northgate

environmental management, inc.

January 7, 2010

Mr. Stuart Rickard
Placeworks LLC
C/O Wactor & Wick LLP
180 Grand Avenue, Suite 950
Oakland, California 94612

RE: UST Soil Sampling Test Results
3645 San Pablo Avenue
Emeryville, California

Dear Mr. Rickard:

This letter summarizes the chemical test results from one soil sample collected during the in-place abandonment of an underground storage tank (UST) at 3645 San Pablo Avenue in Emeryville, California (the Site). The Site consists of an approximate 4,200 square-foot triangular shaped parcel identified as Assessor's Parcel Number 049-0480-001, located at the intersection of San Pablo Avenue and Adeline Street. The site is currently under construction for a new commercial building.

During the installation of the fire line main, an abandoned UST was encountered in the southwest corner of the Site. The UST is located beneath the corner of the building currently under construction on the Site. The tank was cleaned and properly abandoned in place on December 23, 2009 by Cornerstone Environmental Contractors, Inc, under permit from the Alameda County Department of Environmental Health (ACDEH). Under the direction and observation of Mr. Robert Weston of ACDEH, Northgate Environmental Management (Northgate) collected one soil sample from approximately two feet below the bottom of the abandoned UST. As requested by ACDEH, the sample was analyzed for a variety of chemical compounds as summarized below.

SOIL SAMPLING ACTIVITIES

On December 23, 2009, Northgate collected one soil sample at a depth of 5.5 – 6.0 feet below the ground surface (bgs) from a location approximately 2-feet east of the abandoned UST. The sample was collected from a hand-auger boring using a slide hammer fitted with a clean 2-inch diameter by 6-inch long brass tube. A photoionization detector (PID) was used to screen the soil for the presence of volatile compounds during sampling. A slight hydrocarbon odor was detected on the soil started at approximately 4 feet bgs. PID readings increased with depth from

4 feet to 5.5 feet bgs. The soil became moist at approximately 5.25 feet bgs. Mr. Weston requested that the soil sample be collected from 5.5 – 6.0 feet bgs. The brass tube containing the soil sample was sealed with Teflon-lined end caps, labeled, and placed on ice in a cooler for immediate transport to Curtis & Tompkins Laboratory of Berkeley, California under chain-of-custody control. The soil sample was analyzed for the following constituents in accordance with the Recommended Minimum Verification Analysis for Underground Tank Leaks, Table #2, as requested by the ACDEH:

- Total petroleum hydrocarbons (TPH) as gasoline (TPH-g), diesel (TPH-d), and oil (TPH-mo) using EPA Method 8015;
- Volatile organic compounds (VOCs) including benzene, toluene, ethylbenzene, and xylenes (BTEX), Methyl Tert-butyl Ether (MTBE), EDB and EDC, TAME, ETBE, DIPE, TBA, and EtOH, using EPA Method 8260;
- Polychlorinated biphenyls (PCBs) using EPA Method 8020;
- Pentachlorophenol (PCP) and Polynuclear Aromatic Hydrocarbons (PNAs) using EPA Method 8270;
- 1,4-Dioxane using EPA Method 8270-SIM; and
- 5-LUFT metals using EPA Method 6010.

Chemical results from the soil sample analysis are presented in Table 1. We recommend that these test results be submitted to the ACDEH in accordance with the UST abandonment permit requirements.

CLOSING

We appreciate the opportunity to provide service to you on this project. If you should have any questions or require additional information, please do not hesitate to call.

Sincerely,

Northgate Environmental Management, Inc.

Dennis Laduzinsky, C.E.G., R.E.A.
Principal

Enclosures: Table 1
Figure 1
Laboratory Analytical Report

TABLE 1
Soil Sample Analytical Results

Analyte	Units	Soil Sample Location and Depth	Environmental Screening Level (ESL)	
		UST-1-6.0	Direct Exposure	Groundwater Protection
TPH as Gasoline	mg/kg	980	450	180
TPH as Diesel	mg/kg	870*	450	180
TPH as Oil	mg/kg	3,300	3,700	ne
Volatile Organic Compounds				
Benzene	µg/kg	<770	270	2,000
Toluene	µg/kg	2,300	210,000	9,300
Ethylbenzene	µg/kg	1,500	5,000	4,700
Xylenes	µg/kg	11,400	100,000	11,000
MTBE	µg/kg	<770	65,000	ne
ETBE	µg/kg	<770	ne	ne
TAME	µg/kg	<770	ne	ne
DIPE	µg/kg	<770	ne	ne
TBA	µg/kg	<15,000	320,000,000	18,000,000
EtOH	µg/kg	<150,000	ne	ne
Propylbenzene	µg/kg	1,800	ne	ne
1,3,5-Trimethylbenzene	µg/kg	5,100	200,000**	ne
1,2,4-Trimethylbenzene	µg/kg	16,000	280,000**	ne
2-Butanone	µg/kg	<1,500	21,000	3,900
1,2-Dibromoethane (EDB)	µg/kg	<770	440	1,400,000
1,2-Dichloroethane (EDC)	µg/kg	<770	480	2,000,000
Naphthalene	µg/kg	6,300	2,800	4,800
Other VOCs	µg/kg	ND	na	na
Semi-Volatile Organic Compounds				
Naphthalene	µg/kg	3,300	2,800	4,800
2-Methylnaphthalene	µg/kg	6,100	440,000	21,000
PAH	µg/kg	ND	na	na
PCP	µg/kg	<8,100	9,000	7,900
Other SVOCs	µg/kg	ND	na	na
1,4-Dioxane	µg/kg	<41	110,000	340,000,000
Polychlorinated Biphenyls				
Arochlor-1016	µg/kg	<15	740	14
Arochlor-1221	µg/kg	<30	740	14
Arochlor-1232 - 1260	µg/kg	<15	740	14
Metals				
Cadmium	mg/kg	1.4	7.4	ne
Chromium	mg/kg	39	310,000	ne
Lead	mg/kg	84	750	ne
Nickel	mg/kg	51	3,400	ne
Zinc	mg/kg	220	61,000	ne

NOTES

mg/kg: Milligrams per kilogram (parts per million)

µg/kg: Micrograms per kilogram (parts per billion)

*: Sample exhibits chromatographic pattern which does not resemble laboratory standard

**: ESL not established, USEPA Region 9 - Regional Screening Levels for industrial soils (April 2009) shown

ND: Not detected above the laboratory method reporting limit; limits vary by compound

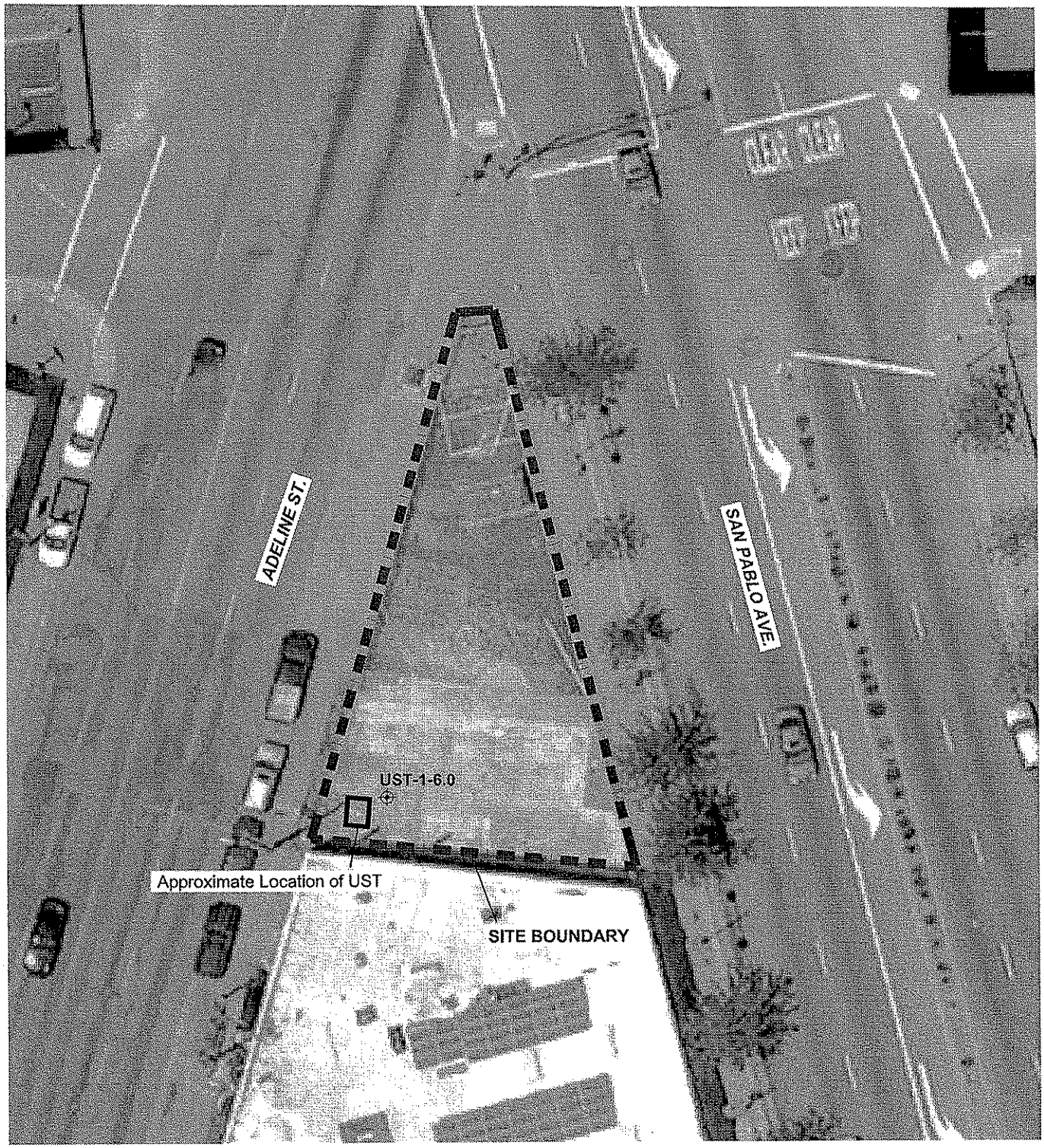
<: Not detected at or above the indicated laboratory method reporting limit

ESL: RWQCB Region 2 - Environmental Screening Levels for shallow soil (<10 feet deep)

- Commercial land use; groundwater is not a drinking water source

na: Not applicable

ne: Not established



LEGEND:

UST-1-6.0 ⊕ UST sampling location

N

0 15 30

Scale (Feet)

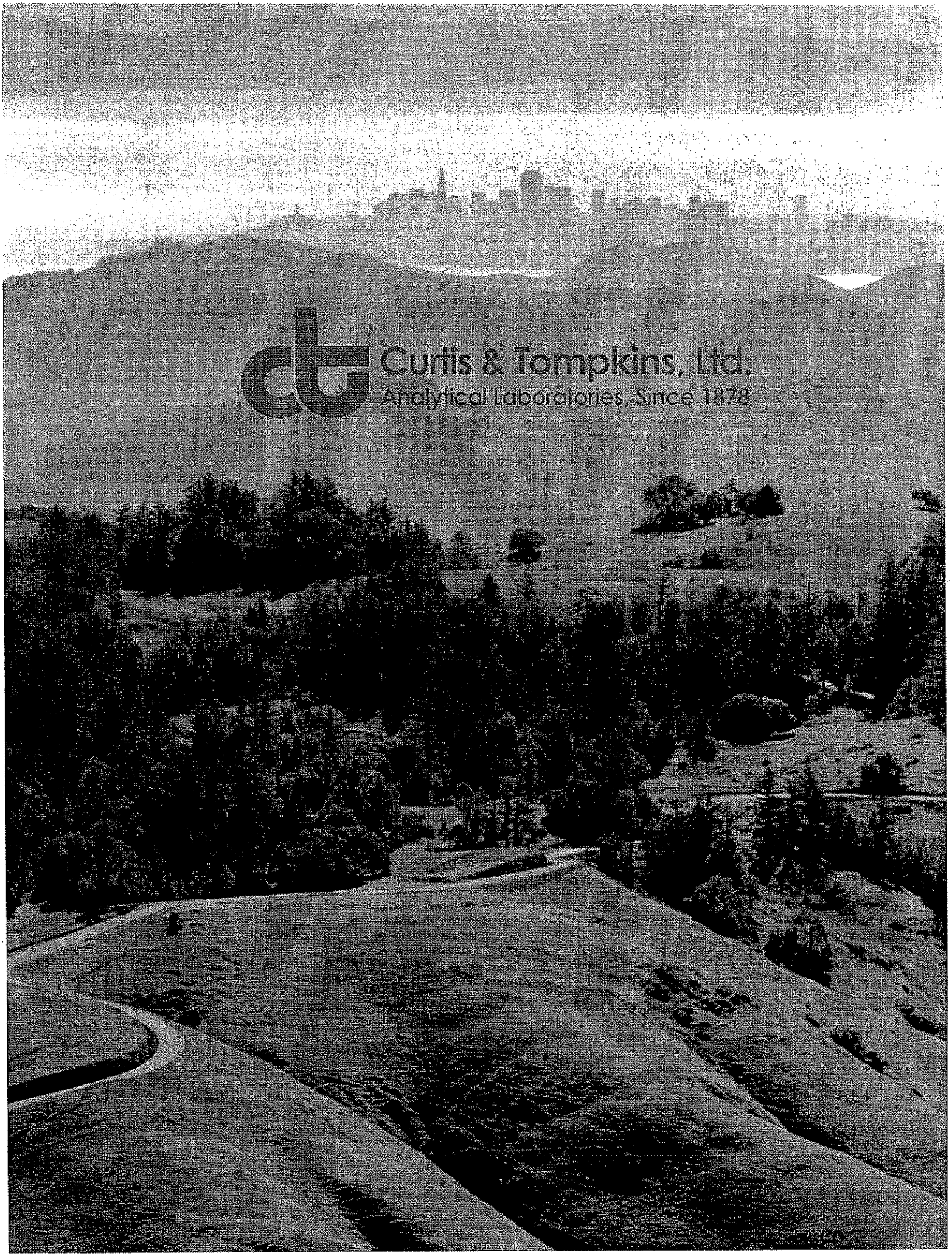
FIGURE 1
Site Plan

UST Soil Sampling Report
3645 San Pablo Avenue
Emeryville, California

northgate
environmental management, inc.

Project No. 1141.08

G:\Projects\Temp\1141 Webber & Wick\1141.08 3645 San Pablo\1141.08 UST\Figure\Figure 1 - Site Plan.dwg Layout: 8.5x11-P User: dlen Jan 04, 2016 - 4:23pm


Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 217460
ANALYTICAL REPORT

Northgate Environmental Management	Project : 1141.08
300 Frank H. Ogawa Plaza	Location : 3645 San Pablo Ave.
Oakland, CA 94612	Level : II

Sample ID	Lab ID
UST-1-0.6	217460-001

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 01/05/2010
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	217460
Client:	Northgate Environmental Management
Project:	1141.08
Location:	3645 San Pablo Ave.
Request Date:	12/23/09
Samples Received:	12/23/09

This data package contains sample and QC results for one soil sample, requested for the above referenced project on 12/23/09. The sample was received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
High surrogate recovery was observed for bromofluorobenzene (FID) in UST-1-0.6 (lab # 217460-001); the corresponding trifluorotoluene (FID) surrogate recovery was within limits. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
No analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):
UST-1-0.6 (lab # 217460-001) was diluted due to high non-target analytes. No other analytical problems were encountered.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):
Low recoveries were observed for 1,4-dioxane in the MS/MSD for batch 158723; the parent sample was not a project sample, and the LCS was within limits. High surrogate recoveries were observed for nitrobenzene-d5 in UST-1-0.6 (lab # 217460-001) and the MS/MSD for batch 158723. No other analytical problems were encountered.

PCBs (EPA 8082):
All samples underwent sulfuric acid cleanup using EPA Method 3665A. All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. Matrix spikes QC527173,QC527174 (batch 158633) were not reported because the parent sample required a dilution that would have diluted out the spikes. No other analytical problems were encountered.

Metals (EPA 6010B):
No analytical problems were encountered.

Moisture (ASTM D2216/CLP):
No analytical problems were encountered.

47760

northgate environmental management, inc.

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

№ 001770

Project No.: 1141.08	Project Location: EMERYVILLE, CA	Date: 12/23/09	Serial No.: 1 of 1
Project Name: 3645 SAN PABLO AVE.	Field Logbook No.: DAR 12/23/09		Samplers: KEVIN HULTGREN
Sampler (Signature)			

Sample No.	Date	Time	Lab Sample No.	No. of Containers	Sample Type	VOC's, BTEX, TPH-G 8260, 8260	TPH-D ext, grease 8015M	1,4 Dioxane 8270m	LUFT 5 metals (CD, Cr, Pb, Ni, Zn)	PCB, PCP, PNA, creosote 8270	MTBE, TAME, ETBE, DIPE, TBA, EtOH 8260			HOLD	RUSH	REMARKS
VSP-1-0.0	12/23	1540		1	Soil	X	X	X	X	X	X					STANDARD 5-DAY TAT
																REPORT RESULTS TO: DENNIS.LADUZINSKY@NGEM.
																Please Compensate FOR SATURATED SAMPLE

Relinquished by: (Signature)	Date 12/23/09	Time 1622	Received By: (Signature)	Date 12/23/09	Time 1622
Relinquished by: (Signature)	Date	Time	Received By: (Signature)	Date	Time
Method of Shipment: DROP OFF AT LAB	Date 12/23/09	Time	**Comments:**		

Sample Collector: Northgate Environmental Management, Inc.
300 Frank H Ogawa Plaza, Suite 510
Oakland, California 94612
ph - (510) 839 0688 / fax - (510) 839-4350

Analytical Laboratory: Curtis + Tompkins ATTN: MICAH SMITH

COOLER RECEIPT CHECKLIST Curtis & Tompkins, Ltd.

Login # Z17460 Date Received 12.23 Number of coolers 1
Client North Coute Environmental Project 3645 San Pablo AVE.

Date Opened 12-23 By (print) Elias Tsadik (sign) Elias Tsadik
Date Logged in 12-23-10 By (print) M. VILLAPUDUA (sign)

1. Did cooler come with a shipping slip (airbill, etc) YES (NO)
Shipping info

2A. Were custody seals present? ... ☐ YES (circle) on cooler on samples ☒ NO
How many Name Date
2B. Were custody seals intact upon arrival? YES NO (N/A)
3. Were custody papers dry and intact when received? YES NO
4. Were custody papers filled out properly (ink, signed, etc)? (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) (YES) NO
6. Indicate the packing in cooler: (if other, describe)

☒ Bubble Wrap ☐ Foam blocks ☐ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation:

Type of ice used: ☐ Wet ☒ Blue/Gel ☐ None Temp(°C)

☒ Samples Received on ice & cold without a temperature blank

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO
If YES, what time were they transferred to freezer?
9. Did all bottles arrive unbroken/unopened? (YES) NO
10. Are samples in the appropriate containers for indicated tests? (YES) NO
11. Are sample labels present, in good condition and complete? (YES) NO
12. Do the sample labels agree with custody papers? (YES) NO
13. Was sufficient amount of sample sent for tests requested? (YES) NO
14. Are the samples appropriately preserved? YES NO (N/A)
15. Are bubbles > 6mm absent in VOA samples? YES NO N/A
16. Was the client contacted concerning this sample delivery? YES (NO)
If YES, Who was called? By Date:

COMMENTS
ID# on sample UST-1-6.0

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8015B
Field ID:	UST-1-0.6	Batch#:	158684
Matrix:	Soil	Sampled:	12/23/09
Units:	mg/Kg	Received:	12/23/09
Basis:	dry	Analyzed:	12/28/09

Type:	SAMPLE	Moisture:	19%
Lab ID:	217460-001	Diln Fac:	25.00

Analyte	Result	RL
Gasoline C7-C12	980	31

Surrogate	%REC	Limits
Trifluorotoluene (FID)	123	38-168
Bromofluorobenzene (FID)	232 *	27-175

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC527348		

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	99	38-168
Bromofluorobenzene (FID)	100	27-175

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC527349	Batch#:	158684
Matrix:	Soil	Analyzed:	12/28/09
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	5.000	4.744	95	74-123

Surrogate	%REC	Limits
Trifluorotoluene (FID)	121	38-168
Bromofluorobenzene (FID)	107	27-175

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	217476-001	Batch#:	158684
Matrix:	Soil	Sampled:	12/23/09
Units:	mg/Kg	Received:	12/23/09
Basis:	as received	Analyzed:	12/28/09

Type: MS Lab ID: QC527350

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.1622	10.42	8.416	79	14-138

Surrogate	%REC	Limits
Trifluorotoluene (FID)	115	38-168
Bromofluorobenzene (FID)	110	27-175

Type: MSD Lab ID: QC527351

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.10	8.518	83	14-138	4	52

Surrogate	%REC	Limits
Trifluorotoluene (FID)	120	38-168
Bromofluorobenzene (FID)	114	27-175

RPD= Relative Percent Difference

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Sample Name: **217460-001,158684,25x,tvh**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\362_017**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe357.met

Software Version 3.1.7
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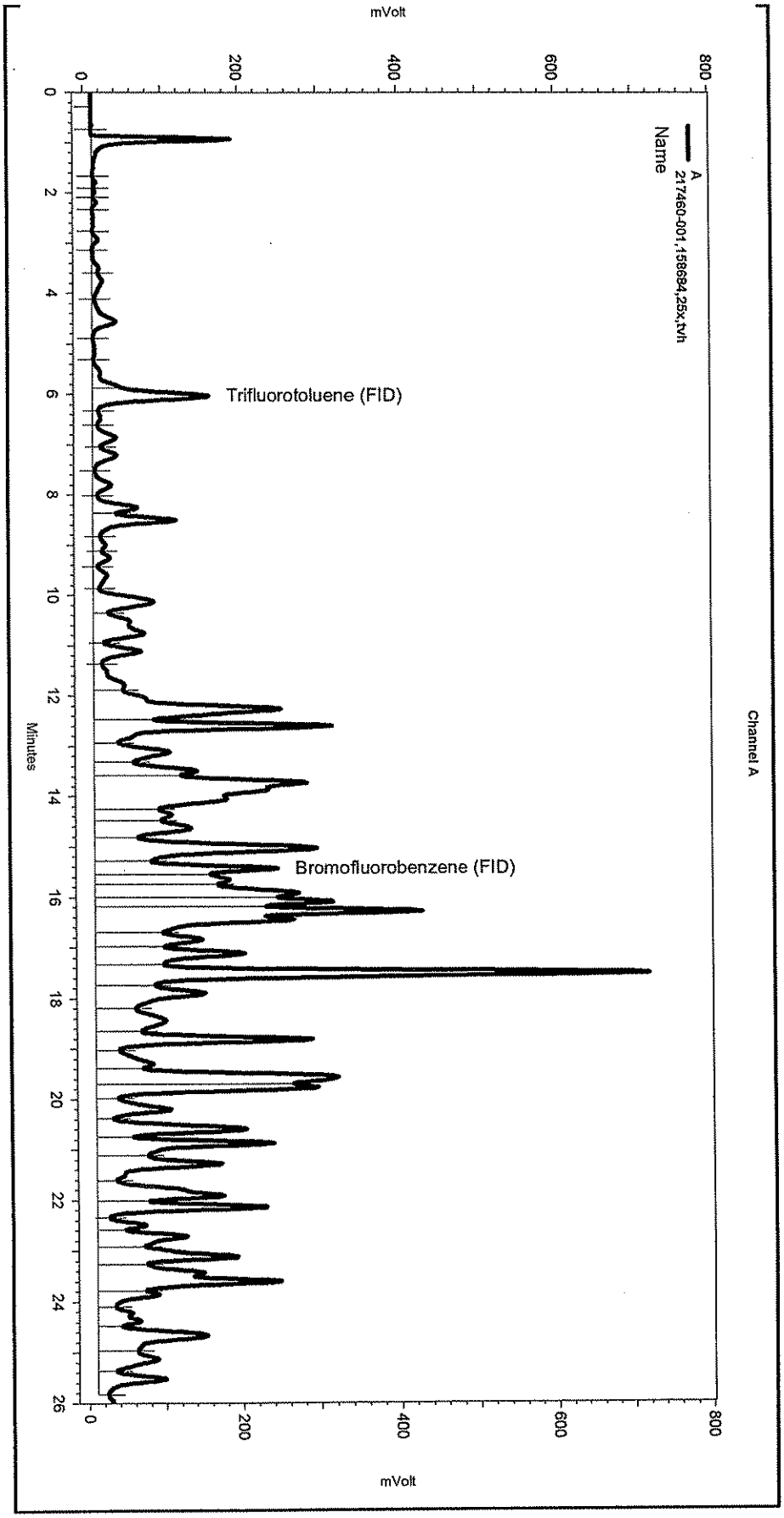
Analysis Date: 12/29/2009 8:52:02 AM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: b



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Yes	Threshold	0	0	60

Manual Integration Fixes

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Yes	Split Peak	5.883	0	0

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Sample Name: **ccv/lcs,qc527349,158684,tvh,s13493,2.5/5000**
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Software Version 3.1.7
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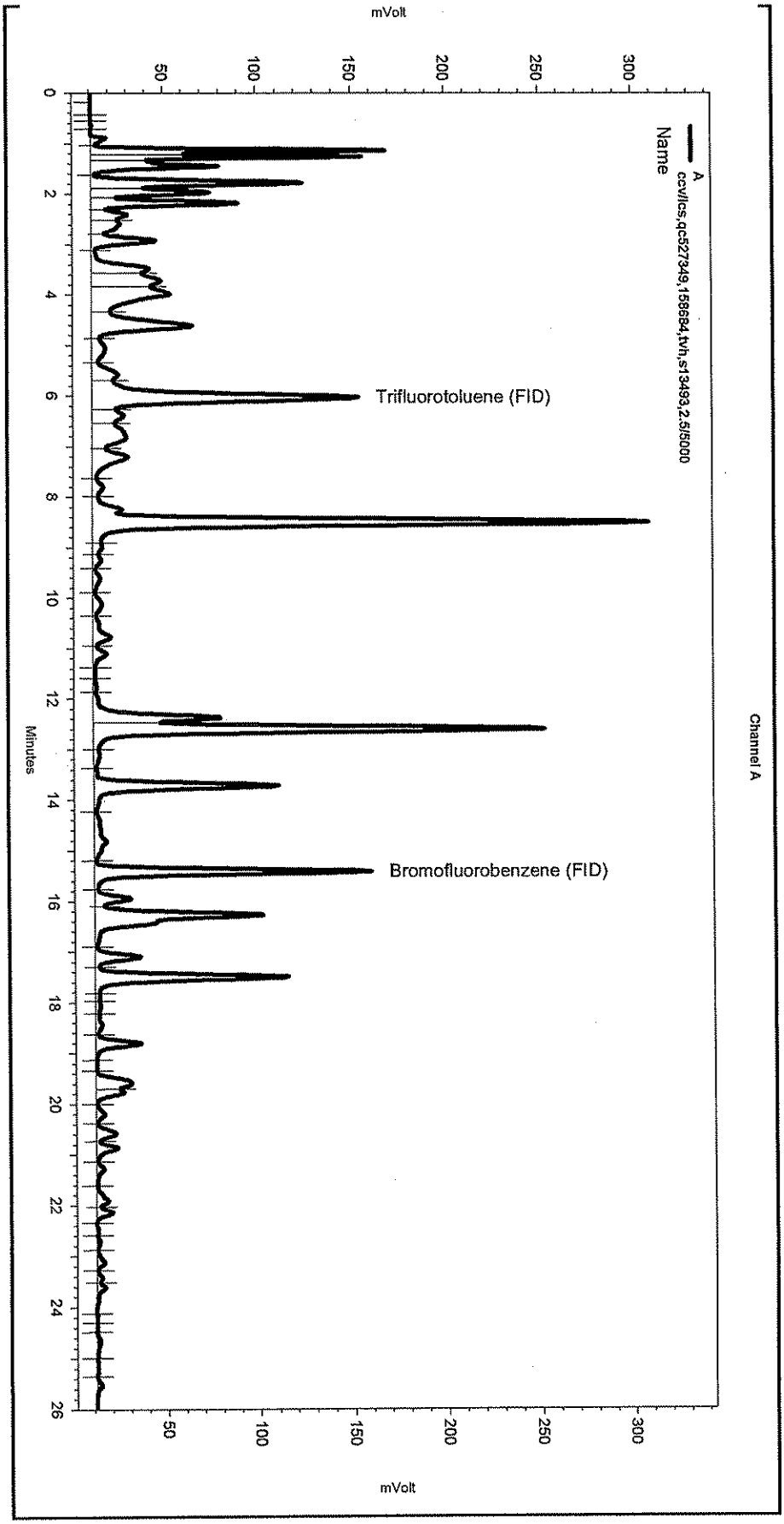

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Integration Events

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Yes	Threshold	0	0	50

Manual Integration Fixes

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Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	SHAKER TABLE
Project#:	1141.08	Analysis:	EPA 8015B
Field ID:	UST-1-0.6	Batch#:	158681
Matrix:	Soil	Sampled:	12/23/09
Units:	mg/Kg	Received:	12/23/09
Basis:	dry	Prepared:	12/28/09

Type:	SAMPLE	Diln Fac:	20.00
Lab ID:	217460-001	Analyzed:	12/30/09
Moisture:	19%		

Analyte	Result	RL
Diesel C10-C24	870 Y	25
Motor Oil C24-C36	3,300	120

Surrogate	%REC	Limits
o-Terphenyl	DO	16-164

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC527335	Analyzed:	12/29/09

Analyte	Result	RL
Diesel C10-C24	ND	0.99
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	82	16-164

Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	SHAKER TABLE
Project#:	1141.08	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC527336	Batch#:	158681
Matrix:	Soil	Prepared:	12/28/09
Units:	mg/Kg	Analyzed:	12/28/09

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.97	36.84	74	36-151

Surrogate	%REC	Limits
o-Terphenyl	82	16-164

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	SHAKER TABLE
Project#:	1141.08	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	158681
MSS Lab ID:	217453-001	Sampled:	12/23/09
Matrix:	Soil	Received:	12/23/09
Units:	mg/Kg	Prepared:	12/28/09
Basis:	dry	Analyzed:	12/29/09
Diln Fac:	1.000		

Type: MS
Lab ID: QC527337
Moisture: 18%
Cleanup Method: EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	15.57	121.8	54.27	32	3-174

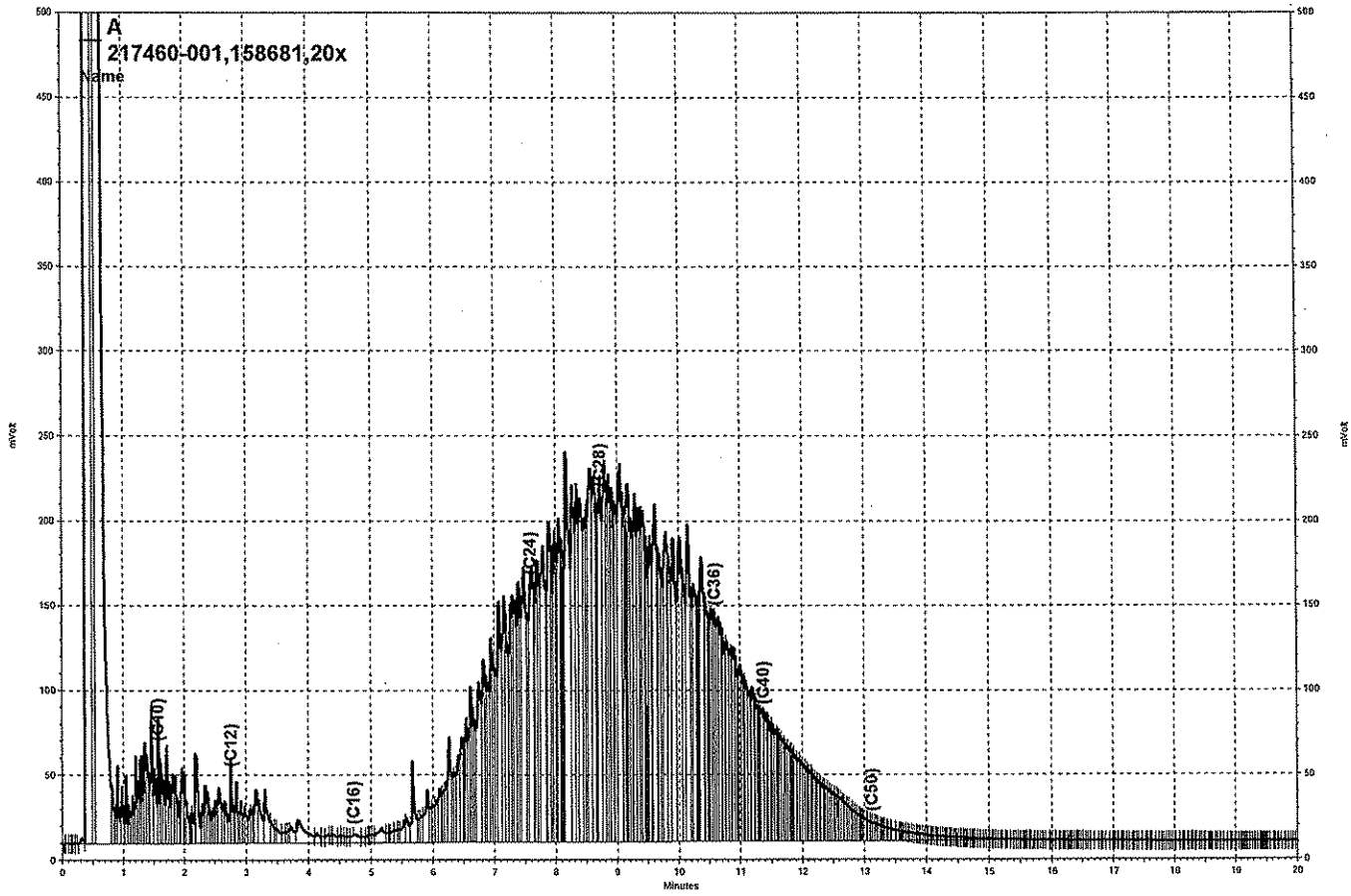
Surrogate	%REC	Limits
o-Terphenyl	76	16-164

Type: MSD
Lab ID: QC527338
Moisture: 18%
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	121.5	50.22	29	3-174	8	54

Surrogate	%REC	Limits
o-Terphenyl	69	16-164

RPD= Relative Percent Difference



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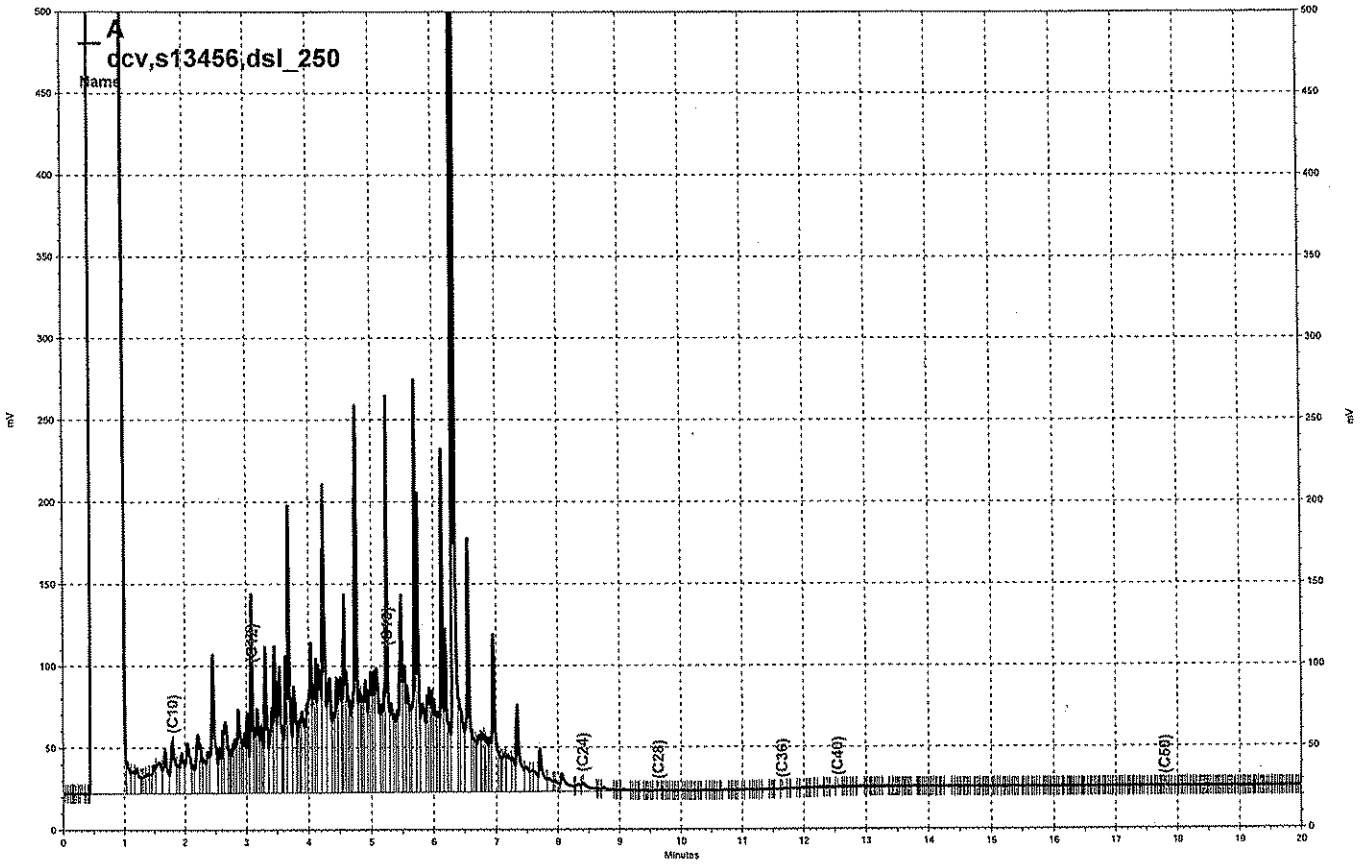

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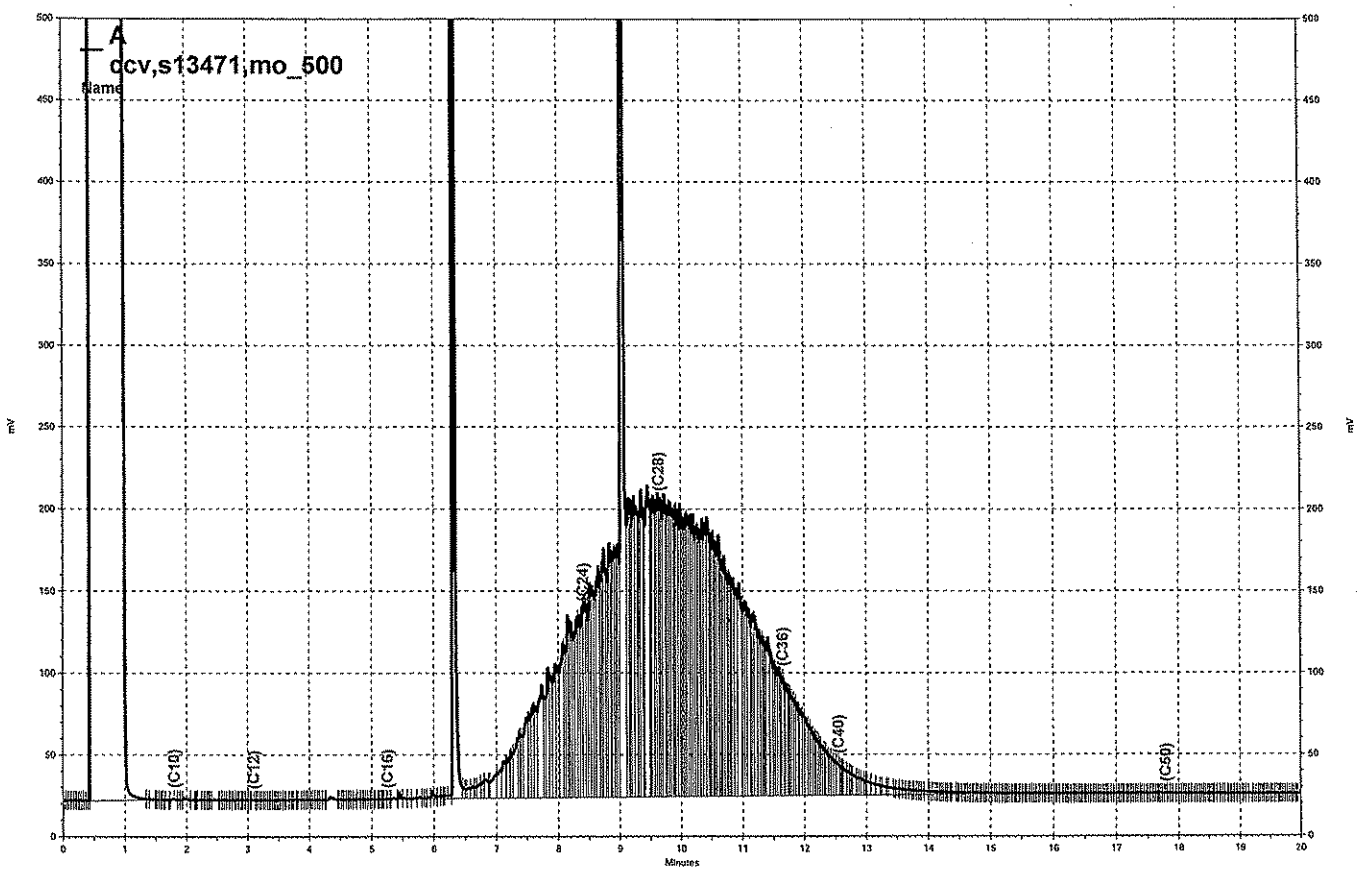

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Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Field ID:	UST-1-0.6	Diln Fac:	125.0
Lab ID:	217460-001	Batch#:	158796
Matrix:	Soil	Sampled:	12/23/09
Units:	ug/Kg	Received:	12/23/09
Basis:	dry	Analyzed:	01/03/10

Moisture: 19%

Analyte	Result	RL
Freon 12	ND	1,500
tert-Butyl Alcohol (TBA)	ND	15,000
Chloromethane	ND	1,500
Isopropyl Ether (DIPE)	ND	770
Vinyl Chloride	ND	1,500
Bromomethane	ND	1,500
Ethyl tert-Butyl Ether (ETBE)	ND	770
Chloroethane	ND	1,500
Methyl tert-Amyl Ether (TAME)	ND	770
Trichlorofluoromethane	ND	770
Ethanol	ND	150,000
Acetone	ND	3,100
Freon 113	ND	770
1,1-Dichloroethene	ND	770
Methylene Chloride	ND	3,100
Carbon Disulfide	ND	770
MTBE	ND	770
trans-1,2-Dichloroethene	ND	770
Vinyl Acetate	ND	7,700
1,1-Dichloroethane	ND	770
2-Butanone	ND	1,500
cis-1,2-Dichloroethene	ND	770
2,2-Dichloropropane	ND	770
Chloroform	ND	770
Bromochloromethane	ND	770
1,1,1-Trichloroethane	ND	770
1,1-Dichloropropene	ND	770
Carbon Tetrachloride	ND	770
1,2-Dichloroethane	ND	770
Benzene	ND	770
Trichloroethene	ND	770
1,2-Dichloropropane	ND	770
Bromodichloromethane	ND	770
Dibromomethane	ND	770
4-Methyl-2-Pentanone	ND	1,500
cis-1,3-Dichloropropene	ND	770
Toluene	2,300	770
trans-1,3-Dichloropropene	ND	770
1,1,2-Trichloroethane	ND	770
2-Hexanone	ND	1,500
1,3-Dichloropropane	ND	770
Tetrachloroethene	ND	770
Dibromochloromethane	ND	770
1,2-Dibromoethane	ND	770
Chlorobenzene	ND	770
1,1,1,2-Tetrachloroethane	ND	770
Ethylbenzene	1,500	770
m,p-Xylenes	7,400	770
o-Xylene	4,000	770
Styrene	ND	770
Bromoform	ND	770
Isopropylbenzene	ND	770

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Field ID:	UST-1-0.6	Diln Fac:	125.0
Lab ID:	217460-001	Batch#:	158796
Matrix:	Soil	Sampled:	12/23/09
Units:	ug/Kg	Received:	12/23/09
Basis:	dry	Analyzed:	01/03/10

Analyte	Result	RL
1,1,2,2-Tetrachloroethane	ND	770
1,2,3-Trichloropropane	ND	770
Propylbenzene	1,800	770
Bromobenzene	ND	770
1,3,5-Trimethylbenzene	5,100	770
2-Chlorotoluene	ND	770
4-Chlorotoluene	ND	770
tert-Butylbenzene	ND	770
1,2,4-Trimethylbenzene	16,000	770
sec-Butylbenzene	ND	770
para-Isopropyl Toluene	ND	770
1,3-Dichlorobenzene	ND	770
1,4-Dichlorobenzene	ND	770
n-Butylbenzene	2,200	770
1,2-Dichlorobenzene	ND	770
1,2-Dibromo-3-Chloropropane	ND	770
1,2,4-Trichlorobenzene	ND	770
Hexachlorobutadiene	ND	770
Naphthalene	6,300	770
1,2,3-Trichlorobenzene	ND	770

Surrogate	%REC	Limits
Dibromofluoromethane	96	59-139
1,2-Dichloroethane-d4	104	54-153
Toluene-d8	96	83-118
Bromofluorobenzene	100	61-146
Trifluorotoluene (MeOH)	109	25-170

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC527795	Batch#:	158796
Matrix:	Soil	Analyzed:	01/03/10
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
tert-Butyl Alcohol (TBA)	ND	100
Chloromethane	ND	10
Isopropyl Ether (DIPE)	ND	5.0
Vinyl Chloride	ND	10
Bromomethane	ND	10
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
Chloroethane	ND	10
Methyl tert-Amyl Ether (TAME)	ND	5.0
Trichlorofluoromethane	ND	5.0
Ethanol	ND	1,000
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC527795	Batch#:	158796
Matrix:	Soil	Analyzed:	01/03/10
Units:	ug/Kg		

Analyte	Result	RL
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	99	59-139
1,2-Dichloroethane-d4	102	54-153
Toluene-d8	98	83-118
Bromofluorobenzene	95	61-146

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	158796
Units:	ug/Kg	Analyzed:	01/03/10
Diln Fac:	1.000		

Type: BS Lab ID: QC527797

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	100.0	86.81	87	32-148
Isopropyl Ether (DIPE)	20.00	17.43	87	43-148
Ethyl tert-Butyl Ether (ETBE)	20.00	17.65	88	51-139
Methyl tert-Amyl Ether (TAME)	20.00	18.08	90	65-131
1,1-Dichloroethene	20.00	20.27	101	61-145
Benzene	20.00	20.29	101	73-134
Trichloroethene	20.00	20.26	101	71-137
Toluene	20.00	19.52	98	72-134
Chlorobenzene	20.00	19.32	97	76-126

Surrogate	%REC	Limits
Dibromofluoromethane	100	59-139
1,2-Dichloroethane-d4	110	54-153
Toluene-d8	97	83-118
Bromofluorobenzene	94	61-146

Type: BSD Lab ID: QC527798

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	100.0	78.19	78	32-148	10	30
Isopropyl Ether (DIPE)	20.00	17.42	87	43-148	0	20
Ethyl tert-Butyl Ether (ETBE)	20.00	17.75	89	51-139	1	22
Methyl tert-Amyl Ether (TAME)	20.00	18.13	91	65-131	0	21
1,1-Dichloroethene	20.00	20.13	101	61-145	1	22
Benzene	20.00	19.99	100	73-134	2	19
Trichloroethene	20.00	20.25	101	71-137	0	19
Toluene	20.00	19.25	96	72-134	1	19
Chlorobenzene	20.00	19.30	96	76-126	0	21

Surrogate	%REC	Limits
Dibromofluoromethane	100	59-139
1,2-Dichloroethane-d4	107	54-153
Toluene-d8	97	83-118
Bromofluorobenzene	94	61-146

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 5030B
Project#:	1141.08	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	158796
MSS Lab ID:	217527-004	Sampled:	12/30/09
Matrix:	Soil	Received:	12/30/09
Units:	ug/Kg	Analyzed:	01/03/10
Basis:	as received		

Type: MS
Lab ID: QC527805
Diln Fac: 0.9542

Analyte	MSS Result	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	<18.87	238.5	194.1	81	22-153
Isopropyl Ether (DIPE)	<0.9434	47.71	36.48	76	28-152
Ethyl tert-Butyl Ether (ETBE)	<0.9434	47.71	38.02	80	39-144
Methyl tert-Amyl Ether (TAME)	<0.9434	47.71	39.29	82	52-133
1,1-Dichloroethene	<0.9434	47.71	48.26	101	47-163
Benzene	<0.9434	47.71	44.98	94	53-139
Trichloroethene	<0.9434	47.71	44.81	94	40-167
Toluene	<0.9434	47.71	41.15	86	49-139
Chlorobenzene	<0.9434	47.71	39.85	84	40-138

Surrogate	%REC	Limits
Dibromofluoromethane	99	59-139
1,2-Dichloroethane-d4	105	54-153
Toluene-d8	96	83-118
Bromofluorobenzene	93	61-146

Type: MSD
Lab ID: QC527806
Diln Fac: 0.9452

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	236.3	205.1	87	22-153	6	41
Isopropyl Ether (DIPE)	47.26	37.55	79	28-152	4	29
Ethyl tert-Butyl Ether (ETBE)	47.26	39.35	83	39-144	4	28
Methyl tert-Amyl Ether (TAME)	47.26	40.44	86	52-133	4	27
1,1-Dichloroethene	47.26	47.29	100	47-163	1	37
Benzene	47.26	43.47	92	53-139	2	35
Trichloroethene	47.26	41.78	88	40-167	6	31
Toluene	47.26	38.77	82	49-139	5	33
Chlorobenzene	47.26	35.61	75	40-138	10	37

Surrogate	%REC	Limits
Dibromofluoromethane	98	59-139
1,2-Dichloroethane-d4	105	54-153
Toluene-d8	96	83-118
Bromofluorobenzene	94	61-146

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 3550B
Project#:	1141.08	Analysis:	EPA 8270C
Field ID:	UST-1-0.6	Batch#:	158695
Lab ID:	217460-001	Sampled:	12/23/09
Matrix:	Soil	Received:	12/23/09
Units:	ug/Kg	Prepared:	12/29/09
Basis:	dry	Analyzed:	12/30/09
Diln Fac:	10.00		

Moisture: 19%

Analyte	Result	RL
N-Nitrosodimethylamine	ND	4,100
Phenol	ND	4,100
bis(2-Chloroethyl)ether	ND	4,100
2-Chlorophenol	ND	4,100
1,3-Dichlorobenzene	ND	4,100
1,4-Dichlorobenzene	ND	4,100
Benzyl alcohol	ND	4,100
1,2-Dichlorobenzene	ND	4,100
2-Methylphenol	ND	4,100
bis(2-Chloroisopropyl) ether	ND	4,100
4-Methylphenol	ND	4,100
N-Nitroso-di-n-propylamine	ND	4,100
Hexachloroethane	ND	4,100
Nitrobenzene	ND	4,100
Isophorone	ND	4,100
2-Nitrophenol	ND	8,100
2,4-Dimethylphenol	ND	4,100
Benzoic acid	ND	20,000
bis(2-Chloroethoxy)methane	ND	4,100
2,4-Dichlorophenol	ND	4,100
1,2,4-Trichlorobenzene	ND	4,100
Naphthalene	3,300	810
4-Chloroaniline	ND	4,100
Hexachlorobutadiene	ND	4,100
4-Chloro-3-methylphenol	ND	4,100
2-Methylnaphthalene	6,100	810
Hexachlorocyclopentadiene	ND	8,100
2,4,6-Trichlorophenol	ND	4,100
2,4,5-Trichlorophenol	ND	4,100
2-Chloronaphthalene	ND	4,100
2-Nitroaniline	ND	8,100
Dimethylphthalate	ND	4,100
Acenaphthylene	ND	810
2,6-Dinitrotoluene	ND	4,100
3-Nitroaniline	ND	8,100
Acenaphthene	ND	810
2,4-Dinitrophenol	ND	8,100
4-Nitrophenol	ND	8,100
Dibenzofuran	ND	4,100
2,4-Dinitrotoluene	ND	4,100
Diethylphthalate	ND	4,100
Fluorene	ND	810
4-Chlorophenyl-phenylether	ND	4,100
4-Nitroaniline	ND	8,100
4,6-Dinitro-2-methylphenol	ND	8,100
N-Nitrosodiphenylamine	ND	4,100
Azobenzene	ND	4,100
4-Bromophenyl-phenylether	ND	4,100
Hexachlorobenzene	ND	4,100
Pentachlorophenol	ND	8,100

DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 3550B
Project#:	1141.08	Analysis:	EPA 8270C
Field ID:	UST-1-0.6	Batch#:	158695
Lab ID:	217460-001	Sampled:	12/23/09
Matrix:	Soil	Received:	12/23/09
Units:	ug/Kg	Prepared:	12/29/09
Basis:	dry	Analyzed:	12/30/09
Diln Fac:	10.00		

Analyte	Result	RL
Phenanthrene	ND	810
Anthracene	ND	810
Di-n-butylphthalate	ND	4,100
Fluoranthene	ND	810
Pyrene	ND	810
Butylbenzylphthalate	ND	4,100
3,3'-Dichlorobenzidine	ND	8,100
Benzo(a)anthracene	ND	810
Chrysene	ND	810
bis(2-Ethylhexyl)phthalate	ND	4,100
Di-n-octylphthalate	ND	4,100
Benzo(b)fluoranthene	ND	810
Benzo(k)fluoranthene	ND	810
Benzo(a)pyrene	ND	810
Indeno(1,2,3-cd)pyrene	ND	810
Dibenz(a,h)anthracene	ND	810
Benzo(g,h,i)perylene	ND	810

Surrogate	%REC	Limits
2-Fluorophenol	DO	14-124
Phenol-d5	DO	12-123
2,4,6-Tribromophenol	DO	10-118
Nitrobenzene-d5	DO	27-106
2-Fluorobiphenyl	DO	30-113
Terphenyl-d14	DO	18-133

DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 3550B
Project#:	1141.08	Analysis:	EPA 8270C
Type:	BLANK	Dil'n Fac:	1.000
Lab ID:	QC527412	Batch#:	158695
Matrix:	Soil	Prepared:	12/29/09
Units:	ug/Kg	Analyzed:	12/29/09

Analyte	Result	RL
N-Nitrosodimethylamine	ND	340
Phenol	ND	340
bis(2-Chloroethyl)ether	ND	340
2-Chlorophenol	ND	340
1,3-Dichlorobenzene	ND	340
1,4-Dichlorobenzene	ND	340
Benzyl alcohol	ND	340
1,2-Dichlorobenzene	ND	340
2-Methylphenol	ND	340
bis(2-Chloroisopropyl) ether	ND	340
4-Methylphenol	ND	340
N-Nitroso-di-n-propylamine	ND	340
Hexachloroethane	ND	340
Nitrobenzene	ND	340
Isophorone	ND	340
2-Nitrophenol	ND	670
2,4-Dimethylphenol	ND	340
Benzoic acid	ND	1,700
bis(2-Chloroethoxy)methane	ND	340
2,4-Dichlorophenol	ND	340
1,2,4-Trichlorobenzene	ND	340
Naphthalene	ND	67
4-Chloroaniline	ND	340
Hexachlorobutadiene	ND	340
4-Chloro-3-methylphenol	ND	340
2-Methylnaphthalene	ND	67
Hexachlorocyclopentadiene	ND	670
2,4,6-Trichlorophenol	ND	340
2,4,5-Trichlorophenol	ND	340
2-Chloronaphthalene	ND	340
2-Nitroaniline	ND	670
Dimethylphthalate	ND	340
Acenaphthylene	ND	67
2,6-Dinitrotoluene	ND	340
3-Nitroaniline	ND	670
Acenaphthene	ND	67
2,4-Dinitrophenol	ND	670
4-Nitrophenol	ND	670
Dibenzofuran	ND	340
2,4-Dinitrotoluene	ND	340
Diethylphthalate	ND	340
Fluorene	ND	67
4-Chlorophenyl-phenylether	ND	340
4-Nitroaniline	ND	670
4,6-Dinitro-2-methylphenol	ND	670
N-Nitrosodiphenylamine	ND	340
Azobenzene	ND	340
4-Bromophenyl-phenylether	ND	340
Hexachlorobenzene	ND	340
Pentachlorophenol	ND	670
Phenanthrene	ND	67
Anthracene	ND	67
Di-n-butylphthalate	ND	340
Fluoranthene	ND	67

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 3550B
Project#:	1141.08	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC527412	Batch#:	158695
Matrix:	Soil	Prepared:	12/29/09
Units:	ug/Kg	Analyzed:	12/29/09

Analyte	Result	RL
Pyrene	ND	67
Butylbenzylphthalate	ND	340
3,3'-Dichlorobenzidine	ND	670
Benzo(a)anthracene	ND	67
Chrysene	ND	67
bis(2-Ethylhexyl)phthalate	ND	340
Di-n-octylphthalate	ND	340
Benzo(b)fluoranthene	ND	67
Benzo(k)fluoranthene	ND	67
Benzo(a)pyrene	ND	67
Indeno(1,2,3-cd)pyrene	ND	67
Dibenz(a,h)anthracene	ND	67
Benzo(g,h,i)perylene	ND	67

Surrogate	%REC	Limits
2-Fluorophenol	78	14-124
Phenol-d5	76	12-123
2,4,6-Tribromophenol	61	10-118
Nitrobenzene-d5	76	27-106
2-Fluorobiphenyl	85	30-113
Terphenyl-d14	73	18-133

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 3550B
Project#:	1141.08	Analysis:	EPA 8270C
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC527413	Batch#:	158695
Matrix:	Soil	Prepared:	12/29/09
Units:	ug/Kg	Analyzed:	12/29/09

Analyte	Spiked	Result	%REC	Limits
Phenol	2,635	1,797	68	28-115
2-Chlorophenol	2,635	1,974	75	36-114
1,4-Dichlorobenzene	2,635	2,389	91	36-112
N-Nitroso-di-n-propylamine	2,635	1,912	73	23-119
1,2,4-Trichlorobenzene	2,635	2,398	91	39-110
4-Chloro-3-methylphenol	2,635	2,698	102	38-115
Acenaphthene	988.1	710.1	72	35-118
4-Nitrophenol	2,635	2,886	110	26-115
2,4-Dinitrotoluene	2,635	2,224	84	30-128
Pentachlorophenol	2,635	1,874	71	8-116
Pyrene	988.1	673.4	68	28-136

Surrogate	%REC	Limits
2-Fluorophenol	74	14-124
Phenol-d5	63	12-123
2,4,6-Tribromophenol	91	10-118
Nitrobenzene-d5	76	27-106
2-Fluorobiphenyl	75	30-113
Terphenyl-d14	80	18-133

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 3550B
Project#:	1141.08	Analysis:	EPA 8270C
Field ID:	ZZZZZZZZZZ	Batch#:	158695
MSS Lab ID:	217453-001	Sampled:	12/23/09
Matrix:	Soil	Received:	12/23/09
Units:	ug/Kg	Prepared:	12/29/09
Basis:	dry	Analyzed:	12/29/09
Diln Fac:	1.000		

Type: MS
Lab ID: QC527414
Moisture: 18%

Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	<99.82	3,230	2,474	77	26-108
2-Chlorophenol	<106.6	3,230	2,347	73	29-109
1,4-Dichlorobenzene	<89.15	3,230	2,099	65	33-105
N-Nitroso-di-n-propylamine	<98.42	3,230	2,446	76	26-113
1,2,4-Trichlorobenzene	<93.07	3,230	2,247	70	34-104
4-Chloro-3-methylphenol	<77.43	3,230	2,634	82	32-110
Acenaphthene	<17.33	1,211	896.1	74	28-114
4-Nitrophenol	<63.29	3,230	2,694	83	17-107
2,4-Dinitrotoluene	<83.05	3,230	2,332	72	26-112
Pentachlorophenol	<71.81	3,230	2,289	71	1-111
Pyrene	<18.24	1,211	940.7	78	20-135

Surrogate	%REC	Limits
2-Fluorophenol	69	14-124
Phenol-d5	72	12-123
2,4,6-Tribromophenol	72	10-118
Nitrobenzene-d5	74	27-106
2-Fluorobiphenyl	71	30-113
Terphenyl-d14	75	18-133

Type: MSD
Lab ID: QC527415
Moisture: 18%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	3,217	2,713	84	26-108	10	48
2-Chlorophenol	3,217	2,573	80	29-109	10	46
1,4-Dichlorobenzene	3,217	2,343	73	33-105	11	44
N-Nitroso-di-n-propylamine	3,217	2,775	86	26-113	13	53
1,2,4-Trichlorobenzene	3,217	2,435	76	34-104	8	43
4-Chloro-3-methylphenol	3,217	2,818	88	32-110	7	44
Acenaphthene	1,206	950.3	79	28-114	6	44
4-Nitrophenol	3,217	2,982	93	17-107	11	50
2,4-Dinitrotoluene	3,217	2,656	83	26-112	13	44
Pentachlorophenol	3,217	2,572	80	1-111	12	63
Pyrene	1,206	1,018	84	20-135	8	58

Surrogate	%REC	Limits
2-Fluorophenol	79	14-124
Phenol-d5	82	12-123
2,4,6-Tribromophenol	79	10-118
Nitrobenzene-d5	84	27-106
2-Fluorobiphenyl	76	30-113
Terphenyl-d14	81	18-133

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

1,4-Dioxane by 8270-SIM

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 3550B
Project#:	1141.08	Analysis:	EPA 8270C-SIM
Field ID:	UST-1-0.6	Batch#:	158723
Matrix:	Soil	Sampled:	12/23/09
Units:	ug/Kg	Received:	12/23/09
Basis:	dry	Prepared:	12/29/09
Diln Fac:	1.000	Analyzed:	12/30/09

Type: SAMPLE Moisture: 19%
Lab ID: 217460-001

Analyte	Result	RL
1,4-Dioxane	ND	41

Surrogate	%REC	Limits
Nitrobenzene-d5	214 *	39-136
2-Fluorobiphenyl	53	42-120

Type: BLANK Lab ID: QC527511

Analyte	Result	RL
1,4-Dioxane	ND	33

Surrogate	%REC	Limits
Nitrobenzene-d5	55	39-136
2-Fluorobiphenyl	56	42-120

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

1,4-Dioxane by 8270-SIM

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 3550B
Project#:	1141.08	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC527512	Batch#:	158723
Matrix:	Soil	Prepared:	12/29/09
Units:	ug/Kg	Analyzed:	12/30/09

Analyte	Spiked	Result	%REC	Limits
1,4-Dioxane	99.63	42.57	43	10-120

Surrogate	%REC	Limits
Nitrobenzene-d5	87	39-136
2-Fluorobiphenyl	78	42-120

Curtis & Tompkins, Ltd.

Batch QC Report

1,4-Dioxane by 8270-SIM

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 3550B
Project#:	1141.08	Analysis:	EPA 8270C-SIM
Field ID:	ZZZZZZZZZZ	Batch#:	158723
MSS Lab ID:	217447-003	Sampled:	12/22/09
Matrix:	Soil	Received:	12/23/09
Units:	ug/Kg	Prepared:	12/29/09
Basis:	dry	Analyzed:	12/30/09
Diln Fac:	1.000		

Type: MS
Lab ID: QC527513

Moisture: 8%

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,4-Dioxane	<3.088	107.6	29.68	28	9-120

Surrogate	%REC	Limits
Nitrobenzene-d5	52	39-136
2-Fluorobiphenyl	51	42-120

Type: MSD
Lab ID: QC527514

Moisture: 8%

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,4-Dioxane	108.1	30.27	28	9-120	2	50

Surrogate	%REC	Limits
Nitrobenzene-d5	63	39-136
2-Fluorobiphenyl	66	42-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

1,4-Dioxane by 8270-SIM

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 3550B
Project#:	1141.08	Analysis:	EPA 8270C-SIM
Field ID:	ZZZZZZZZZZ	Batch#:	158723
MSS Lab ID:	217490-001	Sampled:	12/29/09
Matrix:	Soil	Received:	12/29/09
Units:	ug/Kg	Prepared:	12/30/09
Basis:	dry	Analyzed:	12/30/09
Diln Fac:	1.000		

Type: MS Moisture: 7%
Lab ID: QC527611

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,4-Dioxane	<3.057	107.5	ND	0 *	9-120

Surrogate	%REC	Limits
Nitrobenzene-d5	209 *	39-136
2-Fluorobiphenyl	70	42-120

Type: MSD Moisture: 7%
Lab ID: QC527612

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,4-Dioxane	107.4	ND	0 *	9-120	NC	50

Surrogate	%REC	Limits
Nitrobenzene-d5	197 *	39-136
2-Fluorobiphenyl	65	42-120

*= Value outside of QC limits; see narrative
NC= Not Calculated
ND= Not Detected
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 3550B
Project#:	1141.08	Analysis:	EPA 8082
Field ID:	UST-1-0.6	Batch#:	158633
Matrix:	Soil	Sampled:	12/23/09
Units:	ug/Kg	Received:	12/23/09
Basis:	dry	Prepared:	12/26/09
Diln Fac:	1.000		

Type:	SAMPLE	Moisture:	19%
Lab ID:	217460-001	Analyzed:	12/27/09

Analyte	Result	RL
Aroclor-1016	ND	15
Aroclor-1221	ND	30
Aroclor-1232	ND	15
Aroclor-1242	ND	15
Aroclor-1248	ND	15
Aroclor-1254	ND	15
Aroclor-1260	ND	15

Surrogate	%REC	Limits
TCMX	100	42-165
Decachlorobiphenyl	20	1-174

Type:	BLANK	Lab ID:	QC527171

Analyte	Result	RL	Analyzed
Aroclor-1016	ND	12	12/27/09
Aroclor-1221	ND	24	12/27/09
Aroclor-1232	ND	12	12/27/09
Aroclor-1242	ND	12	12/27/09
Aroclor-1248	ND	12	12/27/09
Aroclor-1254	ND	12	12/27/09
Aroclor-1260	ND	12	12/27/09

Surrogate	%REC	Limits	Analyzed
TCMX	140	42-165	12/28/09
Decachlorobiphenyl	79	1-174	12/28/09

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 3550B
Project#:	1141.08	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC527172	Batch#:	158633
Matrix:	Soil	Prepared:	12/26/09
Units:	ug/Kg		

Analyte	Spiked	Result	%REC	Limits	Analyzed
Aroclor-1016	165.3	198.3	120	61-162	12/27/09
Aroclor-1260	165.3	224.1	136	63-161	12/27/09

Surrogate	%REC	Limits	Analyzed
TCMX	127	42-165	12/28/09
Decachlorobiphenyl	92	1-174	12/28/09

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 3550B
Project#:	1141.08	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	217434-001	Batch#:	158633
Matrix:	Miscell.	Sampled:	12/22/09
Units:	ug/Kg	Received:	12/22/09
Basis:	as received	Prepared:	12/26/09

Type: MS Lab ID: QC527173

Analyte	MSS Result	Spiked	Result	%REC	Limits	Analyzed
Aroclor-1016	<0.7402	166.1	183.1	110	44-177	12/29/09
Aroclor-1260	<0.5386	166.1	181.5	109	22-179	12/27/09

Surrogate	%REC	Limits	Analyzed
TCMX	130	42-165	12/27/09
Decachlorobiphenyl	98	1-174	12/27/09

Type: MSD Lab ID: QC527174

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed
Aroclor-1016	166.6	197.2	118	44-177	7	38	12/29/09
Aroclor-1260	166.6	165.9	100	22-179	9	38	12/27/09

Surrogate	%REC	Limits	Analyzed
TCMX	125	42-165	12/27/09
Decachlorobiphenyl	89	1-174	12/27/09

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

California LUFT Metals

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 3050B
Project#:	1141.08	Analysis:	EPA 6010B
Field ID:	UST-1-0.6	Batch#:	158687
Matrix:	Soil	Sampled:	12/23/09
Units:	mg/Kg	Received:	12/23/09
Basis:	dry	Prepared:	12/28/09
Diln Fac:	1.000		

Type: SAMPLE
Lab ID: 217460-001
Moisture: 19%

Analyte	Result	RL	Analyzed
Cadmium	1.4	0.31	12/29/09
Chromium	39	0.34	12/29/09
Lead	84	0.31	12/30/09
Nickel	51	0.68	12/29/09
Zinc	220	1.2	12/29/09

Type: BLANK
Lab ID: QC527367
Analyzed: 12/29/09

Analyte	Result	RL
Cadmium	ND	0.25
Chromium	ND	0.30
Lead	ND	0.25
Nickel	ND	0.60
Zinc	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California LUFT Metals

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 3050B
Project#:	1141.08	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	158687
Units:	mg/Kg	Prepared:	12/28/09
Diln Fac:	1.000	Analyzed:	12/30/09

Type: BS Lab ID: QC527368

Analyte	Spiked	Result	%REC	Limits
Cadmium	10.00	10.10	101	77-120
Chromium	100.0	96.82	97	74-118
Lead	100.0	94.96	95	73-117
Nickel	25.00	23.96	96	73-115
Zinc	25.00	23.35	93	71-119

Type: BSD Lab ID: QC527369

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Cadmium	10.00	10.03	100	77-120	1	18
Chromium	100.0	96.72	97	74-118	0	25
Lead	100.0	94.17	94	73-117	1	24
Nickel	25.00	24.15	97	73-115	1	17
Zinc	25.00	23.73	95	71-119	2	18

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California LUFT Metals

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	EPA 3050B
Project#:	1141.08	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	158687
MSS Lab ID:	217442-002	Sampled:	12/22/09
Matrix:	Soil	Received:	12/23/09
Units:	mg/Kg	Prepared:	12/28/09
Basis:	dry	Analyzed:	12/29/09
Diln Fac:	1.000		

Type: MS Moisture: 17%
Lab ID: QC527370

Analyte	MSS Result	Spiked	Result	%REC	Limits
Cadmium	<0.05964	12.05	10.92	91	46-132
Chromium	45.35	120.5	159.4	95	27-153
Lead	3.851	120.5	104.8	84	27-147
Nickel	33.92	30.12	60.79	89	15-165
Zinc	31.41	30.12	51.79	68	6-172

Type: MSD Moisture: 17%
Lab ID: QC527371

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Cadmium	12.05	10.10	84	46-132	8	29
Chromium	120.5	164.8	99	27-153	3	40
Lead	120.5	103.4	83	27-147	1	54
Nickel	30.12	69.84	119	15-165	14	46
Zinc	30.12	60.94	98	6-172	16	53

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Moisture

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	METHOD
Project#:	1141.08	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Diln Fac:	1.000
Field ID:	UST-1-0.6	Batch#:	158715
Lab ID:	217460-001	Sampled:	12/23/09
Matrix:	Soil	Received:	12/23/09
Units:	%	Analyzed:	12/29/09

Result	RL
19	1

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Moisture

Lab #:	217460	Location:	3645 San Pablo Ave.
Client:	Northgate Environmental Management	Prep:	METHOD
Project#:	1141.08	Analysis:	ASTM D2216/CLP
Analyte:	Moisture, Percent	Units:	%
Field ID:	UST-1-0.6	Diln Fac:	1.000
Type:	SDUP	Batch#:	158715
MSS Lab ID:	217460-001	Sampled:	12/23/09
Lab ID:	QC527484	Received:	12/23/09
Matrix:	Soil	Analyzed:	12/29/09

MSS Result	Result	RL	RPD	Lim
18.56	17.49	1.000	6	44

RL= Reporting Limit
RPD= Relative Percent Difference

31.0