07	12/16/07 7:28 PM
0712431-016B	12/12/07 1:50 PM	12/13/07	12/17/07 6:06 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.