



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 254999
ANALYTICAL REPORT

Suisun Bay Reserve Fleet
2595 Lake Herman Rd.
Benicia, CA 94510

Project : CLIN 0002
Location : Storm water
Level : II

<u>Sample ID</u>	<u>Lab ID</u>
PARKING LOT	254999-001
BRETON	254999-002
COMET	254999-003
BLANCO	254999-004
METEOR	254999-005

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: 04/14/2014

Will S Rice
Project Manager
will.rice@ctberk.com

CASE NARRATIVE

Laboratory number: 254999
Client: Suisun Bay Reserve Fleet
Project: CLIN 0002
Location: Storm water
Request Date: 03/26/14
Samples Received: 03/26/14

This data package contains sample and QC results for five water samples, requested for the above referenced project on 03/26/14. The samples were received cold and intact.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

Metals (EPA 6010B and EPA 7470A):

No analytical problems were encountered.

Conductivity (SM2510B):

No analytical problems were encountered.

Total Oil & Grease (HEM) (EPA 1664A):

Matrix spikes were not performed for this analysis due to insufficient sample volume. No analytical problems were encountered.

Total Suspended Solids (TSS) (SM2540D):

No analytical problems were encountered.

pH (EPA 9040C):

No analytical problems were encountered.

Low-level Mercury (EPA 1631):

Alpha Analytical Dublin in Dublin, CA performed the analysis (not NELAP certified). Please see the Alpha Analytical Dublin case narrative.

COOLER RECEIPT CHECKLIST



Curtis & Tompkins, Ltd.

Login # 254944 Date Received 3/26/14 Number of coolers 1
Client SUISUN BAY RESERVE Project STORMWATER SAMPLES

Date Opened 3/26/14 By (print) TR (sign) Tina Rankin
Date Logged in J By (print) (sign)

- 1. Did cooler come with a shipping slip (airbill, etc) YES NO
2A. Were custody seals present? ... YES (circle) on cooler on samples NO
2B. Were custody seals intact upon arrival? YES NO
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)
7. Temperature documentation: * Notify PM if temperature exceeds 6°C
Type of ice used: Wet Blue/Gel None Temp(°C) 3.5, 3.8
8. Were Method 5035 sampling containers present? YES NO
9. Did all bottles arrive unbroken/unopened? YES NO
10. Are there any missing / extra samples? YES NO
11. Are samples in the appropriate containers for indicated tests? YES NO
12. Are sample labels present, in good condition and complete? YES NO
13. Do the sample labels agree with custody papers? YES NO
14. Was sufficient amount of sample sent for tests requested? YES NO
15. Are the samples appropriately preserved? YES NO N/A
16. Did you check preservatives for all bottles for each sample? YES NO N/A
17. Did you document your preservative check? YES NO N/A
18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO N/A
19. Did you change the hold time in LIMS for preserved terracores? YES NO N/A
20. Are bubbles > 6mm absent in VOA samples? YES NO N/A
21. Was the client contacted concerning this sample delivery? YES NO
If YES, Who was called? By Date:

COMMENTS

Curtis & Tompkins Sample Preservation for 254999

Sample	pH: <2	>9	>12	Other
-001a	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
c	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
d	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
e	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
f	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
-002a	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
c	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
d	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
e	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
f	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
-003a	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
c	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
d	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
e	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
f	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
-004a	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
c	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
d	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
e	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
f	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
-005a	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
c	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
d	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
e	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
f	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Analyst: m
 Date: 3/26

Detections Summary for 254999

Client : Suisun Bay Reserve Fleet
 Project : CLIN 0002
 Location : Storm water

Client Sample ID : PARKING LOT Laboratory Sample ID : 254999-001

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	1,200		52	17	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	1,000		310	100	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Arsenic	6.4		5.0	0.74	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Barium	42		5.0	0.26	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Copper	14		5.0	1.6	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Selenium	18		10	3.2	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Vanadium	7.6		5.0	0.82	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Zinc	94		20	2.6	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Specific Conductance	4,480		1.0		umhos/cm	TOTAL	1.000	SM2510B	METHOD
pH	7.7		1.0		SU	TOTAL	1.000	EPA 9040C	METHOD
Total Suspended Solids	22		5		mg/L	TOTAL	1.000	SM2540D	METHOD

Client Sample ID : BRETON Laboratory Sample ID : 254999-002

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	510		52	17	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	540		310	100	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Barium	110		5.0	0.26	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Copper	21		5.0	1.6	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Zinc	1,200		20	2.6	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Specific Conductance	37		1.0		umhos/cm	TOTAL	1.000	SM2510B	METHOD
pH	6.5		1.0		SU	TOTAL	1.000	EPA 9040C	METHOD

Client Sample ID : COMET Laboratory Sample ID : 254999-003

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	840		52	17	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	830		310	100	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Barium	180		5.0	0.26	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Copper	24		5.0	1.6	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Zinc	1,000		20	2.6	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Specific Conductance	36		1.0		umhos/cm	TOTAL	1.000	SM2510B	METHOD
pH	4.8		1.0		SU	TOTAL	1.000	EPA 9040C	METHOD

Client Sample ID : BLANCO

Laboratory Sample ID :

254999-004

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	570		53	18	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	500		320	100	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Barium	63		5.0	0.26	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Copper	55		5.0	1.6	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Zinc	860		20	2.6	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Specific Conductance	40		1.0		umhos/cm	TOTAL	1.000	SM2510B	METHOD
pH	6.4		1.0		SU	TOTAL	1.000	EPA 9040C	METHOD

Client Sample ID : METEOR

Laboratory Sample ID :

254999-005

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	840		52	17	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	780		310	100	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Barium	490		5.0	0.26	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Copper	25		5.0	1.6	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Zinc	1,000		20	2.6	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Specific Conductance	39		1.0		umhos/cm	TOTAL	1.000	SM2510B	METHOD
pH	5.8		1.0		SU	TOTAL	1.000	EPA 9040C	METHOD

Total Extractable Hydrocarbons			
Lab #:	254999	Location:	Storm water
Client:	Suisun Bay Reserve Fleet	Prep:	EPA 3520C
Project#:	CLIN 0002	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/26/14
Units:	ug/L	Received:	03/26/14
Diln Fac:	1.000	Prepared:	03/28/14
Batch#:	209521		

Field ID: PARKING LOT Lab ID: 254999-001
 Type: SAMPLE Analyzed: 04/01/14

Analyte	Result	RL
Diesel C10-C24	1,200	52
Motor Oil C24-C36	1,000	310

Surrogate	%REC	Limits
o-Terphenyl	112	66-129

Field ID: BRETON Lab ID: 254999-002
 Type: SAMPLE Analyzed: 03/31/14

Analyte	Result	RL
Diesel C10-C24	510	52
Motor Oil C24-C36	540	310

Surrogate	%REC	Limits
o-Terphenyl	124	66-129

Field ID: COMET Lab ID: 254999-003
 Type: SAMPLE Analyzed: 03/31/14

Analyte	Result	RL
Diesel C10-C24	840	52
Motor Oil C24-C36	830	310

Surrogate	%REC	Limits
o-Terphenyl	125	66-129

ND= Not Detected
 RL= Reporting Limit

Total Extractable Hydrocarbons			
Lab #:	254999	Location:	Storm water
Client:	Suisun Bay Reserve Fleet	Prep:	EPA 3520C
Project#:	CLIN 0002	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/26/14
Units:	ug/L	Received:	03/26/14
Diln Fac:	1.000	Prepared:	03/28/14
Batch#:	209521		

Field ID: BLANCO Lab ID: 254999-004
 Type: SAMPLE Analyzed: 03/31/14

Analyte	Result	RL
Diesel C10-C24	570	53
Motor Oil C24-C36	500	320

Surrogate	%REC	Limits
o-Terphenyl	116	66-129

Field ID: METEOR Lab ID: 254999-005
 Type: SAMPLE Analyzed: 03/31/14

Analyte	Result	RL
Diesel C10-C24	840	52
Motor Oil C24-C36	780	310

Surrogate	%REC	Limits
o-Terphenyl	118	66-129

Type: BLANK Analyzed: 03/31/14
 Lab ID: QC733979

Analyte	Result	RL
Diesel C10-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
o-Terphenyl	120	66-129

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	254999	Location:	Storm water
Client:	Suisun Bay Reserve Fleet	Prep:	EPA 3520C
Project#:	CLIN 0002	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	209521
Units:	ug/L	Prepared:	03/28/14
Diln Fac:	1.000	Analyzed:	03/31/14

Type: BS Lab ID: QC733980

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,450	98	61-120

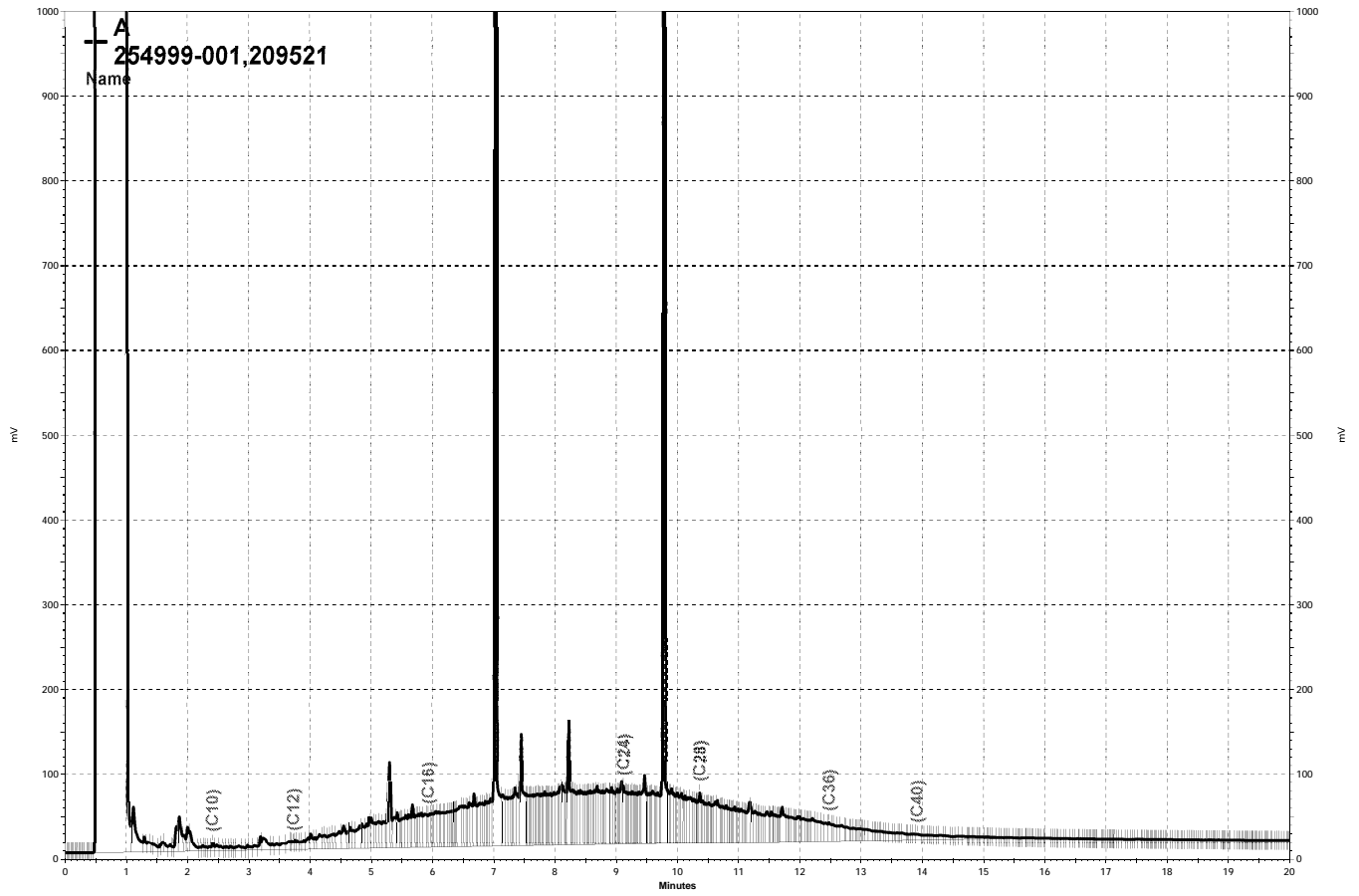
Surrogate	%REC	Limits
o-Terphenyl	124	66-129

Type: BSD Lab ID: QC733981

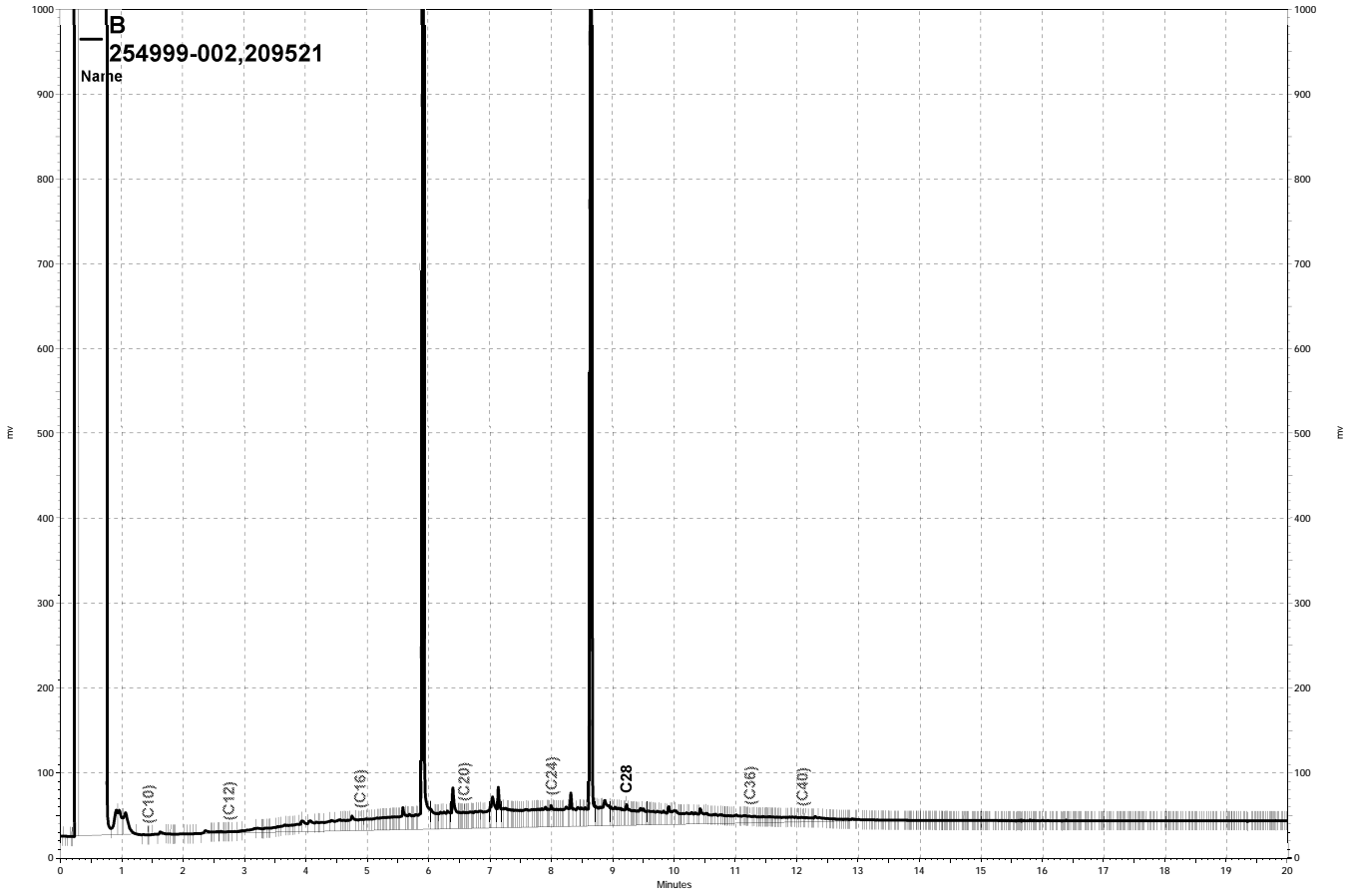
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,394	96	61-120	2	45

Surrogate	%REC	Limits
o-Terphenyl	119	66-129

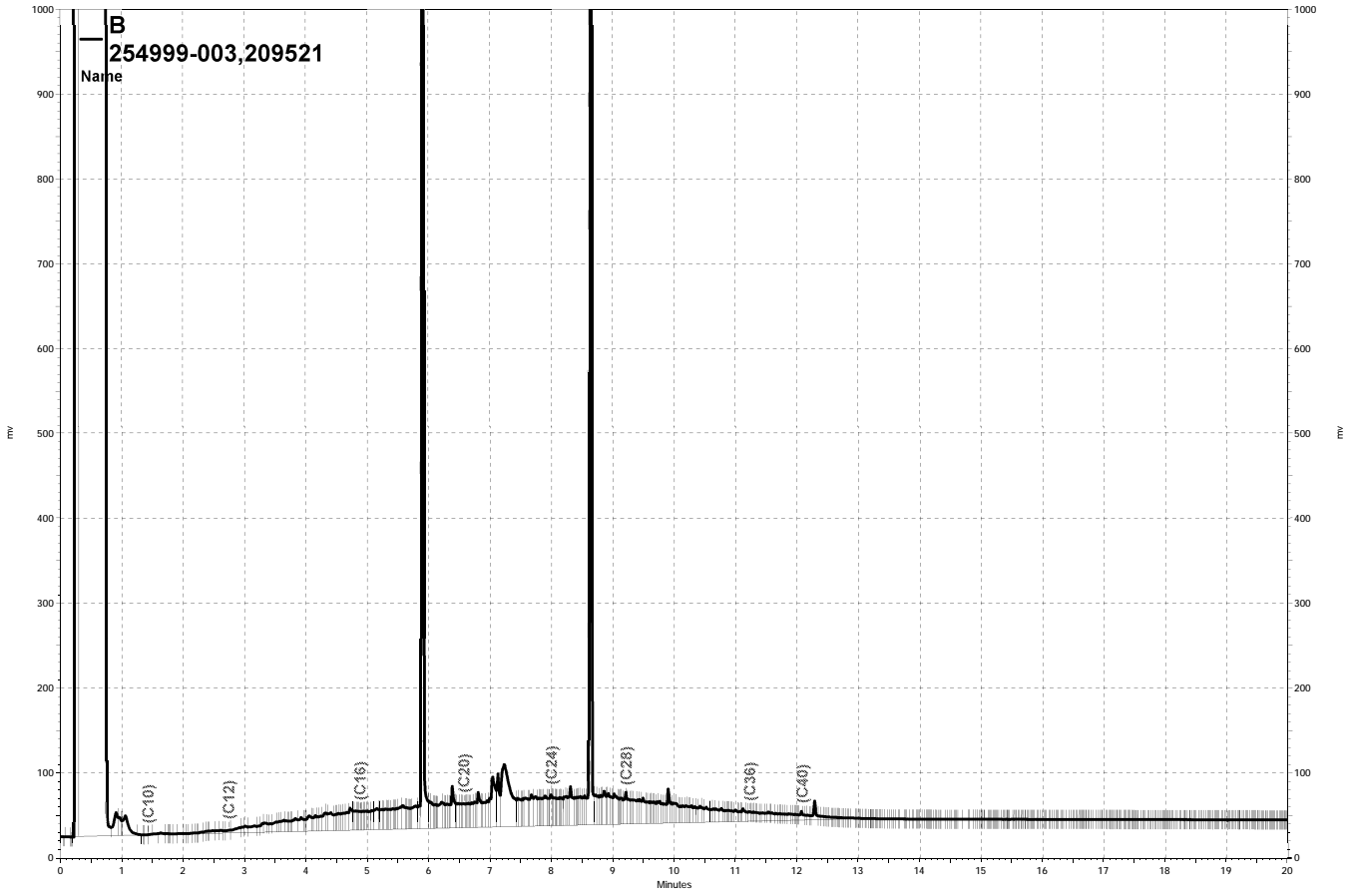
RPD= Relative Percent Difference



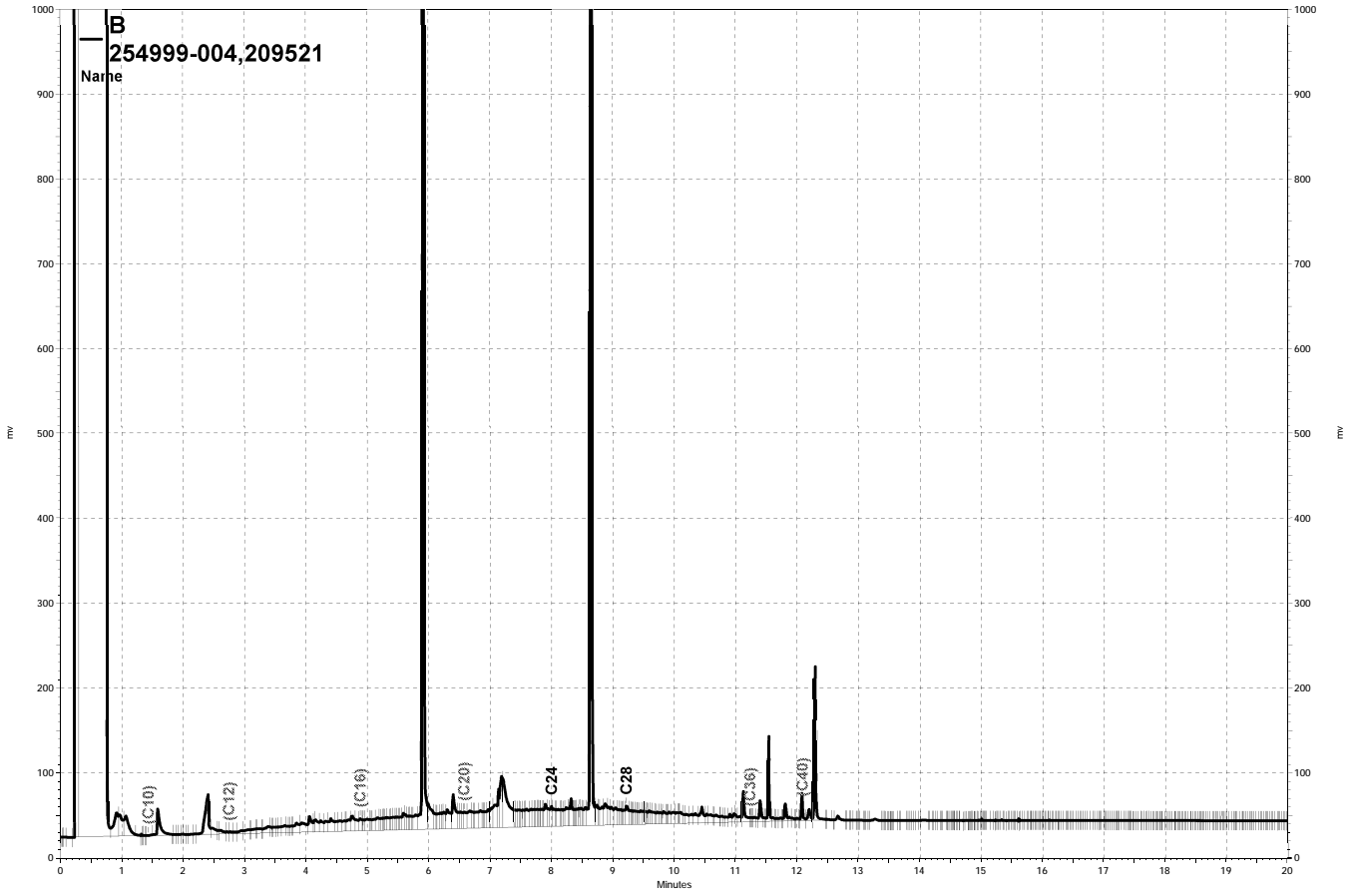
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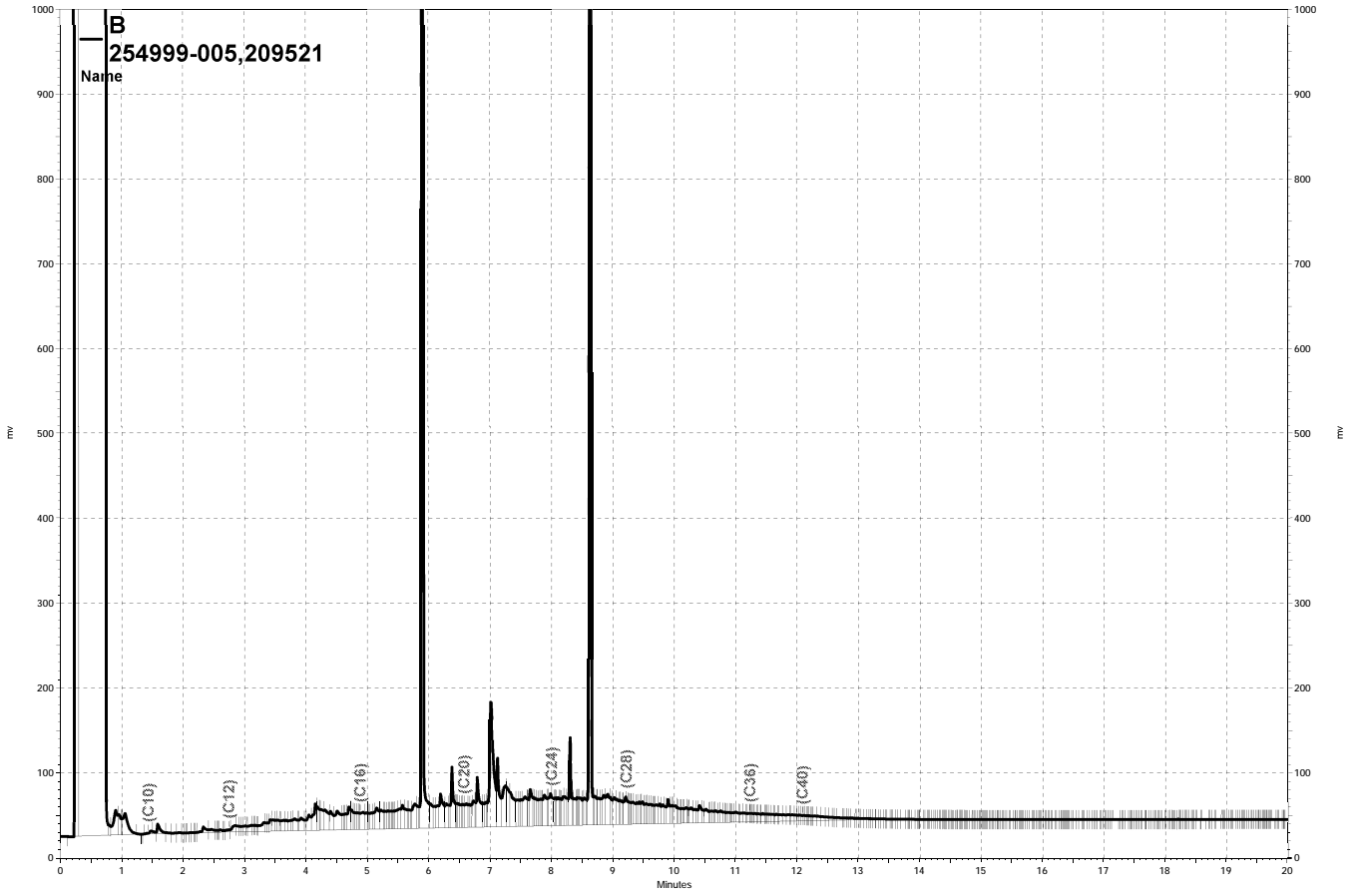
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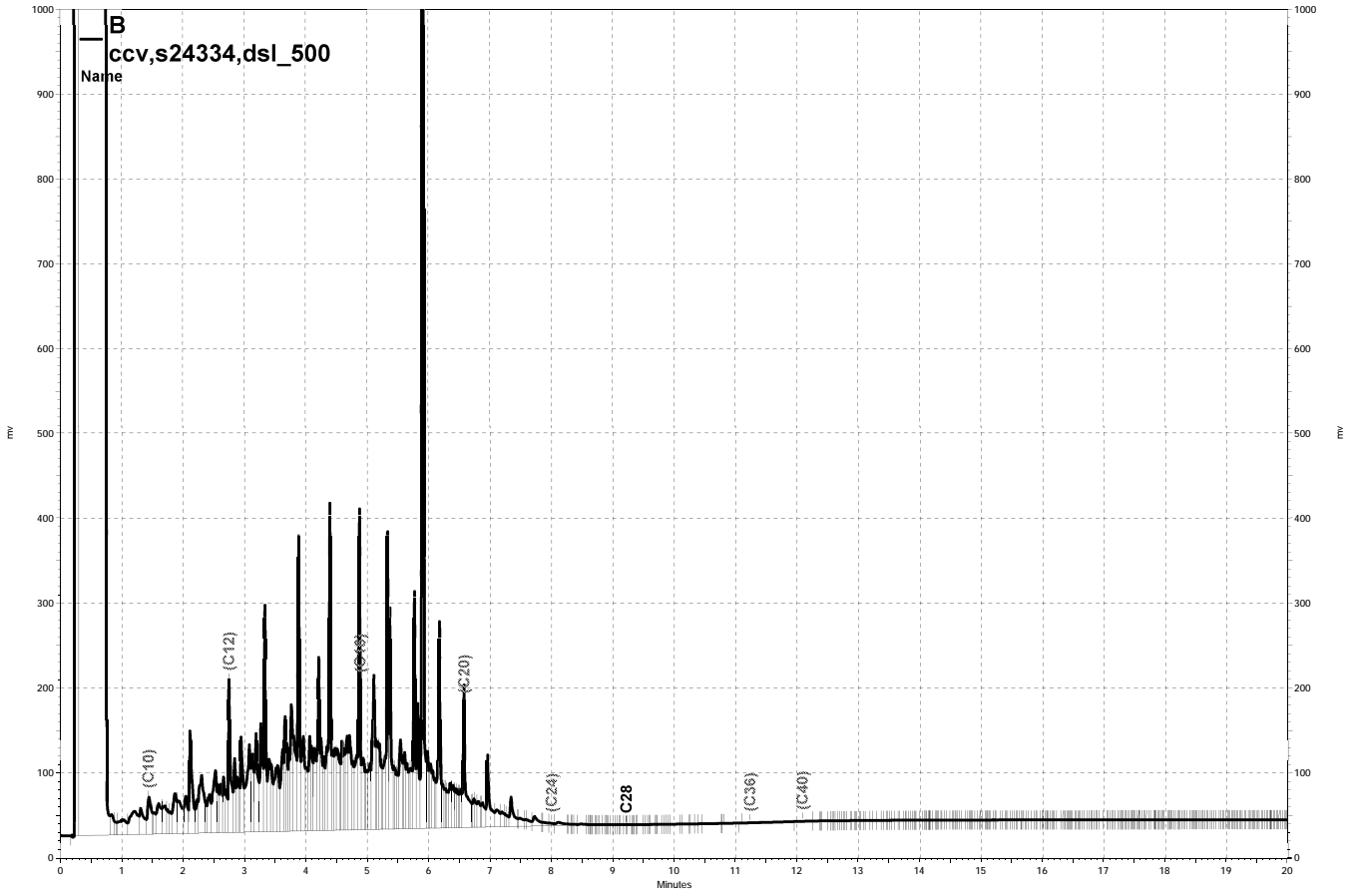
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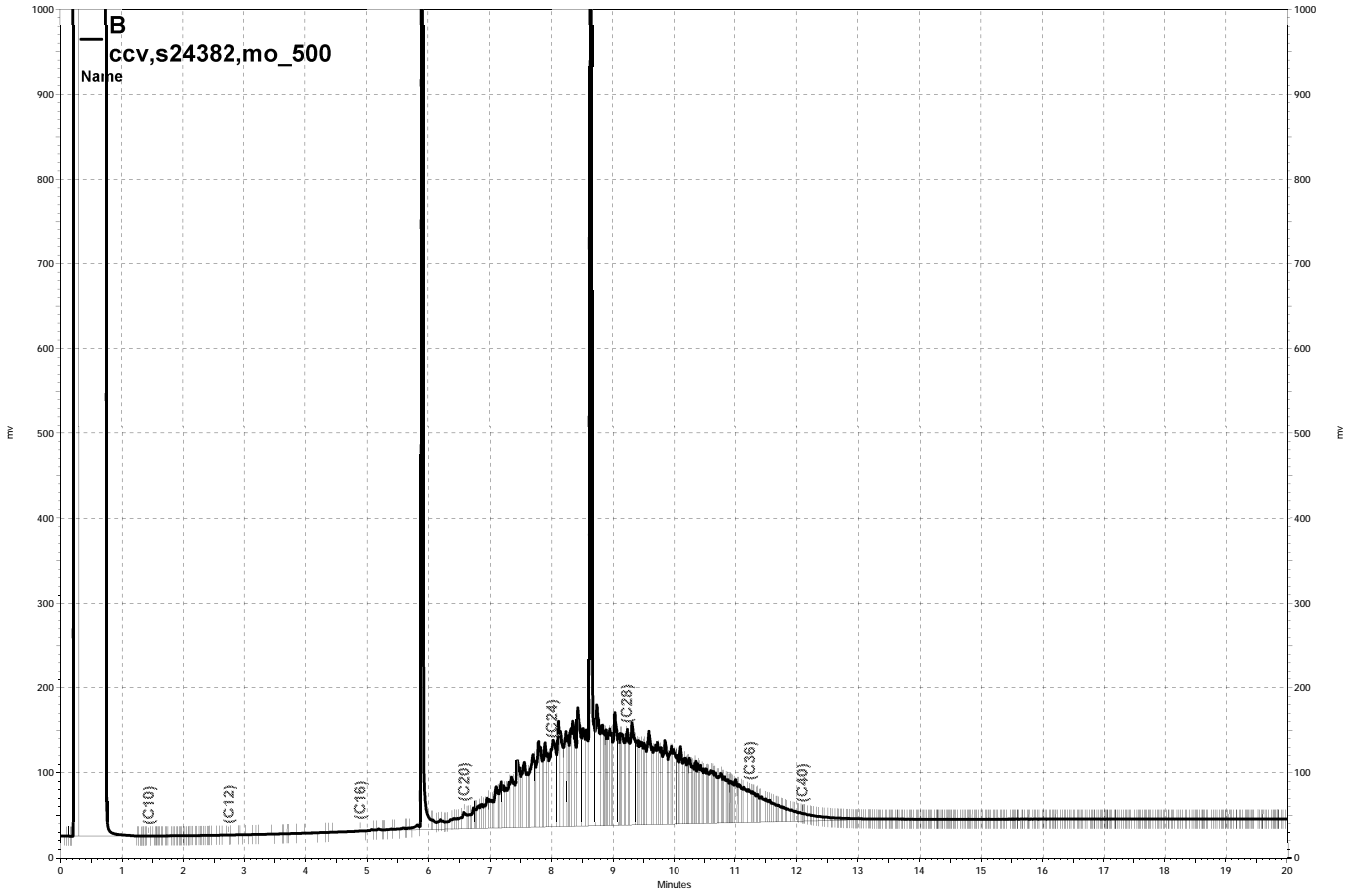
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California Title 22 Metals			
Lab #:	254999	Project#:	CLIN 0002
Client:	Suisun Bay Reserve Fleet	Location:	Storm water
Field ID:	PARKING LOT	Diln Fac:	1.000
Lab ID:	254999-001	Sampled:	03/26/14
Matrix:	Water	Received:	03/26/14
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	10	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Arsenic	6.4	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Barium	42	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Beryllium	ND	2.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Cadmium	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Chromium	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Cobalt	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Copper	14	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Lead	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Mercury	ND	0.20	209651	04/02/14	04/02/14	METHOD	EPA 7470A
Molybdenum	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Nickel	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Selenium	18	10	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Silver	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Thallium	ND	10	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Vanadium	7.6	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Zinc	94	20	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B

ND= Not Detected
 RL= Reporting Limit

California Title 22 Metals			
Lab #:	254999	Project#:	CLIN 0002
Client:	Suisun Bay Reserve Fleet	Location:	Storm water
Field ID:	BRETON	Diln Fac:	1.000
Lab ID:	254999-002	Sampled:	03/26/14
Matrix:	Water	Received:	03/26/14
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	10	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Arsenic	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Barium	110	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Beryllium	ND	2.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Cadmium	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Chromium	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Cobalt	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Copper	21	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Lead	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Mercury	ND	0.20	209651	04/02/14	04/02/14	METHOD	EPA 7470A
Molybdenum	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Nickel	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Selenium	ND	10	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Silver	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Thallium	ND	10	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Vanadium	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Zinc	1,200	20	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B

ND= Not Detected
 RL= Reporting Limit

California Title 22 Metals

Lab #:	254999	Project#:	CLIN 0002
Client:	Suisun Bay Reserve Fleet	Location:	Storm water
Field ID:	COMET	Diln Fac:	1.000
Lab ID:	254999-003	Sampled:	03/26/14
Matrix:	Water	Received:	03/26/14
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	10	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Arsenic	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Barium	180	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Beryllium	ND	2.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Cadmium	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Chromium	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Cobalt	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Copper	24	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Lead	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Mercury	ND	0.20	209651	04/02/14	04/02/14	METHOD	EPA 7470A
Molybdenum	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Nickel	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Selenium	ND	10	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Silver	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Thallium	ND	10	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Vanadium	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Zinc	1,000	20	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B

ND= Not Detected
 RL= Reporting Limit

California Title 22 Metals			
Lab #:	254999	Project#:	CLIN 0002
Client:	Suisun Bay Reserve Fleet	Location:	Storm water
Field ID:	BLANCO	Diln Fac:	1.000
Lab ID:	254999-004	Sampled:	03/26/14
Matrix:	Water	Received:	03/26/14
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	10	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Arsenic	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Barium	63	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Beryllium	ND	2.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Cadmium	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Chromium	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Cobalt	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Copper	55	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Lead	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Mercury	ND	0.20	209651	04/02/14	04/02/14	METHOD	EPA 7470A
Molybdenum	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Nickel	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Selenium	ND	10	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Silver	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Thallium	ND	10	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Vanadium	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Zinc	860	20	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B

ND= Not Detected
 RL= Reporting Limit

California Title 22 Metals			
Lab #:	254999	Project#:	CLIN 0002
Client:	Suisun Bay Reserve Fleet	Location:	Storm water
Field ID:	METEOR	Diln Fac:	1.000
Lab ID:	254999-005	Sampled:	03/26/14
Matrix:	Water	Received:	03/26/14
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	10	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Arsenic	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Barium	490	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Beryllium	ND	2.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Cadmium	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Chromium	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Cobalt	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Copper	25	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Lead	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Mercury	ND	0.20	209651	04/02/14	04/02/14	METHOD	EPA 7470A
Molybdenum	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Nickel	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Selenium	ND	10	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Silver	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Thallium	ND	10	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Vanadium	ND	5.0	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B
Zinc	1,000	20	209560	03/31/14	04/01/14	EPA 3010A	EPA 6010B

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

California Title 22 Metals			
Lab #:	254999	Location:	Storm water
Client:	Suisun Bay Reserve Fleet	Prep:	EPA 3010A
Project#:	CLIN 0002	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC734125	Batch#:	209560
Matrix:	Water	Prepared:	03/31/14
Units:	ug/L	Analyzed:	04/01/14

Analyte	Result	RL
Antimony	ND	10
Arsenic	ND	5.0
Barium	ND	5.0
Beryllium	ND	2.0
Cadmium	ND	5.0
Chromium	ND	5.0
Cobalt	ND	5.0
Copper	ND	5.0
Lead	ND	5.0
Molybdenum	ND	5.0
Nickel	ND	5.0
Selenium	ND	10
Silver	ND	5.0
Thallium	ND	10
Vanadium	ND	5.0
Zinc	ND	20

ND= Not Detected

RL= Reporting Limit

Batch QC Report

California Title 22 Metals			
Lab #:	254999	Location:	Storm water
Client:	Suisun Bay Reserve Fleet	Prep:	EPA 3010A
Project#:	CLIN 0002	Analysis:	EPA 6010B
Matrix:	Water	Batch#:	209560
Units:	ug/L	Prepared:	03/31/14
Diln Fac:	1.000	Analyzed:	04/01/14

Type: BS Lab ID: QC734126

Analyte	Spiked	Result	%REC	Limits
Antimony	500.0	502.0	100	78-120
Arsenic	100.0	108.2	108	80-120
Barium	2,000	2,070	103	80-120
Beryllium	50.00	51.94	104	80-120
Cadmium	50.00	55.46	111	80-120
Chromium	200.0	211.0	106	80-120
Cobalt	500.0	517.6	104	80-120
Copper	250.0	268.7	107	79-120
Lead	100.0	102.1	102	80-120
Molybdenum	400.0	429.9	107	80-120
Nickel	500.0	520.7	104	80-120
Selenium	100.0	114.1	114	80-120
Silver	50.00	56.85	114	80-120
Thallium	100.0	109.5	110	80-120
Vanadium	500.0	531.6	106	80-120
Zinc	500.0	547.8	110	80-120

Type: BSD Lab ID: QC734127

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	474.4	95	78-120	6	20
Arsenic	100.0	103.4	103	80-120	5	20
Barium	2,000	1,952	98	80-120	6	20
Beryllium	50.00	48.91	98	80-120	6	20
Cadmium	50.00	52.96	106	80-120	5	20
Chromium	200.0	201.9	101	80-120	4	20
Cobalt	500.0	491.3	98	80-120	5	20
Copper	250.0	257.0	103	79-120	4	20
Lead	100.0	96.86	97	80-120	5	20
Molybdenum	400.0	407.0	102	80-120	5	20
Nickel	500.0	497.5	99	80-120	5	20
Selenium	100.0	106.2	106	80-120	7	20
Silver	50.00	54.50	109	80-120	4	20
Thallium	100.0	104.9	105	80-120	4	20
Vanadium	500.0	506.3	101	80-120	5	20
Zinc	500.0	517.9	104	80-120	6	20

RPD= Relative Percent Difference

Batch QC Report

California Title 22 Metals			
Lab #:	254999	Location:	Storm water
Client:	Suisun Bay Reserve Fleet	Prep:	EPA 3010A
Project#:	CLIN 0002	Analysis:	EPA 6010B
Field ID:	PARKING LOT	Batch#:	209560
MSS Lab ID:	254999-001	Sampled:	03/26/14
Matrix:	Water	Received:	03/26/14
Units:	ug/L	Prepared:	03/31/14
Diln Fac:	1.000	Analyzed:	04/01/14

Type: MS Lab ID: QC734128

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<2.572	500.0	532.5	106	76-120
Arsenic	6.419	100.0	118.9	112	79-126
Barium	41.66	2,000	1,962	96	74-120
Beryllium	0.5992	50.00	49.87	99	80-122
Cadmium	0.3293	50.00	53.14	106	76-122
Chromium	2.529	200.0	203.9	101	76-120
Cobalt	0.8788	500.0	491.3	98	74-120
Copper	14.47	250.0	293.5	112	74-122
Lead	<0.8472	100.0	95.50	95	71-120
Molybdenum	3.491	400.0	409.8	102	78-120
Nickel	2.816	500.0	496.4	99	73-120
Selenium	17.60	100.0	128.1	110	71-127
Silver	2.754	50.00	58.93	112	58-128
Thallium	<2.337	100.0	97.10	97	71-120
Vanadium	7.632	500.0	522.1	103	80-120
Zinc	93.89	500.0	628.8	107	74-123

Type: MSD Lab ID: QC734129

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	532.4	106	76-120	0	20
Arsenic	100.0	120.3	114	79-126	1	20
Barium	2,000	1,962	96	74-120	0	25
Beryllium	50.00	50.42	100	80-122	1	20
Cadmium	50.00	53.25	106	76-122	0	20
Chromium	200.0	201.6	100	76-120	1	20
Cobalt	500.0	492.6	98	74-120	0	20
Copper	250.0	294.3	112	74-122	0	21
Lead	100.0	95.43	95	71-120	0	20
Molybdenum	400.0	408.4	101	78-120	0	20
Nickel	500.0	495.9	99	73-120	0	20
Selenium	100.0	129.4	112	71-127	1	35
Silver	50.00	58.24	111	58-128	1	22
Thallium	100.0	97.03	97	71-120	0	20
Vanadium	500.0	513.9	101	80-120	2	20
Zinc	500.0	633.5	108	74-123	1	20

RPD= Relative Percent Difference

Batch QC Report

California Title 22 Metals			
Lab #:	254999	Location:	Storm water
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	CLIN 0002	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	209651
Lab ID:	QC734478	Prepared:	04/02/14
Matrix:	Water	Analyzed:	04/02/14
Units:	ug/L		

Result	RL
ND	0.20

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

California Title 22 Metals			
Lab #:	254999	Location:	Storm water
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	CLIN 0002	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	LCS	Batch#:	209651
Lab ID:	QC734479	Prepared:	04/02/14
Matrix:	Water	Analyzed:	04/02/14
Units:	ug/L		

Spiked	Result	%REC	Limits
2.500	2.291	92	80-120

Batch QC Report

California Title 22 Metals			
Lab #:	254999	Location:	Storm water
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	CLIN 0002	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	209651
Field ID:	ZZZZZZZZZZ	Sampled:	03/26/14
MSS Lab ID:	254979-001	Received:	03/26/14
Matrix:	Water	Prepared:	04/02/14
Units:	ug/L	Analyzed:	04/02/14
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC734480	<0.02000	2.500	2.294	92	57-127		
MSD	QC734481		2.500	2.213	89	57-127	4	42

RPD= Relative Percent Difference

Total Oil & Grease (HEM)			
Lab #:	254999	Location:	Storm water
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	CLIN 0002	Analysis:	EPA 1664A
Analyte:	Oil & Grease (HEM)	Sampled:	03/26/14
Matrix:	Water	Received:	03/26/14
Units:	mg/L	Analyzed:	03/28/14
Batch#:	209527		

Field ID	Type	Lab ID	Result	RL	Diln Fac
PARKING LOT	SAMPLE	254999-001	ND	5.00	1.000
BRETON	SAMPLE	254999-002	ND	4.80	0.9600
COMET	SAMPLE	254999-003	ND	4.75	0.9500
BLANCO	SAMPLE	254999-004	ND	5.00	1.000
METEOR	SAMPLE	254999-005	ND	4.75	0.9500
	BLANK	QC734000	ND	5.00	1.000

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Total Oil & Grease (HEM)			
Lab #:	254999	Location:	Storm water
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	CLIN 0002	Analysis:	EPA 1664A
Analyte:	Oil & Grease (HEM)	Diln Fac:	1.000
Matrix:	Water	Batch#:	209527
Units:	mg/L	Analyzed:	03/28/14

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC734001	40.00	36.40	91	78-114		
BSD	QC734002	40.00	37.90	95	78-114	4	18

RPD= Relative Percent Difference

Conductivity			
Lab #:	254999	Location:	Storm water
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	CLIN 0002	Analysis:	SM2510B
Analyte:	Specific Conductance	Batch#:	209626
Matrix:	Water	Received:	03/26/14
Units:	umhos/cm	Analyzed:	04/01/14 18:05
Diln Fac:	1.000		

Field ID	Type	Lab ID	Result	RL	Sampled
PARKING LOT	SAMPLE	254999-001	4,480	1.0	03/26/14 08:00
BRETON	SAMPLE	254999-002	37	1.0	03/26/14 08:03
COMET	SAMPLE	254999-003	36	1.0	03/26/14 08:10
BLANCO	SAMPLE	254999-004	40	1.0	03/26/14 08:15
METEOR	SAMPLE	254999-005	39	1.0	03/26/14 08:20
	BLANK	QC734369	ND	1.0	

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Conductivity			
Lab #:	254999	Location:	Storm water
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	CLIN 0002	Analysis:	SM2510B
Analyte:	Specific Conductance	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	209626
MSS Lab ID:	255148-001	Sampled:	03/31/14 13:30
Matrix:	Water	Received:	03/31/14
Units:	umhos/cm	Analyzed:	04/01/14 18:05

Type	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	RPD	Lim
LCS	QC734370		1,000	983.0		98	90-110		
SDUP	QC734371	43.50		43.40	1.000			0	20

RL= Reporting Limit

RPD= Relative Percent Difference

pH			
Lab #:	254999	Location:	Storm water
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	CLIN 0002	Analysis:	EPA 9040C
Analyte:	pH	Batch#:	209416
Matrix:	Water	Received:	03/26/14
Units:	SU	Analyzed:	03/26/14 18:30
Diln Fac:	1.000		

Field ID	Lab ID	Result	RL	Sampled
PARKING LOT	254999-001	7.7	1.0	03/26/14 08:00
BRETON	254999-002	6.5	1.0	03/26/14 08:03
COMET	254999-003	4.8	1.0	03/26/14 08:10
BLANCO	254999-004	6.4	1.0	03/26/14 08:15
METEOR	254999-005	5.8	1.0	03/26/14 08:20

RL= Reporting Limit

Batch QC Report

pH			
Lab #:	254999	Location:	Storm water
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	CLIN 0002	Analysis:	EPA 9040C
Analyte:	pH	Units:	SU
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	SDUP	Batch#:	209416
MSS Lab ID:	254981-002	Sampled:	03/26/14 10:00
Lab ID:	QC733586	Received:	03/26/14
Matrix:	Water	Analyzed:	03/26/14 15:10

MSS Result	Result	RL	RPD	Lim
6.490	6.510	1.000	0	20

RL= Reporting Limit

RPD= Relative Percent Difference

Total Suspended Solids (TSS)			
Lab #:	254999	Location:	Storm water
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	CLIN 0002	Analysis:	SM2540D
Analyte:	Total Suspended Solids	Sampled:	03/26/14
Matrix:	Water	Received:	03/26/14
Units:	mg/L	Prepared:	04/01/14
Diln Fac:	1.000	Analyzed:	04/02/14
Batch#:	209624		

Field ID	Type	Lab ID	Result	RL
PARKING LOT	SAMPLE	254999-001	22	5
BRETON	SAMPLE	254999-002	ND	5
COMET	SAMPLE	254999-003	ND	5
BLANCO	SAMPLE	254999-004	ND	5
METEOR	SAMPLE	254999-005	ND	5
	BLANK	QC734361	ND	5

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Total Suspended Solids (TSS)			
Lab #:	254999	Location:	Storm water
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	CLIN 0002	Analysis:	SM2540D
Analyte:	Total Suspended Solids	Batch#:	209624
Field ID:	ZZZZZZZZZZ	Sampled:	03/31/14
MSS Lab ID:	255137-001	Received:	03/31/14
Matrix:	Water	Prepared:	04/01/14
Units:	mg/L	Analyzed:	04/02/14
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC734362		50.00	42.00	84	80-120		
BSD	QC734363		50.00	43.00	86	80-120	2	5
MS	QC734364	13.00	50.00	55.00	84	52-132		
MSD	QC734365		50.00	56.00	86	52-132	2	5

RPD= Relative Percent Difference

Laboratory Job Number 254999

Subcontracted Products

Alpha Analytical Dublin



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

14 April 2014

Curtis & Tompkins, LTD.

Attn: Will Rice

2323 Fifth Street

Berkeley, CA 94710

RE: Stormwater Sampling

Work Order: 14C1909

Enclosed are the results of analyses for samples received by the laboratory on 03/27/14 21:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



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e-mail: clientservices@alpha-labs.com

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CHEMICAL EXAMINATION REPORT

Page 1 of 4

Curtis & Tompkins, LTD.
2323 Fifth Street
Berkeley, CA 94710
Attn: Will Rice

Report Date: 04/14/14 10:13
Project No: 254999
Project ID: Stormwater Sampling

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
14C1909	03/27/2014 21:40	RP C&T	254999

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Parking Lot	14C1909-01	Water	03/26/14 08:00	03/27/14 21:40
Breton	14C1909-02	Water	03/26/14 08:03	03/27/14 21:40
Comet	14C1909-03	Water	03/26/14 08:10	03/27/14 21:40
Blanco	14C1909-04	Water	03/26/14 08:15	03/27/14 21:40
Meteor	14C1909-05	Water	03/26/14 08:20	03/27/14 21:40

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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CHEMICAL EXAMINATION REPORT

Page 2 of 4

Curtis & Tompkins, LTD.
2323 Fifth Street
Berkeley, CA 94710
Attn: Will Rice

Report Date: 04/14/14 10:13
Project No: 254999
Project ID: Stormwater Sampling

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
14C1909	03/27/2014 21:40	RP C&T	254999

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Parking Lot (14C1909-01)			Sample Type: Water			Sampled: 03/26/14 08:00		
Metals by APHA/EPA Methods								
Mercury	EPA 1631E	AD40155	04/02/14 16:00	04/03/14 13:36	1	11.8 ng/l	0.500	
Breton (14C1909-02)			Sample Type: Water			Sampled: 03/26/14 08:03		
Metals by APHA/EPA Methods								
Mercury	EPA 1631E	AD40155	04/02/14 16:00	04/03/14 13:44	1	3.52 ng/l	0.500	
Comet (14C1909-03)			Sample Type: Water			Sampled: 03/26/14 08:10		
Metals by APHA/EPA Methods								
Mercury	EPA 1631E	AD40155	04/02/14 16:00	04/03/14 13:52	1	4.49 ng/l	0.500	
Blanco (14C1909-04)			Sample Type: Water			Sampled: 03/26/14 08:15		
Metals by APHA/EPA Methods								
Mercury	EPA 1631E	AD40155	04/02/14 16:00	04/03/14 14:00	1	4.18 ng/l	0.500	
Meteor (14C1909-05)			Sample Type: Water			Sampled: 03/26/14 08:20		
Metals by APHA/EPA Methods								
Mercury	EPA 1631E	AD40155	04/02/14 16:00	04/03/14 14:08	1	4.55 ng/l	0.500	

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CHEMICAL EXAMINATION REPORT

Page 3 of 4

Curtis & Tompkins, LTD.
 2323 Fifth Street
 Berkeley, CA 94710
 Attn: Will Rice

Report Date: 04/14/14 10:13
 Project No: 254999
 Project ID: Stormwater Sampling

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
14C1909	03/27/2014 21:40	RP C&T	254999

Metals by APHA/EPA Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AD40155 - EPA 1631										
Blank (AD40155-BLK1)				Prepared: 04/02/14 Analyzed: 04/03/14						
Mercury	ND	0.500	ng/l							
LCS (AD40155-BS1)				Prepared: 04/02/14 Analyzed: 04/03/14						
Mercury	4.66	0.500	ng/l	5.00		93.2	77-123			
Matrix Spike (AD40155-MS1)				Source: 14C1848-01 Prepared: 04/02/14 Analyzed: 04/03/14						
Mercury	27.3	0.500	ng/l	25.0	3.14	96.7	71-125			
Matrix Spike Dup (AD40155-MSD1)				Source: 14C1848-01 Prepared: 04/02/14 Analyzed: 04/03/14						
Mercury	25.8	0.500	ng/l	25.0	3.14	90.7	71-125	5.61	24	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267
Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

CHEMICAL EXAMINATION REPORT

Page 4 of 4

Curtis & Tompkins, LTD.
2323 Fifth Street
Berkeley, CA 94710
Attn: Will Rice

Report Date: 04/14/14 10:13
Project No: 254999
Project ID: Stormwater Sampling

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
14C1909	03/27/2014 21:40	RP C&T	254999

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
PQL Practical Quantitation Limit

14C1909

Curtis & Tompkins, Ltd.
 Analytical Laboratories, Since 1878
 2323 Fifth Street
 Berkeley, CA 94710
 (510) 486-0900
 (510) 486-0532

Project Number: 254999
 Site: Storm water

Tompkins

Subcontract Laboratory:
 Alpha Analytical Dublin
 6398 Dougherty Rd. #35
 Dublin, CA 94568
 (925) 828-6226
 ATTN: Robbie Phillips

Results due: Report Level: II

Please send report to: Will S Rice (will.rice@ctberk.com)
 *** Please report using Sample ID rather than C&T Lab #.

Sample ID	Sampled	Matrix	Analysis	C&T Lab #	Comments
PARKING LOT	03/26 08:00	Water	1631	254999-001	
BRETON	03/26 08:03	Water	1631	254999-002	
CONST	03/26 08:10	Water	1631	254999-003	
BLANCO	03/26 08:15	Water	1631	254999-004	
MEYBOR	03/26 08:20	Water	1631	254999-005	

Notes:	Relinquished By:	Received By:
	<i>[Signature]</i> BSC	<i>[Signature]</i>
	Date/Time: 3/27/14 1610	Date/Time: 3-27-14 1610
	<i>[Signature]</i>	<i>[Signature]</i>
	Date/Time: 3/27/14 1640	Date/Time: 3/27/14 1640

Signature on this form constitutes a firm Purchase Order for the services requested above.