Wickham, Jerry, Env. Health

From: Miller, Charles GSA - Technical Service Department
Sent: Friday, August 19, 2011 3:26 PM
To: 'Matt Gates'; 'Logan Medeiros'
Cc: Paul Beamer (pbeamer@mack5.com); Wickham, Jerry, Env. Health; 'Nathan Allen'
Subject: Cancel operations for Monday - 10020

Matt & Logan,

We need to cancel sampling operations scheduled for this Monday, August 22, 2011. The County plans on immediately hiring an Environmental Consultant to advise us on our options and to ensure we move forward in the best way possible. I will keep you all posted.

Thanks.

Trip Miller
County of Alameda, GSA-TSD
Off: (510) 208-9588
Fax: (510) 208-3995
Cell: (925) 915-9707
Email: charles.miller@acgov.org

Wickham, Jerry, Env. Health

From: Wickham, Jerry, Env. Health
Sent: Friday, August 19, 2011 2:55 PM
To: Nathan Allen
Cc: Miller, Charles GSA - Technical Service Department; "Jeff Setera"; 'Logan Medeiros'; csshields@rockridgegeo.com; tgraf@jordangraf.com; 611021@sandis.net; 'Paul Beamer'; 'Matt Gates'
Subject: RE: Soil Sampling Plan - AYC

Nathan,

I have reviewed the Sampling Plan referenced below for case RO0212. The proposed sampling is acceptable with the following conditions

1) If visual staining, odor, elevated PID readings, or other obvious signs of contamintion are observed in a test pit, the fixed sample intervals will be adjusted or additional soil samples will be collected as necessary to characterize the contamination.
2) The conditions in each test pit will be logged by a qualified engineer or geologist.

Regards,
Jerry Wickham
Alameda County Environmental Health

From: Nathan Allen [nallen@sandis.net]
Sent: Friday, August 19, 2011 12:18 PM
To: Wickham, Jerry, Env. Health
Cc: Miller, Charles GSA - Technical Service Department; "Jeff Setera"; 'Logan Medeiros'; csshields@rockridgegeo.com; tgraf@jordangraf.com; 611021@sandis.net; 'Paul Beamer'; 'Matt Gates'
Subject: FW: Soil Sampling Plan - AYC

Jerry,

Attached is a pdf of the sampling plan locations for your review and comment. Additional details are below.

Thanks,

Nathan

SANDIS CIVIL ENGINEERS SURVEYORS PLANNERS

Nathan Allen, PE
Project Engineer
1721 Broadway, Suite 201
Oakland, CA 94612
nallen@sandis.net
P.510.873.8866 | **D.**510.590.3412
F.510.873.8868
www.sandis.net

From: Logan Medeiros [mailto:ldmedeiros@rockridgegeo.com]
Sent: Friday, August 19, 2011 12:00 PM
To: nallen@sandis.net
Cc: 'Jeff Setera' (jsetera@sandis.net); mkuykendall@sandis.net; Miller, Charles GSA - Technical Service Department (Charles.Miller@acgov.org); Craig Shields; Tom Graf
Subject: Soil Sampling Plan - AYC

Nathan,

This email presents our proposed soil sampling plan for the Ashland Youth Center site. We presented the results of analytical testing on the existing stockpiled soil in a previous email.

We propose to excavate 18 test pits on a 50-foot grid at the approximate locations shown on the attached plan. We understand that Gallagher & Burk will excavate the test pits using a tracked excavator under their contract with the County. The pits should be excavated under the direction of our field engineer. We will obtain samples for analytical testing at depths of 1, 3, and 5 feet bgs at each test pit location (only at depths of 3 and 5 feet in locations that have already been stripped of the upper 3 feet).

Samples will be collected in 2x6 inch stainless steel tubes, capped with Teflon tape and plastic caps, and placed on ice. In the laboratory the samples from depths of 1 and 3 feet will be tested for:

- TPH-g, BTEX (all samples)
- TPH-d,mo with silica gel clean-up (all samples)
- CAM-17 metals (4-point composites of samples from depth of one foot only)
- VOCs (only on samples that appear to have high COC concentrations—to be determined in field)
- SVOCs with SIM (only on samples that appear to have high COC concentrations—to be determined in field)
- Organochlorine pesticides (4-point composites of samples from depth of one foot only)

Samples from depths of 5 feet will placed on hold, pending the results of the samples from 1 and 3 feet. In locations where the concentrations at a depth of 3 feet are below residential ESLs, the sample at 5 feet will not be tested. If the concentrations are above residential ESLs, the sample at 5 feet will be tested.

During test pit excavation, if obvious impacted soil is encountered at a depth of five feet, the pit will be excavated down to a depth in which no obvious odors or discoloration are observed and an additional sample will be taken at that depth.

Please have Jerry Wickham with Alameda County Environmental Health review this proposed sampling plan and provide comments ASAP. Per our conversation this morning, we are planning on performing the sampling on Monday 8/22 at 7:00 AM.

Regards,
Logan

Logan D. Medeiros, P.E.

Senior Project Engineer
ROCKRIDGE GEOTECHNICAL
4379 Piedmont Avenue | Oakland, CA 94611
510-520-4329
ldmedeiros@rockridgegeo.com
www.rockridgegeo.com

FW: Soil Sampling Plan - AYC

Nathan Allen [nallen@sandis.net]

Sent: Friday, August 19, 2011 12:18 PM

To: Wickham, Jerry, Env. Health

Cc: Miller, Charles GSA - Technical Service Department; Jeff Setera [jsetera@sandis.net]; Logan Medeiros [ldmedeiros@rockridgegeo.com]; csshields@rockridgegeo.com; tgraf@jordangraf.com; 611021@sandis.net; Paul Beamer [pbeamer@mack5.com]; Matt Gates [mrgates@desilvagates.com]

Attachments: Proposed Sampling Plan_201~1.pdf (2 MB)

Jerry,

Attached is a pdf of the sampling plan locations for your review and comment. Additional details are below.

Thanks,

Nathan

SANDIS CIVIL ENGINEERS SURVEYORS PLANNERS

Nathan Allen, PE

Project Engineer

1721 Broadway, Suite 201
Oakland, CA 94612
nallen@sandis.net
P.510.873.8866 | **D.**510.590.3412
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www.sandis.net

From: Logan Medeiros [mailto:ldmedeiros@rockridgegeo.com]
Sent: Friday, August 19, 2011 12:00 PM
To: nallen@sandis.net
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Please have Jerry Wickham with Alameda County Environmental Health review this proposed sampling plan and provide comments ASAP. Per our conversation this morning, we are planning on performing the sampling on Monday 8/22 at 7:00 AM.

Regards,
Logan

Logan D. Medeiros, P.E.
Senior Project Engineer
ROCKRIDGE GEOTECHNICAL
4379 Piedmont Avenue | Oakland, CA 94611
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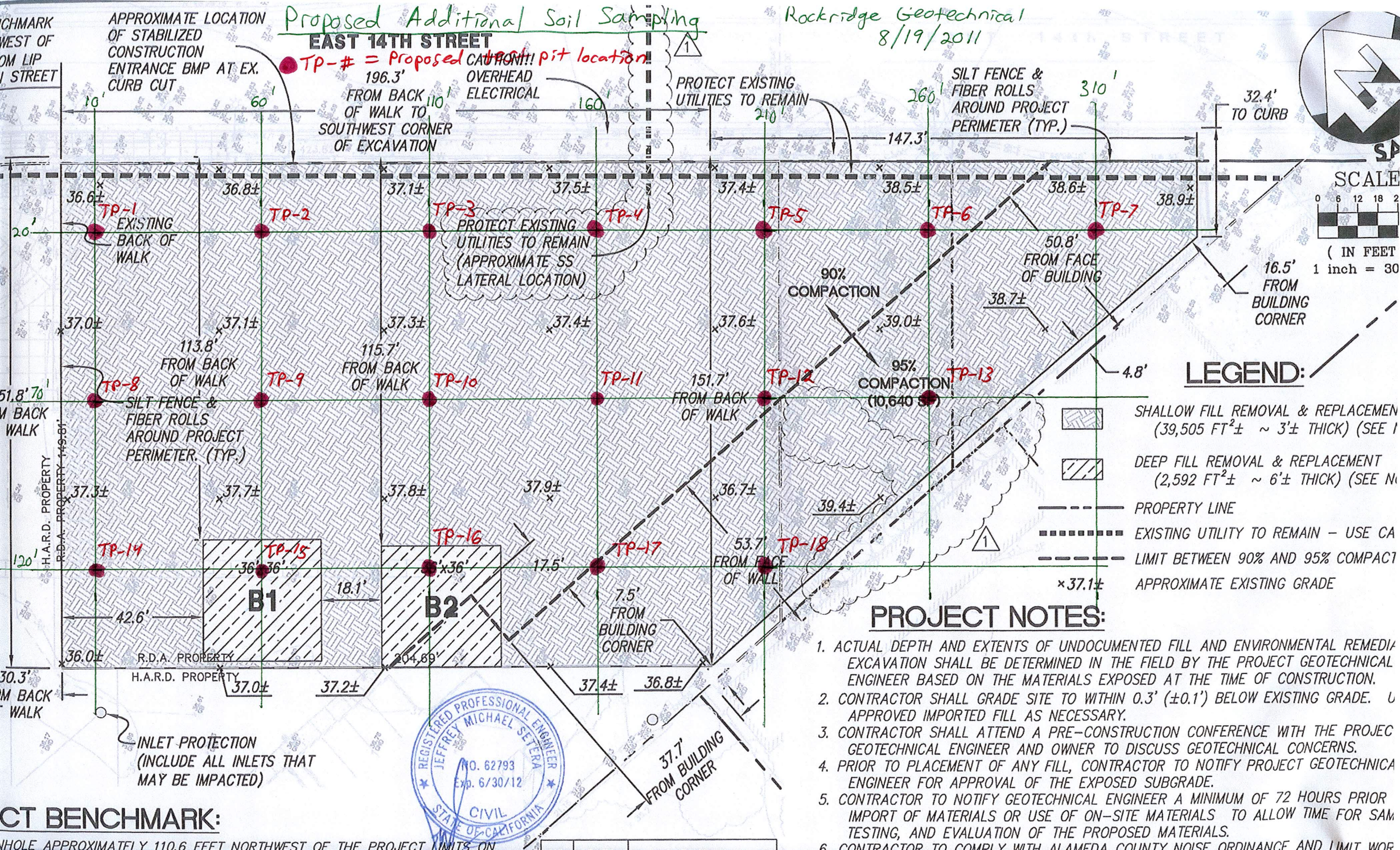
ldmedeiros@rockridgegeo.com
www.rockridgegeo.com



PROJECT BENCHMARK:

NHOLE APPROXIMATELY 110.6 FEET NORTHWEST OF THE PROJECT LIMITS ON

PROJECT NOTES:

1. ACTUAL DEPTH AND EXTENTS OF UNDOCUMENTED FILL AND ENVIRONMENTAL REMEDIA EXCAVATION SHALL BE DETERMINED IN THE FIELD BY THE PROJECT GEOTECHNICAL ENGINEER BASED ON THE MATERIALS EXPOSED AT THE TIME OF CONSTRUCTION.
2. CONTRACTOR SHALL GRADE SITE TO WITHIN 0.3' (±0.1') BELOW EXISTING GRADE. U APPROVED IMPORTED FILL AS NECESSARY.
3. CONTRACTOR SHALL ATTEND A PRE-CONSTRUCTION CONFERENCE WITH THE PROJEC GEOTECHNICAL ENGINEER AND OWNER TO DISCUSS GEOTECHNICAL CONCERNS.
4. PRIOR TO PLACEMENT OF ANY FILL, CONTRACTOR TO NOTIFY PROJECT GEOTECHNICA ENGINEER FOR APPROVAL OF THE EXPOSED SUBGRADE.
5. CONTRACTOR TO NOTIFY GEOTECHNICAL ENGINEER A MINIMUM OF 72 HOURS PRIOR IMPORT OF MATERIALS OR USE OF ON-SITE MATERIALS TO ALLOW TIME FOR SAM TESTING, AND EVALUATION OF THE PROPOSED MATERIALS.
6. CONTRACTOR TO COMPLY WITH ALAMEDA COUNTY NOISE ORDINANCE AND LIMIT WOR

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 5030B
Project#:	11-319	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	177897
Units:	mg/Kg	Sampled:	08/16/11
Basis:	as received	Received:	08/16/11
Diln Fac:	1.000		

Field ID: COMPOSITE # 1-4 — Lab ID: 230326-012
Type: SAMPLE — Analyzed: 08/17/11

Analyte	Result	RL
Gasoline C7-C12	2.0 Y	0.93

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	100	74-132

Field ID: COMPOSITE # 5-8 — Lab ID: 230326-013
Type: SAMPLE — Analyzed: 08/17/11

Analyte	Result	RL
Gasoline C7-C12	1.2 Y	0.93

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	97	74-132

Field ID: COMPOSITE # 9-11 — Lab ID: 230326-014
Type: SAMPLE — Analyzed: 08/17/11

Analyte	Result	RL
Gasoline C7-C12	1.4 Y	0.95

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	94	74-132

Type: BLANK — Analyzed: 08/16/11
Lab ID: QC604614

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	96	74-132

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

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 5030B
Project#:	11-319	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC604613	Batch#:	177897
Matrix:	Soil	Analyzed:	08/16/11
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	0.9186	92	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	84	74-132

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 5030B
Project#:	11-319	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	230256-001	Batch#:	177897
Matrix:	Soil	Sampled:	08/09/11
Units:	mg/Kg	Received:	08/12/11
Basis:	as received	Analyzed:	08/17/11

Type: MS Lab ID: QC604615

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.1652	11.11	8.932	79	43-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	97	74-132

Type: MSD Lab ID: QC604616

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	9.346	6.826	71	43-120	10	34

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	95	74-132

RPD= Relative Percent Difference

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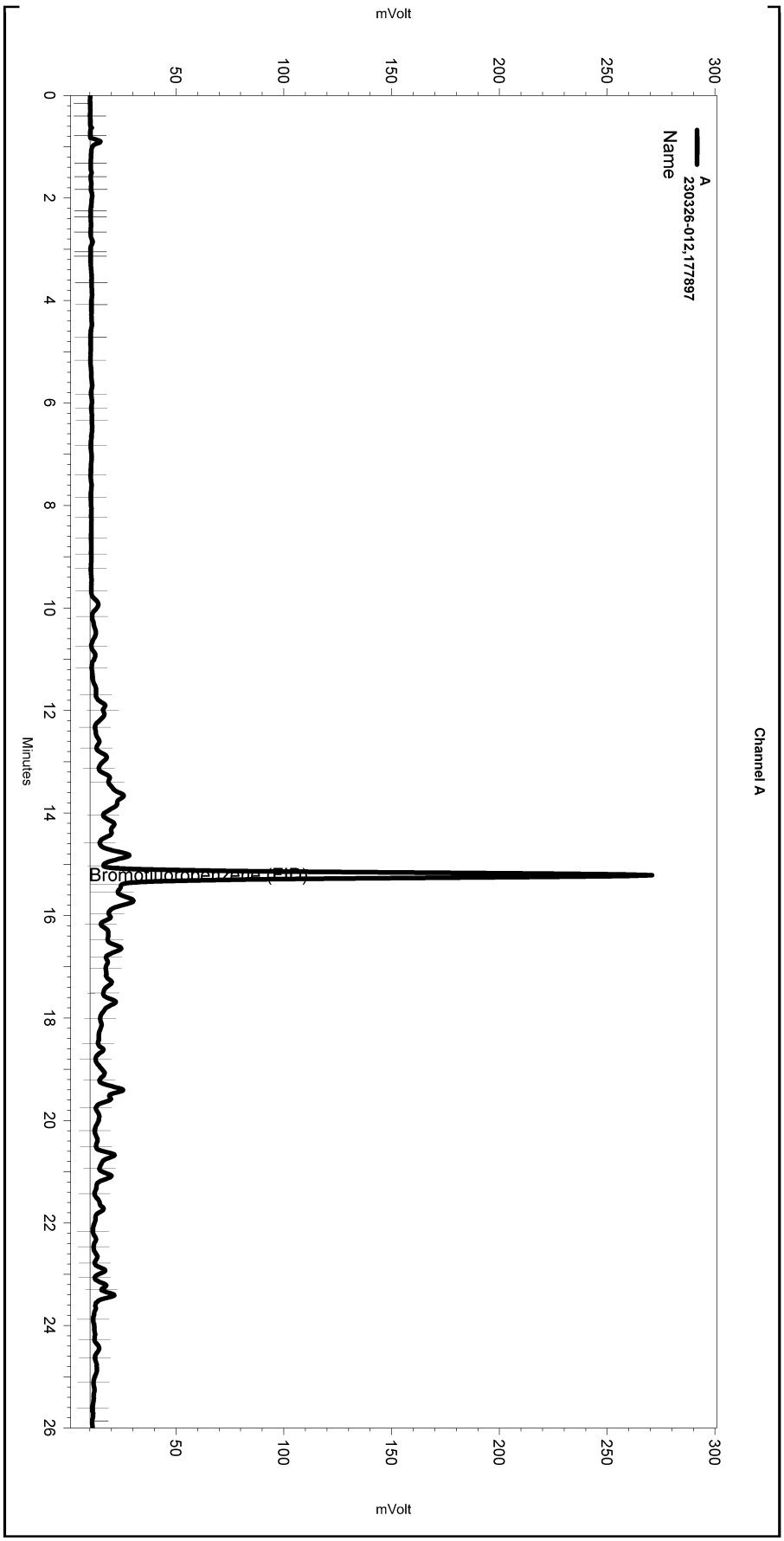
Sample Name: **230326-012,177897**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\228-032**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe153.met

Software Version 3.1.7
Run Date: 8/17/2011 12:47:13 PM
Analysis Date: 8/17/2011 3:32:54 PM
Sample Amount: 1.07 Multiplier: 1.07
Vial & pH or Core ID: comp(9-11)a



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Integration Events

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Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\228-032

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Yes	Lowest Point Horizontal Baseli	0	26.017	0
Yes	Split Peak	15.405	0	0

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Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe153.met

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Analysis Date: 8/17/2011 3:34:10 PM
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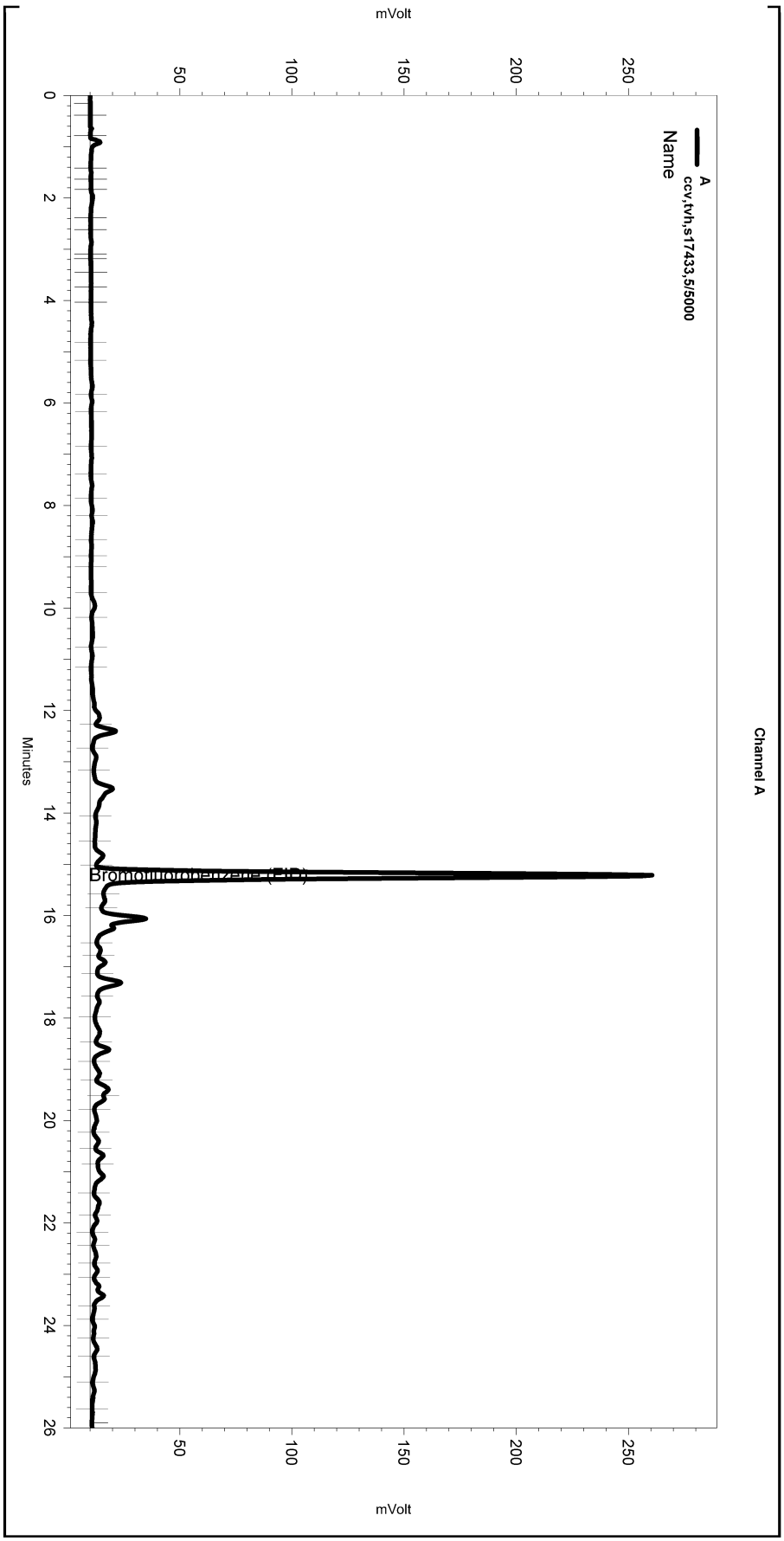

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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\228-033

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0	26.017	0

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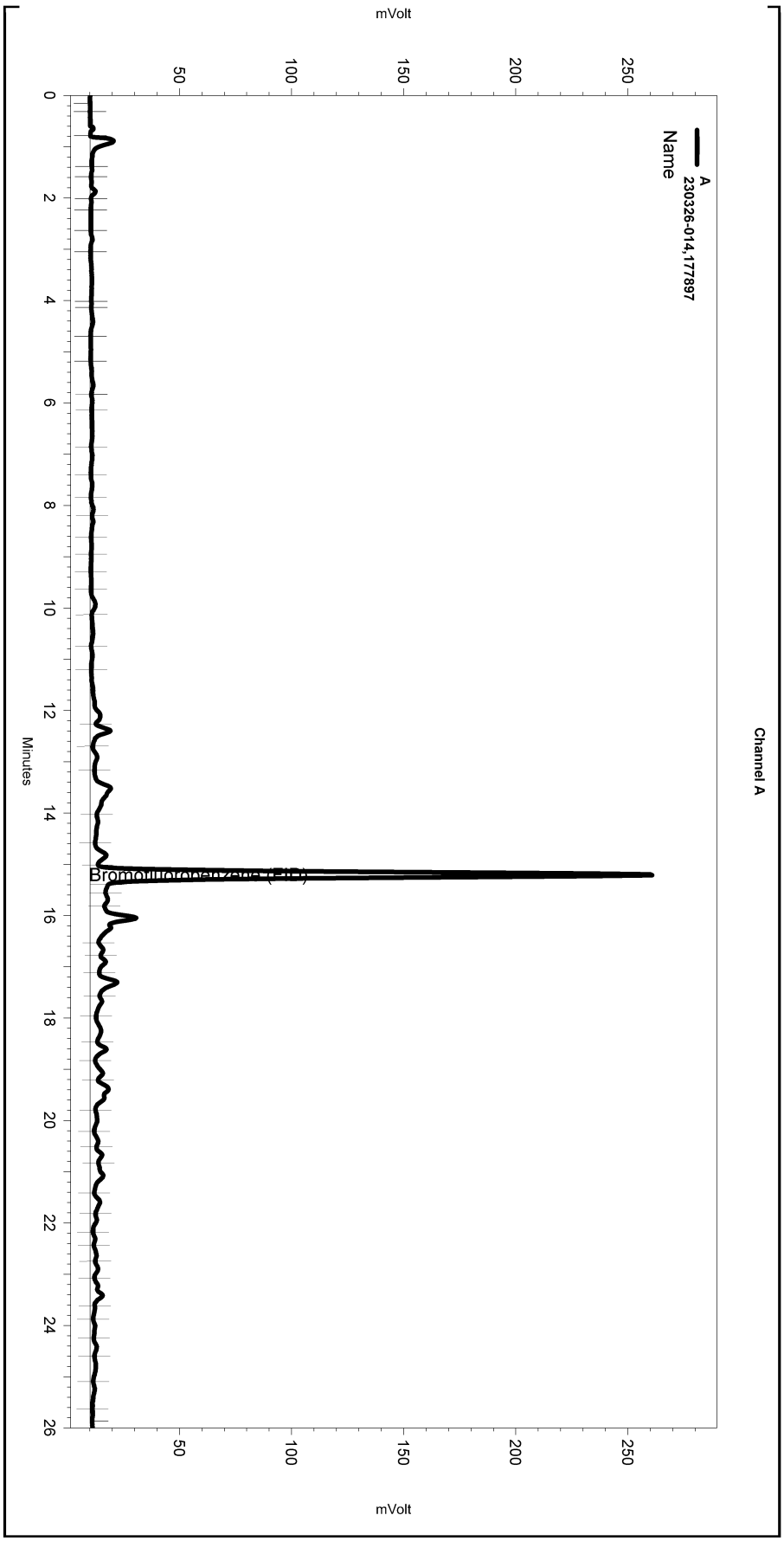
Sample Name: **230326-014,177897**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\228-031**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe153.met

Software Version 3.1.7
Run Date: 8/17/2011 12:08:58 PM
Analysis Date: 8/17/2011 3:33:33 PM
Sample Amount: 1.05 Multiplier: 1.05
Vial & pH or Core ID: comp(5-8)a



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\228-031

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0	26.017	0
Yes	Split Peak	15.401	0	0

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Sample Name: **ccv,tvh,s17785,2.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\228-003**
Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe153.met

Software Version 3.1.7
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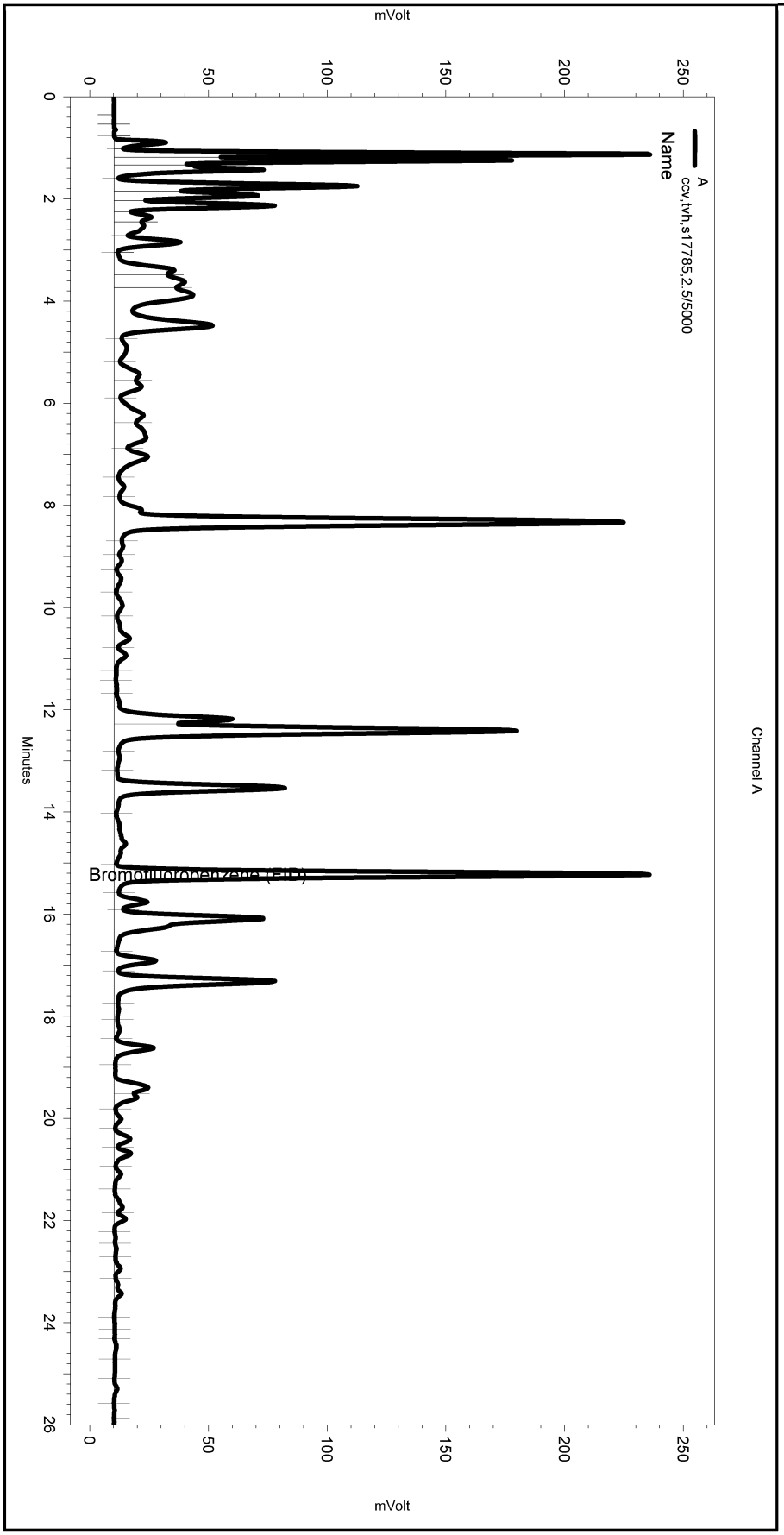
Analysis Date: 8/16/2011 12:18:24 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\228-003_5663.tmp

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

None

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 3550B
Project#:	11-319	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	177851
Units:	mg/Kg	Sampled:	08/16/11
Basis:	as received	Received:	08/16/11

Field ID:	COMPOSITE # 1-4	Diln Fac:	2.000
Type:	SAMPLE	Prepared:	08/16/11
Lab ID:	230326-012	Analyzed:	08/17/11

Analyte	Result	RL
Diesel C10-C24	430	1.7
Motor Oil C24-C36	960	8.5

Surrogate	%REC	Limits
o-Terphenyl	83	62-120

Field ID:	COMPOSITE # 5-8	Diln Fac:	2.000
Type:	SAMPLE	Prepared:	08/16/11
Lab ID:	230326-013	Analyzed:	08/17/11

Analyte	Result	RL
Diesel C10-C24	320	1.7
Motor Oil C24-C36	600	8.3

Surrogate	%REC	Limits
o-Terphenyl	79	62-120

Field ID:	COMPOSITE # 9-11	Diln Fac:	2.000
Type:	SAMPLE	Prepared:	08/16/11
Lab ID:	230326-014	Analyzed:	08/17/11

Analyte	Result	RL
Diesel C10-C24	210	1.6
Motor Oil C24-C36	400	8.2

Surrogate	%REC	Limits
o-Terphenyl	104	62-120

Type:	BLANK	Prepared:	08/15/11
Lab ID:	QC604437	Analyzed:	08/16/11
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	85	62-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 3550B
Project#:	11-319	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC604438	Batch#:	177851
Matrix:	Soil	Prepared:	08/15/11
Units:	mg/Kg	Analyzed:	08/16/11

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.66	39.03	79	54-138

Surrogate	%REC	Limits
o-Terphenyl	74	62-120

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 3550B
Project#:	11-319	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	177851
MSS Lab ID:	230239-006	Sampled:	08/12/11
Matrix:	Soil	Received:	08/12/11
Units:	mg/Kg	Prepared:	08/15/11
Basis:	as received	Analyzed:	08/16/11
Diln Fac:	2.000		

Type: MS Cleanup Method: EPA 3630C
Lab ID: QC604439

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	159.4	50.32	226.2	133	35-150

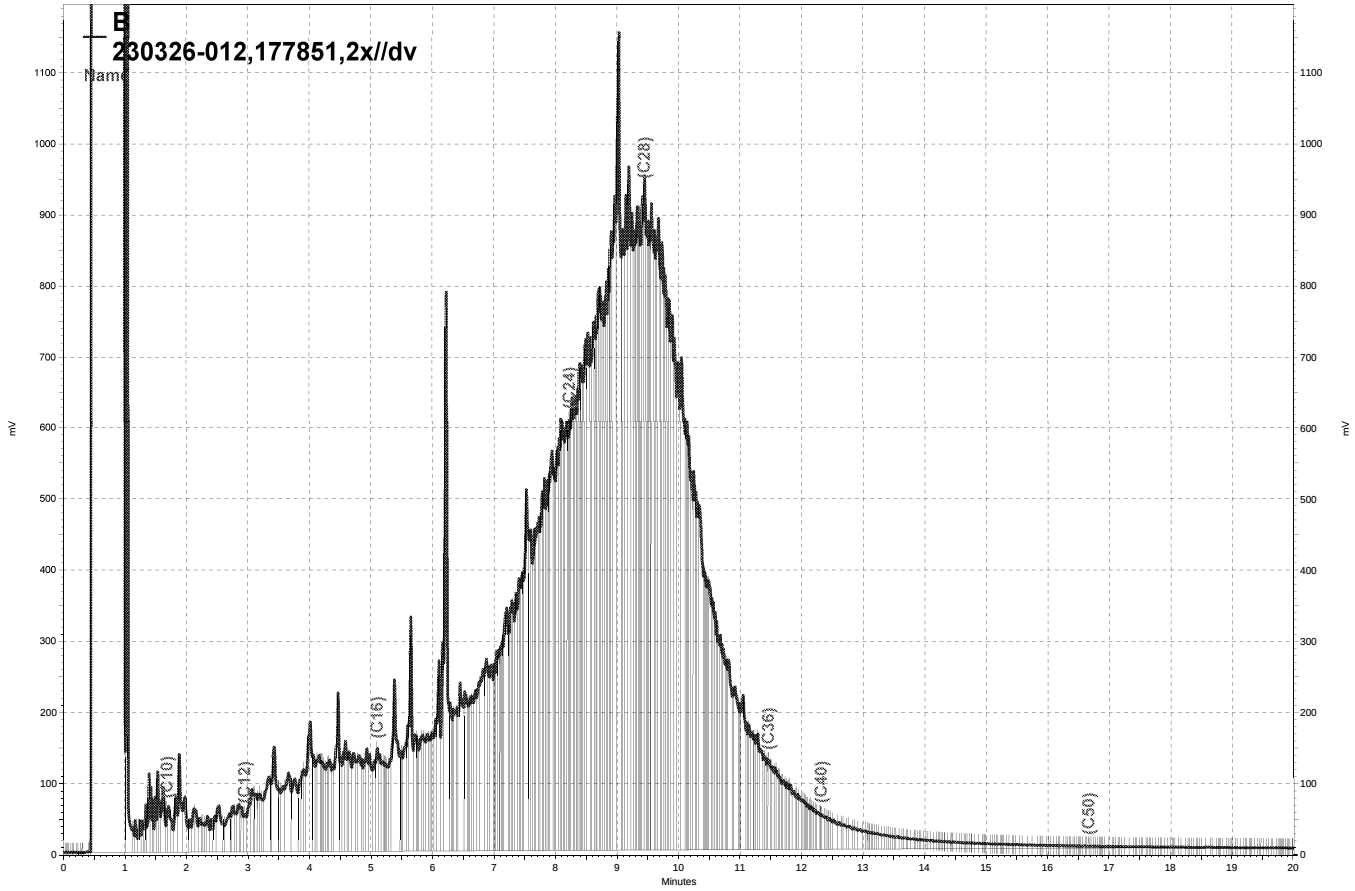
Surrogate	%REC	Limits
o-Terphenyl	55 *	62-120

Type: MSD Cleanup Method: EPA 3630C
Lab ID: QC604440

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	50.25	216.1	113	35-150	5	71

Surrogate	%REC	Limits
o-Terphenyl	73	62-120

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference



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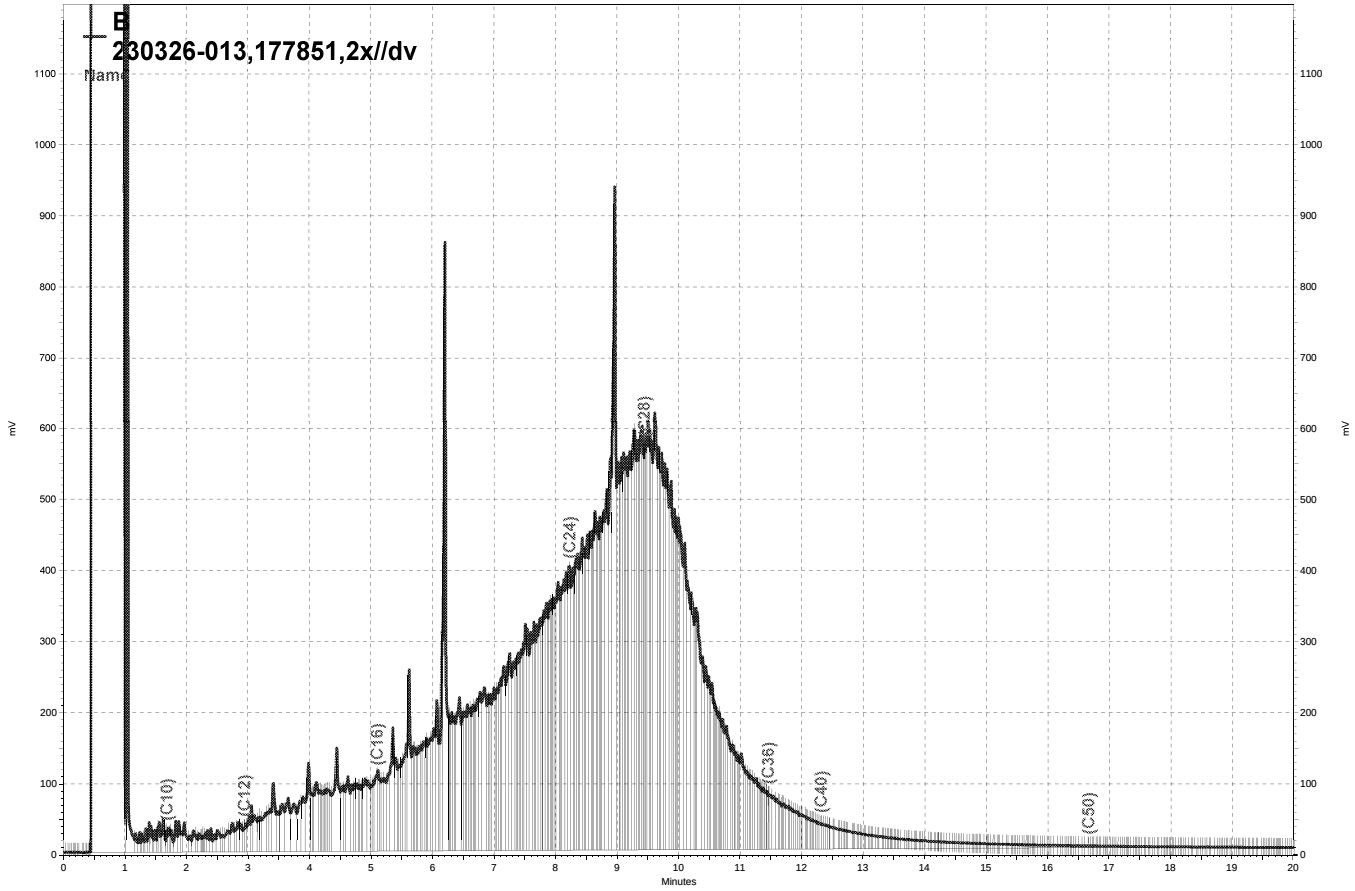

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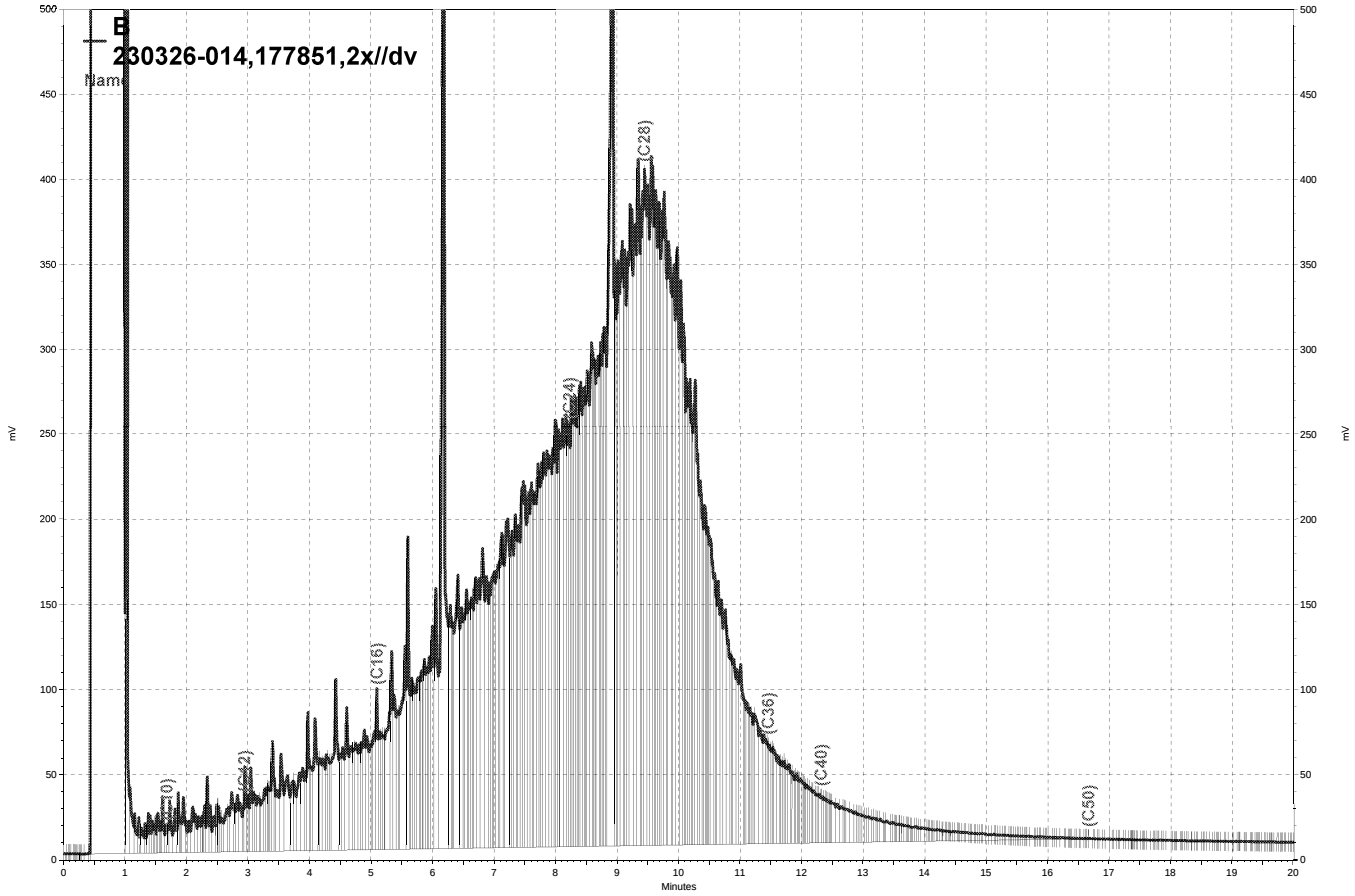

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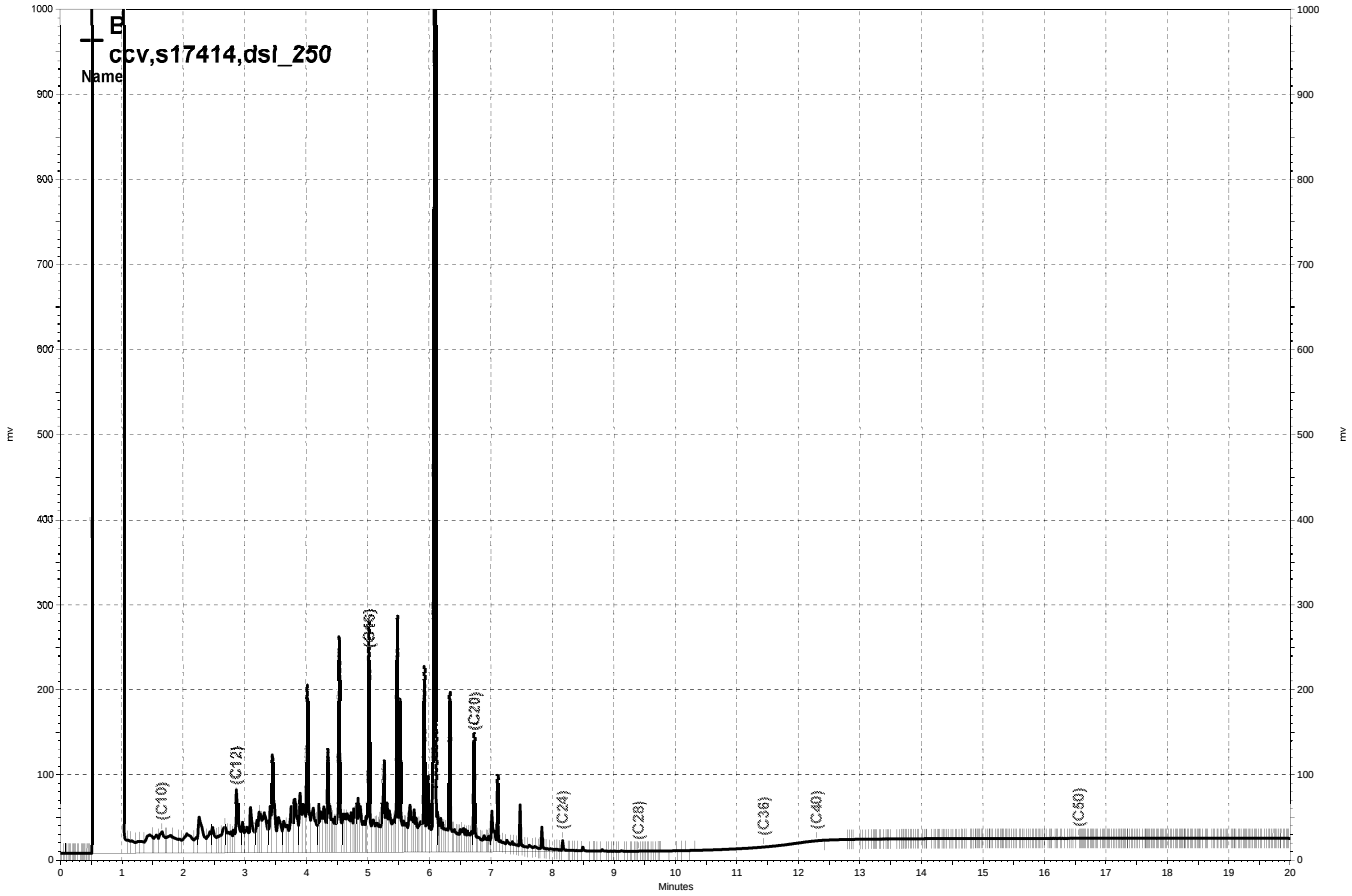

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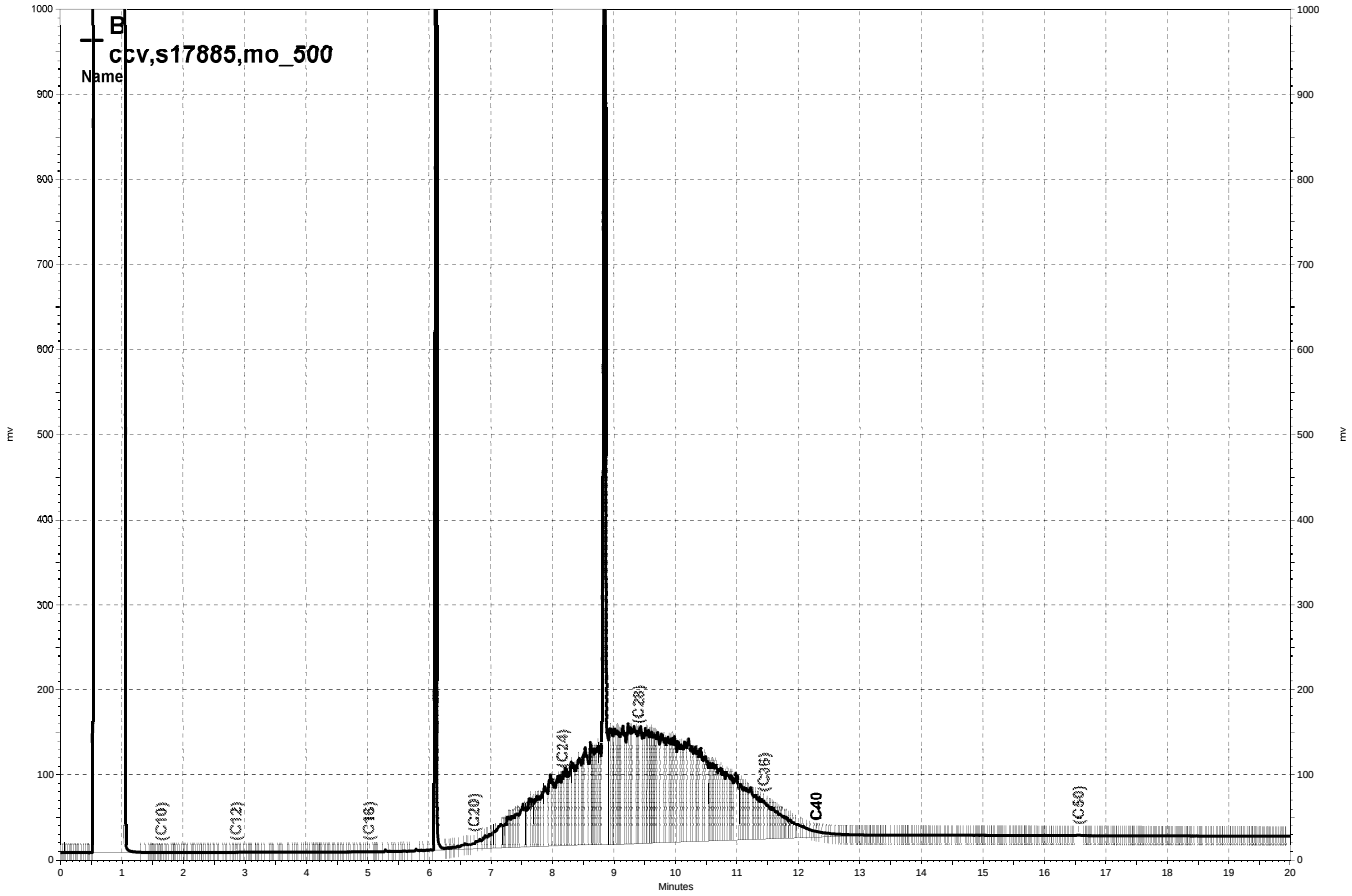


\\Lims\gdrive\ezchrom\Projects\GC15B\Data\228b005, B

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	230326	Project#:	11-319
Client:	Rockridge Geotechnical	Location:	Ashland Youth Center
Field ID:	COMPOSITE # 1-4	Diln Fac:	1.000
Lab ID:	230326-012	Sampled:	08/16/11
Matrix:	Soil	Received:	08/16/11
Units:	mg/Kg	Analyzed:	08/17/11
Basis:	as received		

Analyte	Result	RL	Batch#	Prepared	Prep	Analysis
Antimony	ND	0.50	177910	08/16/11	EPA 3050B	EPA 6010B
Arsenic	3.7	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Barium	140	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Beryllium	0.31	0.10	177910	08/16/11	EPA 3050B	EPA 6010B
Cadmium	0.49	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Chromium	48	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Cobalt	11	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Copper	50	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Lead	120	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Mercury	0.14	0.020	177938	08/17/11	METHOD	EPA 7471A
Molybdenum	ND	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Nickel	40	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	177910	08/16/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	177910	08/16/11	EPA 3050B	EPA 6010B
Vanadium	36	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Zinc	150	1.0	177910	08/16/11	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	230326	Project#:	11-319
Client:	Rockridge Geotechnical	Location:	Ashland Youth Center
Field ID:	COMPOSITE # 5-8	Diln Fac:	1.000
Lab ID:	230326-013	Sampled:	08/16/11
Matrix:	Soil	Received:	08/16/11
Units:	mg/Kg	Analyzed:	08/17/11
Basis:	as received		

Analyte	Result	RL	Batch#	Prepared	Prep	Analysis
Antimony	ND	0.50	177910	08/16/11	EPA 3050B	EPA 6010B
Arsenic	4.1	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Barium	140	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Beryllium	0.35	0.10	177910	08/16/11	EPA 3050B	EPA 6010B
Cadmium	0.48	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Chromium	37	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Cobalt	12	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Copper	42	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Lead	92	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Mercury	0.096	0.020	177938	08/17/11	METHOD	EPA 7471A
Molybdenum	ND	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Nickel	37	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	177910	08/16/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	177910	08/16/11	EPA 3050B	EPA 6010B
Vanadium	38	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Zinc	110	1.0	177910	08/16/11	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	230326	Project#:	11-319
Client:	Rockridge Geotechnical	Location:	Ashland Youth Center
Field ID:	COMPOSITE # 9-11	Diln Fac:	1.000
Lab ID:	230326-014	Sampled:	08/16/11
Matrix:	Soil	Received:	08/16/11
Units:	mg/Kg	Analyzed:	08/17/11
Basis:	as received		

Analyte	Result	RL	Batch#	Prepared	Prep	Analysis
Antimony	ND	0.50	177910	08/16/11	EPA 3050B	EPA 6010B
Arsenic	5.1	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Barium	150	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Beryllium	0.39	0.10	177910	08/16/11	EPA 3050B	EPA 6010B
Cadmium	0.42	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Chromium	37	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Cobalt	10	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Copper	29	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Lead	110	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Mercury	0.093	0.020	177938	08/17/11	METHOD	EPA 7471A
Molybdenum	0.45	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Nickel	39	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	177910	08/16/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	177910	08/16/11	EPA 3050B	EPA 6010B
Vanadium	37	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Zinc	100	1.0	177910	08/16/11	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 3050B
Project#:	11-319	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC604682	Batch#:	177910
Matrix:	Miscell.	Prepared:	08/16/11
Units:	mg/Kg	Analyzed:	08/17/11

Analyte	Result	RL
Antimony	ND	0.50
Arsenic	ND	0.25
Barium	ND	0.25
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.25
Cobalt	ND	0.25
Copper	ND	0.26
Lead	ND	0.25
Molybdenum	ND	0.25
Nickel	ND	0.25
Selenium	ND	0.50
Silver	ND	0.25
Thallium	ND	0.50
Vanadium	ND	0.25
Zinc	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 3050B
Project#:	11-319	Analysis:	EPA 6010B
Matrix:	Miscell.	Batch#:	177910
Units:	mg/Kg	Prepared:	08/16/11
Diln Fac:	1.000	Analyzed:	08/17/11

Type: BS Lab ID: QC604683

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	101.1	101	80-120
Arsenic	50.00	50.86	102	80-120
Barium	100.0	97.56	98	80-120
Beryllium	2.500	2.496	100	80-120
Cadmium	10.00	10.17	102	80-120
Chromium	100.0	97.91	98	80-120
Cobalt	25.00	24.01	96	80-120
Copper	12.50	12.73	102	80-120
Lead	100.0	96.99	97	80-120
Molybdenum	20.00	20.57	103	80-120
Nickel	25.00	24.41	98	80-120
Selenium	50.00	49.18	98	80-120
Silver	10.00	9.755	98	80-120
Thallium	50.00	49.98	100	80-120
Vanadium	25.00	24.61	98	80-120
Zinc	25.00	25.44	102	80-120

Type: BSD Lab ID: QC604684

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	96.55	97	80-120	5	20
Arsenic	50.00	48.72	97	80-120	4	20
Barium	100.0	91.50	92	80-120	6	20
Beryllium	2.500	2.373	95	80-120	5	20
Cadmium	10.00	9.727	97	80-120	4	20
Chromium	100.0	91.73	92	80-120	7	20
Cobalt	25.00	22.53	90	80-120	6	20
Copper	12.50	12.01	96	80-120	6	20
Lead	100.0	92.43	92	80-120	5	20
Molybdenum	20.00	19.66	98	80-120	5	20
Nickel	25.00	22.84	91	80-120	7	20
Selenium	50.00	48.08	96	80-120	2	20
Silver	10.00	9.129	91	80-120	7	20
Thallium	50.00	47.61	95	80-120	5	20
Vanadium	25.00	23.12	92	80-120	6	20
Zinc	25.00	23.69	95	80-120	7	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 3050B
Project#:	11-319	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	177910
MSS Lab ID:	230097-021	Sampled:	08/09/11
Matrix:	Miscell.	Received:	08/09/11
Units:	mg/Kg	Prepared:	08/16/11
Basis:	as received	Analyzed:	08/17/11
Diln Fac:	1.000		

Type: MS Lab ID: QC604685

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<0.1431	92.59	37.23	40	1-120
Arsenic	0.3591	46.30	45.34	97	70-120
Barium	44.65	92.59	117.4	79	39-146
Beryllium	0.3505	2.315	2.421	89	79-120
Cadmium	<0.01440	9.259	8.012	87	70-120
Chromium	152.0	92.59	232.8	87	54-127
Cobalt	24.50	23.15	43.87	84	54-121
Copper	90.59	11.57	107.9	150 NM	37-159
Lead	1.521	92.59	77.07	82	54-124
Molybdenum	<0.05058	18.52	15.89	86	67-120
Nickel	87.87	23.15	112.8	108	37-141
Selenium	<0.1318	46.30	38.78	84	70-120
Silver	<0.06735	9.259	8.943	97	68-120
Thallium	3.826	46.30	40.56	79	65-120
Vanadium	140.5	23.15	157.6	74 NM	47-144
Zinc	64.84	23.15	87.85	99	32-153

Type: MSD Lab ID: QC604686

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	98.04	43.50	44	1-120	10	41
Arsenic	49.02	43.89	89	70-120	9	32
Barium	98.04	136.3	94	39-146	11	53
Beryllium	2.451	2.573	91	79-120	1	21
Cadmium	9.804	8.338	85	70-120	2	37
Chromium	98.04	236.8	87	54-127	0	36
Cobalt	24.51	44.23	81	54-121	2	33
Copper	12.25	108.0	142 NM	37-159	1	32
Lead	98.04	84.85	85	54-124	4	43
Molybdenum	19.61	16.79	86	67-120	0	22
Nickel	24.51	104.1	66	37-141	9	33
Selenium	49.02	49.44	101	70-120	19	22
Silver	9.804	9.410	96	68-120	1	26
Thallium	49.02	42.66	79	65-120	0	29
Vanadium	24.51	170.4	122 NM	47-144	7	30
Zinc	24.51	90.64	105	32-153	2	37

NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	METHOD
Project#:	11-319	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	177938
Lab ID:	QC604792	Prepared:	08/17/11
Matrix:	Soil	Analyzed:	08/17/11
Units:	mg/Kg		

Result	RL
ND	0.020

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	METHOD
Project#:	11-319	Analysis:	EPA 7471A
Analyte:	Mercury	Batch#:	177938
Matrix:	Soil	Prepared:	08/17/11
Units:	mg/Kg	Analyzed:	08/17/11
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC604793	0.2083	0.2290	110	80-120		
BSD	QC604794	0.2083	0.2292	110	80-120	0	28

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	METHOD
Project#:	11-319	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	177938
MSS Lab ID:	230235-002	Sampled:	08/11/11
Matrix:	Soil	Received:	08/12/11
Units:	mg/Kg	Prepared:	08/17/11
Basis:	as received	Analyzed:	08/17/11

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC604795	0.2505	0.2049	0.3790	63	63-133		
MSD	QC604796		0.2049	0.4024	74	63-133	6	39

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 5030B
Project#:	11-319		
Matrix:	Soil	Sampled:	08/16/11
Basis:	as received	Received:	08/16/11
Diln Fac:	1.000		

Field ID: COMPOSITE # 1-4 Lab ID: 230326-012
Type: SAMPLE

Analyte	Result	RL	Units	Batch#	Analyzed	Analysis
Gasoline C7-C12	2.0 Y	0.93	mg/Kg	177897	08/17/11	EPA 8015B
Benzene	ND	5.1	ug/Kg	178002	08/18/11	EPA 8021B
Toluene	ND	5.1	ug/Kg	178002	08/18/11	EPA 8021B
Ethylbenzene	ND	5.1	ug/Kg	178002	08/18/11	EPA 8021B
m,p-Xylenes	ND	5.1	ug/Kg	178002	08/18/11	EPA 8021B
o-Xylene	ND	5.1	ug/Kg	178002	08/18/11	EPA 8021B

Surrogate	%REC	Limits	Batch#	Analyzed	Analysis
Bromofluorobenzene (FID)	100	74-132	177897	08/17/11	EPA 8015B
Bromofluorobenzene (PID)	120	53-129	178002	08/18/11	EPA 8021B

Field ID: COMPOSITE # 5-8 Lab ID: 230326-013
Type: SAMPLE

Analyte	Result	RL	Units	Batch#	Analyzed	Analysis
Gasoline C7-C12	1.2 Y	0.93	mg/Kg	177897	08/17/11	EPA 8015B
Benzene	ND	4.7	ug/Kg	178002	08/18/11	EPA 8021B
Toluene	ND	4.7	ug/Kg	178002	08/18/11	EPA 8021B
Ethylbenzene	ND	4.7	ug/Kg	178002	08/18/11	EPA 8021B
m,p-Xylenes	9.5	4.7	ug/Kg	178002	08/18/11	EPA 8021B
o-Xylene	ND	4.7	ug/Kg	178002	08/18/11	EPA 8021B

Surrogate	%REC	Limits	Batch#	Analyzed	Analysis
Bromofluorobenzene (FID)	97	74-132	177897	08/17/11	EPA 8015B
Bromofluorobenzene (PID)	113	53-129	178002	08/18/11	EPA 8021B

Field ID: COMPOSITE # 9-11 Lab ID: 230326-014
Type: SAMPLE

Analyte	Result	RL	Units	Batch#	Analyzed	Analysis
Gasoline C7-C12	1.4 Y	0.95	mg/Kg	177897	08/17/11	EPA 8015B
Benzene	ND	4.6	ug/Kg	178002	08/18/11	EPA 8021B
Toluene	ND	4.6	ug/Kg	178002	08/18/11	EPA 8021B
Ethylbenzene	ND	4.6	ug/Kg	178002	08/18/11	EPA 8021B
m,p-Xylenes	15	4.6	ug/Kg	178002	08/18/11	EPA 8021B
o-Xylene	ND	4.6	ug/Kg	178002	08/18/11	EPA 8021B

Surrogate	%REC	Limits	Batch#	Analyzed	Analysis
Bromofluorobenzene (FID)	94	74-132	177897	08/17/11	EPA 8015B
Bromofluorobenzene (PID)	110	53-129	178002	08/18/11	EPA 8021B

Y= Sample exhibits chromatographic pattern which does not resemble standard
NA= Not Analyzed
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 5030B
Project#:	11-319		
Matrix:	Soil	Sampled:	08/16/11
Basis:	as received	Received:	08/16/11
Diln Fac:	1.000		

Type:	BLANK	Batch#:	177897
Lab ID:	QC604614	Analyzed:	08/16/11
Units:	mg/Kg	Analysis:	EPA 8015B

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	Result	%REC	Limits
Bromofluorobenzene (FID)		96	74-132
Bromofluorobenzene (PID)	NA		

Type:	BLANK	Batch#:	178002
Lab ID:	QC605057	Analyzed:	08/18/11
Units:	ug/Kg	Analysis:	EPA 8021B

Analyte	Result	RL
Benzene	ND	5.0
Toluene	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0

Surrogate	Result	%REC	Limits
Bromofluorobenzene (FID)	NA		
Bromofluorobenzene (PID)		102	53-129

Y= Sample exhibits chromatographic pattern which does not resemble standard
NA= Not Analyzed
ND= Not Detected
RL= Reporting Limit

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 5030B
Project#:	11-319	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC604613	Batch#:	177897
Matrix:	Soil	Analyzed:	08/16/11
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	0.9186	92	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	84	74-132

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 5030B
Project#:	11-319	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	230256-001	Batch#:	177897
Matrix:	Soil	Sampled:	08/09/11
Units:	mg/Kg	Received:	08/12/11
Basis:	as received	Analyzed:	08/17/11

Type: MS Lab ID: QC604615

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.1652	11.11	8.932	79	43-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	97	74-132

Type: MSD Lab ID: QC604616

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	9.346	6.826	71	43-120	10	34

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	95	74-132

RPD= Relative Percent Difference

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 5030B
Project#:	11-319	Analysis:	EPA 8021B
Matrix:	Soil	Batch#:	178002
Units:	ug/Kg	Analyzed:	08/18/11
Diln Fac:	1.000		

Type: BS Lab ID: QC605113

Analyte	Spiked	Result	%REC	Limits
Benzene	10.00	9.669	97	80-120
Toluene	10.00	9.469	95	80-120
Ethylbenzene	10.00	10.68	107	80-120
m,p-Xylenes	10.00	9.844	98	80-120
o-Xylene	10.00	9.631	96	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (PID)	116	53-129

Type: BSD Lab ID: QC605114

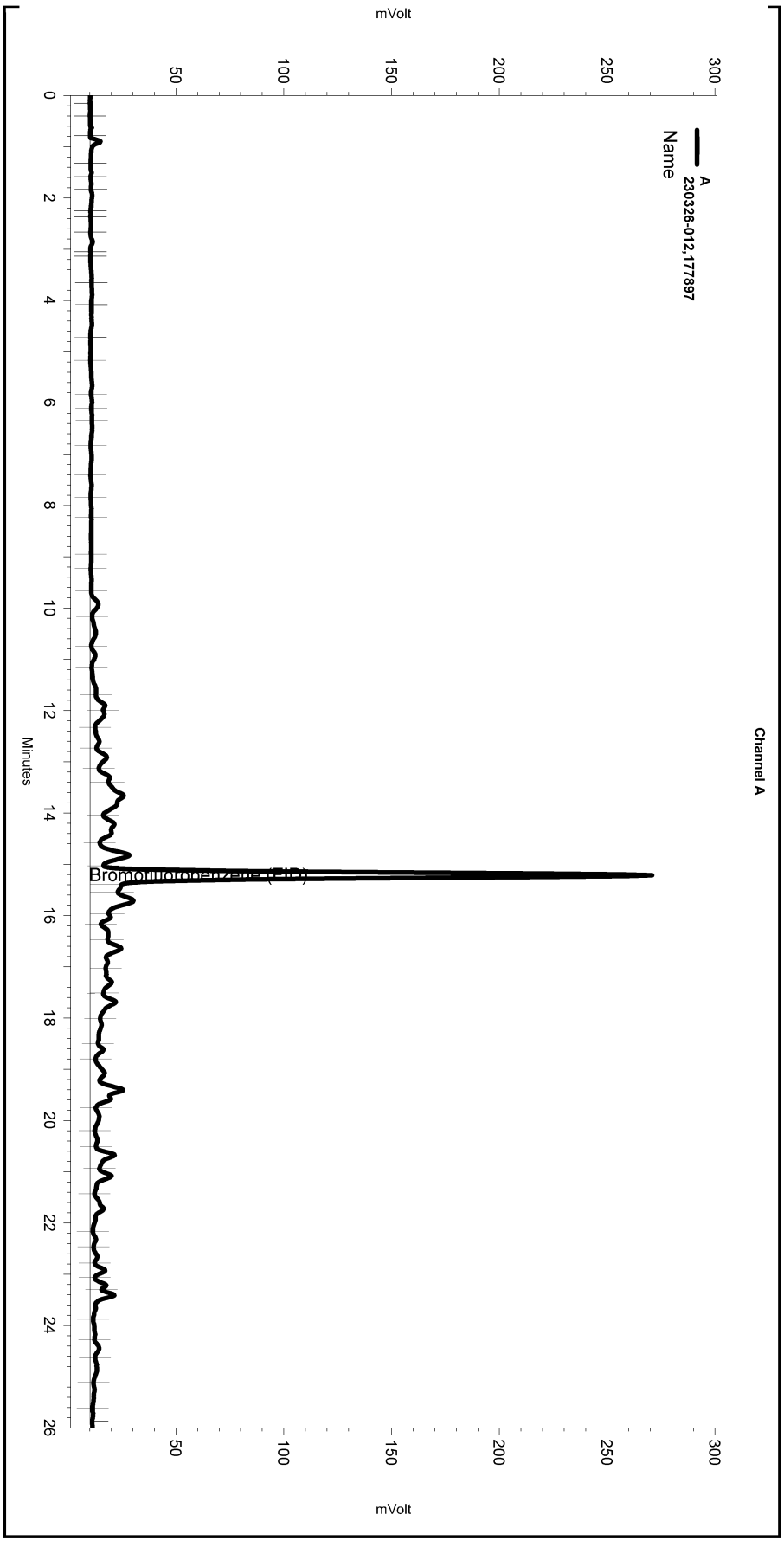
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Benzene	20.00	20.34	102	80-120	5	20
Toluene	20.00	18.93	95	80-120	0	21
Ethylbenzene	20.00	22.17	111	80-120	4	20
m,p-Xylenes	20.00	20.71	104	80-120	5	20
o-Xylene	20.00	18.99	95	80-120	1	20

Surrogate	%REC	Limits
Bromofluorobenzene (PID)	113	53-129

RPD= Relative Percent Difference

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\228.seq**
Sample Name: **230326-012,177897**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\228-032**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe153.met

Software Version 3.1.7
Run Date: 8/17/2011 12:47:13 PM
Analysis Date: 8/17/2011 3:32:54 PM
Sample Amount: 1.07 Multiplier: 1.07
Vial & pH or Core ID: comp(9-11)a



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No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

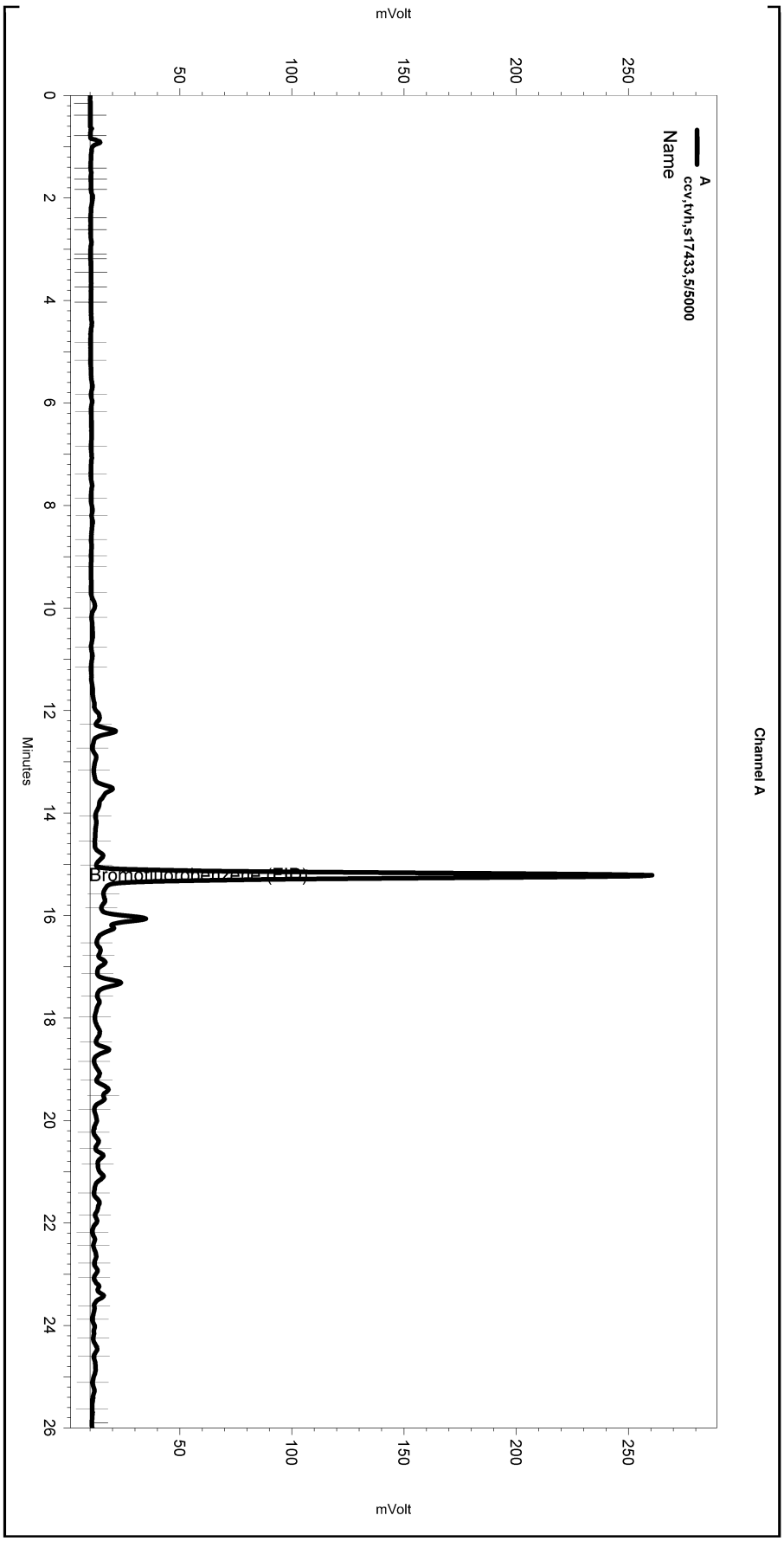
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\228-032

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0	26.017	0
Yes	Split Peak	15.405	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\228.seq**
Sample Name: **ccv,tvh,s17433,5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\228-033**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe153.met

Software Version 3.1.7
Run Date: 8/17/2011 1:25:08 PM
Analysis Date: 8/17/2011 3:34:10 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



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No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

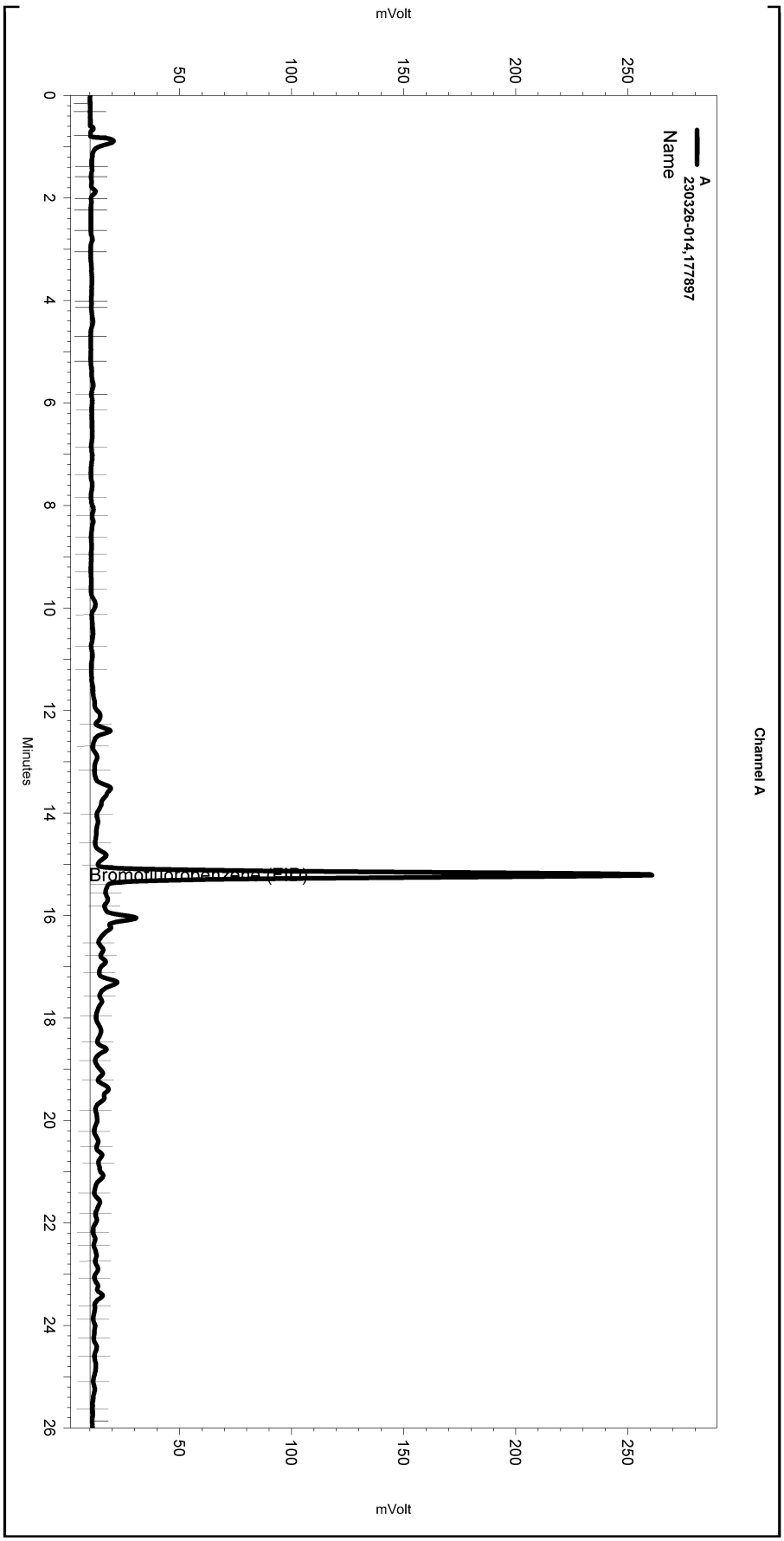
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\228-033

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0	26.017	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\228.seq**
Sample Name: **230326-014,177897**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\228-031**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe153.met

Software Version 3.1.7
Run Date: 8/17/2011 12:08:58 PM
Analysis Date: 8/17/2011 3:33:33 PM
Sample Amount: 1.05 Multiplier: 1.05
Vial & pH or Core ID: comp(5-8)a



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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

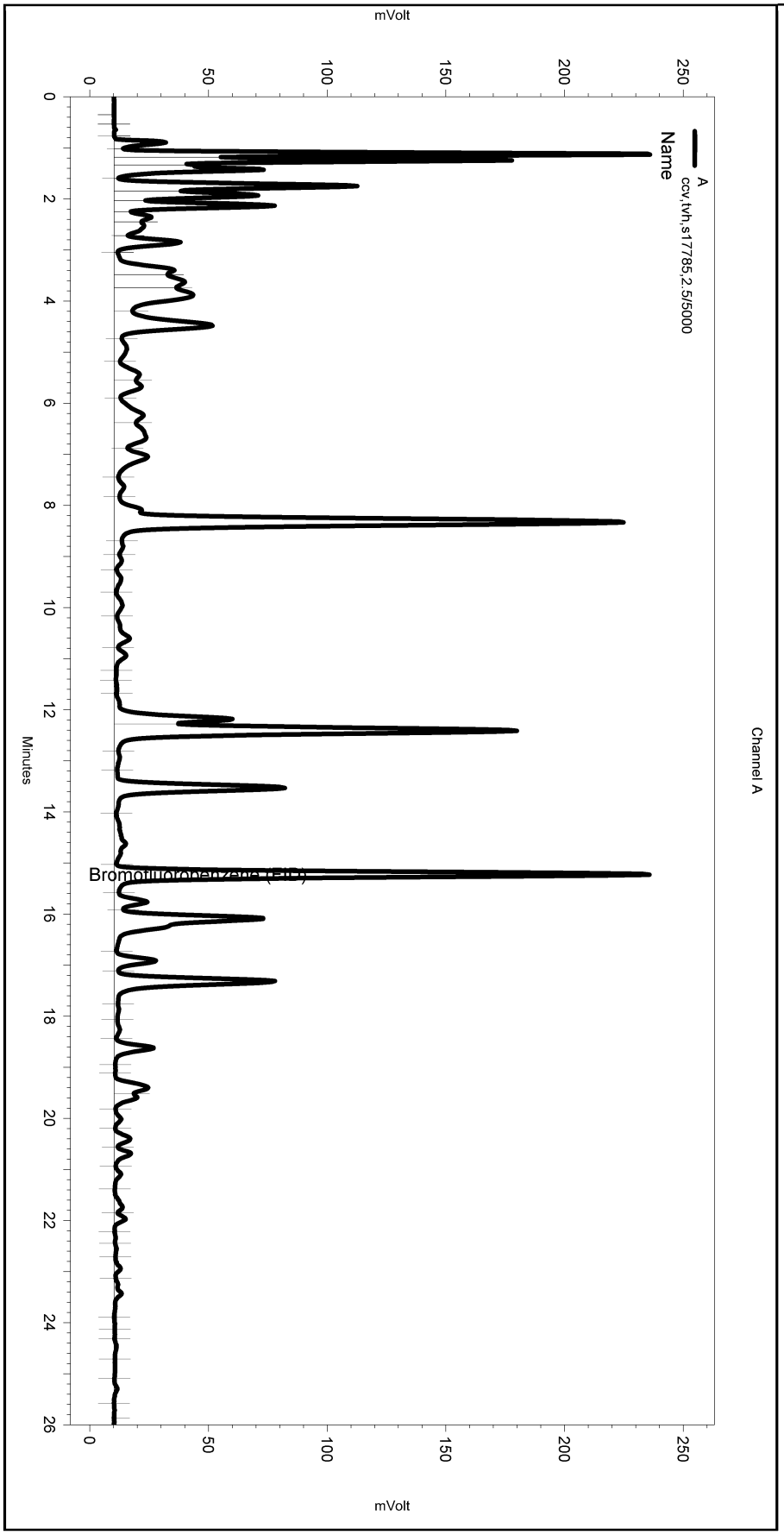
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\228-031

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0	26.017	0
Yes	Split Peak	15.401	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\228.seq**
Sample Name: **ccv,tvh,s17785,2.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\228-003**
Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe153.met

Software Version 3.1.7
Run Date: 8/16/2011 11:49:41 AM
Analysis Date: 8/16/2011 12:18:24 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\228-003_5663.tmp

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

None

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 3550B
Project#:	11-319	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	177851
Units:	mg/Kg	Sampled:	08/16/11
Basis:	as received	Received:	08/16/11

Field ID:	COMPOSITE # 1-4	Prepared:	08/16/11
Type:	SAMPLE	Analyzed:	08/18/11
Lab ID:	230326-012	Cleanup Method:	EPA 3630C
Diln Fac:	5.000		

Analyte	Result	RL
Diesel C10-C24	410 Y	4.2
Motor Oil C24-C36	970	21

Surrogate	%REC	Limits
o-Terphenyl	91	62-120

Field ID:	COMPOSITE # 5-8	Prepared:	08/16/11
Type:	SAMPLE	Analyzed:	08/18/11
Lab ID:	230326-013	Cleanup Method:	EPA 3630C
Diln Fac:	5.000		

Analyte	Result	RL
Diesel C10-C24	370 Y	4.2
Motor Oil C24-C36	760	21

Surrogate	%REC	Limits
o-Terphenyl	108	62-120

Field ID:	COMPOSITE # 9-11	Prepared:	08/16/11
Type:	SAMPLE	Analyzed:	08/18/11
Lab ID:	230326-014	Cleanup Method:	EPA 3630C
Diln Fac:	5.000		

Analyte	Result	RL
Diesel C10-C24	220 Y	4.1
Motor Oil C24-C36	430	21

Surrogate	%REC	Limits
o-Terphenyl	98	62-120

Type:	BLANK	Prepared:	08/15/11
Lab ID:	QC604437	Analyzed:	08/17/11
Diln Fac:	1.000	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	78	62-120

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

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 3550B
Project#:	11-319	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC604438	Batch#:	177851
Matrix:	Soil	Prepared:	08/15/11
Units:	mg/Kg	Analyzed:	08/16/11

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.66	39.03	79	54-138

Surrogate	%REC	Limits
o-Terphenyl	74	62-120

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 3550B
Project#:	11-319	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	177851
MSS Lab ID:	230239-006	Sampled:	08/12/11
Matrix:	Soil	Received:	08/12/11
Units:	mg/Kg	Prepared:	08/15/11
Basis:	as received	Analyzed:	08/16/11
Diln Fac:	2.000		

Type: MS Cleanup Method: EPA 3630C
Lab ID: QC604439

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	159.4	50.32	226.2	133	35-150

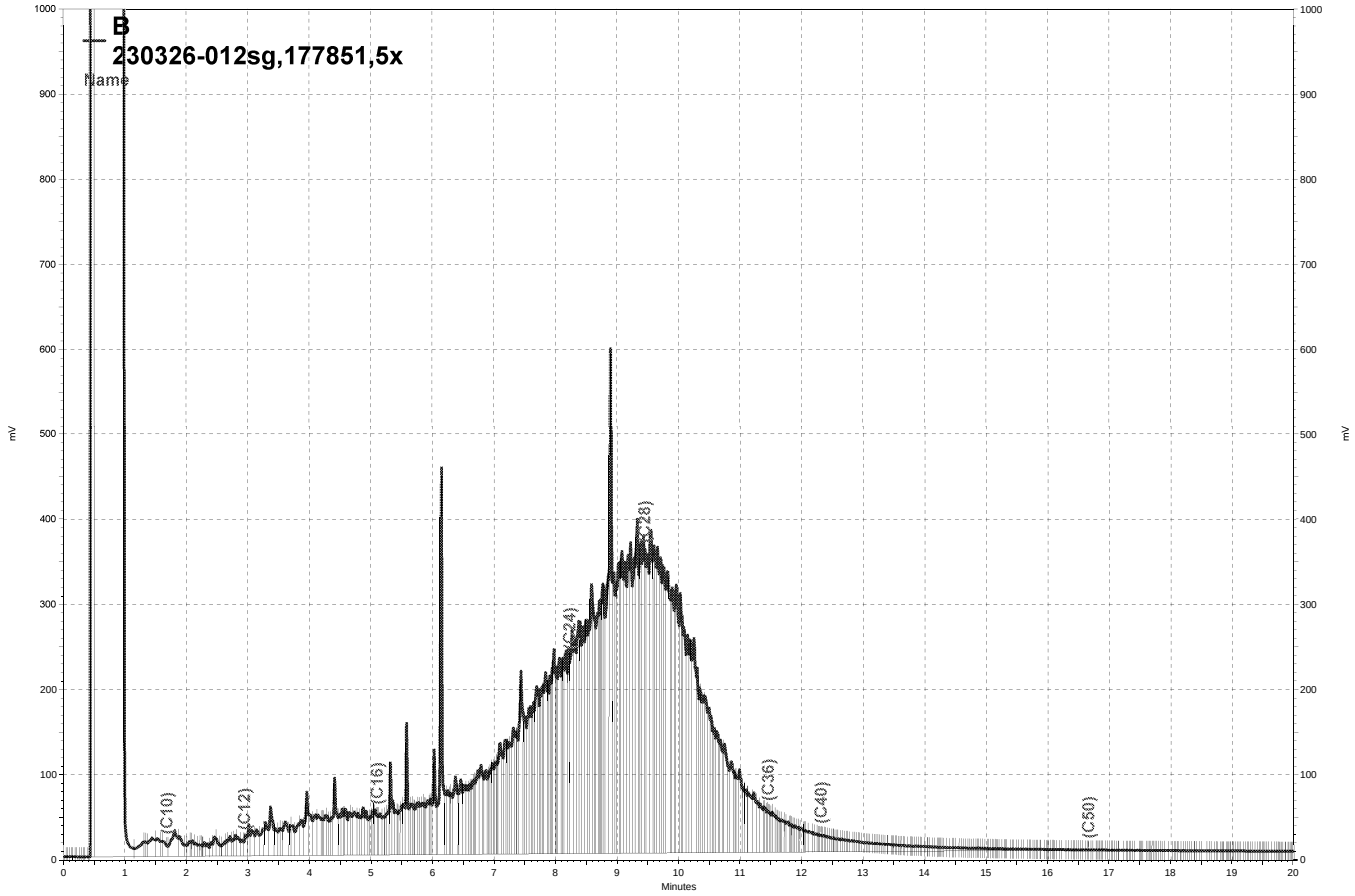
Surrogate	%REC	Limits
o-Terphenyl	55 *	62-120

Type: MSD Cleanup Method: EPA 3630C
Lab ID: QC604440

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	50.25	216.1	113	35-150	5	71

Surrogate	%REC	Limits
o-Terphenyl	73	62-120

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference



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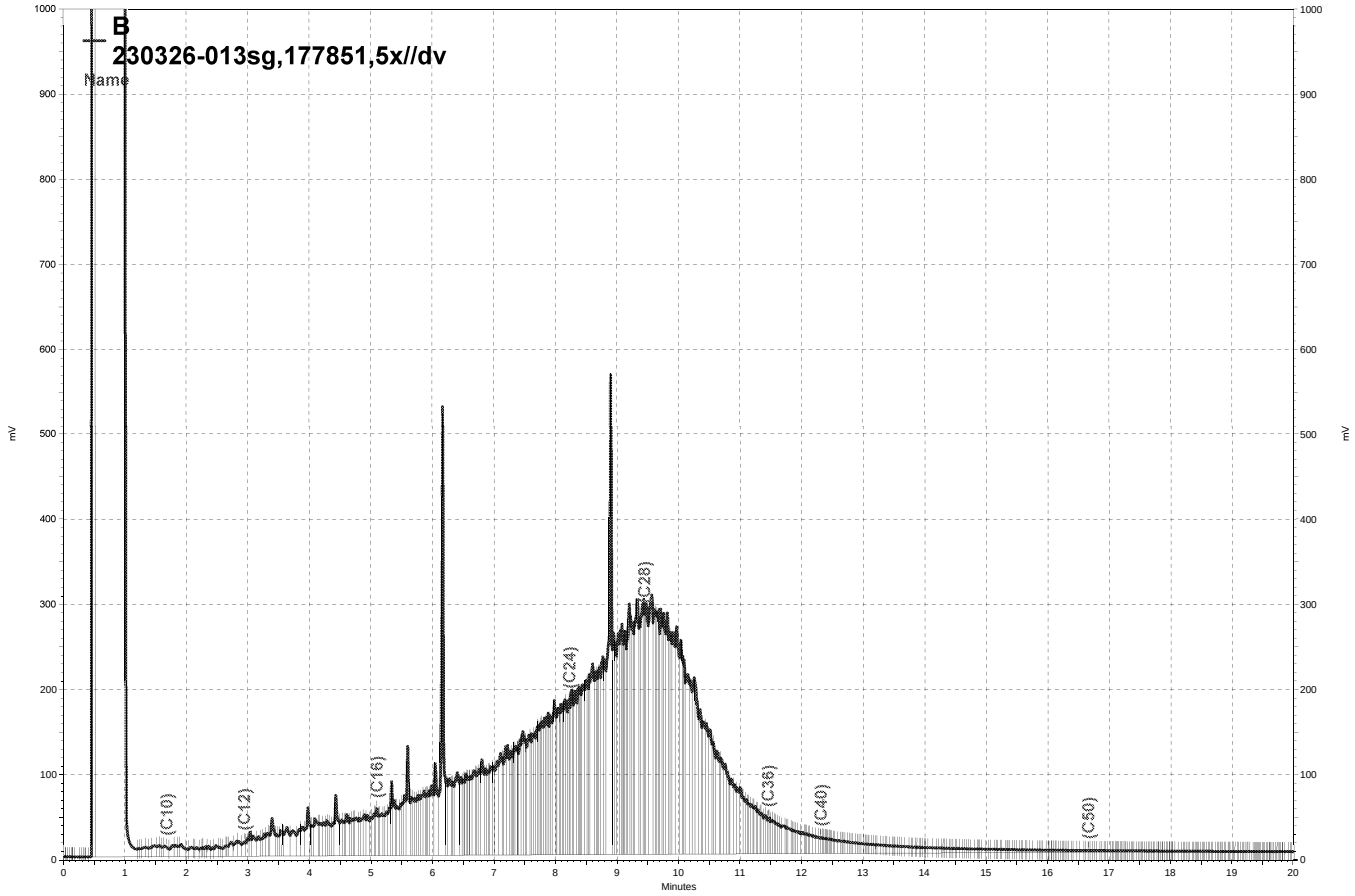

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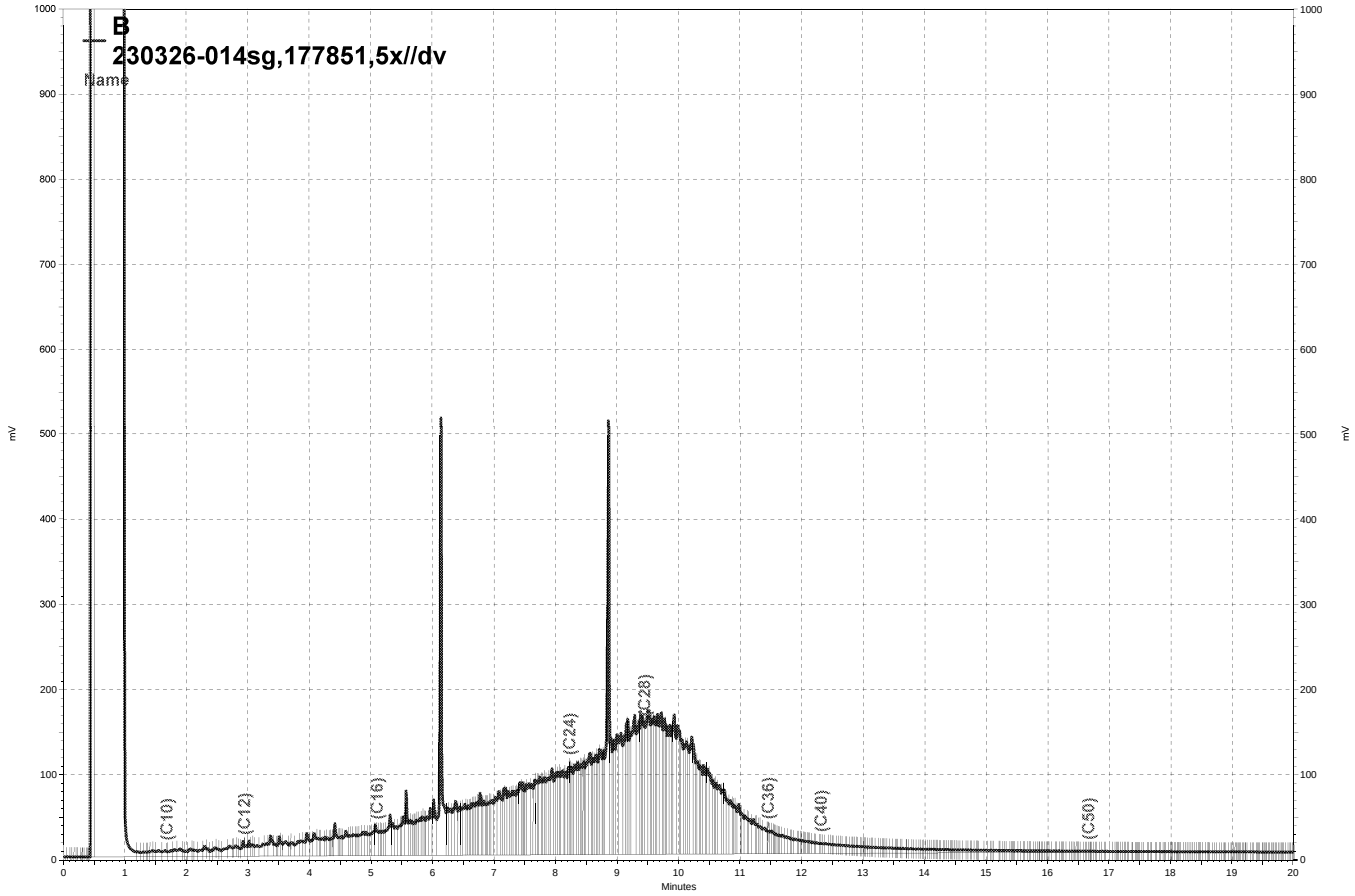

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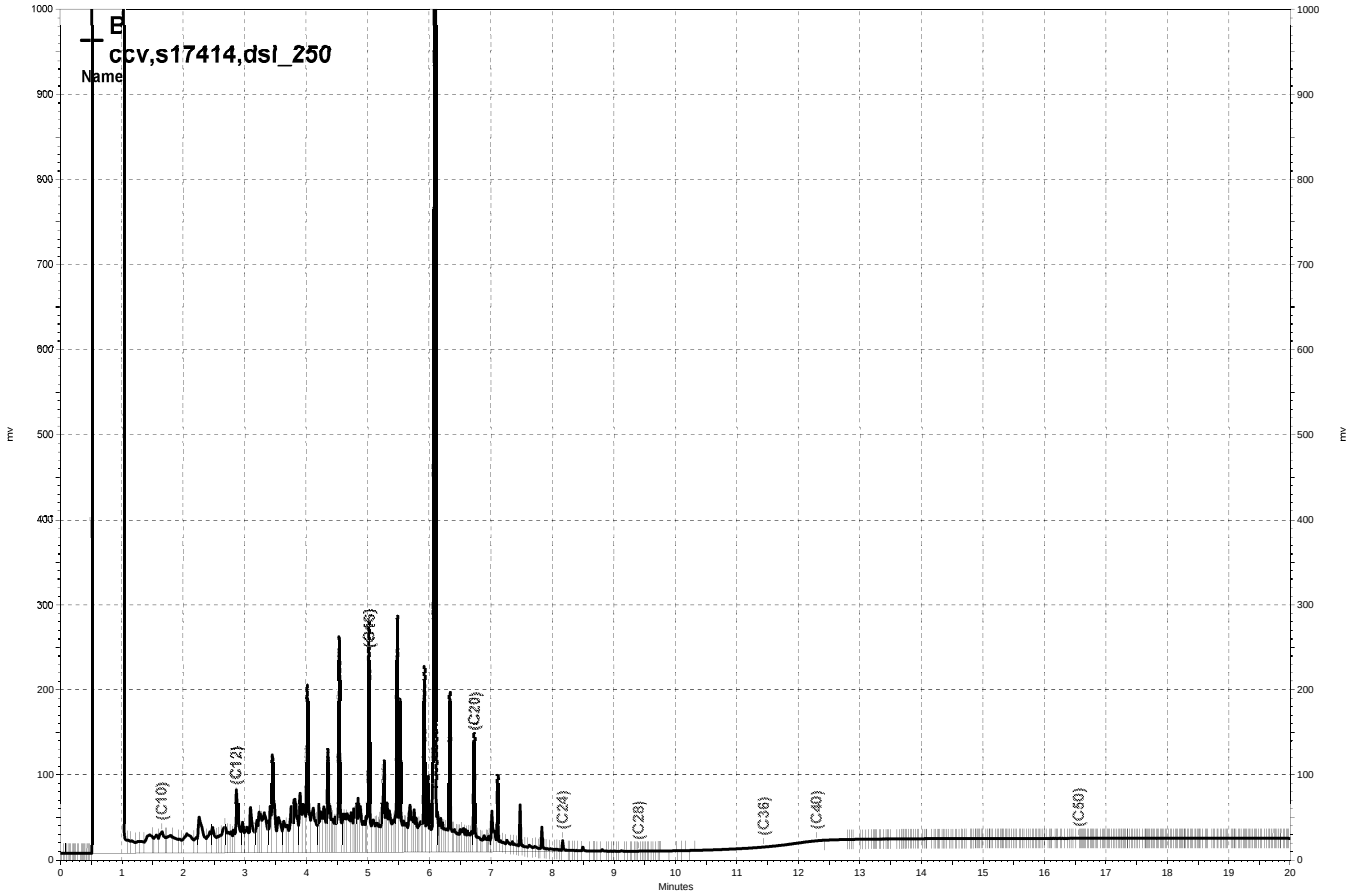

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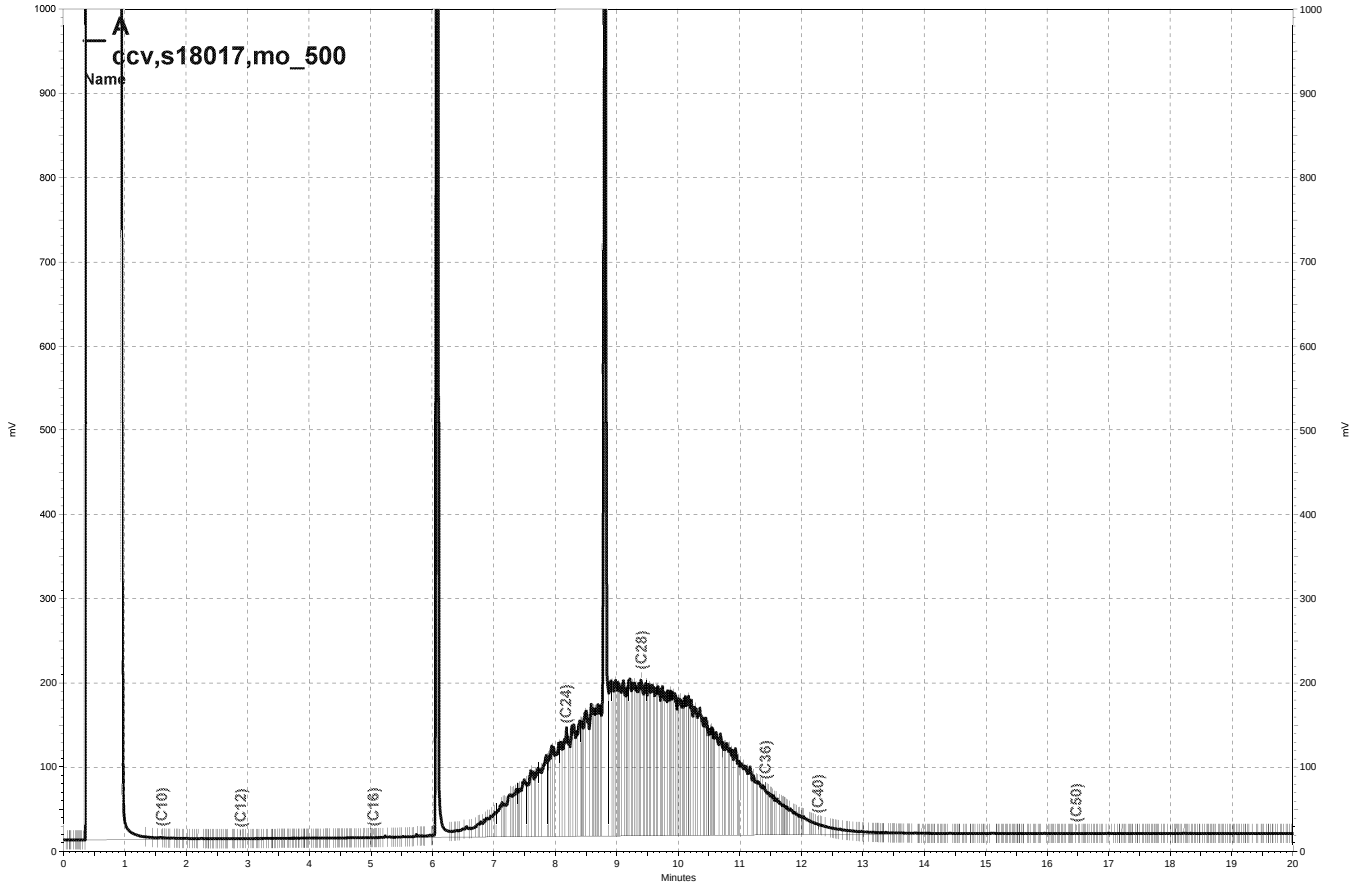

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Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 3550B
Project#:	11-319	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	08/16/11
Units:	ug/Kg	Received:	08/16/11
Basis:	as received	Prepared:	08/17/11
Diln Fac:	1.000	Analyzed:	08/17/11
Batch#:	177935		

Field ID: COMPOSITE # 1-4 Lab ID: 230326-012
Type: SAMPLE

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	41	12
Aroclor-1260	110	12

Surrogate	%REC	Limits
TCMX	86	57-133
Decachlorobiphenyl	55	33-120

Field ID: COMPOSITE # 5-8 Lab ID: 230326-013
Type: SAMPLE

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	52	12
Aroclor-1260	110	12

Surrogate	%REC	Limits
TCMX	91	57-133
Decachlorobiphenyl	60	33-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 3550B
Project#:	11-319	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	08/16/11
Units:	ug/Kg	Received:	08/16/11
Basis:	as received	Prepared:	08/17/11
Diln Fac:	1.000	Analyzed:	08/17/11
Batch#:	177935		

Field ID: COMPOSITE # 9-11 Lab ID: 230326-014
Type: SAMPLE

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	33	12
Aroclor-1260	56	12

Surrogate	%REC	Limits
TCMX	98	57-133
Decachlorobiphenyl	68	33-120

Type: BLANK Lab ID: QC604781

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	111	57-133
Decachlorobiphenyl	63	33-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 3550B
Project#:	11-319	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC604782	Batch#:	177935
Matrix:	Soil	Prepared:	08/17/11
Units:	ug/Kg	Analyzed:	08/17/11

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	166.8	184.3	110	64-143
Aroclor-1260	166.8	166.5	100	61-152

Surrogate	%REC	Limits
TCMX	116	57-133
Decachlorobiphenyl	82	33-120

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 3550B
Project#:	11-319	Analysis:	EPA 8082
Field ID:	COMPOSITE # 1-4	Batch#:	177935
MSS Lab ID:	230326-012	Sampled:	08/16/11
Matrix:	Soil	Received:	08/16/11
Units:	ug/Kg	Prepared:	08/17/11
Basis:	as received	Analyzed:	08/17/11
Diln Fac:	1.000		

Type: MS Lab ID: QC604783

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<2.946	166.7	186.1	112	50-156
Aroclor-1260	107.7	166.7	282.5	105	33-150

Surrogate	%REC	Limits
TCMX	95	57-133
Decachlorobiphenyl	50	33-120

Type: MSD Lab ID: QC604784

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	164.7	200.0	121	50-156	8	44
Aroclor-1260	164.7	260.0	92	33-150	8	36

Surrogate	%REC	Limits
TCMX	89	57-133
Decachlorobiphenyl	45	33-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	230326	Project#:	11-319
Client:	Rockridge Geotechnical	Location:	Ashland Youth Center
Field ID:	COMPOSITE # 1-4	Diln Fac:	1.000
Lab ID:	230326-012	Sampled:	08/16/11
Matrix:	Soil	Received:	08/16/11
Units:	mg/Kg	Analyzed:	08/17/11
Basis:	as received		

Analyte	Result	RL	Batch#	Prepared	Prep	Analysis
Antimony	ND	0.50	177910	08/16/11	EPA 3050B	EPA 6010B
Arsenic	3.7	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Barium	140	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Beryllium	0.31	0.10	177910	08/16/11	EPA 3050B	EPA 6010B
Cadmium	0.49	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Chromium	48	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Cobalt	11	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Copper	50	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Lead	120	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Mercury	0.14	0.020	177938	08/17/11	METHOD	EPA 7471A
Molybdenum	ND	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Nickel	40	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	177910	08/16/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	177910	08/16/11	EPA 3050B	EPA 6010B
Vanadium	36	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Zinc	150	1.0	177910	08/16/11	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	230326	Project#:	11-319
Client:	Rockridge Geotechnical	Location:	Ashland Youth Center
Field ID:	COMPOSITE # 5-8	Diln Fac:	1.000
Lab ID:	230326-013	Sampled:	08/16/11
Matrix:	Soil	Received:	08/16/11
Units:	mg/Kg	Analyzed:	08/17/11
Basis:	as received		

Analyte	Result	RL	Batch#	Prepared	Prep	Analysis
Antimony	ND	0.50	177910	08/16/11	EPA 3050B	EPA 6010B
Arsenic	4.1	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Barium	140	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Beryllium	0.35	0.10	177910	08/16/11	EPA 3050B	EPA 6010B
Cadmium	0.48	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Chromium	37	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Cobalt	12	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Copper	42	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Lead	92	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Mercury	0.096	0.020	177938	08/17/11	METHOD	EPA 7471A
Molybdenum	ND	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Nickel	37	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	177910	08/16/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	177910	08/16/11	EPA 3050B	EPA 6010B
Vanadium	38	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Zinc	110	1.0	177910	08/16/11	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	230326	Project#:	11-319
Client:	Rockridge Geotechnical	Location:	Ashland Youth Center
Field ID:	COMPOSITE # 9-11	Diln Fac:	1.000
Lab ID:	230326-014	Sampled:	08/16/11
Matrix:	Soil	Received:	08/16/11
Units:	mg/Kg	Analyzed:	08/17/11
Basis:	as received		

Analyte	Result	RL	Batch#	Prepared	Prep	Analysis
Antimony	ND	0.50	177910	08/16/11	EPA 3050B	EPA 6010B
Arsenic	5.1	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Barium	150	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Beryllium	0.39	0.10	177910	08/16/11	EPA 3050B	EPA 6010B
Cadmium	0.42	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Chromium	37	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Cobalt	10	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Copper	29	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Lead	110	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Mercury	0.093	0.020	177938	08/17/11	METHOD	EPA 7471A
Molybdenum	0.45	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Nickel	39	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	177910	08/16/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	177910	08/16/11	EPA 3050B	EPA 6010B
Vanadium	37	0.25	177910	08/16/11	EPA 3050B	EPA 6010B
Zinc	100	1.0	177910	08/16/11	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 3050B
Project#:	11-319	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC604682	Batch#:	177910
Matrix:	Miscell.	Prepared:	08/16/11
Units:	mg/Kg	Analyzed:	08/17/11

Analyte	Result	RL
Antimony	ND	0.50
Arsenic	ND	0.25
Barium	ND	0.25
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.25
Cobalt	ND	0.25
Copper	ND	0.26
Lead	ND	0.25
Molybdenum	ND	0.25
Nickel	ND	0.25
Selenium	ND	0.50
Silver	ND	0.25
Thallium	ND	0.50
Vanadium	ND	0.25
Zinc	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 3050B
Project#:	11-319	Analysis:	EPA 6010B
Matrix:	Miscell.	Batch#:	177910
Units:	mg/Kg	Prepared:	08/16/11
Diln Fac:	1.000	Analyzed:	08/17/11

Type: BS Lab ID: QC604683

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	101.1	101	80-120
Arsenic	50.00	50.86	102	80-120
Barium	100.0	97.56	98	80-120
Beryllium	2.500	2.496	100	80-120
Cadmium	10.00	10.17	102	80-120
Chromium	100.0	97.91	98	80-120
Cobalt	25.00	24.01	96	80-120
Copper	12.50	12.73	102	80-120
Lead	100.0	96.99	97	80-120
Molybdenum	20.00	20.57	103	80-120
Nickel	25.00	24.41	98	80-120
Selenium	50.00	49.18	98	80-120
Silver	10.00	9.755	98	80-120
Thallium	50.00	49.98	100	80-120
Vanadium	25.00	24.61	98	80-120
Zinc	25.00	25.44	102	80-120

Type: BSD Lab ID: QC604684

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	96.55	97	80-120	5	20
Arsenic	50.00	48.72	97	80-120	4	20
Barium	100.0	91.50	92	80-120	6	20
Beryllium	2.500	2.373	95	80-120	5	20
Cadmium	10.00	9.727	97	80-120	4	20
Chromium	100.0	91.73	92	80-120	7	20
Cobalt	25.00	22.53	90	80-120	6	20
Copper	12.50	12.01	96	80-120	6	20
Lead	100.0	92.43	92	80-120	5	20
Molybdenum	20.00	19.66	98	80-120	5	20
Nickel	25.00	22.84	91	80-120	7	20
Selenium	50.00	48.08	96	80-120	2	20
Silver	10.00	9.129	91	80-120	7	20
Thallium	50.00	47.61	95	80-120	5	20
Vanadium	25.00	23.12	92	80-120	6	20
Zinc	25.00	23.69	95	80-120	7	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 3050B
Project#:	11-319	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	177910
MSS Lab ID:	230097-021	Sampled:	08/09/11
Matrix:	Miscell.	Received:	08/09/11
Units:	mg/Kg	Prepared:	08/16/11
Basis:	as received	Analyzed:	08/17/11
Diln Fac:	1.000		

Type: MS Lab ID: QC604685

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<0.1431	92.59	37.23	40	1-120
Arsenic	0.3591	46.30	45.34	97	70-120
Barium	44.65	92.59	117.4	79	39-146
Beryllium	0.3505	2.315	2.421	89	79-120
Cadmium	<0.01440	9.259	8.012	87	70-120
Chromium	152.0	92.59	232.8	87	54-127
Cobalt	24.50	23.15	43.87	84	54-121
Copper	90.59	11.57	107.9	150 NM	37-159
Lead	1.521	92.59	77.07	82	54-124
Molybdenum	<0.05058	18.52	15.89	86	67-120
Nickel	87.87	23.15	112.8	108	37-141
Selenium	<0.1318	46.30	38.78	84	70-120
Silver	<0.06735	9.259	8.943	97	68-120
Thallium	3.826	46.30	40.56	79	65-120
Vanadium	140.5	23.15	157.6	74 NM	47-144
Zinc	64.84	23.15	87.85	99	32-153

Type: MSD Lab ID: QC604686

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	98.04	43.50	44	1-120	10	41
Arsenic	49.02	43.89	89	70-120	9	32
Barium	98.04	136.3	94	39-146	11	53
Beryllium	2.451	2.573	91	79-120	1	21
Cadmium	9.804	8.338	85	70-120	2	37
Chromium	98.04	236.8	87	54-127	0	36
Cobalt	24.51	44.23	81	54-121	2	33
Copper	12.25	108.0	142 NM	37-159	1	32
Lead	98.04	84.85	85	54-124	4	43
Molybdenum	19.61	16.79	86	67-120	0	22
Nickel	24.51	104.1	66	37-141	9	33
Selenium	49.02	49.44	101	70-120	19	22
Silver	9.804	9.410	96	68-120	1	26
Thallium	49.02	42.66	79	65-120	0	29
Vanadium	24.51	170.4	122 NM	47-144	7	30
Zinc	24.51	90.64	105	32-153	2	37

NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	METHOD
Project#:	11-319	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	177938
Lab ID:	QC604792	Prepared:	08/17/11
Matrix:	Soil	Analyzed:	08/17/11
Units:	mg/Kg		

Result	RL
ND	0.020

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	METHOD
Project#:	11-319	Analysis:	EPA 7471A
Analyte:	Mercury	Batch#:	177938
Matrix:	Soil	Prepared:	08/17/11
Units:	mg/Kg	Analyzed:	08/17/11
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC604793	0.2083	0.2290	110	80-120		
BSD	QC604794	0.2083	0.2292	110	80-120	0	28

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	METHOD
Project#:	11-319	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	177938
MSS Lab ID:	230235-002	Sampled:	08/11/11
Matrix:	Soil	Received:	08/12/11
Units:	mg/Kg	Prepared:	08/17/11
Basis:	as received	Analyzed:	08/17/11

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC604795	0.2505	0.2049	0.3790	63	63-133		
MSD	QC604796		0.2049	0.4024	74	63-133	6	39

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 3550B
Project#:	11-319	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	08/16/11
Units:	ug/Kg	Received:	08/16/11
Basis:	as received	Prepared:	08/17/11
Diln Fac:	1.000	Analyzed:	08/17/11
Batch#:	177935		

Field ID: COMPOSITE # 1-4 Lab ID: 230326-012
Type: SAMPLE

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	41	12
Aroclor-1260	110	12

Surrogate	%REC	Limits
TCMX	86	57-133
Decachlorobiphenyl	55	33-120

Field ID: COMPOSITE # 5-8 Lab ID: 230326-013
Type: SAMPLE

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	52	12
Aroclor-1260	110	12

Surrogate	%REC	Limits
TCMX	91	57-133
Decachlorobiphenyl	60	33-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 3550B
Project#:	11-319	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	08/16/11
Units:	ug/Kg	Received:	08/16/11
Basis:	as received	Prepared:	08/17/11
Diln Fac:	1.000	Analyzed:	08/17/11
Batch#:	177935		

Field ID: COMPOSITE # 9-11 Lab ID: 230326-014
Type: SAMPLE

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	33	12
Aroclor-1260	56	12

Surrogate	%REC	Limits
TCMX	98	57-133
Decachlorobiphenyl	68	33-120

Type: BLANK Lab ID: QC604781

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	111	57-133
Decachlorobiphenyl	63	33-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 3550B
Project#:	11-319	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC604782	Batch#:	177935
Matrix:	Soil	Prepared:	08/17/11
Units:	ug/Kg	Analyzed:	08/17/11

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	166.8	184.3	110	64-143
Aroclor-1260	166.8	166.5	100	61-152

Surrogate	%REC	Limits
TCMX	116	57-133
Decachlorobiphenyl	82	33-120

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 3550B
Project#:	11-319	Analysis:	EPA 8082
Field ID:	COMPOSITE # 1-4	Batch#:	177935
MSS Lab ID:	230326-012	Sampled:	08/16/11
Matrix:	Soil	Received:	08/16/11
Units:	ug/Kg	Prepared:	08/17/11
Basis:	as received	Analyzed:	08/17/11
Diln Fac:	1.000		

Type: MS Lab ID: QC604783

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<2.946	166.7	186.1	112	50-156
Aroclor-1260	107.7	166.7	282.5	105	33-150

Surrogate	%REC	Limits
TCMX	95	57-133
Decachlorobiphenyl	50	33-120

Type: MSD Lab ID: QC604784

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	164.7	200.0	121	50-156	8	44
Aroclor-1260	164.7	260.0	92	33-150	8	36

Surrogate	%REC	Limits
TCMX	89	57-133
Decachlorobiphenyl	45	33-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 3550B
Project#:	11-319	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	177851
Units:	mg/Kg	Sampled:	08/16/11
Basis:	as received	Received:	08/16/11

Field ID:	COMPOSITE # 1-4	Prepared:	08/16/11
Type:	SAMPLE	Analyzed:	08/18/11
Lab ID:	230326-012	Cleanup Method:	EPA 3630C
Diln Fac:	5.000		

Analyte	Result	RL
Diesel C10-C24	410 Y	4.2
Motor Oil C24-C36	970	21

Surrogate	%REC	Limits
o-Terphenyl	91	62-120

Field ID:	COMPOSITE # 5-8	Prepared:	08/16/11
Type:	SAMPLE	Analyzed:	08/18/11
Lab ID:	230326-013	Cleanup Method:	EPA 3630C
Diln Fac:	5.000		

Analyte	Result	RL
Diesel C10-C24	370 Y	4.2
Motor Oil C24-C36	760	21

Surrogate	%REC	Limits
o-Terphenyl	108	62-120

Field ID:	COMPOSITE # 9-11	Prepared:	08/16/11
Type:	SAMPLE	Analyzed:	08/18/11
Lab ID:	230326-014	Cleanup Method:	EPA 3630C
Diln Fac:	5.000		

Analyte	Result	RL
Diesel C10-C24	220 Y	4.1
Motor Oil C24-C36	430	21

Surrogate	%REC	Limits
o-Terphenyl	98	62-120

Type:	BLANK	Prepared:	08/15/11
Lab ID:	QC604437	Analyzed:	08/17/11
Diln Fac:	1.000	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	78	62-120

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

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 3550B
Project#:	11-319	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC604438	Batch#:	177851
Matrix:	Soil	Prepared:	08/15/11
Units:	mg/Kg	Analyzed:	08/16/11

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.66	39.03	79	54-138

Surrogate	%REC	Limits
o-Terphenyl	74	62-120

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	230326	Location:	Ashland Youth Center
Client:	Rockridge Geotechnical	Prep:	EPA 3550B
Project#:	11-319	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	177851
MSS Lab ID:	230239-006	Sampled:	08/12/11
Matrix:	Soil	Received:	08/12/11
Units:	mg/Kg	Prepared:	08/15/11
Basis:	as received	Analyzed:	08/16/11
Diln Fac:	2.000		

Type: MS Cleanup Method: EPA 3630C
Lab ID: QC604439

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	159.4	50.32	226.2	133	35-150

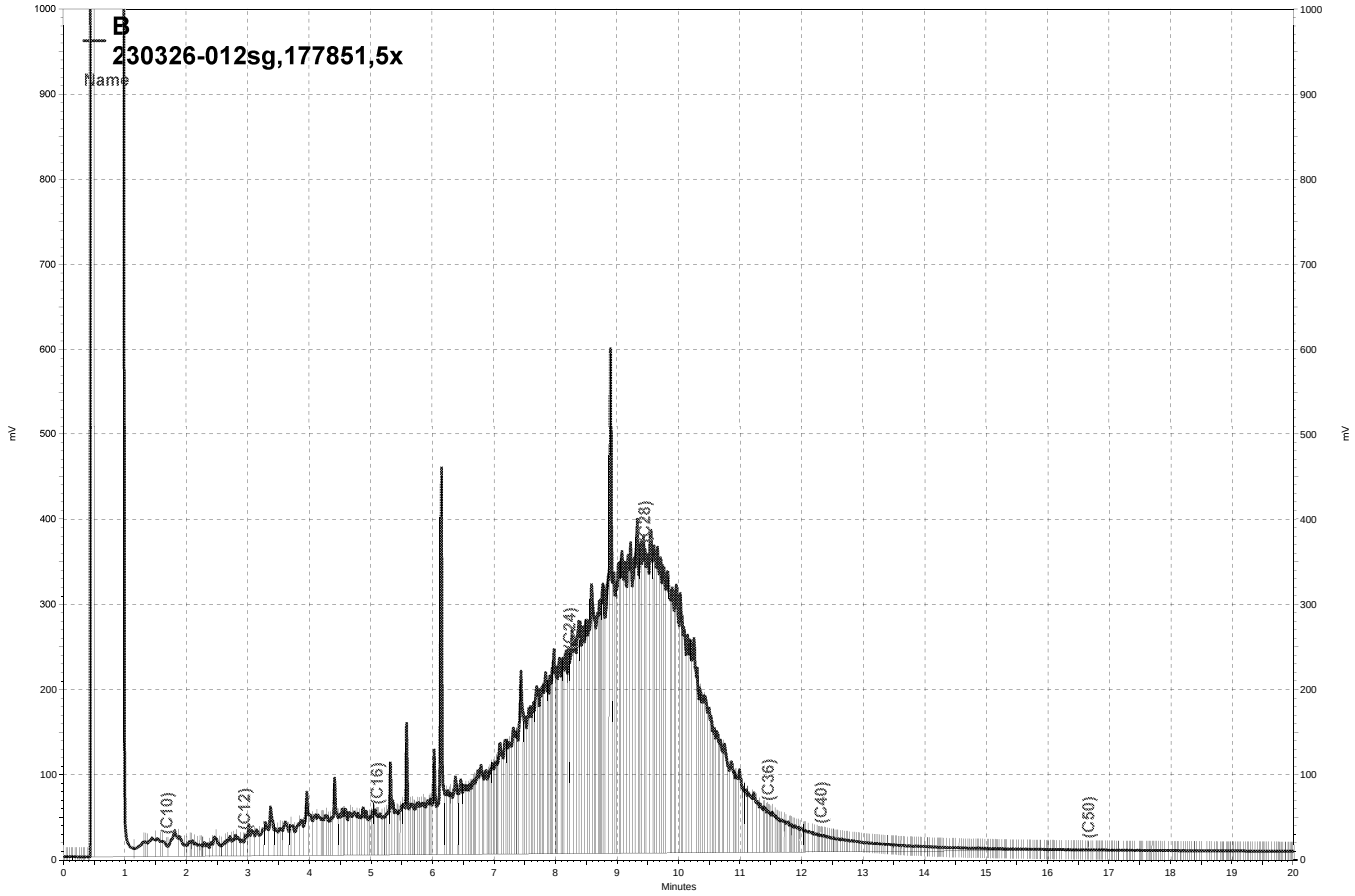
Surrogate	%REC	Limits
o-Terphenyl	55 *	62-120

Type: MSD Cleanup Method: EPA 3630C
Lab ID: QC604440

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	50.25	216.1	113	35-150	5	71

Surrogate	%REC	Limits
o-Terphenyl	73	62-120

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference



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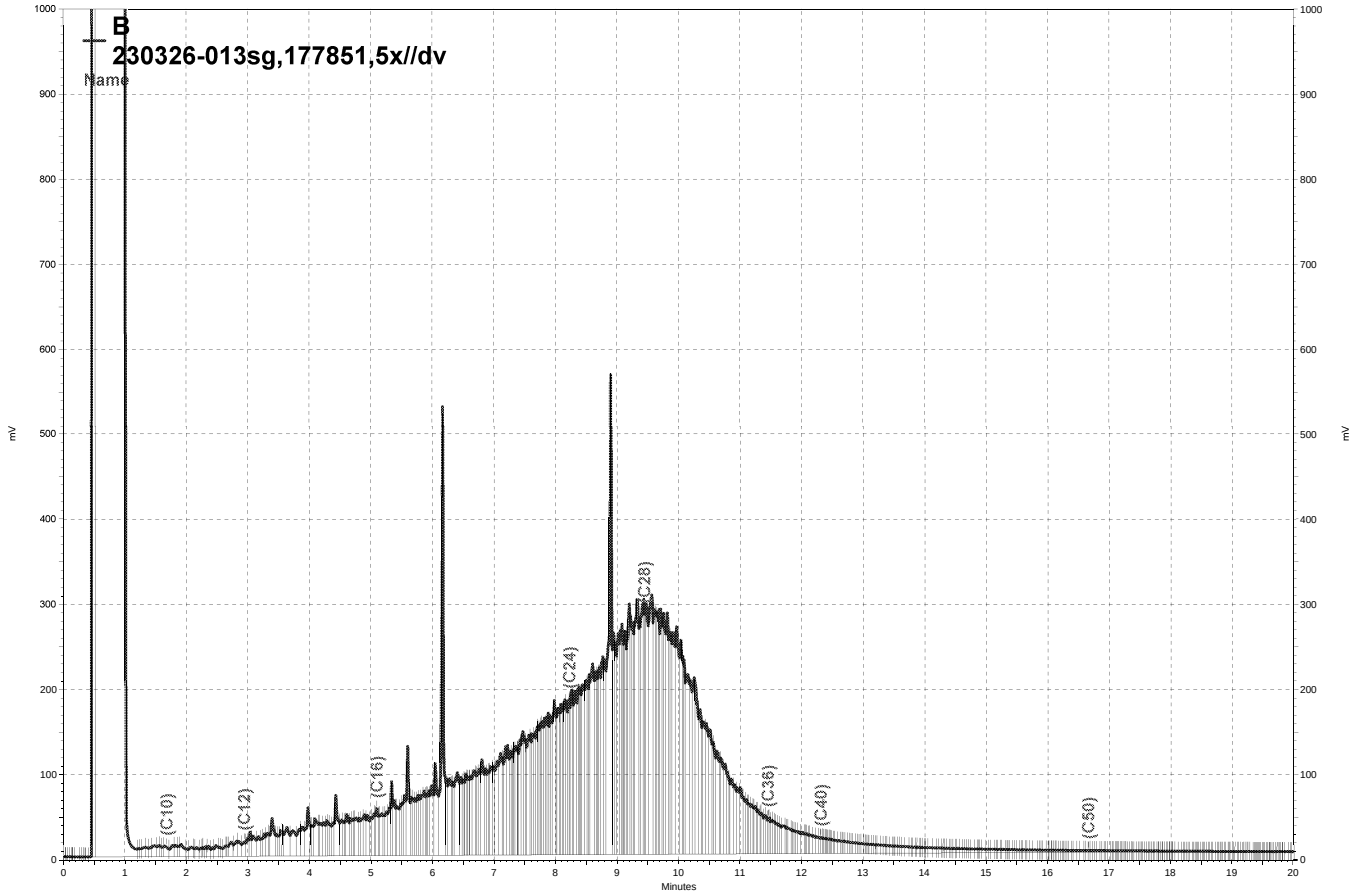

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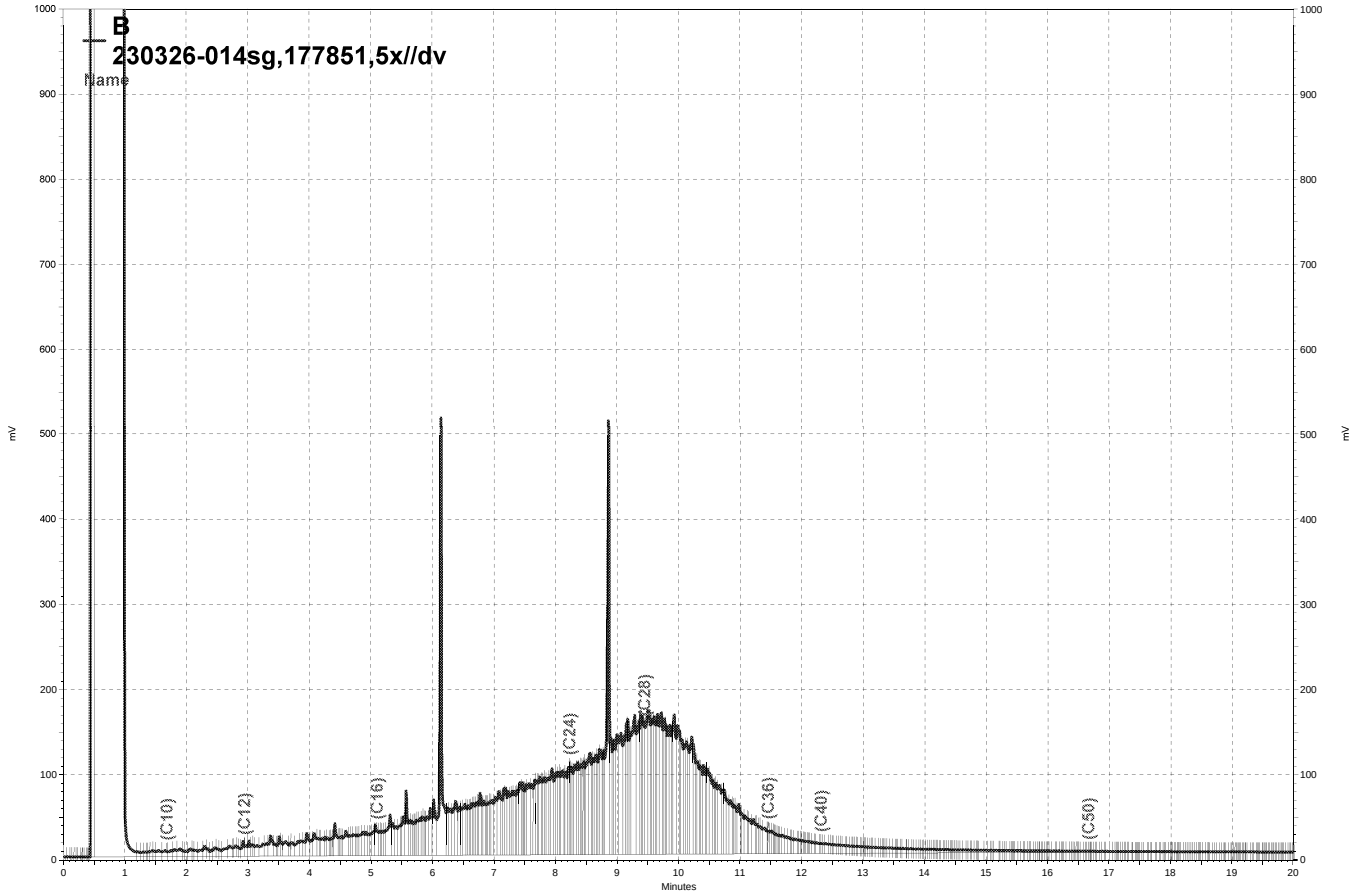

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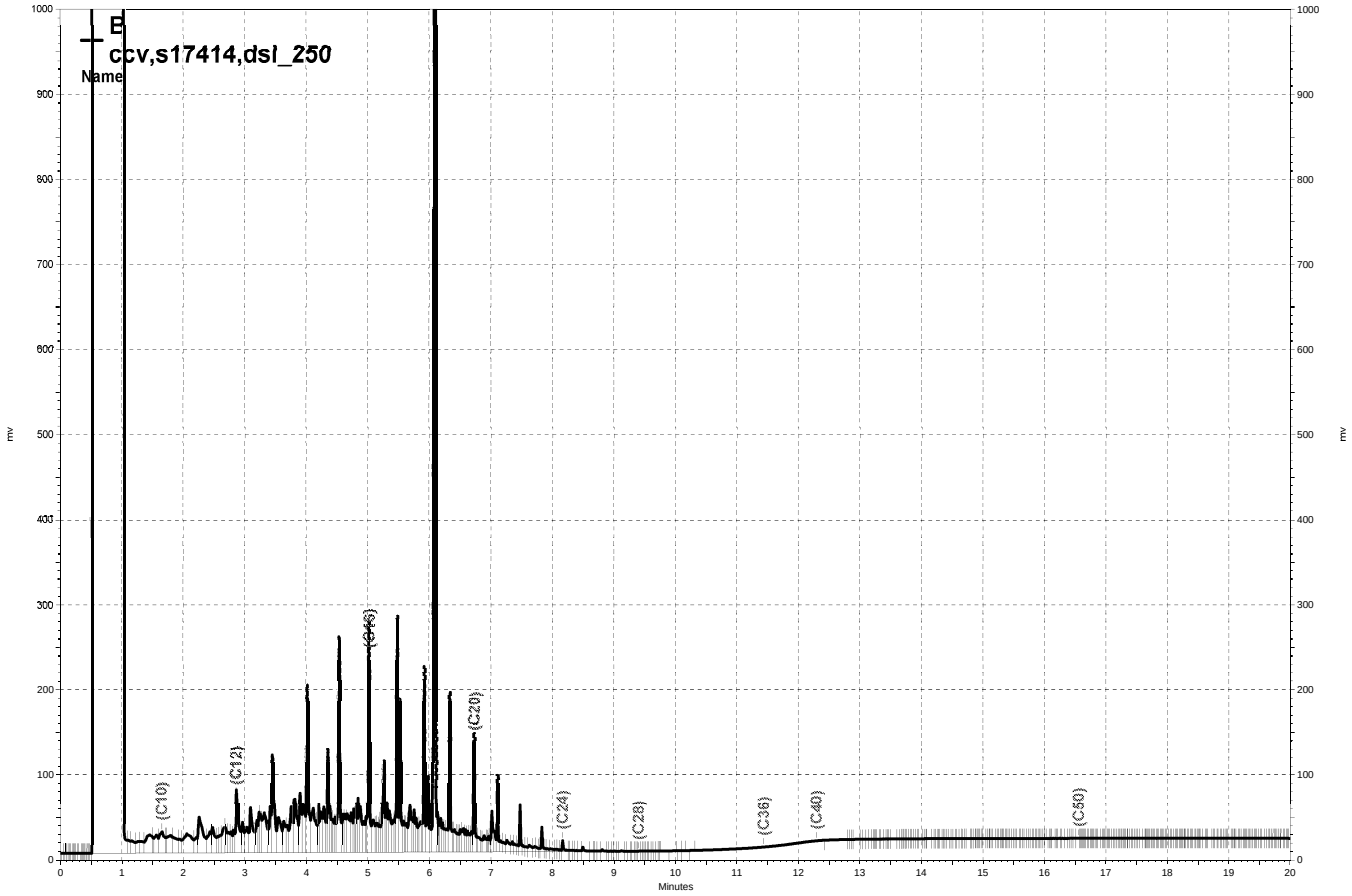

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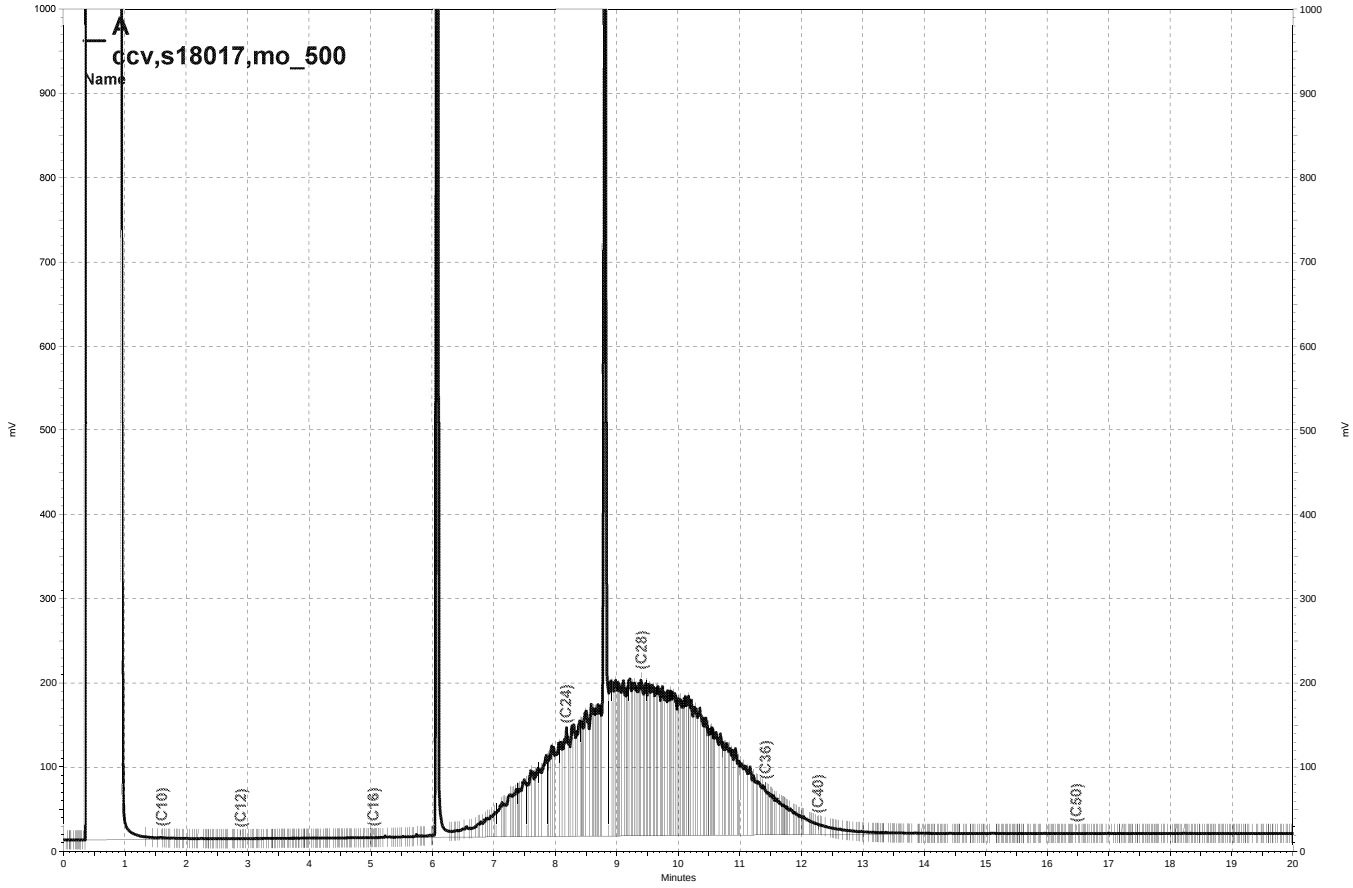

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230326

Rockridge Geotechnical
4399 Piedmont Ave., [redacted]
Oakland, CA 94611
(510) 420-5738
(510) 652-3096

CHAIN OF CUSTODY RECORD

Project No. 11-319 Project Name Ashland Youth Center Date 8/16/11 Page 1 of 1.

Date	Sample Number	Analysis: TPH-G	TPH-d_mo	CAM 17 metals	PCBs		Number of Containers	Sample Information
8/16/11	1						1	Stockpile #1
8/16/11	2						1	
8/16/11	3						1	
8/16/11	4						1	
8/16/11	5						1	
8/16/11	6						1	
8/16/11	7						1	
8/16/11	8						1	
8/16/11	9						1	
8/16/11	10						1	
8/16/11	11						1	
8/16/11	12						1	
		X	X	X	X			Composite #1-4
		X	X	X	X			Composite #5-8
		X	X	X	X			Composite #9-12
				Total Number of Containers			12	

Relinquished by (Sampler)
Logan D. Medeiros
Signature
Printed Name Logan D. Medeiros
Company Rockridge Geotechnical
Date 8/16/11 Time 4:30
Received by:
Pat Gonzalez
Signature
Printed Name
Company
Date Time
Relinquished by
Signature
Printed Name
Company
Date Time
Method of Shipment
Received by (Lab)
Signature
Printed Name
Lab
Date Time
Lab Comments

Remarks: Please email results to Logan D. Medeiros at ldmedeiros@rockridgegeo.com

24 hr. rush – PCB may be late (48)

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 230326 Date Received 8/16/11 Number of coolers 1
Client Rockridge Project Ashland Youth Center

Date Opened 8/16/11 By (print) Vidia Dasai (sign)
Date Logged in J By (print) J (sign) J

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: * Notify PM if temperature exceeds 6°C

   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. Did you check preservatives for all bottles for each sample? YES NO (N/A)
16. Did you document your preservative check? YES NO (N/A)
17. Did you change the hold time in LIMS for unpreserved VOAs? YES NO (N/A)
18. Are bubbles > 6mm absent in VOA samples? YES NO (N/A)
19. Was the client contacted concerning this sample delivery? YES (NO)
   If YES, Who was called? By Date:

COMMENTS