



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 271220
ANALYTICAL REPORT

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

Project : CLIN 0002
Location : SWPPP
Level : II

<u>Sample ID</u>	<u>Lab ID</u>
CAPE BLANCO	271220-001
CAPE BRETON	271220-002
CAPE BORDA	271220-003
PARKING LOT	271220-004

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: 
Mikelle Chong
Project Manager
mikelle.chong@ctberk.com

Date: 11/19/2015

CA ELAP# 2896, NELAP# 4044-001

CASE NARRATIVE

Laboratory number: 271220
Client: Suisun Bay Reserve Fleet
Project: CLIN 0002
Location: SWPPP
Request Date: 11/02/15
Samples Received: 11/02/15

This data package contains sample and QC results for four water samples, requested for the above referenced project on 11/02/15. The samples were received on ice and intact, directly from the field.

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

CHAIN OF CUSTODY



2323 Fifth Street
Berkeley, CA 94710

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Page _____ of _____
Chain of Custody # _____

C&T LOGIN # 271220

Project No: DTMA94P201211
Project Name: SWPPP
Project P. O. No.:
Report Level: I II III IV
Turnaround Time: RUSH Standard
Sampler: Preservation Team
Report To: Erick Lawler
Company: SBPF
Telephone: 7077450487
Email: ERICK.LAWLER@cdot.gov

ANALYTICAL REQUEST	

Lab No.	Sample ID.	SAMPLING		MATRIX		# of Containers	CHEMICAL PRESERVATIVE														
		Date Collected	Time Collected	Water	Solid		HCl	H2SO4	HNO3	NaOH	None										
1	Cape Blanco	11-2-15	0800			6	1														
1	CAPE BRETON	11/2/15	0815			6	1														
1	CAPE SOLDA	11/2/15	0825			6	1														
1	PARKING LOT	11/2/15	0810			6	1														

Notes:

SAMPLE RECEIPT
 Intact
 Cold
 On Ice
 Ambient

RELINQUISHED BY: Erick Lawler DATE: 11/2/15 TIME: 1230
 RECEIVED BY: [Signature] DATE: 11/2/15 TIME: 1824
 [Signature] DATE: 11/2/15 TIME: 1824

1
2
3
4

COOLER RECEIPT CHECKLIST



Curtis & Tompkins, Ltd.

Login # 271220 Date Received 11/2/15 Number of coolers 5
Client SBRF Project SWPPP

Date Opened 11/2 By (print) CN (sign) [Signature]
Date Logged in [Signature] By (print) BL (sign) [Signature]

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) 1.5, 1.1, 4.0, 0.5, 1.5

Temperature blank(s) included? Thermometer IR Gun

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 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

Blank lines for handwritten comments.

Curtis & Tompkins Sample Preservation for 271220

Sample	pH: <2	>9	>12	Other
-001a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
b	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
b	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
b	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
b	<input 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: CN

Date: 10/2/15

Detections Summary for 271220

Results for any subcontracted analyses are not included in this summary.

Client : Suisun Bay Reserve Fleet
 Project : CLIN 0002
 Location : SWPPP

Client Sample ID : CAPE BLANCO Laboratory Sample ID : 271220-001

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	1,100	Y	49	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	1,100		290	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Barium	260		5.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Copper	140		5.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Lead	29		5.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Nickel	7.2		5.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Zinc	1,600		20	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Specific Conductance	71		1.0	umhos/cm	TOTAL	1.000	SM2510B	METHOD
pH	6.1		1.0	SU	TOTAL	1.000	EPA 9040C	METHOD
Total Suspended Solids	13		5	mg/L	TOTAL	1.000	SM2540D	METHOD

Client Sample ID : CAPE BRETON Laboratory Sample ID : 271220-002

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	970	Y	50	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	1,300		300	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Barium	240		5.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Chromium	5.1		5.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Copper	68		5.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Lead	30		5.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Nickel	6.0		5.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Zinc	2,200		20	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Specific Conductance	56		1.0	umhos/cm	TOTAL	1.000	SM2510B	METHOD
pH	6.1		1.0	SU	TOTAL	1.000	EPA 9040C	METHOD
Total Suspended Solids	49		5	mg/L	TOTAL	1.000	SM2540D	METHOD

Client Sample ID : CAPE BORDA Laboratory Sample ID : 271220-003

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	1,500	Y	52	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	1,200		310	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Barium	370		5.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Copper	60		5.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Nickel	9.5		5.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Zinc	2,200		20	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Specific Conductance	91		1.0	umhos/cm	TOTAL	1.000	SM2510B	METHOD
pH	6.1		1.0	SU	TOTAL	1.000	EPA 9040C	METHOD
Total Suspended Solids	5		5	mg/L	TOTAL	1.000	SM2540D	METHOD

Client Sample ID : PARKING LOT

Laboratory Sample ID :

271220-004

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	1,200	Y	51	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	1,200		310	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Barium	40		5.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Copper	45		5.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Nickel	5.3		5.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Vanadium	12		5.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Zinc	120		20	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Specific Conductance	3,070		1.0	umhos/cm	TOTAL	1.000	SM2510B	METHOD
pH	7.5		1.0	SU	TOTAL	1.000	EPA 9040C	METHOD
Total Suspended Solids	24		5	mg/L	TOTAL	1.000	SM2540D	METHOD

Y = Sample exhibits chromatographic pattern which does not resemble standard

Total Extractable Hydrocarbons			
Lab #:	271220	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	EPA 3520C
Project#:	CLIN 0002	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	11/02/15
Units:	ug/L	Received:	11/02/15
Diln Fac:	1.000	Prepared:	11/06/15
Batch#:	229169		

Field ID: CAPE BLANCO Lab ID: 271220-001
 Type: SAMPLE Analyzed: 11/12/15

Analyte	Result	RL
Diesel C10-C24	1,100 Y	49
Motor Oil C24-C36	1,100	290

Surrogate	%REC	Limits
o-Terphenyl	102	67-136

Field ID: CAPE BRETON Lab ID: 271220-002
 Type: SAMPLE Analyzed: 11/12/15

Analyte	Result	RL
Diesel C10-C24	970 Y	50
Motor Oil C24-C36	1,300	300

Surrogate	%REC	Limits
o-Terphenyl	102	67-136

Field ID: CAPE BORDA Lab ID: 271220-003
 Type: SAMPLE Analyzed: 11/12/15

Analyte	Result	RL
Diesel C10-C24	1,500 Y	52
Motor Oil C24-C36	1,200	310

Surrogate	%REC	Limits
o-Terphenyl	105	67-136

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

Total Extractable Hydrocarbons			
Lab #:	271220	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	EPA 3520C
Project#:	CLIN 0002	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	11/02/15
Units:	ug/L	Received:	11/02/15
Diln Fac:	1.000	Prepared:	11/06/15
Batch#:	229169		

Field ID: PARKING LOT Lab ID: 271220-004
 Type: SAMPLE Analyzed: 11/12/15

Analyte	Result	RL
Diesel C10-C24	1,200 Y	51
Motor Oil C24-C36	1,200	310

Surrogate	%REC	Limits
o-Terphenyl	102	67-136

Type: BLANK Analyzed: 11/09/15
 Lab ID: QC811672

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

Surrogate	%REC	Limits
o-Terphenyl	109	67-136

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

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	271220	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	EPA 3520C
Project#:	CLIN 0002	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	229169
Units:	ug/L	Prepared:	11/06/15
Diln Fac:	1.000	Analyzed:	11/09/15

Type: BS Lab ID: QC811673

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,320	93	60-121

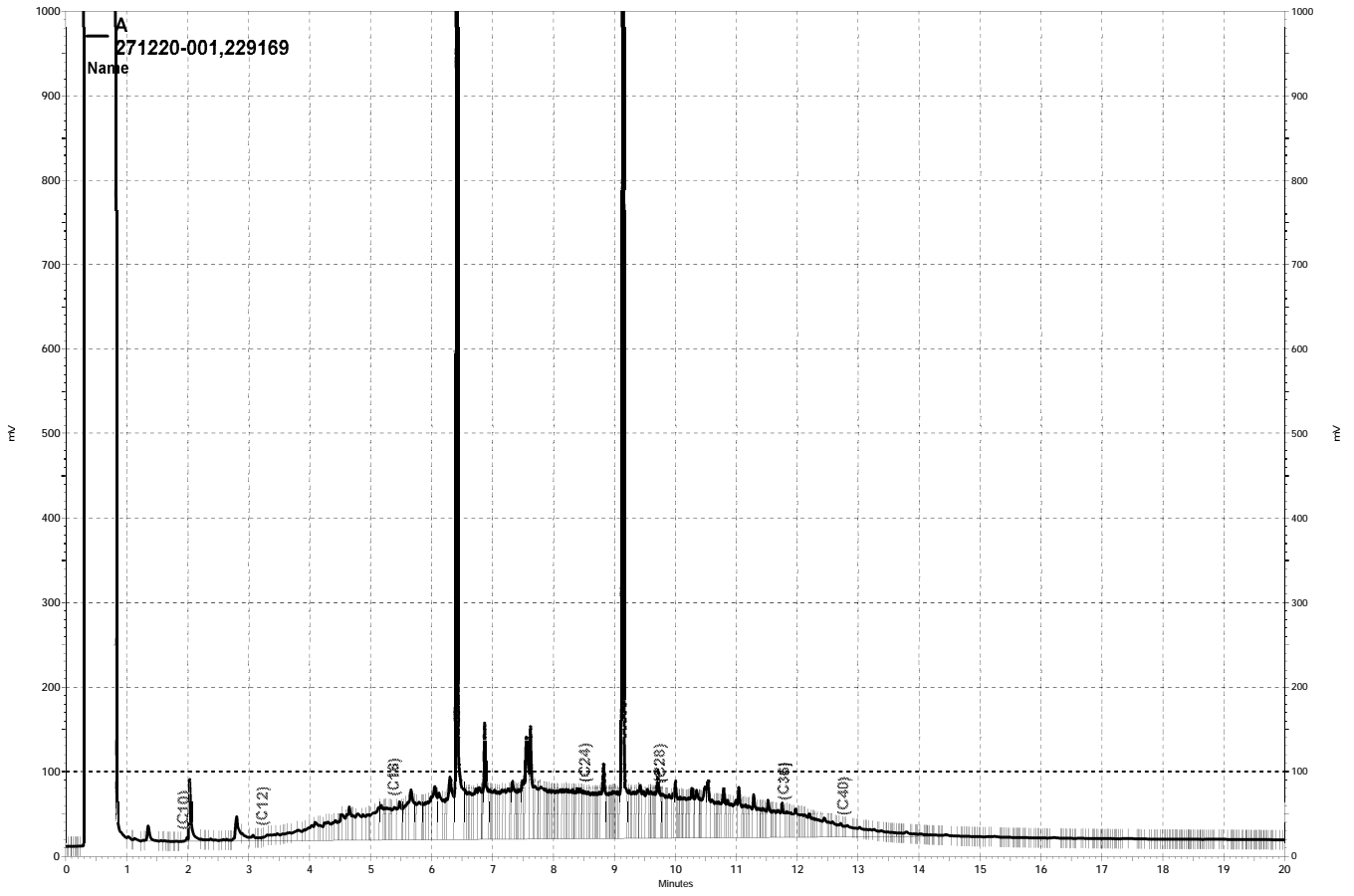
Surrogate	%REC	Limits
o-Terphenyl	107	67-136

Type: BSD Lab ID: QC811674

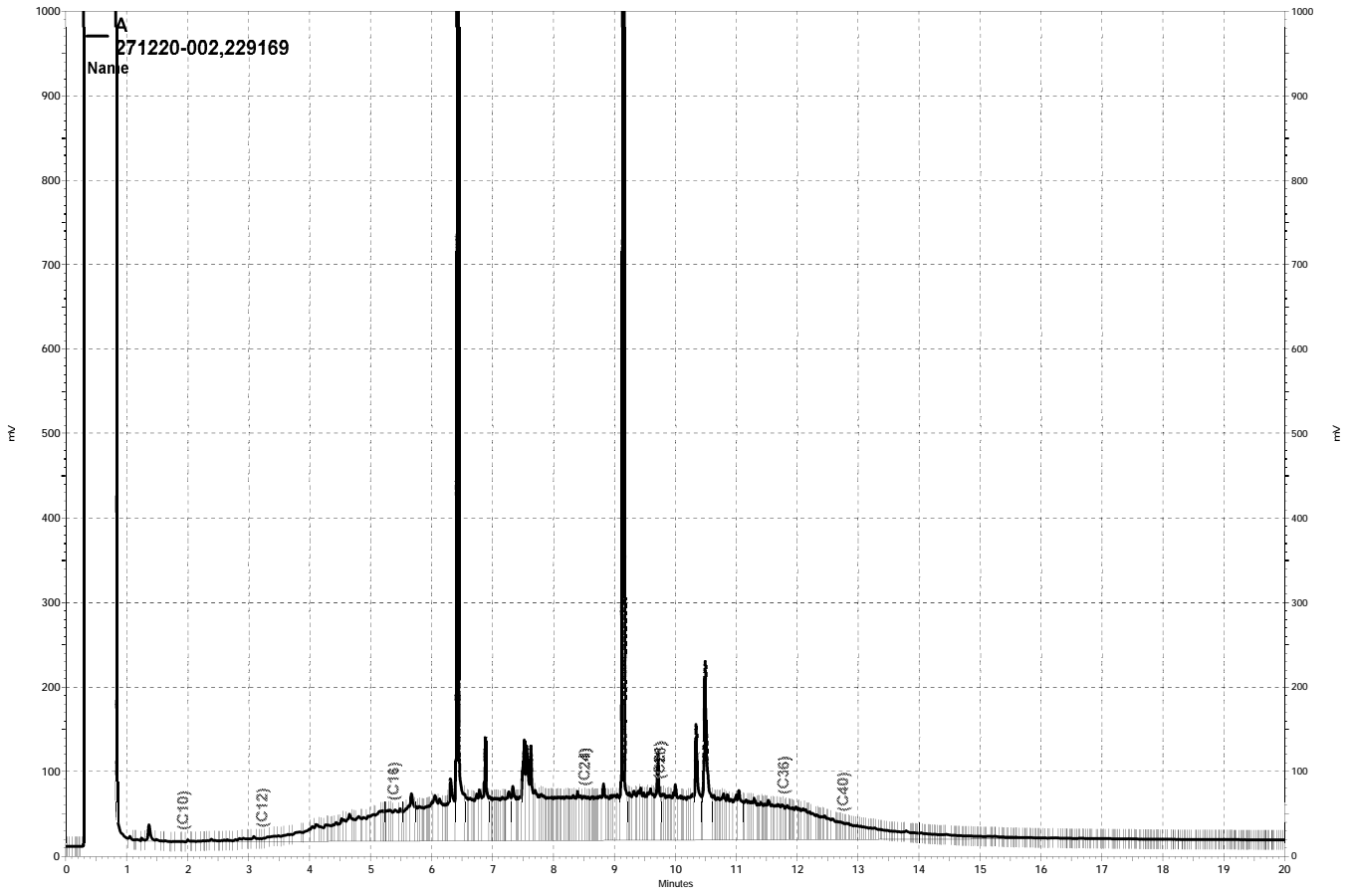
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,168	87	60-121	7	32

Surrogate	%REC	Limits
o-Terphenyl	103	67-136

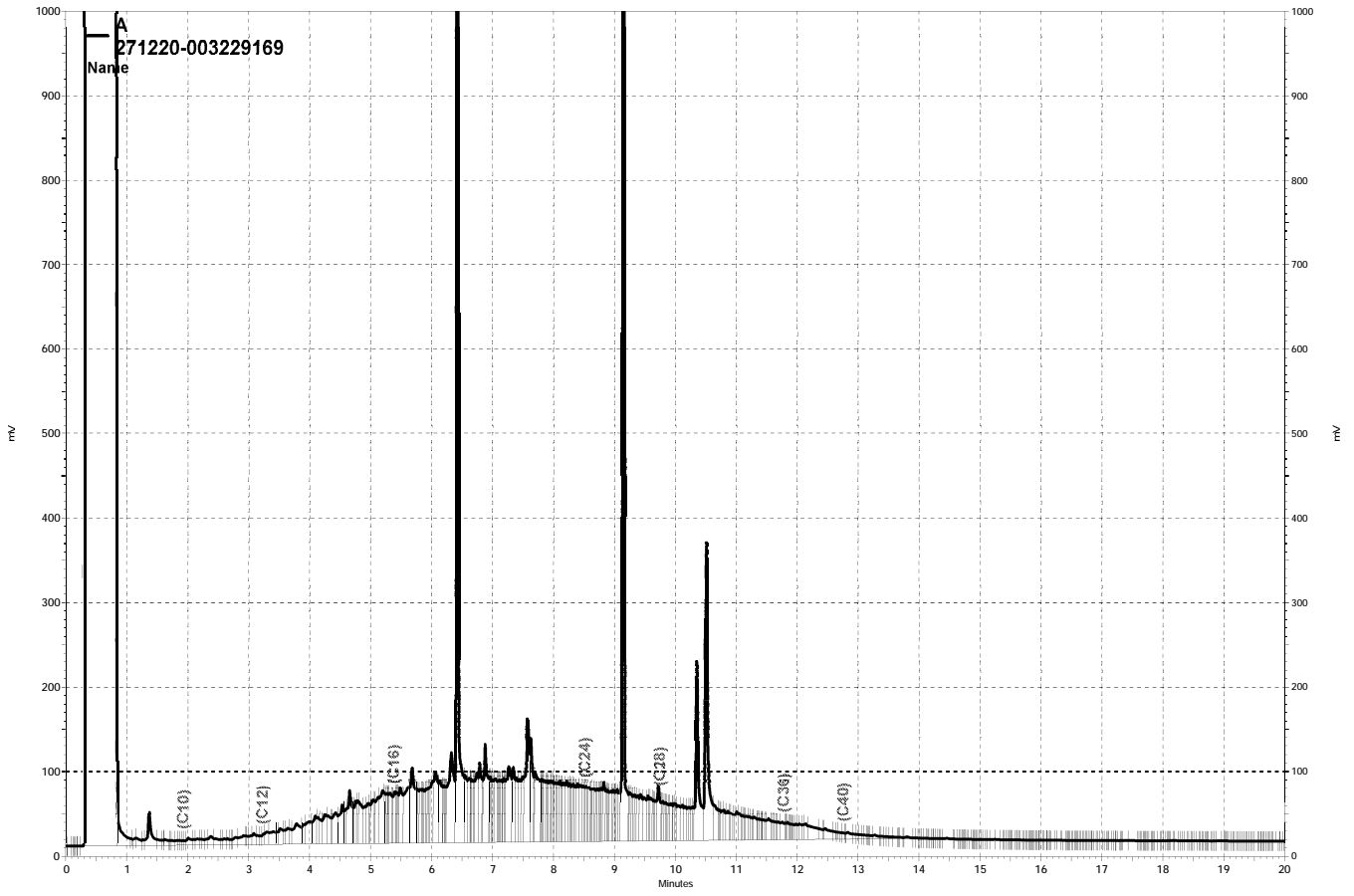
RPD= Relative Percent Difference



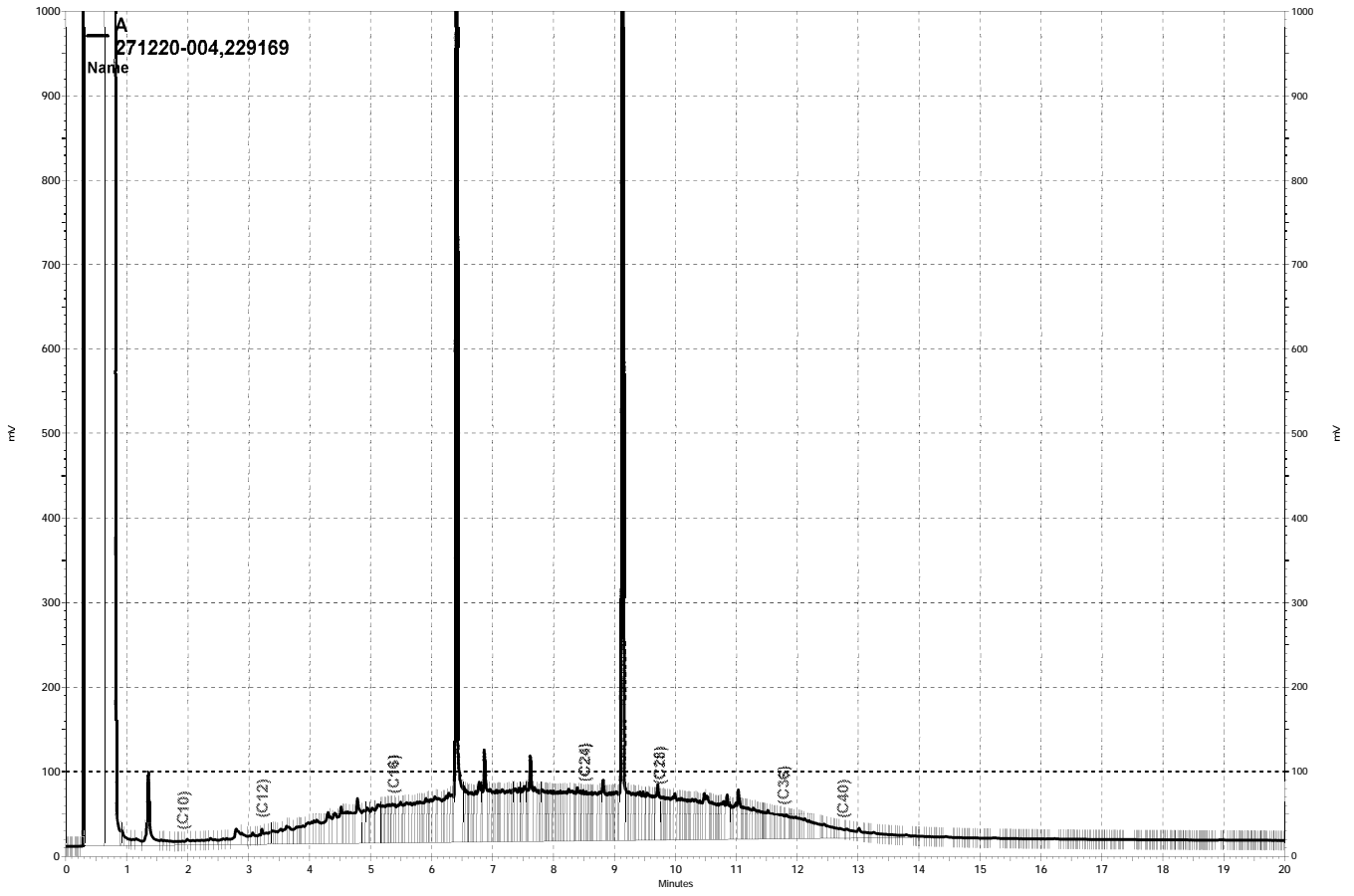
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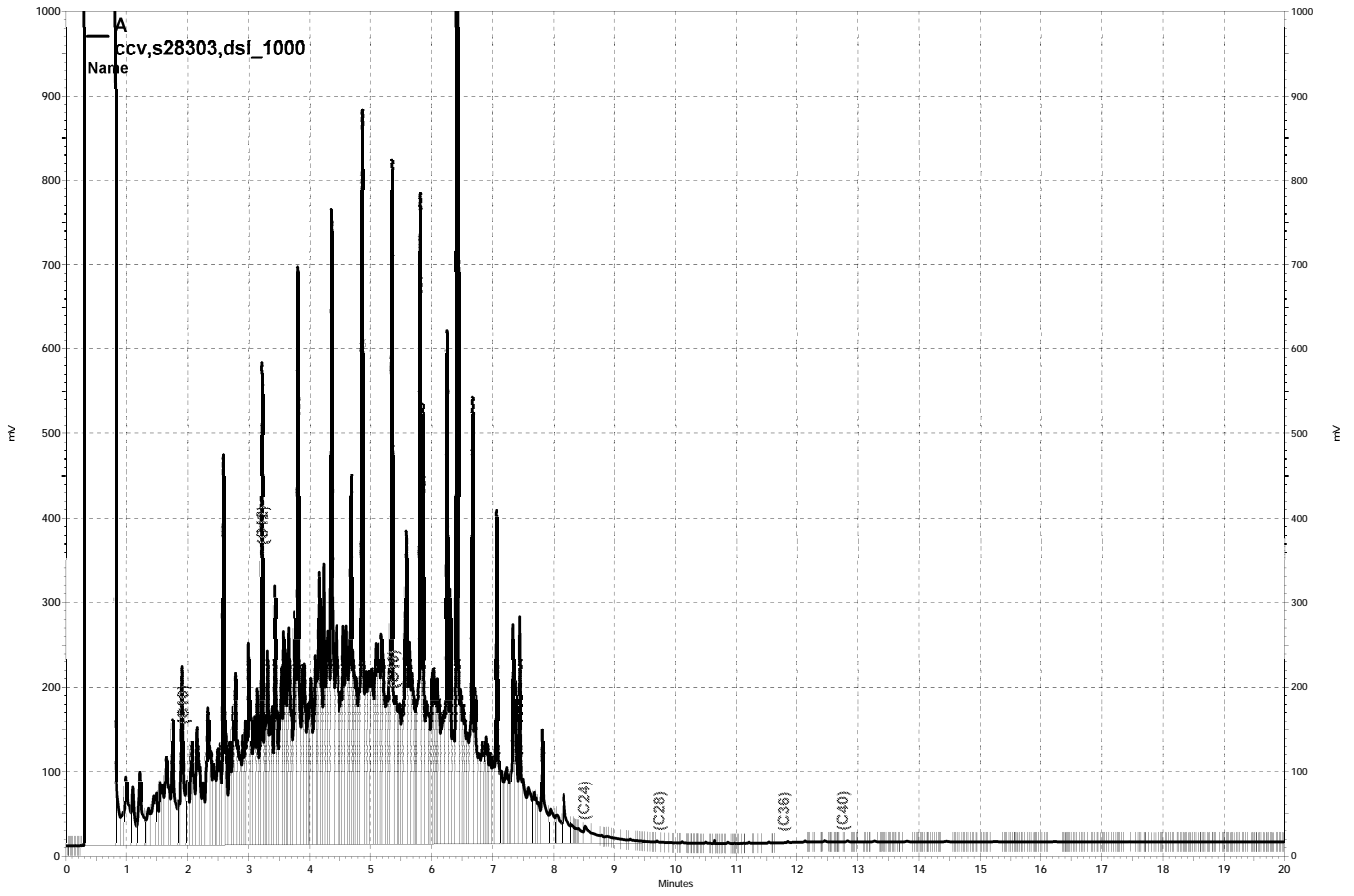
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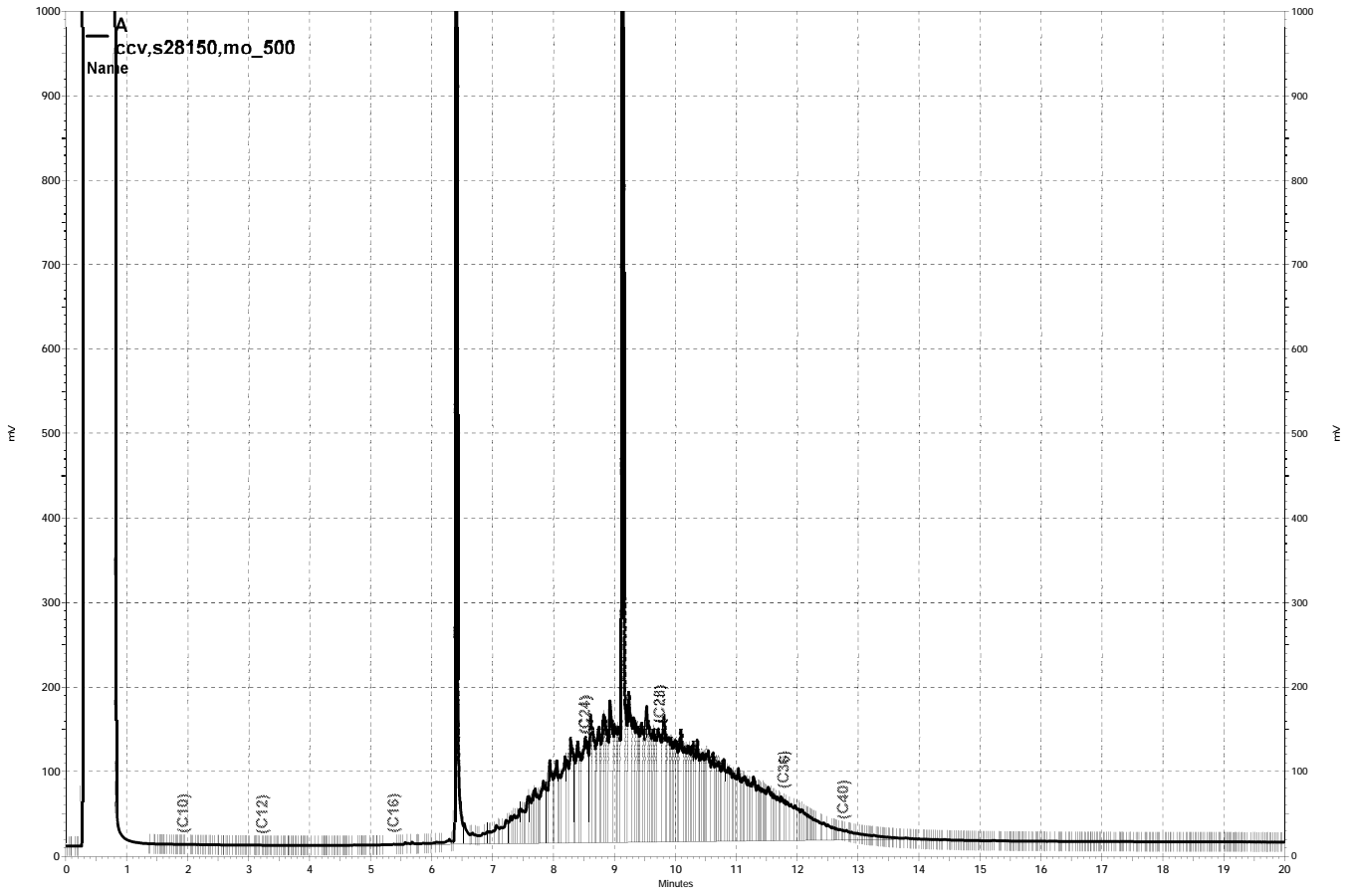
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California Title 22 Metals			
Lab #:	271220	Project#:	CLIN 0002
Client:	Suisun Bay Reserve Fleet	Location:	SWPPP
Field ID:	CAPE BLANCO	Diln Fac:	1.000
Lab ID:	271220-001	Sampled:	11/02/15
Matrix:	Water	Received:	11/02/15
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	10	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Arsenic	ND	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Barium	260	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Beryllium	ND	2.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Cadmium	ND	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Chromium	ND	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Cobalt	ND	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Copper	140	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Lead	29	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Mercury	ND	0.20	229041	11/04/15	11/04/15	METHOD	EPA 7470A
Molybdenum	ND	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Nickel	7.2	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Selenium	ND	10	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Silver	ND	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Thallium	ND	10	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Vanadium	ND	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Zinc	1,600	20	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B

ND= Not Detected
 RL= Reporting Limit

California Title 22 Metals			
Lab #:	271220	Project#:	CLIN 0002
Client:	Suisun Bay Reserve Fleet	Location:	SWPPP
Field ID:	CAPE BRETON	Diln Fac:	1.000
Lab ID:	271220-002	Sampled:	11/02/15
Matrix:	Water	Received:	11/02/15
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	10	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Arsenic	ND	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Barium	240	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Beryllium	ND	2.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Cadmium	ND	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Chromium	5.1	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Cobalt	ND	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Copper	68	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Lead	30	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Mercury	ND	0.20	229041	11/04/15	11/04/15	METHOD	EPA 7470A
Molybdenum	ND	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Nickel	6.0	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Selenium	ND	10	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Silver	ND	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Thallium	ND	10	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Vanadium	ND	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Zinc	2,200	20	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B

ND= Not Detected
 RL= Reporting Limit

California Title 22 Metals			
Lab #:	271220	Project#:	CLIN 0002
Client:	Suisun Bay Reserve Fleet	Location:	SWPPP
Field ID:	CAPE BORDA	Diln Fac:	1.000
Lab ID:	271220-003	Sampled:	11/02/15
Matrix:	Water	Received:	11/02/15
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	10	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Arsenic	ND	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Barium	370	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Beryllium	ND	2.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Cadmium	ND	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Chromium	ND	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Cobalt	ND	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Copper	60	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Lead	ND	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Mercury	ND	0.20	229041	11/04/15	11/04/15	METHOD	EPA 7470A
Molybdenum	ND	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Nickel	9.5	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Selenium	ND	10	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Silver	ND	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Thallium	ND	10	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Vanadium	ND	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Zinc	2,200	20	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B

ND= Not Detected
 RL= Reporting Limit

California Title 22 Metals			
Lab #:	271220	Project#:	CLIN 0002
Client:	Suisun Bay Reserve Fleet	Location:	SWPPP
Field ID:	PARKING LOT	Diln Fac:	1.000
Lab ID:	271220-004	Sampled:	11/02/15
Matrix:	Water	Received:	11/02/15
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	10	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Arsenic	ND	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Barium	40	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Beryllium	ND	2.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Cadmium	ND	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Chromium	ND	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Cobalt	ND	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Copper	45	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Lead	ND	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Mercury	ND	0.20	229041	11/04/15	11/04/15	METHOD	EPA 7470A
Molybdenum	ND	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Nickel	5.3	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Selenium	ND	10	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Silver	ND	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Thallium	ND	10	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Vanadium	12	5.0	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B
Zinc	120	20	229111	11/05/15	11/12/15	EPA 3010A	EPA 6010B

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

California Title 22 Metals			
Lab #:	271220	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	CLIN 0002	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	229041
Lab ID:	QC811162	Prepared:	11/04/15
Matrix:	Water	Analyzed:	11/04/15
Units:	ug/L		

Result	RL
ND	0.20

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

California Title 22 Metals			
Lab #:	271220	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	CLIN 0002	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	229041
Matrix:	Water	Prepared:	11/04/15
Units:	ug/L	Analyzed:	11/04/15
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC811164	2.500	2.663	107	80-120		
BSD	QC811165	2.500	2.225	89	80-120	18	24

RPD= Relative Percent Difference

Batch QC Report

California Title 22 Metals			
Lab #:	271220	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	CLIN 0002	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	229041
Field ID:	ZZZZZZZZZZ	Sampled:	11/02/15
MSS Lab ID:	271193-001	Received:	11/02/15
Matrix:	Water	Prepared:	11/04/15
Units:	ug/L	Analyzed:	11/04/15
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC811166	0.05420	2.500	2.514	98	60-130		
MSD	QC811167		2.500	2.663	104	60-130	6	34

RPD= Relative Percent Difference

Batch QC Report

California Title 22 Metals			
Lab #:	271220	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	EPA 3010A
Project#:	CLIN 0002	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC811441	Batch#:	229111
Matrix:	Water	Prepared:	11/05/15
Units:	ug/L	Analyzed:	11/12/15

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 #:	271220	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	EPA 3010A
Project#:	CLIN 0002	Analysis:	EPA 6010B
Matrix:	Water	Batch#:	229111
Units:	ug/L	Prepared:	11/05/15
Diln Fac:	1.000	Analyzed:	11/12/15

Type: BS Lab ID: QC811442

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	87.60	88	79-120
Arsenic	100.0	92.62	93	80-120
Barium	100.0	98.81	99	80-120
Beryllium	100.0	100.2	100	80-120
Cadmium	100.0	98.67	99	80-120
Chromium	100.0	99.01	99	80-120
Cobalt	100.0	93.19	93	80-120
Copper	100.0	91.72	92	80-120
Lead	100.0	94.18	94	80-120
Molybdenum	100.0	98.05	98	80-120
Nickel	100.0	91.60	92	80-120
Selenium	100.0	90.18	90	80-120
Silver	100.0	92.28	92	77-120
Thallium	50.00	47.63	95	80-121
Vanadium	100.0	99.62	100	80-120
Zinc	100.0	97.89	98	80-120

Type: BSD Lab ID: QC811443

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	90.21	90	79-120	3	20
Arsenic	100.0	97.73	98	80-120	5	20
Barium	100.0	102.6	103	80-120	4	20
Beryllium	100.0	103.9	104	80-120	4	20
Cadmium	100.0	102.4	102	80-120	4	20
Chromium	100.0	100.7	101	80-120	2	20
Cobalt	100.0	96.80	97	80-120	4	20
Copper	100.0	93.53	94	80-120	2	20
Lead	100.0	97.09	97	80-120	3	20
Molybdenum	100.0	101.9	102	80-120	4	20
Nickel	100.0	95.32	95	80-120	4	20
Selenium	100.0	97.38	97	80-120	8	20
Silver	100.0	93.46	93	77-120	1	20
Thallium	50.00	50.15	100	80-121	5	20
Vanadium	100.0	101.1	101	80-120	1	20
Zinc	100.0	101.4	101	80-120	4	20

RPD= Relative Percent Difference

Batch QC Report

California Title 22 Metals			
Lab #:	271220	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	EPA 3010A
Project#:	CLIN 0002	Analysis:	EPA 6010B
Field ID:	CAPE BLANCO	Batch#:	229111
MSS Lab ID:	271220-001	Sampled:	11/02/15
Matrix:	Water	Received:	11/02/15
Units:	ug/L	Prepared:	11/05/15
Diln Fac:	1.000	Analyzed:	11/12/15

Type: MS Lab ID: QC811444

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	8.585	100.0	96.95	88	74-120
Arsenic	<1.657	100.0	96.75	97	80-127
Barium	264.6	100.0	352.9	88	80-120
Beryllium	<0.4000	100.0	102.4	102	80-120
Cadmium	<1.000	100.0	100.9	101	80-120
Chromium	4.921	100.0	102.4	97	80-120
Cobalt	3.130	100.0	100.9	98	80-120
Copper	136.6	100.0	226.0	89	80-120
Lead	29.00	100.0	122.1	93	67-120
Molybdenum	2.153	100.0	99.09	97	80-120
Nickel	7.196	100.0	103.6	96	80-120
Selenium	<2.000	100.0	94.75	95	73-132
Silver	<1.000	100.0	94.60	95	67-120
Thallium	<1.985	50.00	47.56	95	76-121
Vanadium	4.842	100.0	103.5	99	80-120
Zinc	1,572	100.0	1,642	70 NM	80-122

Type: MSD Lab ID: QC811445

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	94.45	86	74-120	3	24
Arsenic	100.0	94.91	95	80-127	2	25
Barium	100.0	350.5	86	80-120	1	20
Beryllium	100.0	101.3	101	80-120	1	20
Cadmium	100.0	100.8	101	80-120	0	20
Chromium	100.0	103.2	98	80-120	1	20
Cobalt	100.0	101.0	98	80-120	0	20
Copper	100.0	226.8	90	80-120	0	20
Lead	100.0	122.6	94	67-120	0	23
Molybdenum	100.0	99.18	97	80-120	0	20
Nickel	100.0	103.7	97	80-120	0	20
Selenium	100.0	93.21	93	73-132	2	30
Silver	100.0	94.48	94	67-120	0	22
Thallium	50.00	48.72	97	76-121	2	20
Vanadium	100.0	104.9	100	80-120	1	20
Zinc	100.0	1,652	79 NM	80-122	1	20

NM= Not Meaningful: Sample concentration > 4X spike concentration

RPD= Relative Percent Difference

Total Oil & Grease (HEM)			
Lab #:	271220	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	CLIN 0002	Analysis:	EPA 1664A
Analyte:	Oil & Grease (HEM)	Batch#:	229046
Matrix:	Water	Received:	11/02/15
Units:	mg/L	Analyzed:	11/04/15 09:00
Diln Fac:	1.000		

Field ID	Type	Lab ID	Result	RL	Sampled
CAPE BLANCO	SAMPLE	271220-001	ND	4.81	11/02/15 08:00
CAPE BRETON	SAMPLE	271220-002	ND	4.81	11/02/15 08:15
CAPE BORDA	SAMPLE	271220-003	ND	5.15	11/02/15 08:25
PARKING LOT	SAMPLE	271220-004	ND	4.85	11/02/15 08:10
	BLANK	QC811184	ND	5.00	

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Total Oil & Grease (HEM)			
Lab #:	271220	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	CLIN 0002	Analysis:	EPA 1664A
Analyte:	Oil & Grease (HEM)	Diln Fac:	1.000
Matrix:	Water	Batch#:	229046
Units:	mg/L	Analyzed:	11/04/15 09:00

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC811185	40.00	39.10	98	78-114		
BSD	QC811186	40.00	34.10	85	78-114	14	18

RPD= Relative Percent Difference

Conductivity			
Lab #:	271220	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	CLIN 0002	Analysis:	SM2510B
Analyte:	Specific Conductance	Batch#:	229045
Matrix:	Water	Received:	11/02/15
Units:	umhos/cm	Analyzed:	11/04/15 10:43
Diln Fac:	1.000		

Field ID	Type	Lab ID	Result	RL	Sampled
CAPE BLANCO	SAMPLE	271220-001	71	1.0	11/02/15 08:00
CAPE BRETON	SAMPLE	271220-002	56	1.0	11/02/15 08:15
CAPE BORDA	SAMPLE	271220-003	91	1.0	11/02/15 08:25
PARKING LOT	SAMPLE	271220-004	3,070	1.0	11/02/15 08:10
	BLANK	QC811181	ND	1.0	

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Conductivity			
Lab #:	271220	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	CLIN 0002	Analysis:	SM2510B
Analyte:	Specific Conductance	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	229045
MSS Lab ID:	271076-001	Sampled:	10/29/15 10:40
Matrix:	Water	Received:	10/29/15
Units:	umhos/cm	Analyzed:	11/04/15 10:43

Type	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	RPD	Lim
LCS	QC811182		1,000	1,010		101	90-110		
SDUP	QC811183	777.0		775.0	1.000			0	20

RL= Reporting Limit

RPD= Relative Percent Difference

pH			
Lab #:	271220	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	CLIN 0002	Analysis:	EPA 9040C
Analyte:	pH	Batch#:	228978
Matrix:	Water	Received:	11/02/15
Units:	SU	Analyzed:	11/02/15 20:37
Diln Fac:	1.000		

Field ID	Lab ID	Result	RL	Sampled
CAPE BLANCO	271220-001	6.1	1.0	11/02/15 08:00
CAPE BRETON	271220-002	6.1	1.0	11/02/15 08:15
CAPE BORDA	271220-003	6.1	1.0	11/02/15 08:25
PARKING LOT	271220-004	7.5	1.0	11/02/15 08:10

RL= Reporting Limit

Batch QC Report

pH			
Lab #:	271220	Location:	SWPPP
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#:	228978
MSS Lab ID:	271177-001	Sampled:	11/02/15 05:20
Lab ID:	QC810914	Received:	11/02/15
Matrix:	Water	Analyzed:	11/02/15 20:37

MSS Result	Result	RL	RPD	Lim
6.490	6.270	1.000	3	20

RL= Reporting Limit

RPD= Relative Percent Difference

Total Suspended Solids (TSS)			
Lab #:	271220	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	CLIN 0002	Analysis:	SM2540D
Analyte:	Total Suspended Solids	Batch#:	229101
Matrix:	Water	Sampled:	11/02/15
Units:	mg/L	Received:	11/02/15
Diln Fac:	1.000	Analyzed:	11/05/15

Field ID	Type	Lab ID	Result	RL
CAPE BLANCO	SAMPLE	271220-001	13	5
CAPE BRETON	SAMPLE	271220-002	49	5
CAPE BORDA	SAMPLE	271220-003	5	5
PARKING LOT	SAMPLE	271220-004	24	5
	BLANK	QC811398	ND	5

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Total Suspended Solids (TSS)			
Lab #:	271220	Location:	SWPPP
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	CLIN 0002	Analysis:	SM2540D
Analyte:	Total Suspended Solids	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	229101
MSS Lab ID:	271195-002	Sampled:	11/02/15
Matrix:	Water	Received:	11/02/15
Units:	mg/L	Analyzed:	11/05/15

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC811399		50.00	49.00	98	77-121		
BSD	QC811400		50.00	48.00	96	77-121	2	5
MS	QC811401	35.00	50.00	77.00	84	65-127		
MSD	QC811402		50.00	81.00	92	65-127	5	5

RPD= Relative Percent Difference

Laboratory Job Number 271220

Subcontracted Products

Alpha Analytical, Inc.



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

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Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

ELAP Certificates 1551, 2728, and 2922

17 November 2015

Curtis & Tompkins, LTD.

Attn: Mikelle Chong

2323 Fifth Street

Berkeley, CA 94710

RE: Water Quality

Work Order: 15K0422

Enclosed are the results of analyses for samples received by the laboratory on 11/03/15 20:40. 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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Curtis & Tompkins, LTD.
2323 Fifth Street
Berkeley, CA 94710

Project Manager: Mikelle Chong
Project: Water Quality
Project Number: SWPPP / 271220

Reported:
11/17/15 16:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Cape Blanco	15K0422-01	Water	11/02/15 08:00	11/03/15 20:40
Cape Breton	15K0422-02	Water	11/02/15 08:15	11/03/15 20:40
Cape Borda	15K0422-03	Water	11/02/15 08:25	11/03/15 20:40
Parking Lot	15K0422-04	Water	11/02/15 08:10	11/03/15 20:40

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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Curtis & Tompkins, LTD.
2323 Fifth Street
Berkeley, CA 94710

Project Manager: Mikelle Chong
Project: Water Quality
Project Number: SWPPP / 271220

Reported:
11/17/15 16:28

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
Cape Blanco (15K0422-01)								
Metals by APHA/EPA Methods								
Mercury	9.88 ng/l	0.500	1	AK51232	11/12/15 12:00	11/13/15 13:19	EPA 1631E	
Cape Breton (15K0422-02)								
Metals by APHA/EPA Methods								
Mercury	8.16 ng/l	0.500	1	AK51232	11/12/15 12:00	11/13/15 13:27	EPA 1631E	
Cape Borda (15K0422-03)								
Metals by APHA/EPA Methods								
Mercury	5.85 ng/l	0.500	1	AK51232	11/12/15 12:00	11/13/15 13:35	EPA 1631E	
Parking Lot (15K0422-04)								
Metals by APHA/EPA Methods								
Mercury	20.7 ng/l	5.00	10	AK51232	11/12/15 12:00	11/13/15 13:44	EPA 1631E	

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Curtis & Tompkins, LTD.
2323 Fifth Street
Berkeley, CA 94710

Project Manager: Mikelle Chong
Project: Water Quality
Project Number: SWPPP / 271220

Reported:
11/17/15 16:28

Metals by APHA/EPA Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AK51232 - EPA 1631										
Blank (AK51232-BLK1)				Prepared: 11/12/15 Analyzed: 11/13/15						
Mercury	ND	0.500	ng/l							
LCS (AK51232-BS1)				Prepared: 11/12/15 Analyzed: 11/13/15						
Mercury	5.22	0.500	ng/l	5.00		104	77-123			
Matrix Spike (AK51232-MS1)				Source: 15K0541-15 Prepared: 11/12/15 Analyzed: 11/13/15						
Mercury	23.6	0.500	ng/l	25.0	1.16	89.7	71-125			
Matrix Spike (AK51232-MS2)				Source: 15K0779-04 Prepared: 11/12/15 Analyzed: 11/13/15						
Mercury	25.0	0.500	ng/l	25.0	0.605	97.7	71-125			
Matrix Spike Dup (AK51232-MSD1)				Source: 15K0541-15 Prepared: 11/12/15 Analyzed: 11/13/15						
Mercury	24.0	0.500	ng/l	25.0	1.16	91.3	71-125	1.72	24	
Matrix Spike Dup (AK51232-MSD2)				Source: 15K0779-04 Prepared: 11/12/15 Analyzed: 11/13/15						
Mercury	24.9	0.500	ng/l	25.0	0.605	97.1	71-125	0.681	24	

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Curtis & Tompkins, LTD.
2323 Fifth Street
Berkeley, CA 94710

Project Manager: Mikelle Chong
Project: Water Quality
Project Number: SWPPP / 271220

Reported:
11/17/15 16:28

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit
dry Sample results reported on a dry weight basis
REC Recovery
RPD Relative Percent Difference

15K0422

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

Project Number: 271220
Site: SWPPP

3-5

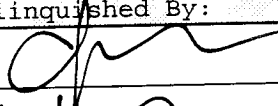

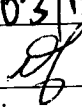
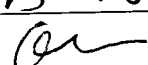
Subcontract Laboratory:
Alpha Analytical, Inc.
6398 Dougherty Rd. #35
Dublin, CA 94568
(925) 828-6226
ATTN: Robbie Phillips

Results due: 11/17/15

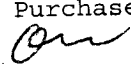

Report Level: II

Please send report to: Mikelle Chong (mikelle.chong@ctberk.com)
*** Please report using Sample ID rather than C&T Lab #.

Sample ID	Sampled	Matrix	Analysis	C&T Lab #	Comments
CAPE BLANCO	11/02 08:00	Water	1631	271220-001	[REDACTED]
CAPE BRETON	11/02 08:15	Water	1631	271220-002	[REDACTED]
CAPE BORDA	11/02 08:25	Water	1631	271220-003	[REDACTED]
PARKING LOT	11/02 08:10	Water	1631	271220-004	[REDACTED]

Notes:	Relinquished By:	Received By:
		
	Date/Time: 11/03/15 0812	Date/Time: 11/3/15 1512
		
	Date/Time:	Date/Time: 11/3/15 1700

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

 11/3/15 2040  11/3/15 2040