

Plunkett, Steven, Env. Health

From: Joshua Alexander [j.alexander@ggtr.com]
Sent: Wednesday, August 11, 2010 9:44 AM
To: Plunkett, Steven, Env. Health
Subject: Fw: Analytical Results - 5812 Hollis St. (Emeryville) #9164
Attachments: C11991.PDF; c11991_table.htm; 9164 - Lead Analysis.pdf

Hi Steven,

Attached are the analytical results for 5812 Hollis St. (Emeryville) #9164...

- 9164-R3 is the rinse sample (for purposes of disposal)
- 9164-SP(A-D) is the composite sample collected from from stockpiled overburden
- 9164-VC(A-D) is the composite sample collected from the stockpiled over-excavated material
- 9164-N-10 is the sample collected 2' below the north tank bottom
- 9164-N-12 is the sample collected 4' below the north tank bottom
- 9164-S-10 is the sample collected 2' below the south tank bottom
- 9164-S-12 is the sample collected 4' below the south tank bottom

All tank bottom sample results were ND for all constituents of concern. The stockpiled overburden was 3.39 ppm for TPH-G, 78 ppm for Pb and and ND for all other constituents of concern. The over-excavated material was 72.3 ppm for TPH-G, 31 ppm for Pb, .0805 ppm for Toluene, .298 ppm for Ethylbenzene and 1.59 ppm for total Xylenes.

Thanks,
Josh

Joshua Alexander
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Accutest Laboratories 2105 Lundy Ave San Jose, CA 95131	Client Project ID: #GGTRCASF2913	Date Sampled: 08/04/10
		Date Received: 08/05/10
	Client Contact: Diane Theesen	Date Extracted: 08/05/10
	Client P.O.: #C11991	Date Analyzed: 08/06/10

Lead by ICP*

Extraction method: SW3050B

Analytical methods: SW6010B

Work Order: 1008136

Lab ID	Client ID	Matrix	Extraction Type	Lead	DF	% SS	Comments
1008136-001A	C11991-6	S	TOTAL	78	1	94	
1008136-002A	C11991-11	S	TOTAL	31	1	95	
1008136-003A	C11991-12	S	TOTAL	6.5	1	91	
1008136-004A	C11991-13	S	TOTAL	7.4	1	98	
1008136-005A	C11991-14	S	TOTAL	ND	1	92	
1008136-006A	C11991-15	S	TOTAL	5.7	1	115	


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

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

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

TOTAL = Hot acid digestion of a representative sample aliquot.
 TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.
 DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.

%SS = Percent Recovery of Surrogate Standard
 DF = Dilution Factor

 Angela Rydelius, Lab Manager

Report of Analysis

Client Sample ID: 9164-SP(A-D)COMP	Date Sampled: 08/04/10
Lab Sample ID: C11991-6A	Date Received: 08/04/10
Matrix: SO - Soil	Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3545A	
Project: 5812 Hollis Street-Emeryville, CA	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG16492.D	10	08/18/10	JH	08/13/10	OP2531	GGG494
Run #2							

	Initial Weight	Final Volume
Run #1	10.0 g	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	100	50	mg/kg	
	TPH (Motor Oil) ^b	1240	200	100	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	106%		45-140%

(a) All results reported on wet weight basis.

(b) Estimate value due to multiple discrete peaks mixed with Motor Oil.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 9164-R3	Date Sampled: 08/03/10
Lab Sample ID: C11991-1A	Date Received: 08/04/10
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8015B M SW846 3510C	
Project: 5812 Hollis Street-Emeryville, CA	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	GG16390.D	1	08/16/10	JH	08/12/10	OP2534	GGG492
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel) ^b	0.451	0.094	0.047	mg/l	
	TPH (Motor Oil)	ND	0.19	0.094	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	71%		45-140%

(a) Sample extracted beyond hold time. Client had the sample on hold.

(b) Higher boiling gasoline compounds in Diesel range.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	9164-VC(A-D)COMP	Date Sampled:	08/04/10
Lab Sample ID:	C11991-11A	Date Received:	08/04/10
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8015B M SW846 3545A		
Project:	5812 Hollis Street-Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH7801.D	1	08/13/10	JH	08/12/10	OP2531	GHH335
Run #2							

	Initial Weight	Final Volume
Run #1	10.0 g	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	10	5.0	mg/kg	
	TPH (Motor Oil)	ND	20	10	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	67%		45-140%

(a) All results reported on wet weight basis.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 9164-N-10	Date Sampled: 08/04/10
Lab Sample ID: C11991-12A	Date Received: 08/04/10
Matrix: SO - Soil	Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3545A	
Project: 5812 Hollis Street-Emeryville, CA	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH7802.D	1	08/13/10	JH	08/12/10	OP2531	GHH335
Run #2							

	Initial Weight	Final Volume
Run #1	10.0 g	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	10	5.0	mg/kg	
	TPH (Motor Oil)	ND	20	10	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	70%		45-140%

(a) All results reported on wet weight basis.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 9164-N-12							
Lab Sample ID: C11991-13A					Date Sampled: 08/04/10		
Matrix: SO - Soil					Date Received: 08/04/10		
Method: SW846 8015B M SW846 3545A					Percent Solids: n/a ^a		
Project: 5812 Hollis Street-Emeryville, CA							

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG16493.D	4	08/18/10	JH	08/12/10	OP2531	GGG494
Run #2							

	Initial Weight	Final Volume
Run #1	10.0 g	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	40	20	mg/kg	
	TPH (Motor Oil) ^b	224	80	40	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	98%		45-140%

(a) All results reported on wet weight basis.

(b) Estimate value due to multiple discrete peaks mixed with Motor Oil.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 9164-S-10		
Lab Sample ID: C11991-14A		Date Sampled: 08/04/10
Matrix: SO - Soil		Date Received: 08/04/10
Method: SW846 8015B M SW846 3545A		Percent Solids: n/a ^a
Project: 5812 Hollis Street-Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH7803.D	1	08/13/10	JH	08/12/10	OP2531	GHH335
Run #2							

	Initial Weight	Final Volume
Run #1	10.0 g	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	10	5.0	mg/kg	
	TPH (Motor Oil)	ND	20	10	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	65%		45-140%

(a) All results reported on wet weight basis.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 9164-S-12	Date Sampled: 08/04/10
Lab Sample ID: C11991-15A	Date Received: 08/04/10
Matrix: SO - Soil	Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3545A	
Project: 5812 Hollis Street-Emeryville, CA	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH7804.D	1	08/13/10	JH	08/12/10	OP2531	GHH335
Run #2							

	Initial Weight	Final Volume
Run #1	10.0 g	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (Diesel)	ND	10	5.0	mg/kg	
	TPH (Motor Oil)	ND	20	10	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	64%		45-140%

(a) All results reported on wet weight basis.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Accutest Northern California, Inc.							Aug 10, 2010 12:12 pm	
Job Number:	C11991							
Account:	Golden Gate Tank Removal							
Project:	5812 Hollis Street-Emeryville, CA							
Project Number:								
							Legend:	Hit
Client Sample ID:	9164-R3							
Lab Sample ID:	C11991-1							
Date Sampled:	08/03/2010							
Matrix:	Ground Water							
GC/MS Volatiles (SW846 8260B)								
TPH-GRO (C6-C10)	ug/l	942						
Client Sample ID:	9164-N-10	9164-N-12	9164-S-10	9164-S-12	9164-SP(A-D)COMP	9164-VC(A-D)COMP		
Lab Sample ID:	C11991-12	C11991-13	C11991-14	C11991-15	C11991-6	C11991-11		
Date Sampled:	08/04/2010	08/04/2010	08/04/2010	08/04/2010	08/04/2010	08/04/2010		
Matrix:	Soil	Soil	Soil	Soil	Soil	Soil		
GC/MS Volatiles (SW846 8260B)								
Benzene	ug/kg	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (75)	ND (74)	
Toluene	ug/kg	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (75)	80.5 J	
Ethylbenzene	ug/kg	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (75)	298	
Xylene (total)	ug/kg	ND (3.9)	ND (3.9)	ND (3.9)	ND (3.9)	ND (200)	1590	
1,2-Dibromoethane	ug/kg	ND (0.98)	ND (0.98)	ND (0.98)	ND (0.98)	ND (50)	ND (49)	
1,2-Dichloroethane	ug/kg	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (75)	ND (74)	
Di-Isopropyl ether	ug/kg	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (75)	ND (74)	
Ethyl alcohol	ug/kg	ND (98)	ND (98)	ND (98)	ND (98)	ND (5000)	ND (4900)	
Ethyl tert-Butyl Ether	ug/kg	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)	ND (75)	ND (74)	
Methyl Tert Butyl Ether	ug/kg	ND (0.98)	ND (0.98)	ND (0.98)	ND (0.98)	ND (50)	ND (49)	
Tert-Amyl Methyl Ether	ug/kg	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)	ND (60)	ND (59)	
Tert Butyl Alcohol	ug/kg	ND (9.8)	ND (9.8)	ND (9.8)	ND (9.8)	ND (500)	ND (490)	
TPH-GRO (C6-C10)	ug/kg	ND (49)	ND (49)	ND (49)	ND (49)	3390 J	72300	

Tank removal excavation soil
Samples

Stock Pile No Diesel Analysis
Presented

Stock pile

Hayward City Hall