BC LABORATORIES, INC.

Work Order Number: 1703197

Laboratory Documentation Requirements
For Data Validation of
GC Analysis

Prepared By

BC Laboratories

For AMEC Environmental & Infrastructure

5023146096

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Case Narrative

Analyses Requested: **RSK 175M**
Submission Number: 17-03197

Instrument ID: GC-V1
Model: Varian 3400

Column Type: RTX 502.2, 60m x 0.25mm ID, 1.4µm film thickness.

Samples were received refrigerated to <6°C upon arrival at BC Laboratories, Inc. Samples were checked for preservation. Where applicable, sample preservation was adjusted in the laboratory.

Holding Time: All analyses and extractions took place within holding times.

Calibration: Initial calibration criteria were met. Frequency and accuracy criteria for initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

Blanks: Method blank was prepared and analyzed at the required frequency. No detection of analytes of interest took place at or above the PQL. Initial and continuing calibration blanks were analyzed at the required frequencies and on an as needed basis.

Laboratory Control Sample and Duplicate: Laboratory control sample analysis was performed at the required frequency. All parameters were within QC limits.

MWEC Group
9177 Sky Park Court
San Diego, CA
(858) 278-3600

SHIP TO:
BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Attn:
Lab Phone#

CHAIN OF CUSTODY

17-03197

DATE: 2/3/2017
COC #: COC170203
PAGE: 1 OF 3

Project Name:	Alameda Basewide	Project Contact:	Marina Mitchell	Bill To:	Amec Foster Wheeler	Disposal Instructions:	LAB
Project Number:	5023146098	Phone Number:	(503) 639-3400		9210 Sky Park Court, Suite 200	Shipment Method:	FEDEX
Project Manager:	Kevin Olness	Project Phase:	03.****		San Diego, CA 92123	Waybill Number:	N/A

Sample Information / Methods for Analysis

No.	Sample ID	Date & Time Sampled	Matrix	Sample Type	MS/MSD	VOCs (EPA 8260B)	VOCs - Short list Only (8260B)	Diss. Gases- (RSK175)	Anions- (EPA 300.0)	Alkalinity (EPA 310.2)	Sulfide (EPA 376.2)	TDS (EPA 160.1)	TOC (EPA 415.1)	24 Hour	48 Hour	72 Hour	5 Days	TOTAL BOTTLES	HOLD All Analyses
1	27EW-05_170203	02/03/17 08:40	WG	N	N	X													
2	27EW-12_170203	02/03/17 09:55	WG	N	N	X		X	X	X	X		X						
3	27EW-19_170203	02/03/17 08:00	WG	N	N	X													
4	27MW02_170203	02/03/17 09:18	WG	N	N	X													
5	DUP18_170203	02/03/17 09:55	WG	FD	N	X													
6	M10B-01_170203	02/03/17 08:30	WG	N	N		X												
7	MW4-2-1_170203	02/03/17 09:35	WG	N	N	X													
8	MW4-2-18_170203	02/03/17 08:30	WG	N	N	X													
9	MW530-1_170203	02/03/17 09:20	WG	N	N		X												
10	S4-TT-MW02A_170203	02/03/17 09:48	WG	N	N	X													
11	SMLS-01_170203	02/03/17 08:55	WG	N	N	X		X	X	X	X	X							
12	SMLS-07_170203	02/03/17 08:09	WG	N	N	X		X	X	X	X	X							

SHORT HOLDING TIME
Cr^{+6} NO_2 NO_3 OP SS
DO Cl_2 BOD MBAS COT

CHK BY DISTRIBUTION
SUB-OUT

Sampler's Signature:	Date: 2/3/17	Time: 16:40	
Relinquished By/Affiliation:	Date: 2/3/17	Time: 16:60	
Received By:	Date: 2/3/17	Time: 16:60	
Relinquished By/Affiliation:	Date: 2-3-17	Time: 1730	
Received By:	Date: 2/3/17	Time: 17:30	
Relinquished By/Affiliation:	Date: 2/3/17	Time: 2008	
Received By (LAB):	Date: 2/3	Time: 2008	

For Lab Use

Does COC match samples:	Y or N
Broken Container:	Y or N
COC seal intact:	Y or N
Other problems:	Y or N
WSDOT contacted:	Y or N
Date contacted:	
Cooler Temperature at receipt:	°C

Comments:
X=Analyze H=Hold Analysis Request

Report DL/LOD/LOQ with Navy NIRIS valid values

VOC short list is Benzene & Ethylbenzene only
Major Cations are Na, K, Ca, Mg

NUMBER OF COOLERS SENT:

MMEC Group
9177 Sky Park Court
San Diego, CA
(858) 278-3600

SHIP TO:
BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Attn:
Lab Phone#

CHAIN OF CUSTODY

17-03197

DATE: 2/3/2017
COC #: COC170203
PAGE: 2 OF 3

Project Name:	Alameda Basewide	Project Contact:	Marina Mitchell	Bill To:	Amec Foster Wheeler	Disposal Instructions:	LAB
Project Number:	5023146095	Phone Number:	(503) 639-3400		9210 Sky Park Court, Suite 200	Shipment Method:	FEDEX
Project Manager:	Kevin Olness	Project Phase:	03.****		San Diego, CA 92123	Waybill Number:	N/A

Sample Information / Methods for Analysis / RUSH

No.	Sample ID	Date & Time Sampled	Matrix	Sample Type	MS/MSD	VOCs (EPA 8260B)	VOCs - Short list Only (8260B)	Diss. Gases- (RSK175)	Anions- (EPA 300.0)	Alkalinity (EPA 310.2)	Sulfide (EPA 376.2)	TDS (EPA 160.1)	TOC (EPA 415.1)	24 Hour	48 Hour	72 Hour	5 Days	TOTAL BOTTLES	HOLD All Analysis
1	26MW08_170203 -13	02/03/17 11:25	WG	N	N	X			X	X	X	X							
2	27EW-15_170203 -14	02/03/17 10:40	WG	N	N	X													
3	27EW-20_170203 -15	02/03/17 11:23	WG	N	N	X													
4	DUP12_170203 -16	02/03/17 11:28	WG	FD	N	X													
5	M04-05_170203 -17	02/03/17 10:05	WG	N	N	X													
6	M13-07_170203 -18	02/03/17 11:25	WG	N	N		X												
7	MW530-2_170203 -19	02/03/17 10:45	WG	N	N		X												
8	S4-TT-MW02B_170203 -20	02/03/17 10:41	WG	N	N	X													
9	S4-TT-MW02C_170203 -21	02/03/17 10:12	WG	N	N	X													
10	S4-TT-MW02D_170203 -22	02/03/17 11:14	WG	N	N	X													
11	TB11_170203 -23	02/03/17 12:00	WQ	TB	N	X													
12	TB12_170203 -24	02/03/17 12:15	WQ	TB	N	X													

Sampler's Signature:	Date: 2/3/17	Time: 16:60
Relinquished By/Affiliation:	Date: 2/3/17	Time: 16:60
Received By:	Date: 2/3/17	Time: 16:60
Relinquished By/Affiliation:	Date: 2-3-17	Time: 1730
Received By:	Date: 2/3/17	Time: 1730
Relinquished By/Affiliation:	Date: 2/3/17	Time: 2008
Received By (LAB):	Date: 2/3	Time: 2008

For Lab Use

Does COC match samples:	Y or N
Broken Container:	Y or N
COC seal intact:	Y or N
Other problems:	Y or N
WSDOT contacted:	Y or N
Date contacted:	
Cooler Temperature at receipt:	____ °C

Comments:
X=Analyze H=Hold Analysis Request

Report DL/LOD/LOQ with Navy NIRIS valid values

VOC short list is Benzene & Ethylbenzene only
Major Cations are Na, K, Ca, Mg

NUMBER OF COOLERS SENT:

CHAIN OF CUSTODY

1703197

MMEC Group
9177 Sky Park Court
San Diego, CA
(858) 278-3600

SHIP TO:
BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Attn:
Lab Phone#

DATE: 2/3/2017
COC #: COC170203
PAGE: 3 OF 3

Project Name:	Alameda Basewide	Project Contact:	Marina Mitchell	Bill To:	Amec Foster Wheeler	Disposal Instructions:	LAB
Project Number:	5023146096	Phone Number:	(503) 639-3400		9210 Sky Park Court, Suite 200	Shipment Method:	FEDEX
Project Manager:	Kevin Olness	Project Phase:	03-****		San Diego, CA 92123	Waybill Number:	N/A

Sample Information / Methods for Analysis

No.	Sample ID	Date & Time Sampled	Matrix	Sample Type	MS/MSD	VOCs (EPA 8260B)	VOCs - Short list Only (8260B)	Diss. Gases- (RSK175)	Anions- (EPA 300.0)	Alkalinity (EPA 310.2)	Sulfide (EPA 376.2)	TDS (EPA 160.1)	TOC (EPA 415.1)	RUSH 24 Hour	RUSH 48 Hour	RUSH 72 Hour	RUSH 5 Days	TOTAL BOTTLES	HOLD All Analyses
1	26MW03_170203 -25	02/03/17 12:30	WG	N	N	X			X	X	X	X							
2	26PZ01_170203 -26	02/03/17 13:36	WG	N	Y	X			X	X	X	X							
3	26PZ03_170203 -27	02/03/17 13:01	WG	N	N	X			X	X	X	X							
4	27MW06_170203 -28	02/03/17 13:24	WG	N	N	X		X	X	X	X		X						
5	DUP07_170203 -29	02/03/17 13:05	WG	FD	N		X												
6	EB20_170203 -30	02/03/17 14:00	WQ	EB	N	X													
7	EB21_170203 -31	02/03/17 14:10	WQ	EB	N	X													
8	EB22_170203 -32	02/03/17 14:20	WQ	EB	N		X												
9	EB23_170203 -33	02/03/17 14:30	WQ	EB	N	X													
10	M13-09_170203 -34	02/03/17 13:00	WG	N	N		X												
11	MWOR-4_170203 -35	02/03/17 13:50	WG	N	N		X												
12																			

Sampler's Signature:	Date: 2/3/17	Time: 16:40
Relinquished By/Affiliation:	Date: 2/3/17	Time: 16:40
Received By:	Date: 2/3/17	Time: 16:40
Relinquished By/Affiliation:	Date: 2-3-17	Time: 173
Received By:	Date: 2/3/17	Time: 1730
Relinquished By/Affiliation:	Date: 2/3/17	Time: 2008
Received By (LAB):	Date: 2/3	Time: 2008

For Lab Use

Does COC match samples:	Y or N
Broken Container:	Y or N
COC seal intact:	Y or N
Other problems:	Y or N
WSDOT contacted:	Y or N
Date contacted:	
Cooler Temperature at receipt:	°C

Comments:
X=Analyze H=Hold Analysis Request

Report DL/LOD/LOQ with Navy NIRIS valid values

VOC short list is Benzene & Ethylbenzene only
Major Cations are Na, K, Ca, Mg

NUMBER OF COOLERS SENT:

Chain of Custody and Cooler Receipt Form for 1703197 Page 4 of 8

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 5

Submission #: 17-03197

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐	Ice Chest ☒ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____	Other ☐ (Specify)_____	W / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: VOA Thermometer ID: 207 Date/Time 2/3 20:16

Temperature: (A) 2.7 °C / (C) 2.9 °C Analyst Init GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2 13	3 14	17	18	6	11	12	13	14
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- ~~504~~ RSK		DEF					DEF	DEF		
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: _____ Date/Time 2/3/17 2124

A = Actual / C = Corrected

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Chain of Custody and Cooler Receipt Form for 1703197 Page 5 of 8

BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 5

Submission #: 17-03197

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐
(W) / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: VOA Thermometer ID: 207 Date/Time 2/3 20:16
Temperature: (A) 2.7 °C / (C) 2.9 °C Analyst Init GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	15	17	18	19	20	21	22	23	25	65
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK								AB		
40ml VOA VIAL	ABC	ABC	ABC	ABC	ABC	ABC	ABC		ABC	ABC
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:
Sample Numbering Completed By: AU Date/Time: 2/3/17 2128 Rev 21 05/23/2016

Chain of Custody and Cooler Receipt Form for 1703197 Page 6 of 8

BC LABORATORIES INC. COOLER RECEIPT FORM Page 3 Of 5

Submission #: 17-03197

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐	Ice Chest ☒ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____	Other ☐ (Specify)_____	W / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: VOA Thermometer ID: 207 Date/Time 2/3 20:16

Temperature: (A) 2.7 °C / (C) 2.9 °C Analyst Init GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS 16	19	28	31	33	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	ABC	ABC	ABC	ABC	ABC					
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL ~~504~~ RSK			VOF							
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: M Date/Time: 2-3-17 Rev 21 05/23/2016

A = Actual / C = Corrected

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Chain of Custody and Cooler Receipt Form for 1703197 Page 7 of 8

BC LABORATORIES INC. COOLER RECEIPT FORM Page 4 Of 5

Submission #: 17-03197

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐
(W) / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: PE Thermometer ID: 207 Date/Time 2/3 20:16
Temperature: (A) 0.1 °C / (C) 0.4 °C Analyst Init GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	124	26	127	129	130	132	134	135	9	10
QT PE UNPRES		JKL								
4oz / 8oz / 16oz PE UNPRES			DR		/					
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE		MNO	F							
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	AB	r								
40ml VOA VIAL		ABC	ABC	ABC	ABC	ABC	ABC	ABC		
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:
Sample Numbering Completed By: AA Date/Time: 2-3-17 2143
A = Actual / C = Corrected

Rev 21 05/23/2016
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Chain of Custody and Cooler Receipt Form for 1703197 Page 8 of 8

BC LABORATORIES INC. COOLER RECEIPT FORM Page 5 of 5

Submission #: 17-03197

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐
W / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: VOA Thermometer ID: 207 Date/Time 2/3 20:16
Temperature: (A) 1.5 °C / (C) 1.7 °C Analyst Init GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	12	11	12	13	25	28	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES	G	GH	GH	GH	DE	G				
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE	H	I	I	J	F	H				
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON	I					I				
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:
Sample Numbering Completed By: Date/Time: 2-3-17 1155
A = Actual / C = Corrected

Rev 21 05/23/2016
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AMEC Environmental & Infrastructure 9210 Sky Park Court #200 San Diego, CA 92123	Reported: 3/7/2017 2:49:39PM Project: Alameda Project Number: 5023146096 Project Manager: Kelli Miller

BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Phone: 661-327-4911

SDG:	**17-03197**
Class:	**GC**
Method:	**RSK-175M**

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 2:49:39PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSES DATA PACKAGE COVER PAGE

RSK-175M

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
27EW-12_170203	1703197-02
SMLS-01_170203	1703197-11
SMLS-07_170203	1703197-12
27MW06_170203	1703197-28

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Sara Guron
Name: Sara Guron

Date: 03-07-2017
Title: QA/QC Manager

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 2:49:39PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD DETECTION AND REPORTING LIMITS

RSK-175M

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Instrument: GC-V1

Analyte	DL	LOD	LOQ	Units
Methane	0.00028	0.0006	0.001	mg/L
Ethane	0.00075	0.001	0.002	mg/L
Ethene	0.00077	0.001	0.002	mg/L

AMEC Environmental & Infrastructure
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San Diego, CA 92123

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ORGANIC ANALYSIS DATA SHEET
RSK-175M

27EW-12_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-02	File ID:	10FEB15.D
Sampled:	02/03/17 09:55	Prepared:	02/08/17 12:21	Analyzed:	02/10/17 08:06
Solids:		Preparation:	RSK-175M	Initial/Final:	1 ml / 1 ml
Batch:	B[B0699	Sequence:	1702341	Calibration:	1702007
Instrument:	GC-V1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	DL	LOD	LOQ	Q
74-82-8	Methane	1	0.00060	0.00028	0.00060	0.0010	U
74-84-0	Ethane	1	0.0010	0.00075	0.0010	0.0020	U
74-85-1	Ethene	1	0.0010	0.00077	0.0010	0.0020	U

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

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Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
RSK-175M

SMLS-01_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-11	File ID:	10FEB16.D
Sampled:	02/03/17 08:55	Prepared:	02/08/17 12:21	Analyzed:	02/10/17 08:10
Solids:		Preparation:	RSK-175M	Initial/Final:	1 ml / 1 ml
Batch:	B[B0699	Sequence:	1702341	Calibration:	1702007
Instrument:	GC-V1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	DL	LOD	LOQ	Q
74-82-8	Methane	1	0.53	0.00028	0.00060	0.0010	
74-84-0	Ethane	1	0.0010	0.00075	0.0010	0.0020	U
74-85-1	Ethene	1	0.043	0.00077	0.0010	0.0020	

* Values outside of QC limits

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Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
RSK-175M

SMLS-07_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-12	File ID:	10FEB17.D
Sampled:	02/03/17 08:09	Prepared:	02/08/17 12:21	Analyzed:	02/10/17 08:22
Solids:		Preparation:	RSK-175M	Initial/Final:	1 ml / 1 ml
Batch:	B[B0699	Sequence:	1702341	Calibration:	1702007
Instrument:	GC-V1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	DL	LOD	LOQ	Q
74-82-8	Methane	1	0.12	0.00028	0.00060	0.0010	
74-84-0	Ethane	1	0.0010	0.00075	0.0010	0.0020	U
74-85-1	Ethene	1	0.0010	0.00077	0.0010	0.0020	U

* Values outside of QC limits

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ORGANIC ANALYSIS DATA SHEET
RSK-175M

27MW06_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-28	File ID:	10FEB18.D
Sampled:	02/03/17 13:24	Prepared:	02/08/17 12:21	Analyzed:	02/10/17 08:26
Solids:		Preparation:	RSK-175M	Initial/Final:	1 ml / 1 ml
Batch:	B[B0699	Sequence:	1702341	Calibration:	1702007
Instrument:	GC-V1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	DL	LOD	LOQ	Q
74-82-8	Methane	1	0.00060	0.00028	0.00060	0.0010	U
74-84-0	Ethane	1	0.0010	0.00075	0.0010	0.0020	U
74-85-1	Ethene	1	0.0010	0.00077	0.0010	0.0020	U

* Values outside of QC limits

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Project Number: 5023146096
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PREPARATION BATCH SUMMARY

RSK-175M

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Batch: B[B0699
Batch Matrix: Water
Preparation: RSK-175M

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
27EW-12_170203	1703197-02	10FEB15.D	02/08/17 12:21	
SMLS-01_170203	1703197-11	10FEB16.D	02/08/17 12:21	
SMLS-07_170203	1703197-12	10FEB17.D	02/08/17 12:21	
27MW06_170203	1703197-28	10FEB18.D	02/08/17 12:21	
Blank	B[B0699-BLK1	10FEB04.D	02/08/17 12:21	
LCS	B[B0699-BS1	10FEB05.D	02/08/17 12:21	
LCS Dup	B[B0699-BSD1	10FEB06.D	02/08/17 12:21	

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METHOD BLANK DATA SHEET
RSK-175M

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[B0699-BLK1	File ID:	10FEB04.D
Prepared:	02/08/17 12:21	Preparation:	RSK-175M	Initial/Final:	1 ml / 1 ml
Analyzed:	02/10/17 06:21	Instrument:	GC-V1		
Batch:	B[B0699	Sequence:	1702341	Calibration:	1702007

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
74-82-8	Methane	0.00060	0.00028	0.00060	0.0010	U
74-84-0	Ethane	0.0010	0.00075	0.0010	0.0020	U
74-85-1	Ethene	0.0010	0.00077	0.0010	0.0020	U

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LCS RECOVERY
RSK-175M

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0699
Laboratory ID: B[B0699-BS1
Preparation: RSK-175M
Initial/Final: 1 ml / 1 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Methane	0.010843	0.011395	105	73 - 125
Ethane	0.021736	0.024050	111	74 - 131
Ethene	0.028446	0.029770	105	72 - 133

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Methane	0.010843	0.010192	94.0	11.1	20	73 - 125
Ethane	0.021736	0.023723	109	1.37	20	74 - 131
Ethene	0.028446	0.029232	103	1.82	20	72 - 133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

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ANALYSIS BATCH (SEQUENCE) SUMMARY

RSK-175M

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Sequence:	1701454	Instrument:	GC-V1
Matrix:	Water	Calibration:	1702007

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1701454-CAL4	27JAN02.D	01/27/17 07:43
Cal Standard	1701454-CAL3	27JAN03.D	01/27/17 07:47
Cal Standard	1701454-CAL2	27JAN04.D	01/27/17 07:52
Cal Standard	1701454-CAL1	27JAN05.D	01/27/17 07:56
Initial Cal Check	1701454-ICV1	27JAN06.D	01/27/17 08:40
Initial Cal Blank	1701454-ICB1	27JAN07.D	01/27/17 08:45

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Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

RSK-175M

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Sequence:	1702341	Instrument:	GC-V1
Matrix:	Water	Calibration:	1702007

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	1702341-ICV1	27JAN06.D	01/27/17 08:40
Initial Cal Blank	1702341-ICB1	27JAN07.D	01/27/17 08:45
Calibration Check	1702341-CCV1	10FEB02.D	02/10/17 06:13
Calibration Blank	1702341-CCB1	10FEB03.D	02/10/17 06:17
Blank	B[B0699-BLK1	10FEB04.D	02/10/17 06:21
LCS	B[B0699-BS1	10FEB05.D	02/10/17 06:25
LCS Dup	B[B0699-BSD1	10FEB06.D	02/10/17 06:29
Calibration Check	1702341-CCV2	10FEB07.D	02/10/17 06:36
Calibration Blank	1702341-CCB2	10FEB08.D	02/10/17 07:08
27EW-12_170203	1703197-02	10FEB15.D	02/10/17 08:06
SMLS-01_170203	1703197-11	10FEB16.D	02/10/17 08:10
SMLS-07_170203	1703197-12	10FEB17.D	02/10/17 08:22
27MW06_170203	1703197-28	10FEB18.D	02/10/17 08:26
Calibration Check	1702341-CCV3	10FEB19.D	02/10/17 08:46
Calibration Blank	1702341-CCB3	10FEB20.D	02/10/17 08:51

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CONTINUING CALIBRATION CHECK

RSK-175M

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	GC-V1	Calibration:	1702007
Lab File ID:	27JAN06.D	Calibration Date:	01/27/17 07:43
Sequence:	1701454	Injection Date:	01/27/17
Lab Sample ID:	1701454-ICV1	Injection Time:	08:40

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Methane	A	10.843	12.174	605292.5	679565.1		12.3	15
Ethane	A	21.736	24.956	580938.9	666976.9		14.8	15
Ethene	A	28.446	31.820	402477.4	450214.1		11.9	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

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CONTINUING CALIBRATION CHECK

RSK-175M

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	GC-V1	Calibration:	1702007
Lab File ID:	27JAN06.D	Calibration Date:	01/27/17 07:43
Sequence:	1702341	Injection Date:	01/27/17
Lab Sample ID:	1702341-ICV1	Injection Time:	08:40

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Methane	A	10.843	12.174	605292.5	679565.1		12.3	15
Ethane	A	21.736	24.956	580938.9	666976.9		14.8	15
Ethene	A	28.446	31.820	402477.4	450214.1		11.9	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

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CONTINUING CALIBRATION CHECK

RSK-175M

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	GC-V1	Calibration:	1702007
Lab File ID:	10FEB02.D	Calibration Date:	01/27/17 07:43
Sequence:	1702341	Injection Date:	02/10/17
Lab Sample ID:	1702341-CCV1	Injection Time:	06:13

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Methane	A	10.843	11.615	605292.5	648366.7		7.1	15
Ethane	A	21.736	24.231	580938.9	647598		11.5	15
Ethene	A	28.446	30.300	402477.4	428710.9		6.5	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

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CONTINUING CALIBRATION CHECK

RSK-175M

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	GC-V1	Calibration:	1702007
Lab File ID:	10FEB07.D	Calibration Date:	01/27/17 07:43
Sequence:	1702341	Injection Date:	02/10/17
Lab Sample ID:	1702341-CCV2	Injection Time:	06:36

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Methane	A	10.843	11.118	605292.5	620620.6		2.5	15
Ethane	A	21.736	23.591	580938.9	630488.1		8.5	15
Ethene	A	28.446	29.346	402477.4	415217.6		3.2	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

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CONTINUING CALIBRATION CHECK

RSK-175M

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	GC-V1	Calibration:	1702007
Lab File ID:	10FEB19.D	Calibration Date:	01/27/17 07:43
Sequence:	1702341	Injection Date:	02/10/17
Lab Sample ID:	1702341-CCV3	Injection Time:	08:46

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Methane	A	10.843	11.754	605292.5	656127.5		8.4	15
Ethane	A	21.736	24.484	580938.9	654358.7		12.6	15
Ethene	A	28.446	31.235	402477.4	441940.5		9.8	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

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INITIAL CALIBRATION STANDARDS

RSK-175M

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Sequence:	1701454	Instrument:	GC-V1
Calibration:	1702007		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
7B07024	RSK-175M CAL4	1701454-CAL4	27JAN02.D	01/27/17 07:43
7B07023	RSK-175M CAL3	1701454-CAL3	27JAN03.D	01/27/17 07:47
7B07022	RSK-175M CAL2	1701454-CAL2	27JAN04.D	01/27/17 07:52
7B07021	RSK-175M CAL1	1701454-CAL1	27JAN05.D	01/27/17 07:56

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INITIAL CALIBRATION DATA
RSK-175M

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Calibration: 1702007
Matrix: Water

SDG: 17-03197
Project: Alameda
Instrument: GC-V1
Calibration Date: 01/27/17 07:43

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methane	1.0843	637975.6	10.843	692653.9	108.43	493653.4	542.15	596887				
Ethane	2.1736	586625.4	21.736	661756.1	217.36	501173.7	1086.8	574200.6				
Ethene	2.8446	439934.3	28.446	440075.9	284.46	333630.7	1422.3	396268.7				

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INITIAL CALIBRATION DATA (Continued)

RSK-175M

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Calibration: 1702007
Instrument: GC-V1
Matrix: Water
Calibration Date: 01/27/17 07:43

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Methane	605292.5	13.89925	0.73	1.372967E-02			20	
Ethane	580938.9	11.31896	2.0825	0.4599198			20	
Ethene	402477.4	12.50156	1.7325	0.5526404			20	

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Project Manager: Kelli Miller

HOLDING TIME SUMMARY
RSK-175M

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
27EW-12_170203	02/03/17 09:55	02/03/17 20:08	02/08/17 12:21	7.00	14.00	02/10/17 08:06	7.00	14.00	
SMLS-01_170203	02/03/17 08:55	02/03/17 20:08	02/08/17 12:21	7.00	14.00	02/10/17 08:10	7.00	14.00	
SMLS-07_170203	02/03/17 08:09	02/03/17 20:08	02/08/17 12:21	7.00	14.00	02/10/17 08:22	7.00	14.00	
27MW06_170203	02/03/17 13:24	02/03/17 20:08	02/08/17 12:21	7.00	14.00	02/10/17 08:26	7.00	14.00	

* Holding time not met

Note: If Prep or Analysis are performed within the hour (if holding time is based on hours) or within the day (if holding time is based on days), then the sample is not flagged as outside holding times. Calculated number of days are based on date received or date prepared depending on the test.

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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

Notes and Definitions

B	Blank contamination. The analyte is greater than 1/2 the PQL/LOQ/CRQL in the associated method blank.
D	The reported value is from a dilution.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration.
J	The reported value is an estimated value. Results are between the MDL and PQL/LOQ/CRQL.
U	The analyte was not detected and is reported as less than the LOD/MDL or as defined by the client.

BC LABORATORIES, INC.

Work Order Number: 1703197

Laboratory Documentation Requirements
For Data Validation of
Volatiles Analysis

Prepared By

BC Laboratories

For AMEC Environmental & Infrastructure

5023146096

All pages have been paginated and results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

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Case Narrative

Analyses Requested: 8260
Submission Number: 17-03197

Instrument ID: MS-V5
Model: HP5973/GC6890

Column Type: Rxi R-624 Sil MS 30m x 0.25mm ID, 1.4µm film thickness.

Samples were received refrigerated to <6°C upon arrival at BC Laboratories, Inc. Samples were checked for preservation. Where applicable, sample preservation was adjusted in the laboratory.

Holding Time: All analyses and extractions took place within holding times.

Calibration: Initial calibration criteria were met. Frequency and accuracy criteria for initial calibration verification (ICV) were met. Frequency and accuracy criteria for continuing calibration verification (CCV) were met except the recoveries for Bromomethane in 1702254-CCV1, 1702340-CCV1, 1702340-CCV3, 1702423-CCV1 and 1702423-CCV4 and the recovery for t-Butyl alcohol in 1702423-CCV5 were outside QC limits. Ending CCV criteria of fifty percent were met except the recovery for Bromomethane in 1702340-CCV5 was outside QC limits. Any compounds that were flagged, but not required, were not noted here.

Blanks: Method blanks were prepared and analyzed at the required frequency. No detection of analytes of interest took place at or above the PQL. Initial and continuing calibration blanks were analyzed at the required frequencies and on an as needed basis.

Laboratory Control Sample: Laboratory control sample analyses were performed at the required frequency. All parameters for the required compounds were met.

Matrix Spikes and Duplicates: Matrix spike analyses were performed at the required frequencies. All accuracy requirements for the requested compounds were met except in batch B[B0851 the matrix spike recoveries for Naphthalene and 1,2,4-Trimethylbenzene and the matrix spike duplicate recoveries for 1,3-Dichlorobenzene and 1,2,4-Trimethylbenzene and in batch B[B0960 the matrix spike recoveries for Naphthalene and 1,2,4-Trimethylbenzene and the matrix spike duplicate recoveries for Naphthalene and 1,2,3-Trichlorobenzene were outside QC limits.
All precision requirements were met.

Chain of Custody and Cooler Receipt Form for 1703197 Page 1 of 8

MWEC Group
9177 Sky Park Court
San Diego, CA
(858) 278-3600

SHIP TO:
BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Attn:
Lab Phone#

CHAIN OF CUSTODY

17-03197

DATE: 2/3/2017
COC #: COC170203
PAGE: 1 OF 3

Project Name:	Alameda Basewide	Project Contact:	Marina Mitchell	Bill To:	Amec Foster Wheeler	Disposal Instructions:	LAB
Project Number:	5023146098	Phone Number:	(503) 639-3400		9210 Sky Park Court, Suite 200	Shipment Method:	FEDEX
Project Manager:	Kevin Olness	Project Phase:	03.****		San Diego, CA 92123	Waybill Number:	N/A

Sample Information / Methods for Analysis

No.	Sample ID	Date & Time Sampled	Matrix	Sample Type	MS/MSD	VOCs (EPA 8260B)	VOCs - Short list Only (8260B)	Diss. Gases- (RSK175)	Anions- (EPA 300.0)	Alkalinity (EPA 310.2)	Sulfide (EPA 376.2)	TDS (EPA 160.1)	TOC (EPA 415.1)	24 Hour	48 Hour	72 Hour	5 Days	TOTAL BOTTLES	HOLD All Analyses
1	27EW-05_170203	02/03/17 08:40	WG	N	N	X													
2	27EW-12_170203	02/03/17 09:55	WG	N	N	X		X	X	X	X		X						
3	27EW-19_170203	02/03/17 08:00	WG	N	N	X													
4	27MW02_170203	02/03/17 09:18	WG	N	N	X													
5	DUP18_170203	02/03/17 09:55	WG	FD	N	X													
6	M10B-01_170203	02/03/17 08:30	WG	N	N		X												
7	MW4-2-1_170203	02/03/17 09:35	WG	N	N	X													
8	MW4-2-18_170203	02/03/17 08:30	WG	N	N	X													
9	MW530-1_170203	02/03/17 09:20	WG	N	N		X												
10	S4-TT-MW02A_170203	02/03/17 09:48	WG	N	N	X													
11	SMLS-01_170203	02/03/17 08:55	WG	N	N	X		X	X	X	X	X							
12	SMLS-07_170203	02/03/17 08:09	WG	N	N	X		X	X	X	X	X							

SHORT HOLDING TIME
Cr^{+6} NO_2 NO_3 OP SS
DO Cl_2 BOD MBAS COT

CHK BY DISTRIBUTION
SUB-OUT

Sampler's Signature:	Date: 2/3/17	Time: 16:40	
Relinquished By/Affiliation:	Date: 2/3/17	Time: 16:60	
Received By:	Date: 2/3/17	Time: 16:60	
Relinquished By/Affiliation:	Date: 2-3-17	Time: 1730	
Received By:	Date: 2/3/17	Time: 17:30	
Relinquished By/Affiliation:	Date: 2/3/17	Time: 2008	
Received By (LAB):	Date: 2/3	Time: 2008	

For Lab Use

Does COC match samples:	Y or N
Broken Container:	Y or N
COC seal intact:	Y or N
Other problems:	Y or N
WSDOT contacted:	Y or N
Date contacted:	
Cooler Temperature at receipt:	°C

Comments:
X=Analyze H=Hold Analysis Request

Report DL/LOD/LOQ with Navy NIRIS valid values

VOC short list is Benzene & Ethylbenzene only
Major Cations are Na, K, Ca, Mg

NUMBER OF COOLERS SENT:

MMEC Group
9177 Sky Park Court
San Diego, CA
(858) 278-3600

SHIP TO:
BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Attn:
Lab Phone#

CHAIN OF CUSTODY

17-03197

DATE: 2/3/2017
COC #: COC170203
PAGE: 2 OF 3

Project Name:	Alameda Basewide	Project Contact:	Marina Mitchell	Bill To:	Amec Foster Wheeler	Disposal Instructions:	LAB
Project Number:	5023146095	Phone Number:	(503) 639-3400		9210 Sky Park Court, Suite 200	Shipment Method:	FEDEX
Project Manager:	Kevin Olness	Project Phase:	03.****		San Diego, CA 92123	Waybill Number:	N/A

Sample Information / Methods for Analysis / RUSH

No.	Sample ID	Date & Time Sampled	Matrix	Sample Type	MS/MSD	VOCs (EPA 8260B)	VOCs - Short list Only (8260B)	Diss. Gases- (RSK175)	Anions- (EPA 300.0)	Alkalinity (EPA 310.2)	Sulfide (EPA 376.2)	TDS (EPA 160.1)	TOC (EPA 415.1)	24 Hour	48 Hour	72 Hour	5 Days	TOTAL BOTTLES	HOLD All Analysis
1	26MW08_170203 -13	02/03/17 11:25	WG	N	N	X			X	X	X	X							
2	27EW-15_170203 -14	02/03/17 10:40	WG	N	N	X													
3	27EW-20_170203 -15	02/03/17 11:23	WG	N	N	X													
4	DUP12_170203 -16	02/03/17 11:28	WG	FD	N	X													
5	M04-05_170203 -17	02/03/17 10:05	WG	N	N	X													
6	M13-07_170203 -18	02/03/17 11:25	WG	N	N		X												
7	MW530-2_170203 -19	02/03/17 10:45	WG	N	N		X												
8	S4-TT-MW02B_170203 -20	02/03/17 10:41	WG	N	N	X													
9	S4-TT-MW02C_170203 -21	02/03/17 10:12	WG	N	N	X													
10	S4-TT-MW02D_170203 -22	02/03/17 11:14	WG	N	N	X													
11	TB11_170203 -23	02/03/17 12:00	WQ	TB	N	X													
12	TB12_170203 -24	02/03/17 12:15	WQ	TB	N	X													

Sampler's Signature:		Date: 2/3/17	Time: 16:60
Relinquished By/Affiliation:		Date: 2/3/17	Time: 16:60
Received By:		Date: 2/3/17	Time: 16:60
Relinquished By/Affiliation:		Date: 2-3-17	Time: 1730
Received By:		Date: 2/3/17	Time: 1730
Relinquished By/Affiliation:		Date: 2/3/17	Time: 2008
Received By (LAB):		Date: 2/3	Time: 2008

For Lab Use

Does COC match samples:	Y or N
Broken Container:	Y or N
COC seal intact:	Y or N
Other problems:	Y or N
WSDOT contacted:	Y or N
Date contacted:	
Cooler Temperature at receipt:	____ °C

Comments:
X=Analyze H=Hold Analysis Request

Report DL/LOD/LOQ with Navy NIRIS valid values

VOC short list is Benzene & Ethylbenzene only
Major Cations are Na, K, Ca, Mg

NUMBER OF COOLERS SENT:

CHAIN OF CUSTODY

1703197

DATE: 2/3/2017
COC #: COC170203
PAGE: 3 OF 3

MMEC Group
9177 Sky Park Court
San Diego, CA
(858) 278-3600

SHIP TO:
BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Attn:
Lab Phone#

Project Name:	Alameda Basewide	Project Contact:	Marina Mitchell	Bill To:	Amec Foster Wheeler	Disposal Instructions:	LAB
Project Number:	5023146096	Phone Number:	(503) 839-3400		9210 Sky Park Court, Suite 200	Shipment Method:	FEDEX
Project Manager:	Kevin Olness	Project Phase:	03-****		San Diego, CA 92123	Waybill Number:	N/A

Sample Information / Methods for Analysis

No.	Sample ID	Date & Time Sampled	Matrix	Sample Type	MS/MSD	VOCs (EPA 8260B)	VOCs - Short list Only (8260B)	Diss. Gases- (RSK175)	Anions- (EPA 300.0)	Alkalinity (EPA 310.2)	Sulfide (EPA 376.2)	TDS (EPA 160.1)	TOC (EPA 415.1)	RUSH 24 Hour	RUSH 48 Hour	RUSH 72 Hour	RUSH 5 Days	TOTAL BOTTLES	HOLD All Analyses
1	26MW03_170203 -25	02/03/17 12:30	WG	N	N	X			X	X	X	X							
2	26PZ01_170203 -26	02/03/17 13:36	WG	N	Y	X			X	X	X	X							
3	26PZ03_170203 -27	02/03/17 13:01	WG	N	N	X			X	X	X	X							
4	27MW06_170203 -28	02/03/17 13:24	WG	N	N	X		X	X	X	X		X						
5	DUP07_170203 -29	02/03/17 13:05	WG	FD	N		X												
6	EB20_170203 -30	02/03/17 14:00	WQ	EB	N	X													
7	EB21_170203 -31	02/03/17 14:10	WQ	EB	N	X													
8	EB22_170203 -32	02/03/17 14:20	WQ	EB	N		X												
9	EB23_170203 -33	02/03/17 14:30	WQ	EB	N	X													
10	M13-09_170203 -34	02/03/17 13:00	WG	N	N		X												
11	MWOR-4_170203 -35	02/03/17 13:50	WG	N	N		X												
12																			

Sampler's Signature:	Date: 2/3/17	Time: 16:40
Relinquished By/Affiliation:	Date: 2/3/17	Time: 16:40
Received By:	Date: 2/3/17	Time: 16:40
Relinquished By/Affiliation:	Date: 2-3-17	Time: 173
Received By:	Date: 2/3/17	Time: 1730
Relinquished By/Affiliation:	Date: 2/3/17	Time: 2008
Received By (LAB):	Date: 2/3	Time: 2008

For Lab Use

Does COC match samples:	Y or N
Broken Container:	Y or N
COC seal intact:	Y or N
Other problems:	Y or N
WSDOT contacted:	Y or N
Date contacted:	
Cooler Temperature at receipt:	°C

Comments:
X=Analyze H=Hold Analysis Request

Report DL/LOD/LOQ with Navy NIRIS valid values

VOC short list is Benzene & Ethylbenzene only
Major Cations are Na, K, Ca, Mg

NUMBER OF COOLERS SENT:

Chain of Custody and Cooler Receipt Form for 1703197 Page 4 of 8

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 5

Submission #: 17-03197

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐	Ice Chest ☒ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____	Other ☐ (Specify)_____	W / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: VOA Thermometer ID: 207 Date/Time 2/3 20:16

Temperature: (A) 2.7 °C / (C) 2.9 °C Analyst Init GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2 13	3 14	17	18	6	11	12	13	14
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- ~~504~~ RSK		DEF					DEF	DEF		
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: _____ Date/Time 2/3/17 2124

A = Actual / C = Corrected

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Chain of Custody and Cooler Receipt Form for 1703197 Page 5 of 8

BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 5

Submission #: 17-03197

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐
(W) / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: VOA Thermometer ID: 207 Date/Time 2/3 20:16
Temperature: (A) 2.7 °C / (C) 2.9 °C Analyst Init GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	15	17	18	19	20	21	22	23	25	65
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK								AB		
40ml VOA VIAL	ABC	ABC	ABC	ABC	ABC	ABC	ABC		ABC	ABC
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:
Sample Numbering Completed By: AU Date/Time: 2/3/17 2128 Rev 21 05/23/2016

Chain of Custody and Cooler Receipt Form for 1703197 Page 6 of 8

BC LABORATORIES INC. COOLER RECEIPT FORM Page 3 Of 5

Submission #: 17-03197

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐	Ice Chest ☒ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____	Other ☐ (Specify)_____	(W) / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: VOA Thermometer ID: 207 Date/Time 2/3 20:16

Temperature: (A) 2.7 °C / (C) 2.9 °C Analyst Init GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS 16	19	28	31	33	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	ABC	ABC	ABC	ABC	ABC					
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL ~~504~~ RSK			VTGF							
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: M Date/Time: 2-3-17 Rev 21 05/23/2016

A = Actual / C = Corrected

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Chain of Custody and Cooler Receipt Form for 1703197 Page 7 of 8

BC LABORATORIES INC. COOLER RECEIPT FORM Page 4 Of 5

Submission #: 17-03197

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐	Ice Chest ☒ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____	Other ☐ (Specify)_____	(W) / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: PE Thermometer ID: 207 Date/Time 2/3 20:16

Temperature: (A) 0.1 °C / (C) 0.4 °C Analyst Init GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	124	126	127	129	130	132	134	135	9	10
QT PE UNPRES		JKC								
4oz / 8oz / 16oz PE UNPRES			DR		/					
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE		MNO	F							
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	AB	r								
40ml VOA VIAL		ABC	ABC	ABC	ABC	ABC	ABC	ABC		
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: AA Date/Time: 2-3-17 2143

A = Actual / C = Corrected

Rev 21 05/23/2016
(S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC.rev 20)

Chain of Custody and Cooler Receipt Form for 1703197 Page 8 of 8

BC LABORATORIES INC. COOLER RECEIPT FORM Page 5 of 5

Submission #: 17-03197

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐
W / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: VOA Thermometer ID: 207 Date/Time 2/3 20:16
Temperature: (A) 1.5 °C / (C) 1.7 °C Analyst Init GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	12	11	12	13	25	28	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES	G	GH	GH	GH	DE	G				
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE	H	I	I	J	F	H				
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON	I					I				
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:
Sample Numbering Completed By: Date/Time: 2-3-17 1155
A = Actual / C = Corrected

Rev 21 05/23/2016
(S:\WPDocs\WordPerfect\LAB_DOCS\FORMS\SAMREC\rv 20)

AMEC Environmental & Infrastructure 9210 Sky Park Court #200 San Diego, CA 92123	Reported: 3/7/2017 3:25:11PM Project: Alameda Project Number: 5023146096 Project Manager: Kelli Miller

BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Phone: 661-327-4911

SDG:	**17-03197**
Class:	**VOA**
Method:	**EPA-8260B**

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSES DATA PACKAGE COVER PAGE

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
27EW-05_170203	1703197-01
27EW-12_170203	1703197-02
27EW-19_170203	1703197-03
27MW02_170203	1703197-04
DUP18_170203	1703197-05
DUP18_170203	1703197-05RE1
M10B-01_170203	1703197-06
MW4-2-1_170203	1703197-07
MW4-2-18_170203	1703197-08
MW530-1_170203	1703197-09
S4-TT-MW02A_170203	1703197-10
S4-TT-MW02A_170203	1703197-10RE1
SMLS-01_170203	1703197-11
SMLS-01_170203	1703197-11RE1
SMLS-07_170203	1703197-12
26MW08_170203	1703197-13
27EW-15_170203	1703197-14
27EW-20_170203	1703197-15
DUP12_170203	1703197-16
M04-05_170203	1703197-17
M13-07_170203	1703197-18
MW530-2_170203	1703197-19
S4-TT-MW02B_170203	1703197-20
S4-TT-MW02C_170203	1703197-21
S4-TT-MW02C_170203	1703197-21RE1
S4-TT-MW02D_170203	1703197-22
TB11_170203	1703197-23
TB12_170203	1703197-24
26MW03_170203	1703197-25
26PZ01_170203	1703197-26
26PZ03_170203	1703197-27
27MW06_170203	1703197-28
DUP07_170203	1703197-29
EB20_170203	1703197-30

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

EB21_170203	1703197-31
EB22_170203	1703197-32
EB23_170203	1703197-33
M13-09_170203	1703197-34
MWOR-4_170203	1703197-35

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Sara Guron

Name: Sara Guron

Date: 03-07-2017

Title: QA/QC Manager

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD DETECTION AND REPORTING LIMITS

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Instrument: MS-V5

Analyte	DL	LOD	LOQ	Units
Benzene	0.083	0.16	0.50	ug/L
Bromobenzene	0.13	0.16	0.50	ug/L
Bromochloromethane	0.24	0.30	1.0	ug/L
Bromodichloromethane	0.14	0.30	0.50	ug/L
Bromoform	0.27	0.30	0.60	ug/L
Bromomethane	0.25	0.25	0.60	ug/L
n-Butylbenzene	0.11	0.16	0.50	ug/L
sec-Butylbenzene	0.15	0.16	0.50	ug/L
tert-Butylbenzene	0.13	0.16	0.50	ug/L
Carbon tetrachloride	0.18	0.20	0.50	ug/L
Chlorobenzene	0.093	0.16	0.50	ug/L
Chloroethane	0.14	0.16	0.50	ug/L
Chloroform	0.12	0.16	0.50	ug/L
Chloromethane	0.14	0.16	0.50	ug/L
2-Chlorotoluene	0.20	0.20	0.50	ug/L
4-Chlorotoluene	0.15	0.16	0.50	ug/L
Dibromochloromethane	0.13	0.16	0.50	ug/L
1,2-Dibromo-3-chloropropane	0.44	0.50	1.0	ug/L
1,2-Dibromoethane	0.16	0.16	0.50	ug/L
Dibromomethane	0.24	0.30	1.0	ug/L
1,2-Dichlorobenzene	0.072	0.16	0.50	ug/L
1,3-Dichlorobenzene	0.15	0.16	0.50	ug/L
1,4-Dichlorobenzene	0.062	0.16	0.50	ug/L
Dichlorodifluoromethane	0.099	0.16	0.50	ug/L
1,1-Dichloroethane	0.11	0.16	0.50	ug/L
1,2-Dichloroethane	0.17	0.20	0.50	ug/L
1,1-Dichloroethene	0.18	0.20	0.50	ug/L
cis-1,2-Dichloroethene	0.085	0.16	0.50	ug/L
trans-1,2-Dichloroethene	0.15	0.16	0.50	ug/L
1,2-Dichloropropane	0.13	0.16	0.50	ug/L

AMEC Environmental & Infrastructure
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Project Number: 5023146096
Project Manager: Kelli Miller

METHOD DETECTION AND REPORTING LIMITS

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Instrument: MS-V5

Analyte	DL	LOD	LOQ	Units
1,3-Dichloropropane	0.086	0.16	0.50	ug/L
2,2-Dichloropropane	0.13	0.16	0.50	ug/L
1,1-Dichloropropene	0.085	0.16	0.50	ug/L
cis-1,3-Dichloropropene	0.14	0.16	0.50	ug/L
trans-1,3-Dichloropropene	0.079	0.16	0.50	ug/L
Ethylbenzene	0.098	0.16	0.50	ug/L
Hexachlorobutadiene	0.17	0.20	0.50	ug/L
Isopropylbenzene	0.14	0.16	0.50	ug/L
p-Isopropyltoluene	0.12	0.16	0.50	ug/L
Methylene chloride	0.48	0.50	1.0	ug/L
Methyl t-butyl ether	0.11	0.16	0.50	ug/L
Naphthalene	0.36	0.40	0.50	ug/L
n-Propylbenzene	0.11	0.16	0.50	ug/L
Styrene	0.068	0.16	0.50	ug/L
1,1,1,2-Tetrachloroethane	0.18	0.20	0.50	ug/L
1,1,2,2-Tetrachloroethane	0.17	0.20	0.50	ug/L
Tetrachloroethene	0.13	0.16	0.50	ug/L
Toluene	0.093	0.16	0.50	ug/L
1,2,3-Trichlorobenzene	0.16	0.16	0.50	ug/L
1,2,4-Trichlorobenzene	0.19	0.20	0.50	ug/L
1,1,1-Trichloroethane	0.11	0.16	0.50	ug/L
1,1,2-Trichloroethane	0.16	0.16	0.50	ug/L
Trichloroethene	0.085	0.16	0.50	ug/L
Trichlorofluoromethane	0.13	0.16	0.50	ug/L
1,2,3-Trichloropropane	0.24	0.33	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	0.15	0.16	0.50	ug/L
1,2,4-Trimethylbenzene	0.12	0.16	0.50	ug/L
1,3,5-Trimethylbenzene	0.12	0.16	0.50	ug/L
Vinyl chloride	0.12	0.16	0.50	ug/L
Total Xylenes	0.36	0.46	1.0	ug/L

AMEC Environmental & Infrastructure
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San Diego, CA 92123

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Project Number: 5023146096
Project Manager: Kelli Miller

METHOD DETECTION AND REPORTING LIMITS

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Instrument: MS-V5

Analyte	DL	LOD	LOQ	Units
Acetone	4.6	5.0	10	ug/L
Acetonitrile	5.5	6.0	10	ug/L
Allyl chloride	0.80	1.0	5.0	ug/L
t-Amyl Methyl ether	0.25	0.30	0.50	ug/L
Benzyl chloride	0.60	0.60	1.0	ug/L
t-Butyl alcohol	9.4	10	12	ug/L
Carbon disulfide	0.38	0.40	1.0	ug/L
Chloroprene	0.37	1.0	5.0	ug/L
Diisopropyl ether	0.23	0.30	0.50	ug/L
Ethyl t-butyl ether	0.18	0.20	0.50	ug/L
2-Hexanone	3.4	4.0	10	ug/L
Methyl ethyl ketone	2.5	3.0	10	ug/L
Methyl isobutyl ketone	2.1	3.0	10	ug/L
Vinyl acetate	1.8	6.0	20	ug/L
p- & m-Xylenes	0.28	0.30	0.50	ug/L
o-Xylene	0.082	0.16	0.50	ug/L

AMEC Environmental & Infrastructure
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San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27EW-05_170203

Laboratory:	BC Laboratories			SDG:	17-03197		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703197-01			File ID:	10FEB14.D
Sampled:	02/03/17 08:40	Prepared:	02/09/17 13:37			Analyzed:	02/10/17 11:06
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.68	0.093	0.16	0.50	
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	3.3	0.072	0.16	0.50	
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.27	0.062	0.16	0.50	J
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	28	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	2.0	0.15	0.16	0.50	
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27EW-05_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-01	File ID:	10FEB14.D
Sampled:	02/03/17 08:40	Prepared:	02/09/17 13:37	Analyzed:	02/10/17 11:06
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	3.4	0.085	0.16	0.50	
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	4.3	0.12	0.16	0.50	
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	15	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27EW-05_170203

Laboratory:	BC Laboratories			SDG:	17-03197		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703197-01	File ID:	10FEB14.D		
Sampled:	02/03/17 08:40	Prepared:	02/09/17 13:37	Analyzed:	02/10/17 11:06		
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml		
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.530	105	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.6800	96.8	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.8900	98.9	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	187692	6.58	187920	6.58	
Chlorobenzene-d5 (IS)	63565	9.62	66125	9.62	
1,4-Difluorobenzene (IS)	254155	7.39	261715	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27EW-12_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-02	File ID:	10FEB15.D
Sampled:	02/03/17 09:55	Prepared:	02/09/17 13:37	Analyzed:	02/10/17 11:29
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	2.7	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27EW-12_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-02	File ID:	10FEB15.D
Sampled:	02/03/17 09:55	Prepared:	02/09/17 13:37	Analyzed:	02/10/17 11:29
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.27	0.085	0.16	0.50	J
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.29	0.12	0.16	0.50	J
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	15	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27EW-12_170203

Laboratory:	BC Laboratories			SDG:	17-03197		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703197-02	File ID:	10FEB15.D		
Sampled:	02/03/17 09:55	Prepared:	02/09/17 13:37	Analyzed:	02/10/17 11:29		
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml		
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.490	105	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.8400	98.4	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.5500	95.5	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	188320	6.58	187920	6.58	
Chlorobenzene-d5 (IS)	63358	9.62	66125	9.62	
1,4-Difluorobenzene (IS)	246641	7.39	261715	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27EW-19_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-03	File ID:	10FEB16.D
Sampled:	02/03/17 08:00	Prepared:	02/09/17 13:37	Analyzed:	02/10/17 11:53
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.17	0.15	0.16	0.50	J
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.32	0.093	0.16	0.50	J
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	4.0	0.072	0.16	0.50	
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.61	0.062	0.16	0.50	
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	2.8	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27EW-19_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-03	File ID:	10FEB16.D
Sampled:	02/03/17 08:00	Prepared:	02/09/17 13:37	Analyzed:	02/10/17 11:53
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	1.3	0.085	0.16	0.50	
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.43	0.12	0.16	0.50	J
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	15	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27EW-19_170203

Laboratory:	BC Laboratories			SDG:	17-03197		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703197-03	File ID:	10FEB16.D		
Sampled:	02/03/17 08:00	Prepared:	02/09/17 13:37	Analyzed:	02/10/17 11:53		
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml		
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.040	100	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.9300	99.3	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.1500	91.5	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	192694	6.58	187920	6.58	
Chlorobenzene-d5 (IS)	64052	9.62	66125	9.62	
1,4-Difluorobenzene (IS)	259565	7.39	261715	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW02_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-04	File ID:	10FEB17.D
Sampled:	02/03/17 09:18	Prepared:	02/09/17 13:37	Analyzed:	02/10/17 12:16
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.16	0.085	0.16	0.50	U
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW02_170203

Laboratory:	BC Laboratories			SDG:	17-03197		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703197-04			File ID:	10FEB17.D
Sampled:	02/03/17 09:18	Prepared:	02/09/17 13:37			Analyzed:	02/10/17 12:16
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.75	0.13	0.16	0.50	
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	15	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW02_170203

Laboratory:	BC Laboratories			SDG:	17-03197		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703197-04	File ID:	10FEB17.D		
Sampled:	02/03/17 09:18	Prepared:	02/09/17 13:37	Analyzed:	02/10/17 12:16		
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml		
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.500	105	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.7100	97.1	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.5600	95.6	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	184769	6.58	187920	6.58	
Chlorobenzene-d5 (IS)	59466	9.62	66125	9.62	
1,4-Difluorobenzene (IS)	247883	7.39	261715	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

DUP18_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-05	File ID:	10FEB18.D
Sampled:	02/03/17 09:55	Prepared:	02/09/17 13:37	Analyzed:	02/10/17 12:39
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	1.3	0.093	0.16	0.50	
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	2.9	0.072	0.16	0.50	
541-73-1	1,3-Dichlorobenzene	1	0.26	0.15	0.16	0.50	J
106-46-7	1,4-Dichlorobenzene	1	2.0	0.062	0.16	0.50	
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.17	0.11	0.16	0.50	J
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	3.4	0.18	0.20	0.50	
156-59-2	cis-1,2-Dichloroethene	1	69	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	16	0.15	0.16	0.50	
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

DUP18_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-05	File ID:	10FEB18.D
Sampled:	02/03/17 09:55	Prepared:	02/09/17 13:37	Analyzed:	02/10/17 12:39
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.18	0.13	0.16	0.50	J
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	8.0	0.12	0.16	0.50	
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	15	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.87	0.23	0.30	0.50	
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

DUP18_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-05	File ID:	10FEB18.D
Sampled:	02/03/17 09:55	Prepared:	02/09/17 13:37	Analyzed:	02/10/17 12:39
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	11.350	114	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.7200	97.2	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.4600	94.6	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	170942	6.58	187920	6.58	
Chlorobenzene-d5 (IS)	63259	9.63	66125	9.62	
1,4-Difluorobenzene (IS)	233116	7.39	261715	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

DUP18_170203

Laboratory:	BC Laboratories			SDG:	17-03197		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703197-05RE1	File ID:	12FEB30.D		
Sampled:	02/03/17 09:55	Prepared:	02/09/17 13:37	Analyzed:	02/12/17 16:16		
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml		
Batch:	B[B0851	Sequence:	1702423	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
79-01-6	Trichloroethene	10	410	0.85	1.6	5.0	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.060	101	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.3300	93.3	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	10.220	102	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	209945	6.58	204871	6.58	
Chlorobenzene-d5 (IS)	67294	9.62	66742	9.62	
1,4-Difluorobenzene (IS)	288912	7.39	270832	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M10B-01_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-06	File ID:	10FEB27.D
Sampled:	02/03/17 08:30	Prepared:	02/09/17 13:37	Analyzed:	02/10/17 16:25
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.470	105	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.6100	96.1	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	10.020	100	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	216201	6.58	187920	6.58	
Chlorobenzene-d5 (IS)	67432	9.62	66125	9.62	
1,4-Difluorobenzene (IS)	286024	7.39	261715	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW4-2-1_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-07	File ID:	10FEB28.D
Sampled:	02/03/17 09:35	Prepared:	02/09/17 13:37	Analyzed:	02/10/17 16:48
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.43	0.083	0.16	0.50	J
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.18	0.14	0.16	0.50	J
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	18	0.11	0.16	0.50	
107-06-2	1,2-Dichloroethane	1	1.0	0.17	0.20	0.50	
75-35-4	1,1-Dichloroethene	1	98	0.18	0.20	0.50	
156-59-2	cis-1,2-Dichloroethene	1	5.7	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	1.4	0.15	0.16	0.50	
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW4-2-1_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-07	File ID:	10FEB28.D
Sampled:	02/03/17 09:35	Prepared:	02/09/17 13:37	Analyzed:	02/10/17 16:48
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.40	0.16	0.16	0.50	J
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	J
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	24	0.12	0.16	0.50	
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	15	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW4-2-1_170203

Laboratory:	BC Laboratories			SDG:	17-03197		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703197-07		File ID:	10FEB28.D	
Sampled:	02/03/17 09:35	Prepared:	02/09/17 13:37		Analyzed:	02/10/17 16:48	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.6700	96.7	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.9700	99.7	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	10.000	100	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	218194	6.59	187920	6.58	
Chlorobenzene-d5 (IS)	68065	9.62	66125	9.62	
1,4-Difluorobenzene (IS)	282938	7.39	261715	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW4-2-18_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-08	File ID:	10FEB41.D
Sampled:	02/03/17 08:30	Prepared:	02/09/17 13:37	Analyzed:	02/10/17 21:51
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.65	0.11	0.16	0.50	
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.16	0.085	0.16	0.50	U
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
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Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW4-2-18_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-08	File ID:	10FEB41.D
Sampled:	02/03/17 08:30	Prepared:	02/09/17 13:37	Analyzed:	02/10/17 21:51
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.41	0.12	0.16	0.50	J
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	15	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW4-2-18_170203

Laboratory:	BC Laboratories			SDG:	17-03197		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703197-08	File ID:	10FEB41.D		
Sampled:	02/03/17 08:30	Prepared:	02/09/17 13:37	Analyzed:	02/10/17 21:51		
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml		
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.600	106	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.4700	94.7	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.6900	96.9	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	204538	6.58	207704	6.58	
Chlorobenzene-d5 (IS)	66865	9.62	70199	9.62	
1,4-Difluorobenzene (IS)	280015	7.39	285480	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW530-1_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-09	File ID:	10FEB42.D
Sampled:	02/03/17 09:20	Prepared:	02/09/17 13:37	Analyzed:	02/10/17 22:15
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.570	106	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.5600	95.6	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	10.230	102	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	197215	6.59	207704	6.58	
Chlorobenzene-d5 (IS)	62333	9.62	70199	9.62	
1,4-Difluorobenzene (IS)	260370	7.39	285480	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S4-TT-MW02A_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-10	File ID:	10FEB43.D
Sampled:	02/03/17 09:48	Prepared:	02/09/17 13:37	Analyzed:	02/10/17 22:38
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	1.2	0.093	0.16	0.50	
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	2.8	0.072	0.16	0.50	
541-73-1	1,3-Dichlorobenzene	1	0.32	0.15	0.16	0.50	J
106-46-7	1,4-Dichlorobenzene	1	1.8	0.062	0.16	0.50	
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	2.8	0.18	0.20	0.50	
156-59-2	cis-1,2-Dichloroethene	1	61	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	14	0.15	0.16	0.50	
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure
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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S4-TT-MW02A_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-10	File ID:	10FEB43.D
Sampled:	02/03/17 09:48	Prepared:	02/09/17 13:37	Analyzed:	02/10/17 22:38
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.17	0.13	0.16	0.50	J
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	6.9	0.12	0.16	0.50	
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	15	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.89	0.23	0.30	0.50	
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S4-TT-MW02A_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-10	File ID:	10FEB43.D
Sampled:	02/03/17 09:48	Prepared:	02/09/17 13:37	Analyzed:	02/10/17 22:38
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.480	105	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.9300	99.3	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	10.020	100	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	203064	6.58	207704	6.58	
Chlorobenzene-d5 (IS)	67252	9.62	70199	9.62	
1,4-Difluorobenzene (IS)	265042	7.39	285480	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S4-TT-MW02A_170203

Laboratory:	BC Laboratories			SDG:	17-03197		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703197-10RE1	File ID:	12FEB51.D		
Sampled:	02/03/17 09:48	Prepared:	02/09/17 13:37	Analyzed:	02/13/17 00:22		
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml		
Batch:	B[B0851	Sequence:	1702423	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
79-01-6	Trichloroethene	10	430	0.85	1.6	5.0	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.9100	99.1	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.110	101	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	10.270	103	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	212979	6.58	209784	6.58	
Chlorobenzene-d5 (IS)	66754	9.62	67298	9.62	
1,4-Difluorobenzene (IS)	266614	7.39	280430	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

SMLS-01_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-11	File ID:	10FEB44.D
Sampled:	02/03/17 08:55	Prepared:	02/09/17 13:37	Analyzed:	02/10/17 23:01
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	37	0.093	0.16	0.50	
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	20	0.072	0.16	0.50	
541-73-1	1,3-Dichlorobenzene	1	0.78	0.15	0.16	0.50	
106-46-7	1,4-Dichlorobenzene	1	6.3	0.062	0.16	0.50	
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	2.5	0.11	0.16	0.50	
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.72	0.18	0.20	0.50	
156-60-5	trans-1,2-Dichloroethene	1	1.1	0.15	0.16	0.50	
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

SMLS-01_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-11	File ID:	10FEB44.D
Sampled:	02/03/17 08:55	Prepared:	02/09/17 13:37	Analyzed:	02/10/17 23:01
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.38	0.093	0.16	0.50	J
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	3.3	0.085	0.16	0.50	
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.32	0.12	0.16	0.50	J
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	15	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.39	0.28	0.30	0.50	J
95-47-6	o-Xylene	1	0.26	0.082	0.16	0.50	J

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

SMLS-01_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-11	File ID:	10FEB44.D
Sampled:	02/03/17 08:55	Prepared:	02/09/17 13:37	Analyzed:	02/10/17 23:01
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.7600	97.6	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.7200	97.2	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.6800	96.8	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	210157	6.58	207704	6.58	
Chlorobenzene-d5 (IS)	68191	9.62	70199	9.62	
1,4-Difluorobenzene (IS)	277009	7.39	285480	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

SMLS-01_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-11RE1	File ID:	12FEB52.D
Sampled:	02/03/17 08:55	Prepared:	02/09/17 13:37	Analyzed:	02/13/17 00:45
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0851	Sequence:	1702423	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
156-59-2	cis-1,2-Dichloroethene	10	270	0.85	1.6	5.0	D
75-01-4	Vinyl chloride	10	390	1.2	1.6	5.0	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	11.020	110	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.8400	98.4	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.6400	96.4	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	204360	6.58	209784	6.58	
Chlorobenzene-d5 (IS)	64286	9.62	67298	9.62	
1,4-Difluorobenzene (IS)	267907	7.39	280430	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

SMLS-07_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-12
File ID: 10FEB45.D
Sampled: 02/03/17 08:09
Prepared: 02/09/17 13:37
Analyzed: 02/10/17 23:24
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[B0851
Sequence: 1702340
Calibration: 1702011
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	47	0.093	0.16	0.50	
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	15	0.072	0.16	0.50	
541-73-1	1,3-Dichlorobenzene	1	0.74	0.15	0.16	0.50	
106-46-7	1,4-Dichlorobenzene	1	6.3	0.062	0.16	0.50	
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	1.2	0.11	0.16	0.50	
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	1.2	0.18	0.20	0.50	
156-59-2	cis-1,2-Dichloroethene	1	34	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	0.19	0.15	0.16	0.50	J
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

SMLS-07_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-12	File ID:	10FEB45.D
Sampled:	02/03/17 08:09	Prepared:	02/09/17 13:37	Analyzed:	02/10/17 23:24
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.30	0.093	0.16	0.50	J
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.43	0.085	0.16	0.50	J
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	33	0.12	0.16	0.50	
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	15	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

SMLS-07_170203

Laboratory:	BC Laboratories			SDG:	17-03197		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703197-12		File ID:	10FEB45.D	
Sampled:	02/03/17 08:09	Prepared:	02/09/17 13:37		Analyzed:	02/10/17 23:24	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.080	101	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.6400	96.4	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	10.240	102	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	206711	6.58	207704	6.58	
Chlorobenzene-d5 (IS)	62638	9.62	70199	9.62	
1,4-Difluorobenzene (IS)	270028	7.39	285480	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

26MW08_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-13	File ID:	10FEB46.D
Sampled:	02/03/17 11:25	Prepared:	02/09/17 13:37	Analyzed:	02/10/17 23:48
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.60	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	0.18	0.15	0.16	0.50	J
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

26MW08_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-13	File ID:	10FEB46.D
Sampled:	02/03/17 11:25	Prepared:	02/09/17 13:37	Analyzed:	02/10/17 23:48
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.31	0.12	0.16	0.50	J
67-64-1	Acetone	1	13	4.6	5.0	10	
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	15	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

26MW08_170203

Laboratory:	BC Laboratories			SDG:	17-03197		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703197-13		File ID:	10FEB46.D	
Sampled:	02/03/17 11:25	Prepared:	02/09/17 13:37		Analyzed:	02/10/17 23:48	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	11.100	111	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.9800	99.8	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	10.040	100	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	199678	6.58	207704	6.58	
Chlorobenzene-d5 (IS)	63737	9.62	70199	9.62	
1,4-Difluorobenzene (IS)	264658	7.39	285480	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27EW-15_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-14	File ID:	10FEB47.D
Sampled:	02/03/17 10:40	Prepared:	02/09/17 13:37	Analyzed:	02/11/17 00:11
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	5.6	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27EW-15_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-14
File ID: 10FEB47.D
Sampled: 02/03/17 10:40
Prepared: 02/09/17 13:37
Analyzed: 02/11/17 00:11
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[B0851
Sequence: 1702340
Calibration: 1702011
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	1.6	0.13	0.16	0.50	
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	1.8	0.085	0.16	0.50	
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	15	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27EW-15_170203

Laboratory:	BC Laboratories			SDG:	17-03197		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703197-14		File ID:	10FEB47.D	
Sampled:	02/03/17 10:40	Prepared:	02/09/17 13:37		Analyzed:	02/11/17 00:11	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[B0851	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.120	101	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.7100	97.1	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	10.040	100	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	206176	6.58	207704	6.58	
Chlorobenzene-d5 (IS)	63220	9.62	70199	9.62	
1,4-Difluorobenzene (IS)	280125	7.39	285480	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27EW-20_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-15	File ID:	10FEB48.D
Sampled:	02/03/17 11:23	Prepared:	02/10/17 07:00	Analyzed:	02/11/17 00:34
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.98	0.093	0.16	0.50	
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	5.3	0.072	0.16	0.50	
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.33	0.062	0.16	0.50	J
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	4.5	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	1.5	0.15	0.16	0.50	
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27EW-20_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-15	File ID:	10FEB48.D
Sampled:	02/03/17 11:23	Prepared:	02/10/17 07:00	Analyzed:	02/11/17 00:34
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.27	0.085	0.16	0.50	J
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	4.7	0.12	0.16	0.50	
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	15	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27EW-20_170203

Laboratory:	BC Laboratories			SDG:	17-03197		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703197-15	File ID:	10FEB48.D		
Sampled:	02/03/17 11:23	Prepared:	02/10/17 07:00	Analyzed:	02/11/17 00:34		
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml		
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.750	108	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.7500	97.5	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.9300	99.3	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	203926	6.58	207704	6.58	
Chlorobenzene-d5 (IS)	65708	9.62	70199	9.62	
1,4-Difluorobenzene (IS)	274332	7.39	285480	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

DUP12_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-16	File ID:	10FEB49.D
Sampled:	02/03/17 11:28	Prepared:	02/10/17 07:00	Analyzed:	02/11/17 00:57
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.84	0.093	0.16	0.50	
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	5.7	0.072	0.16	0.50	
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.33	0.062	0.16	0.50	J
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	4.6	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	1.7	0.15	0.16	0.50	
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

DUP12_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-16	File ID:	10FEB49.D
Sampled:	02/03/17 11:28	Prepared:	02/10/17 07:00	Analyzed:	02/11/17 00:57
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.23	0.085	0.16	0.50	J
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	4.8	0.12	0.16	0.50	
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	15	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

DUP12_170203

Laboratory:	BC Laboratories			SDG:	17-03197		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703197-16		File ID:	10FEB49.D	
Sampled:	02/03/17 11:28	Prepared:	02/10/17 07:00		Analyzed:	02/11/17 00:57	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	11.170	112	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.3600	93.6	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.6600	96.6	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	196824	6.58	207704	6.58	
Chlorobenzene-d5 (IS)	66775	9.62	70199	9.62	
1,4-Difluorobenzene (IS)	281381	7.39	285480	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M04-05_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-17
File ID: 10FEB50.D
Sampled: 02/03/17 10:05
Prepared: 02/10/17 07:00
Analyzed: 02/11/17 01:21
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[B0960
Sequence: 1702340
Calibration: 1702011
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.26	0.12	0.16	0.50	J
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.24	0.11	0.16	0.50	J
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.28	0.085	0.16	0.50	J
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M04-05_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-17	File ID:	10FEB50.D
Sampled:	02/03/17 10:05	Prepared:	02/10/17 07:00	Analyzed:	02/11/17 01:21
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	15	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M04-05_170203

Laboratory:	BC Laboratories			SDG:	17-03197		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703197-17			File ID:	10FEB50.D
Sampled:	02/03/17 10:05	Prepared:	02/10/17 07:00			Analyzed:	02/11/17 01:21
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.860	109	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.4100	94.1	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.8200	98.2	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	201119	6.59	207704	6.58	
Chlorobenzene-d5 (IS)	65397	9.62	70199	9.62	
1,4-Difluorobenzene (IS)	274019	7.39	285480	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M13-07_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-18	File ID:	10FEB51.D
Sampled:	02/03/17 11:25	Prepared:	02/10/17 07:00	Analyzed:	02/11/17 01:44
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.800	108	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.7200	97.2	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	10.080	101	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	203378	6.58	207704	6.58	
Chlorobenzene-d5 (IS)	62994	9.62	70199	9.62	
1,4-Difluorobenzene (IS)	269348	7.39	285480	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW530-2_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-19	File ID:	10FEB52.D
Sampled:	02/03/17 10:45	Prepared:	02/10/17 07:00	Analyzed:	02/11/17 02:07
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.110	101	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.5700	95.7	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.6600	96.6	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	188917	6.58	207704	6.58	
Chlorobenzene-d5 (IS)	60350	9.62	70199	9.62	
1,4-Difluorobenzene (IS)	247406	7.39	285480	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S4-TT-MW02B_170203

Laboratory:	BC Laboratories			SDG:	17-03197		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703197-20			File ID:	10FEB53.D
Sampled:	02/03/17 10:41	Prepared:	02/10/17 07:00			Analyzed:	02/11/17 02:30
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	10	0.093	0.16	0.50	
75-00-3	Chloroethane	1	0.20	0.14	0.16	0.50	J
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	49	0.072	0.16	0.50	
541-73-1	1,3-Dichlorobenzene	1	0.76	0.15	0.16	0.50	
106-46-7	1,4-Dichlorobenzene	1	5.6	0.062	0.16	0.50	
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.50	0.11	0.16	0.50	
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	21	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	17	0.15	0.16	0.50	
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S4-TT-MW02B_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-20	File ID:	10FEB53.D
Sampled:	02/03/17 10:41	Prepared:	02/10/17 07:00	Analyzed:	02/11/17 02:30
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.21	0.093	0.16	0.50	J
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	8.0	0.085	0.16	0.50	
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	7.1	0.12	0.16	0.50	
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	11	9.4	10	15	J
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S4-TT-MW02B_170203

Laboratory:	BC Laboratories			SDG:	17-03197		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703197-20		File ID:	10FEB53.D	
Sampled:	02/03/17 10:41	Prepared:	02/10/17 07:00		Analyzed:	02/11/17 02:30	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.630	106	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.7900	97.9	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.0100	90.1	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	203402	6.58	207704	6.58	
Chlorobenzene-d5 (IS)	66279	9.62	70199	9.62	
1,4-Difluorobenzene (IS)	269915	7.39	285480	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S4-TT-MW02C_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-21	File ID:	10FEB54.D
Sampled:	02/03/17 10:12	Prepared:	02/10/17 07:00	Analyzed:	02/11/17 02:53
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	2.8	0.072	0.16	0.50	
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.21	0.062	0.16	0.50	J
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.45	0.18	0.20	0.50	J
156-59-2	cis-1,2-Dichloroethene	1	32	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	0.43	0.15	0.16	0.50	J
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S4-TT-MW02C_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-21	File ID:	10FEB54.D
Sampled:	02/03/17 10:12	Prepared:	02/10/17 07:00	Analyzed:	02/11/17 02:53
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	40	0.12	0.16	0.50	
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	15	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S4-TT-MW02C_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-21	File ID:	10FEB54.D
Sampled:	02/03/17 10:12	Prepared:	02/10/17 07:00	Analyzed:	02/11/17 02:53
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.620	106	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.6500	96.5	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	10.210	102	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	208118	6.59	207704	6.58	
Chlorobenzene-d5 (IS)	66382	9.63	70199	9.62	
1,4-Difluorobenzene (IS)	279853	7.39	285480	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S4-TT-MW02C_170203

Laboratory:	BC Laboratories			SDG:	17-03197		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703197-21RE1	File ID:	12FEB53.D		
Sampled:	02/03/17 10:12	Prepared:	02/10/17 07:00	Analyzed:	02/13/17 01:08		
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml		
Batch:	B[B0960	Sequence:	1702423	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
79-01-6	Trichloroethene	25	940	2.1	4.0	12	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.410	104	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.5500	95.5	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.4400	94.4	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	205702	6.59	209784	6.58	
Chlorobenzene-d5 (IS)	66250	9.62	67298	9.62	
1,4-Difluorobenzene (IS)	271503	7.39	280430	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S4-TT-MW02D_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-22	File ID:	12FEB07.D
Sampled:	02/03/17 11:14	Prepared:	02/10/17 07:00	Analyzed:	02/12/17 07:24
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702423	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.16	0.085	0.16	0.50	U
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S4-TT-MW02D_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-22	File ID:	12FEB07.D
Sampled:	02/03/17 11:14	Prepared:	02/10/17 07:00	Analyzed:	02/12/17 07:24
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702423	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.32	0.085	0.16	0.50	J
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	15	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S4-TT-MW02D_170203

Laboratory:	BC Laboratories			SDG:	17-03197		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703197-22		File ID:	12FEB07.D	
Sampled:	02/03/17 11:14	Prepared:	02/10/17 07:00		Analyzed:	02/12/17 07:24	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[B0960	Sequence:	1702423	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	11.100	111	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.4200	94.2	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.9200	99.2	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	217675	6.58	204871	6.58	
Chlorobenzene-d5 (IS)	69782	9.62	66742	9.62	
1,4-Difluorobenzene (IS)	292014	7.39	270832	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

TB11_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-23	File ID:	10FEB35.D
Sampled:	02/03/17 12:00	Prepared:	02/10/17 07:00	Analyzed:	02/10/17 19:31
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.16	0.085	0.16	0.50	U
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

TB11_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-23	File ID:	10FEB35.D
Sampled:	02/03/17 12:00	Prepared:	02/10/17 07:00	Analyzed:	02/10/17 19:31
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	15	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

TB11_170203

Laboratory:	BC Laboratories			SDG:	17-03197		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703197-23		File ID:	10FEB35.D	
Sampled:	02/03/17 12:00	Prepared:	02/10/17 07:00		Analyzed:	02/10/17 19:31	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.8500	98.5	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.6500	96.5	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.7600	97.6	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	219903	6.58	207704	6.58	
Chlorobenzene-d5 (IS)	69554	9.62	70199	9.62	
1,4-Difluorobenzene (IS)	286062	7.39	285480	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

TB12_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-24	File ID:	10FEB36.D
Sampled:	02/03/17 12:15	Prepared:	02/10/17 07:00	Analyzed:	02/10/17 19:55
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.16	0.085	0.16	0.50	U
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

TB12_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-24	File ID:	10FEB36.D
Sampled:	02/03/17 12:15	Prepared:	02/10/17 07:00	Analyzed:	02/10/17 19:55
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	15	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

TB12_170203

Laboratory:	BC Laboratories			SDG:	17-03197		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703197-24		File ID:	10FEB36.D	
Sampled:	02/03/17 12:15	Prepared:	02/10/17 07:00		Analyzed:	02/10/17 19:55	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.280	103	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.7300	97.3	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.6300	96.3	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	215240	6.58	207704	6.58	
Chlorobenzene-d5 (IS)	69340	9.62	70199	9.62	
1,4-Difluorobenzene (IS)	284219	7.39	285480	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

26MW03_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-25	File ID:	12FEB08.D
Sampled:	02/03/17 12:30	Prepared:	02/10/17 07:00	Analyzed:	02/12/17 07:47
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702423	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.24	0.083	0.16	0.50	J
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.25	0.085	0.16	0.50	J
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

26MW03_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-25	File ID:	12FEB08.D
Sampled:	02/03/17 12:30	Prepared:	02/10/17 07:00	Analyzed:	02/12/17 07:47
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702423	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	15	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

26MW03_170203

Laboratory:	BC Laboratories			SDG:	17-03197		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703197-25	File ID:	12FEB08.D		
Sampled:	02/03/17 12:30	Prepared:	02/10/17 07:00	Analyzed:	02/12/17 07:47		
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml		
Batch:	B[B0960	Sequence:	1702423	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.740	107	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.4800	94.8	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.5200	95.2	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	200680	6.58	204871	6.58	
Chlorobenzene-d5 (IS)	63811	9.62	66742	9.62	
1,4-Difluorobenzene (IS)	273366	7.39	270832	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

26PZ01_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-26	File ID:	10FEB21.D
Sampled:	02/03/17 13:36	Prepared:	02/10/17 07:00	Analyzed:	02/10/17 14:06
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	2.3	0.11	0.16	0.50	
135-98-8	sec-Butylbenzene	1	2.0	0.15	0.16	0.50	
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	2.0	0.11	0.16	0.50	
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	1.9	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	0.75	0.15	0.16	0.50	
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

26PZ01_170203

Laboratory:	BC Laboratories			SDG:	17-03197		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703197-26			File ID:	10FEB21.D
Sampled:	02/03/17 13:36	Prepared:	02/10/17 07:00			Analyzed:	02/10/17 14:06
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	5.9	0.098	0.16	0.50	
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	2.6	0.14	0.16	0.50	
99-87-6	p-Isopropyltoluene	1	3.4	0.12	0.16	0.50	
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	22	0.36	0.40	0.50	
103-65-1	n-Propylbenzene	1	3.6	0.11	0.16	0.50	
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.38	0.13	0.16	0.50	J
108-88-3	Toluene	1	0.81	0.093	0.16	0.50	
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	1.0	0.085	0.16	0.50	
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	27	0.12	0.16	0.50	
108-67-8	1,3,5-Trimethylbenzene	1	7.4	0.12	0.16	0.50	
75-01-4	Vinyl chloride	1	1.5	0.12	0.16	0.50	
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	15	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	18	0.28	0.30	0.50	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

26PZ01_170203

Laboratory:	BC Laboratories			SDG:	17-03197		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703197-26			File ID:	10FEB21.D
Sampled:	02/03/17 13:36	Prepared:	02/10/17 07:00			Analyzed:	02/10/17 14:06
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	23	0.082	0.16	0.50	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	11.050	110	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.7900	97.9	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.8300	98.3	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	188934	6.58	187920	6.58	
Chlorobenzene-d5 (IS)	58997	9.62	66125	9.62	
1,4-Difluorobenzene (IS)	244979	7.39	261715	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

26PZ03_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-27	File ID:	10FEB57.D
Sampled:	02/03/17 13:01	Prepared:	02/10/17 07:00	Analyzed:	02/11/17 04:03
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	1.5	0.083	0.16	0.50	
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.54	0.17	0.20	0.50	
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	18	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	7.2	0.15	0.16	0.50	
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.27	0.086	0.16	0.50	J
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

26PZ03_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-27
File ID: 10FEB57.D
Sampled: 02/03/17 13:01
Prepared: 02/10/17 07:00
Analyzed: 02/11/17 04:03
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[B0960
Sequence: 1702340
Calibration: 1702011
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.30	0.085	0.16	0.50	J
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	27	0.12	0.16	0.50	
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	15	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

26PZ03_170203

Laboratory:	BC Laboratories			SDG:	17-03197		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703197-27			File ID:	10FEB57.D
Sampled:	02/03/17 13:01	Prepared:	02/10/17 07:00			Analyzed:	02/11/17 04:03
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.82	0.082	0.16	0.50	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	11.020	110	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.4400	94.4	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.8600	98.6	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	182522	6.58	207704	6.58	
Chlorobenzene-d5 (IS)	57001	9.62	70199	9.62	
1,4-Difluorobenzene (IS)	241009	7.39	285480	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW06_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-28	File ID:	10FEB58.D
Sampled:	02/03/17 13:24	Prepared:	02/10/17 07:00	Analyzed:	02/11/17 04:26
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	1.4	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW06_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-28	File ID:	10FEB58.D
Sampled:	02/03/17 13:24	Prepared:	02/10/17 07:00	Analyzed:	02/11/17 04:26
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	1.5	0.085	0.16	0.50	
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	15	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW06_170203

Laboratory:	BC Laboratories			SDG:	17-03197		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703197-28		File ID:	10FEB58.D	
Sampled:	02/03/17 13:24	Prepared:	02/10/17 07:00		Analyzed:	02/11/17 04:26	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.740	107	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.7700	97.7	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.4200	94.2	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	204940	6.58	207704	6.58	
Chlorobenzene-d5 (IS)	63584	9.62	70199	9.62	
1,4-Difluorobenzene (IS)	265034	7.39	285480	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

DUP07_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-29	File ID:	10FEB59.D
Sampled:	02/03/17 13:05	Prepared:	02/10/17 07:00	Analyzed:	02/11/17 04:49
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.450	104	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.4100	94.1	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.5300	95.3	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	208963	6.58	207704	6.58	
Chlorobenzene-d5 (IS)	67342	9.62	70199	9.62	
1,4-Difluorobenzene (IS)	275872	7.39	285480	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB20_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-30	File ID:	10FEB37.D
Sampled:	02/03/17 14:00	Prepared:	02/10/17 07:00	Analyzed:	02/10/17 20:18
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.16	0.085	0.16	0.50	U
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB20_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-30	File ID:	10FEB37.D
Sampled:	02/03/17 14:00	Prepared:	02/10/17 07:00	Analyzed:	02/10/17 20:18
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	15	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB20_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-30	File ID:	10FEB37.D
Sampled:	02/03/17 14:00	Prepared:	02/10/17 07:00	Analyzed:	02/10/17 20:18
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.530	105	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.5700	95.7	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.3000	93.0	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	205022	6.59	207704	6.58	
Chlorobenzene-d5 (IS)	70730	9.62	70199	9.62	
1,4-Difluorobenzene (IS)	284163	7.39	285480	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB21_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-31
File ID: 10FEB38.D
Sampled: 02/03/17 14:10
Prepared: 02/10/17 07:00
Analyzed: 02/10/17 20:41
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[B0960
Sequence: 1702340
Calibration: 1702011
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.16	0.085	0.16	0.50	U
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB21_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-31	File ID:	10FEB38.D
Sampled:	02/03/17 14:10	Prepared:	02/10/17 07:00	Analyzed:	02/10/17 20:41
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	15	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB21_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-31	File ID:	10FEB38.D
Sampled:	02/03/17 14:10	Prepared:	02/10/17 07:00	Analyzed:	02/10/17 20:41
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.530	105	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.8400	98.4	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.3500	93.5	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	214947	6.58	207704	6.58	
Chlorobenzene-d5 (IS)	71571	9.62	70199	9.62	
1,4-Difluorobenzene (IS)	291811	7.39	285480	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB22_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-32	File ID:	10FEB39.D
Sampled:	02/03/17 14:20	Prepared:	02/10/17 07:00	Analyzed:	02/10/17 21:05
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.420	104	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.6000	96.0	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	8.8400	88.4	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	212265	6.58	207704	6.58	
Chlorobenzene-d5 (IS)	72539	9.62	70199	9.62	
1,4-Difluorobenzene (IS)	282017	7.39	285480	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB23_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-33	File ID:	10FEB40.D
Sampled:	02/03/17 14:30	Prepared:	02/10/17 07:00	Analyzed:	02/10/17 21:28
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.16	0.085	0.16	0.50	U
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB23_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-33	File ID:	10FEB40.D
Sampled:	02/03/17 14:30	Prepared:	02/10/17 07:00	Analyzed:	02/10/17 21:28
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	15	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB23_170203

Laboratory:	BC Laboratories			SDG:	17-03197		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703197-33	File ID:	10FEB40.D		
Sampled:	02/03/17 14:30	Prepared:	02/10/17 07:00	Analyzed:	02/10/17 21:28		
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml		
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.9800	99.8	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.050	100	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.3900	93.9	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	214599	6.58	207704	6.58	
Chlorobenzene-d5 (IS)	69320	9.62	70199	9.62	
1,4-Difluorobenzene (IS)	278180	7.39	285480	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M13-09_170203

Laboratory:	BC Laboratories			SDG:	17-03197		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703197-34			File ID:	10FEB60.D
Sampled:	02/03/17 13:00	Prepared:	02/10/17 07:00			Analyzed:	02/11/17 05:12
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.290	103	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.7000	97.0	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.7300	97.3	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	190694	6.58	207704	6.58	
Chlorobenzene-d5 (IS)	63568	9.62	70199	9.62	
1,4-Difluorobenzene (IS)	257979	7.39	285480	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MWOR-4_170203

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703197-35	File ID:	12FEB29.D
Sampled:	02/03/17 13:50	Prepared:	02/12/17 06:00	Analyzed:	02/12/17 15:53
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0963	Sequence:	1702423	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.050	100	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.7100	97.1	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.9400	99.4	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	214217	6.58	204871	6.58	
Chlorobenzene-d5 (IS)	68396	9.62	66742	9.62	
1,4-Difluorobenzene (IS)	286408	7.39	270832	7.39	

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

PREPARATION BATCH SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Batch: B[B0851
Batch Matrix: Water
Preparation: EPA 5030 Water MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
27EW-05_170203	1703197-01	10FEB14.D	02/09/17 13:37	Full SAP LIST
27EW-12_170203	1703197-02	10FEB15.D	02/09/17 13:37	Full SAP LIST
27EW-19_170203	1703197-03	10FEB16.D	02/09/17 13:37	Full SAP LIST
27MW02_170203	1703197-04	10FEB17.D	02/09/17 13:37	Full SAP LIST
DUP18_170203	1703197-05	10FEB18.D	02/09/17 13:37	Full SAP LIST
DUP18_170203	1703197-05RE1	12FEB30.D	02/09/17 13:37	Full SAP LIST
M10B-01_170203	1703197-06	10FEB27.D	02/09/17 13:37	short list - Benzene & Ethylbenzen only
MW4-2-1_170203	1703197-07	10FEB28.D	02/09/17 13:37	Full SAP LIST
MW4-2-18_170203	1703197-08	10FEB41.D	02/09/17 13:37	Full SAP LIST
MW530-1_170203	1703197-09	10FEB42.D	02/09/17 13:37	short list - Benzene & Ethylbenzen only
S4-TT-MW02A_170203	1703197-10	10FEB43.D	02/09/17 13:37	Full SAP LIST
S4-TT-MW02A_170203	1703197-10RE1	12FEB51.D	02/09/17 13:37	Full SAP LIST
SMLS-01_170203	1703197-11	10FEB44.D	02/09/17 13:37	Full SAP LIST
SMLS-01_170203	1703197-11RE1	12FEB52.D	02/09/17 13:37	Full SAP LIST
SMLS-07_170203	1703197-12	10FEB45.D	02/09/17 13:37	Full SAP LIST
26MW08_170203	1703197-13	10FEB46.D	02/09/17 13:37	Full SAP LIST
27EW-15_170203	1703197-14	10FEB47.D	02/09/17 13:37	Full SAP LIST
Blank	B[B0851-BLK1	09FEB29.D	02/09/17 13:37	
LCS	B[B0851-BS1	09FEB31.D	02/09/17 13:37	
Matrix Spike	B[B0851-MS1	09FEB32.D	02/09/17 13:37	
Matrix Spike Dup	B[B0851-MSD1	09FEB33.D	02/09/17 13:37	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

PREPARATION BATCH SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Batch: B[B0960
Batch Matrix: Water
Preparation: EPA 5030 Water MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
27EW-20_170203	1703197-15	10FEB48.D	02/10/17 07:00	Full SAP LIST
DUP12_170203	1703197-16	10FEB49.D	02/10/17 07:00	Full SAP LIST
M04-05_170203	1703197-17	10FEB50.D	02/10/17 07:00	Full SAP LIST
M13-07_170203	1703197-18	10FEB51.D	02/10/17 07:00	short list - Benzene & Ethylbenzen only
MW530-2_170203	1703197-19	10FEB52.D	02/10/17 07:00	short list - Benzene & Ethylbenzen only
S4-TT-MW02B_170203	1703197-20	10FEB53.D	02/10/17 07:00	Full SAP LIST
S4-TT-MW02C_170203	1703197-21	10FEB54.D	02/10/17 07:00	Full SAP LIST
S4-TT-MW02C_170203	1703197-21RE1	12FEB53.D	02/10/17 07:00	Full SAP LIST
S4-TT-MW02D_170203	1703197-22	12FEB07.D	02/10/17 07:00	Full SAP LIST
TB11_170203	1703197-23	10FEB35.D	02/10/17 07:00	Full SAP LIST
TB12_170203	1703197-24	10FEB36.D	02/10/17 07:00	Full SAP LIST
26MW03_170203	1703197-25	12FEB08.D	02/10/17 07:00	Full SAP LIST
26PZ01_170203	1703197-26	10FEB21.D	02/10/17 07:00	Full SAP LIST
26PZ03_170203	1703197-27	10FEB57.D	02/10/17 07:00	Full SAP LIST
27MW06_170203	1703197-28	10FEB58.D	02/10/17 07:00	Full SAP LIST
DUP07_170203	1703197-29	10FEB59.D	02/10/17 07:00	short list - Benzene & Ethylbenzen only
EB20_170203	1703197-30	10FEB37.D	02/10/17 07:00	Full SAP LIST
EB21_170203	1703197-31	10FEB38.D	02/10/17 07:00	Full SAP LIST
EB22_170203	1703197-32	10FEB39.D	02/10/17 07:00	short list - Benzene & Ethylbenzen only
EB23_170203	1703197-33	10FEB40.D	02/10/17 07:00	Full SAP LIST
M13-09_170203	1703197-34	10FEB60.D	02/10/17 07:00	short list - Benzene & Ethylbenzen only
Blank	B[B0960-BLK1	10FEB20.D	02/10/17 07:00	
LCS	B[B0960-BS1	10FEB22.D	02/10/17 07:00	
26PZ01_170203	B[B0960-MS1	10FEB23.D	02/10/17 07:00	
26PZ01_170203	B[B0960-MSD1	10FEB24.D	02/10/17 07:00	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

PREPARATION BATCH SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Batch: B[B0963
Batch Matrix: Water
Preparation: EPA 5030 Water MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
MWOR-4_170203	1703197-35	12FEB29.D	02/12/17 06:00	short list - Benzene & Ethylbenzen only
Blank	B[B0963-BLK1	12FEB06.D	02/12/17 06:00	
LCS	B[B0963-BS1	12FEB11.D	02/12/17 06:00	
Matrix Spike	B[B0963-MS1	12FEB12.D	02/12/17 06:00	
Matrix Spike Dup	B[B0963-MSD1	12FEB13.D	02/12/17 06:00	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-8260B

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[B0851-BLK1	File ID:	09FEB29.D
Prepared:	02/09/17 13:37	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	02/09/17 16:09	Instrument:	MS-V5		
Batch:	B[B0851	Sequence:	1702254	Calibration:	1702011

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	0.16	0.099	0.16	0.50	U

AMEC Environmental & Infrastructure
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San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-8260B

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[B0851-BLK1	File ID:	09FEB29.D
Prepared:	02/09/17 13:37	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	02/09/17 16:09	Instrument:	MS-V5		
Batch:	B[B0851	Sequence:	1702254	Calibration:	1702011

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-34-3	1,1-Dichloroethane	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.16	0.085	0.16	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	0.16	0.13	0.16	0.50	U
563-58-6	1,1-Dichloropropene	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.20	0.19	0.20	0.50	U

AMEC Environmental & Infrastructure
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Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-8260B

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[B0851-BLK1	File ID:	09FEB29.D
Prepared:	02/09/17 13:37	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	02/09/17 16:09	Instrument:	MS-V5		
Batch:	B[B0851	Sequence:	1702254	Calibration:	1702011

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
71-55-6	1,1,1-Trichloroethane	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	10	9.4	10	15	U
75-15-0	Carbon disulfide	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	0.30	0.28	0.30	0.50	U
95-47-6	o-Xylene	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.480	105	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.010	100	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.6000	96.0	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	198342	6.58	199913	6.58	

AMEC Environmental & Infrastructure
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Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-8260B

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[B0851-BLK1	File ID:	09FEB29.D
Prepared:	02/09/17 13:37	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	02/09/17 16:09	Instrument:	MS-V5		
Batch:	B[B0851	Sequence:	1702254	Calibration:	1702011

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Chlorobenzene-d5 (IS)	64389	9.62	70233	9.62	
1,4-Difluorobenzene (IS)	262866	7.39	264847	7.39	

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Project: Alameda
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Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-8260B

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[B0960-BLK1	File ID:	10FEB20.D
Prepared:	02/10/17 07:00	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	02/10/17 13:43	Instrument:	MS-V5		
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	0.16	0.099	0.16	0.50	U

AMEC Environmental & Infrastructure
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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-8260B

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[B0960-BLK1	File ID:	10FEB20.D
Prepared:	02/10/17 07:00	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	02/10/17 13:43	Instrument:	MS-V5		
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-34-3	1,1-Dichloroethane	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.16	0.085	0.16	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	0.16	0.13	0.16	0.50	U
563-58-6	1,1-Dichloropropene	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.20	0.19	0.20	0.50	U

AMEC Environmental & Infrastructure
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San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-8260B

Laboratory:	BC Laboratories		SDG:	17-03197	
Client:	AMEC Environmental & Infrastructure $AMCN		Project:	Alameda	
Matrix:	Water	Laboratory ID:	B[B0960-BLK1	File ID:	10FEB20.D
Prepared:	02/10/17 07:00	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	02/10/17 13:43	Instrument:	MS-V5		
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
71-55-6	1,1,1-Trichloroethane	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	10	9.4	10	15	U
75-15-0	Carbon disulfide	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	0.30	0.28	0.30	0.50	U
95-47-6	o-Xylene	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.630	106	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.5100	95.1	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.4900	94.9	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	202267	6.58	187920	6.58	

AMEC Environmental & Infrastructure
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Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-8260B

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[B0960-BLK1	File ID:	10FEB20.D
Prepared:	02/10/17 07:00	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	02/10/17 13:43	Instrument:	MS-V5		
Batch:	B[B0960	Sequence:	1702340	Calibration:	1702011

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Chlorobenzene-d5 (IS)	62424	9.62	66125	9.62	
1,4-Difluorobenzene (IS)	274591	7.39	261715	7.39	

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Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-8260B

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[B0963-BLK1	File ID:	12FEB06.D
Prepared:	02/12/17 06:00	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	02/12/17 07:01	Instrument:	MS-V5		
Batch:	B[B0963	Sequence:	1702423	Calibration:	1702011

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	0.16	0.083	0.16	0.50	U
100-41-4	Ethylbenzene	0.16	0.098	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.850	108	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.6500	96.5	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.6300	96.3	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	210762	6.58	204871	6.58	
Chlorobenzene-d5 (IS)	69801	9.62	66742	9.62	
1,4-Difluorobenzene (IS)	282623	7.39	270832	7.39	

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San Diego, CA 92123

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Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

Matrix Spike

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0851
Laboratory ID: B[B0851-MS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1703278-04

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Benzene	25.000	ND	24.750	99.0	79 - 120
Bromobenzene	25.000	ND	24.030	96.1	80 - 120
Bromochloromethane	25.000	ND	25.070	100	78 - 123
Bromodichloromethane	25.000	ND	25.010	100	79 - 125
Bromoform	25.000	ND	22.840	91.4	66 - 130
Bromomethane	25.000	ND	22.020	88.1	53 - 141
n-Butylbenzene	25.000	2.7000	26.130	93.7	75 - 128
sec-Butylbenzene	25.000	2.0700	23.480	85.6	77 - 126
tert-Butylbenzene	25.000	ND	22.190	88.8	78 - 124
Carbon tetrachloride	25.000	ND	27.180	109	72 - 136
Chlorobenzene	25.000	ND	24.460	97.8	82 - 118
Chloroethane	25.000	ND	24.090	96.4	60 - 138
Chloroform	25.000	ND	25.170	101	79 - 124
Chloromethane	25.000	ND	24.800	99.2	50 - 139
2-Chlorotoluene	25.000	ND	23.740	95.0	79 - 122
4-Chlorotoluene	25.000	ND	23.190	92.8	78 - 122
Dibromochloromethane	25.000	ND	25.460	102	74 - 126
1,2-Dibromo-3-chloropropane	25.000	ND	24.270	97.1	62 - 128
1,2-Dibromoethane	25.000	ND	25.050	100	77 - 121
Dibromomethane	25.000	ND	22.900	91.6	79 - 123
1,2-Dichlorobenzene	25.000	2.2900	23.060	83.1	80 - 119
1,3-Dichlorobenzene	25.000	ND	20.830	83.3	80 - 119
1,4-Dichlorobenzene	25.000	0.53000	23.120	90.4	79 - 118
Dichlorodifluoromethane	25.000	ND	20.580	82.3	32 - 152
1,1-Dichloroethane	25.000	ND	23.030	92.1	77 - 125

AMEC Environmental & Infrastructure
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San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

Matrix Spike

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0851
Laboratory ID: B[B0851-MS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1703278-04

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
1,2-Dichloroethane	25.000	ND	24.280	97.1	73 - 128
1,1-Dichloroethene	25.000	0.52000	26.210	103	71 - 131
cis-1,2-Dichloroethene	25.000	19.830	43.900	96.3	78 - 123
trans-1,2-Dichloroethene	25.000	3.9100	28.610	98.8	75 - 124
1,2-Dichloropropane	25.000	ND	23.470	93.9	78 - 122
1,3-Dichloropropane	25.000	ND	24.080	96.3	80 - 119
2,2-Dichloropropane	25.000	ND	25.890	104	60 - 139
1,1-Dichloropropene	25.000	ND	26.680	107	79 - 125
cis-1,3-Dichloropropene	25.000	ND	24.350	97.4	75 - 124
trans-1,3-Dichloropropene	25.000	ND	25.190	101	73 - 127
Ethylbenzene	25.000	0.69000	25.370	98.7	79 - 121
Hexachlorobutadiene	25.000	ND	24.050	96.2	66 - 134
Isopropylbenzene	25.000	1.6200	25.010	93.6	72 - 131
p-Isopropyltoluene	25.000	3.6200	25.020	85.6	77 - 127
Methylene chloride	25.000	ND	23.440	93.8	74 - 124
Methyl t-butyl ether	25.000	ND	24.090	96.4	71 - 124
Naphthalene	25.000	ND	32.890	132 *	61 - 128
n-Propylbenzene	25.000	2.0400	24.510	89.9	76 - 126
Styrene	25.000	ND	24.380	97.5	78 - 123
1,1,1,2-Tetrachloroethane	25.000	ND	23.300	93.2	78 - 124
1,1,2,2-Tetrachloroethane	25.000	ND	24.540	98.2	71 - 121
Tetrachloroethene	25.000	ND	26.690	107	74 - 129
Toluene	25.000	ND	25.380	102	80 - 121
1,2,3-Trichlorobenzene	25.000	ND	28.510	114	69 - 129
1,2,4-Trichlorobenzene	25.000	ND	27.890	112	69 - 130

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

Matrix Spike

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0851
Laboratory ID: B[B0851-MS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1703278-04

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
1,1,1-Trichloroethane	25.000	ND	26.530	106	74 - 131
1,1,2-Trichloroethane	25.000	ND	25.930	104	80 - 119
Trichloroethene	25.000	18.950	41.930	91.9	79 - 123
Trichlorofluoromethane	25.000	ND	26.940	108	65 - 141
1,2,3-Trichloropropane	25.000	ND	26.590	106	73 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.000	ND	25.190	101	70 - 136
1,2,4-Trimethylbenzene	25.000	26.300	43.990	70.8 *	76 - 124
1,3,5-Trimethylbenzene	25.000	1.0100	25.300	97.2	75 - 124
Vinyl chloride	25.000	0.38000	27.950	110	58 - 137
Total Xylenes	75.000	2.9800	74.980	96.0	79 - 121
Acetone	320.00	ND	323.78	101	39 - 160
Acetonitrile	160.00	ND	208.17	130	50 - 142
Allyl chloride	32.000	ND	33.200	104	68 - 130
t-Amyl Methyl ether	16.000	ND	14.980	93.6	68 - 128
Benzyl chloride	32.000	ND	30.750	96.1	42 - 138
t-Butyl alcohol	800.00	ND	795.12	99.4	68 - 129
Carbon disulfide	32.000	ND	34.990	109	64 - 133
Chloroprene	32.000	ND	33.480	105	65 - 135
Diisopropyl ether	16.000	ND	17.820	111	67 - 128
Ethyl t-butyl ether	16.000	ND	14.800	92.5	70 - 127
2-Hexanone	320.00	ND	305.82	95.6	57 - 139
Methyl ethyl ketone	160.00	ND	140.85	88.0	56 - 143
Methyl isobutyl ketone	160.00	ND	153.19	95.7	67 - 130
Vinyl acetate	160.00	ND	142.01	88.8	54 - 146

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

Matrix Spike Dup

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0851
Laboratory ID: B[B0851-MSD1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1703278-04

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	25.000	24.540	98.2	0.852	30	79 - 120
Bromobenzene	25.000	23.530	94.1	2.10	30	80 - 120
Bromochloromethane	25.000	24.400	97.6	2.71	30	78 - 123
Bromodichloromethane	25.000	24.440	97.8	2.31	30	79 - 125
Bromoform	25.000	21.920	87.7	4.11	30	66 - 130
Bromomethane	25.000	22.780	91.1	3.39	30	53 - 141
n-Butylbenzene	25.000	24.530	87.3	6.32	30	75 - 128
sec-Butylbenzene	25.000	22.840	83.1	2.76	30	77 - 126
tert-Butylbenzene	25.000	21.440	85.8	3.44	30	78 - 124
Carbon tetrachloride	25.000	27.050	108	0.479	30	72 - 136
Chlorobenzene	25.000	23.060	92.2	5.89	30	82 - 118
Chloroethane	25.000	24.770	99.1	2.78	30	60 - 138
Chloroform	25.000	24.360	97.4	3.27	30	79 - 124
Chloromethane	25.000	23.900	95.6	3.70	30	50 - 139
2-Chlorotoluene	25.000	23.170	92.7	2.43	30	79 - 122
4-Chlorotoluene	25.000	22.460	89.8	3.20	30	78 - 122
Dibromochloromethane	25.000	24.850	99.4	2.42	30	74 - 126
1,2-Dibromo-3-chloropropane	25.000	23.280	93.1	4.16	30	62 - 128
1,2-Dibromoethane	25.000	24.660	98.6	1.57	30	77 - 121
Dibromomethane	25.000	22.220	88.9	3.01	30	79 - 123
1,2-Dichlorobenzene	25.000	22.480	80.8	2.55	30	80 - 119
1,3-Dichlorobenzene	25.000	19.560	78.2 *	6.29	30	80 - 119
1,4-Dichlorobenzene	25.000	22.520	88.0	2.63	30	79 - 118
Dichlorodifluoromethane	25.000	21.310	85.2	3.49	30	32 - 152
1,1-Dichloroethane	25.000	23.380	93.5	1.51	30	77 - 125
1,2-Dichloroethane	25.000	23.600	94.4	2.84	30	73 - 128

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

Matrix Spike Dup

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0851
Laboratory ID: B[B0851-MSD1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1703278-04

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	25.000	25.950	102	0.997	30	71 - 131
cis-1,2-Dichloroethene	25.000	43.830	96.0	0.160	30	78 - 123
trans-1,2-Dichloroethene	25.000	29.060	101	1.56	30	75 - 124
1,2-Dichloropropane	25.000	23.010	92.0	1.98	30	78 - 122
1,3-Dichloropropane	25.000	23.680	94.7	1.68	30	80 - 119
2,2-Dichloropropane	25.000	25.820	103	0.271	30	60 - 139
1,1-Dichloropropene	25.000	26.840	107	0.598	30	79 - 125
cis-1,3-Dichloropropene	25.000	23.910	95.6	1.82	30	75 - 124
trans-1,3-Dichloropropene	25.000	24.160	96.6	4.17	30	73 - 127
Ethylbenzene	25.000	24.670	95.9	2.80	30	79 - 121
Hexachlorobutadiene	25.000	21.550	86.2	11.0	30	66 - 134
Isopropylbenzene	25.000	23.570	87.8	5.93	30	72 - 131
p-Isopropyltoluene	25.000	23.090	77.9	8.02	30	77 - 127
Methylene chloride	25.000	24.950	99.8	6.24	30	74 - 124
Methyl t-butyl ether	25.000	25.030	100	3.83	30	71 - 124
Naphthalene	25.000	29.740	119	10.1	30	61 - 128
n-Propylbenzene	25.000	23.420	85.5	4.55	30	76 - 126
Styrene	25.000	23.680	94.7	2.91	30	78 - 123
1,1,1,2-Tetrachloroethane	25.000	22.760	91.0	2.34	30	78 - 124
1,1,2,2-Tetrachloroethane	25.000	23.880	95.5	2.73	30	71 - 121
Tetrachloroethene	25.000	26.610	106	0.300	30	74 - 129
Toluene	25.000	24.080	96.3	5.26	30	80 - 121
1,2,3-Trichlorobenzene	25.000	26.500	106	7.31	30	69 - 129
1,2,4-Trichlorobenzene	25.000	26.640	107	4.58	30	69 - 130
1,1,1-Trichloroethane	25.000	26.420	106	0.415	30	74 - 131
1,1,2-Trichloroethane	25.000	25.290	101	2.50	30	80 - 119

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

Matrix Spike Dup

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0851
Laboratory ID: B[B0851-MSD1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1703278-04

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Trichloroethene	25.000	41.310	89.4	1.49	30	79 - 123
Trichlorofluoromethane	25.000	26.370	105	2.14	30	65 - 141
1,2,3-Trichloropropane	25.000	25.990	104	2.28	30	73 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.000	25.000	100	0.757	30	70 - 136
1,2,4-Trimethylbenzene	25.000	41.720	61.7 *	5.30	30	76 - 124
1,3,5-Trimethylbenzene	25.000	23.880	91.5	5.77	30	75 - 124
Vinyl chloride	25.000	28.060	111	0.393	30	58 - 137
Total Xylenes	75.000	71.690	91.6	4.49	30	79 - 121
Acetone	320.00	332.49	104	2.65	30	39 - 160
Acetonitrile	160.00	229.19	143 *	9.61	30	50 - 142
Allyl chloride	32.000	33.460	105	0.780	30	68 - 130
t-Amyl Methyl ether	16.000	16.320	102	8.56	30	68 - 128
Benzyl chloride	32.000	29.870	93.3	2.90	30	42 - 138
t-Butyl alcohol	800.00	896.34	112	12.0	30	68 - 129
Carbon disulfide	32.000	34.990	109	0.00	30	64 - 133
Chloroprene	32.000	33.770	106	0.862	30	65 - 135
Diisopropyl ether	16.000	18.170	114	1.94	30	67 - 128
Ethyl t-butyl ether	16.000	15.330	95.8	3.52	30	70 - 127
2-Hexanone	320.00	305.08	95.3	0.242	30	57 - 139
Methyl ethyl ketone	160.00	149.51	93.4	5.97	30	56 - 143
Methyl isobutyl ketone	160.00	154.41	96.5	0.793	30	67 - 130
Vinyl acetate	160.00	146.74	91.7	3.28	30	54 - 146

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

26PZ01_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0960
Laboratory ID: B[B0960-MS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1703197-26

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Benzene	25.000	0.13000	22.990	91.4	79 - 120
Bromobenzene	25.000	ND	25.630	103	80 - 120
Bromochloromethane	25.000	ND	23.810	95.2	78 - 123
Bromodichloromethane	25.000	ND	24.940	99.8	79 - 125
Bromoform	25.000	ND	25.350	101	66 - 130
Bromomethane	25.000	ND	14.970	59.9	53 - 141
n-Butylbenzene	25.000	2.3100	25.820	94.0	75 - 128
sec-Butylbenzene	25.000	1.9500	23.970	88.1	77 - 126
tert-Butylbenzene	25.000	ND	22.740	91.0	78 - 124
Carbon tetrachloride	25.000	ND	25.080	100	72 - 136
Chlorobenzene	25.000	ND	23.990	96.0	82 - 118
Chloroethane	25.000	ND	23.510	94.0	60 - 138
Chloroform	25.000	ND	23.140	92.6	79 - 124
Chloromethane	25.000	ND	24.210	96.8	50 - 139
2-Chlorotoluene	25.000	ND	24.110	96.4	79 - 122
4-Chlorotoluene	25.000	ND	23.590	94.4	78 - 122
Dibromochloromethane	25.000	ND	26.110	104	74 - 126
1,2-Dibromo-3-chloropropane	25.000	ND	26.560	106	62 - 128
1,2-Dibromoethane	25.000	ND	26.610	106	77 - 121
Dibromomethane	25.000	ND	23.560	94.2	79 - 123
1,2-Dichlorobenzene	25.000	ND	23.160	92.6	80 - 119
1,3-Dichlorobenzene	25.000	ND	21.850	87.4	80 - 119
1,4-Dichlorobenzene	25.000	ND	22.590	90.4	79 - 118
Dichlorodifluoromethane	25.000	ND	19.500	78.0	32 - 152
1,1-Dichloroethane	25.000	1.9700	22.780	83.2	77 - 125

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

26PZ01_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0960
Laboratory ID: B[B0960-MS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1703197-26

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
1,2-Dichloroethane	25.000	ND	24.240	97.0	73 - 128
1,1-Dichloroethene	25.000	ND	23.710	94.8	71 - 131
cis-1,2-Dichloroethene	25.000	1.9100	24.590	90.7	78 - 123
trans-1,2-Dichloroethene	25.000	0.75000	23.930	92.7	75 - 124
1,2-Dichloropropane	25.000	ND	23.150	92.6	78 - 122
1,3-Dichloropropane	25.000	ND	25.020	100	80 - 119
2,2-Dichloropropane	25.000	ND	25.560	102	60 - 139
1,1-Dichloropropene	25.000	ND	24.060	96.2	79 - 125
cis-1,3-Dichloropropene	25.000	ND	23.670	94.7	75 - 124
trans-1,3-Dichloropropene	25.000	ND	25.050	100	73 - 127
Ethylbenzene	25.000	5.9200	28.150	88.9	79 - 121
Hexachlorobutadiene	25.000	ND	27.450	110	66 - 134
Isopropylbenzene	25.000	2.6300	25.280	90.6	72 - 131
p-Isopropyltoluene	25.000	3.4400	25.490	88.2	77 - 127
Methylene chloride	25.000	ND	23.900	95.6	74 - 124
Methyl t-butyl ether	25.000	ND	25.410	102	71 - 124
Naphthalene	25.000	21.820	54.940	132 *	61 - 128
n-Propylbenzene	25.000	3.5600	26.210	90.6	76 - 126
Styrene	25.000	ND	24.550	98.2	78 - 123
1,1,1,2-Tetrachloroethane	25.000	ND	22.700	90.8	78 - 124
1,1,2,2-Tetrachloroethane	25.000	ND	26.380	106	71 - 121
Tetrachloroethene	25.000	0.38000	27.660	109	74 - 129
Toluene	25.000	0.81000	24.830	96.1	80 - 121
1,2,3-Trichlorobenzene	25.000	ND	30.900	124	69 - 129
1,2,4-Trichlorobenzene	25.000	ND	30.100	120	69 - 130

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

26PZ01_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0960
Laboratory ID: B[B0960-MS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1703197-26

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
1,1,1-Trichloroethane	25.000	ND	24.750	99.0	74 - 131
1,1,2-Trichloroethane	25.000	ND	26.410	106	80 - 119
Trichloroethene	25.000	1.0400	26.370	101	79 - 123
Trichlorofluoromethane	25.000	ND	25.090	100	65 - 141
1,2,3-Trichloropropane	25.000	ND	27.520	110	73 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.000	25.570	44.440	75.5	70 - 136
1,2,4-Trimethylbenzene	25.000	27.150	42.980	63.3 *	76 - 124
1,3,5-Trimethylbenzene	25.000	7.3900	28.380	84.0	75 - 124
Vinyl chloride	25.000	1.4800	26.720	101	58 - 137
Total Xylenes	75.000	41.550	106.47	86.6	79 - 121
Acetone	320.00	ND	335.71	105	39 - 160
Acetonitrile	160.00	ND	225.78	141	50 - 142
Allyl chloride	32.000	ND	30.880	96.5	68 - 130
t-Amyl Methyl ether	16.000	ND	15.640	97.8	68 - 128
Benzyl chloride	32.000	ND	34.600	108	42 - 138
t-Butyl alcohol	800.00	ND	909.20	114	68 - 129
Carbon disulfide	32.000	ND	32.650	102	64 - 133
Chloroprene	32.000	ND	31.810	99.4	65 - 135
Diisopropyl ether	16.000	ND	16.970	106	67 - 128
Ethyl t-butyl ether	16.000	ND	14.680	91.8	70 - 127
2-Hexanone	320.00	ND	337.70	106	57 - 139
Methyl ethyl ketone	160.00	ND	152.15	95.1	56 - 143
Methyl isobutyl ketone	160.00	ND	164.99	103	67 - 130
Vinyl acetate	160.00	ND	143.84	89.9	54 - 146

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

26PZ01_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0960
Laboratory ID: B[B0960-MSD1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1703197-26

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	25.000	24.510	97.5	6.40	30	79 - 120
Bromobenzene	25.000	26.280	105	2.50	30	80 - 120
Bromochloromethane	25.000	24.770	99.1	3.95	30	78 - 123
Bromodichloromethane	25.000	25.700	103	3.00	30	79 - 125
Bromoform	25.000	26.370	105	3.94	30	66 - 130
Bromomethane	25.000	17.650	70.6	16.4	30	53 - 141
n-Butylbenzene	25.000	28.260	104	9.02	30	75 - 128
sec-Butylbenzene	25.000	25.520	94.3	6.26	30	77 - 126
tert-Butylbenzene	25.000	23.740	95.0	4.30	30	78 - 124
Carbon tetrachloride	25.000	27.240	109	8.26	30	72 - 136
Chlorobenzene	25.000	24.900	99.6	3.72	30	82 - 118
Chloroethane	25.000	25.850	103	9.48	30	60 - 138
Chloroform	25.000	24.870	99.5	7.21	30	79 - 124
Chloromethane	25.000	25.620	102	5.66	30	50 - 139
2-Chlorotoluene	25.000	25.380	102	5.13	30	79 - 122
4-Chlorotoluene	25.000	25.300	101	7.00	30	78 - 122
Dibromochloromethane	25.000	27.320	109	4.53	30	74 - 126
1,2-Dibromo-3-chloropropane	25.000	26.660	107	0.376	30	62 - 128
1,2-Dibromoethane	25.000	28.840	115	8.04	30	77 - 121
Dibromomethane	25.000	24.810	99.2	5.17	30	79 - 123
1,2-Dichlorobenzene	25.000	24.190	96.8	4.35	30	80 - 119
1,3-Dichlorobenzene	25.000	22.630	90.5	3.51	30	80 - 119
1,4-Dichlorobenzene	25.000	23.490	94.0	3.91	30	79 - 118
Dichlorodifluoromethane	25.000	20.870	83.5	6.79	30	32 - 152
1,1-Dichloroethane	25.000	24.600	90.5	7.68	30	77 - 125
1,2-Dichloroethane	25.000	25.170	101	3.76	30	73 - 128

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

26PZ01_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0960
Laboratory ID: B[B0960-MSD1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1703197-26

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	25.000	25.160	101	5.93	30	71 - 131
cis-1,2-Dichloroethene	25.000	26.460	98.2	7.33	30	78 - 123
trans-1,2-Dichloroethene	25.000	25.510	99.0	6.39	30	75 - 124
1,2-Dichloropropane	25.000	24.130	96.5	4.15	30	78 - 122
1,3-Dichloropropane	25.000	26.580	106	6.05	30	80 - 119
2,2-Dichloropropane	25.000	26.700	107	4.36	30	60 - 139
1,1-Dichloropropene	25.000	26.280	105	8.82	30	79 - 125
cis-1,3-Dichloropropene	25.000	25.240	101	6.42	30	75 - 124
trans-1,3-Dichloropropene	25.000	26.920	108	7.20	30	73 - 127
Ethylbenzene	25.000	29.820	95.6	5.76	30	79 - 121
Hexachlorobutadiene	25.000	29.320	117	6.59	30	66 - 134
Isopropylbenzene	25.000	26.460	95.3	4.56	30	72 - 131
p-Isopropyltoluene	25.000	26.340	91.6	3.28	30	77 - 127
Methylene chloride	25.000	24.820	99.3	3.78	30	74 - 124
Methyl t-butyl ether	25.000	26.400	106	3.82	30	71 - 124
Naphthalene	25.000	59.310	150 *	7.65	30	61 - 128
n-Propylbenzene	25.000	27.230	94.7	3.82	30	76 - 126
Styrene	25.000	26.580	106	7.94	30	78 - 123
1,1,1,2-Tetrachloroethane	25.000	24.190	96.8	6.36	30	78 - 124
1,1,2,2-Tetrachloroethane	25.000	27.110	108	2.73	30	71 - 121
Tetrachloroethene	25.000	28.700	113	3.69	30	74 - 129
Toluene	25.000	26.460	103	6.36	30	80 - 121
1,2,3-Trichlorobenzene	25.000	33.240	133 *	7.30	30	69 - 129
1,2,4-Trichlorobenzene	25.000	31.960	128	5.99	30	69 - 130
1,1,1-Trichloroethane	25.000	25.580	102	3.30	30	74 - 131
1,1,2-Trichloroethane	25.000	27.560	110	4.26	30	80 - 119

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

26PZ01_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0960
Laboratory ID: B[B0960-MSD1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1703197-26

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Trichloroethene	25.000	27.280	105	3.39	30	79 - 123
Trichlorofluoromethane	25.000	26.340	105	4.86	30	65 - 141
1,2,3-Trichloropropane	25.000	27.050	108	1.72	30	73 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.000	48.890	93.3	9.54	30	70 - 136
1,2,4-Trimethylbenzene	25.000	46.620	77.9	8.12	30	76 - 124
1,3,5-Trimethylbenzene	25.000	28.180	83.2	0.707	30	75 - 124
Vinyl chloride	25.000	28.570	108	6.69	30	58 - 137
Total Xylenes	75.000	114.65	97.5	7.40	30	79 - 121
Acetone	320.00	344.08	108	2.46	30	39 - 160
Acetonitrile	160.00	246.32	154 *	8.70	30	50 - 142
Allyl chloride	32.000	32.860	103	6.21	30	68 - 130
t-Amyl Methyl ether	16.000	15.610	97.6	0.192	30	68 - 128
Benzyl chloride	32.000	35.320	110	2.06	30	42 - 138
t-Butyl alcohol	800.00	936.09	117	2.91	30	68 - 129
Carbon disulfide	32.000	36.760	115	11.8	30	64 - 133
Chloroprene	32.000	33.240	104	4.40	30	65 - 135
Diisopropyl ether	16.000	17.080	107	0.646	30	67 - 128
Ethyl t-butyl ether	16.000	14.860	92.9	1.22	30	70 - 127
2-Hexanone	320.00	338.61	106	0.269	30	57 - 139
Methyl ethyl ketone	160.00	154.34	96.5	1.43	30	56 - 143
Methyl isobutyl ketone	160.00	165.40	103	0.248	30	67 - 130
Vinyl acetate	160.00	145.12	90.7	0.886	30	54 - 146

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

Matrix Spike

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0963
Laboratory ID: B[B0963-MS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1703277-01

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Benzene	25.000	ND	22.010	88.0	79 - 120
Bromobenzene	25.000	ND	21.900	87.6	80 - 120
Bromochloromethane	25.000	ND	22.860	91.4	78 - 123
Bromodichloromethane	25.000	ND	23.860	95.4	79 - 125
Bromoform	25.000	ND	23.440	93.8	66 - 130
Bromomethane	25.000	ND	16.960	67.8	53 - 141
n-Butylbenzene	25.000	ND	23.380	93.5	75 - 128
sec-Butylbenzene	25.000	ND	21.000	84.0	77 - 126
tert-Butylbenzene	25.000	ND	21.390	85.6	78 - 124
Carbon tetrachloride	25.000	ND	25.990	104	72 - 136
Chlorobenzene	25.000	ND	23.980	95.9	82 - 118
Chloroethane	25.000	ND	23.780	95.1	60 - 138
Chloroform	25.000	ND	23.000	92.0	79 - 124
Chloromethane	25.000	ND	24.830	99.3	50 - 139
2-Chlorotoluene	25.000	ND	23.250	93.0	79 - 122
4-Chlorotoluene	25.000	ND	22.580	90.3	78 - 122
Dibromochloromethane	25.000	ND	24.380	97.5	74 - 126
1,2-Dibromo-3-chloropropane	25.000	ND	20.340	81.4	62 - 128
1,2-Dibromoethane	25.000	ND	23.170	92.7	77 - 121
Dibromomethane	25.000	ND	22.120	88.5	79 - 123
1,2-Dichlorobenzene	25.000	ND	21.940	87.8	80 - 119
1,3-Dichlorobenzene	25.000	ND	21.580	86.3	80 - 119
1,4-Dichlorobenzene	25.000	ND	23.240	93.0	79 - 118
Dichlorodifluoromethane	25.000	ND	26.560	106	32 - 152
1,1-Dichloroethane	25.000	ND	20.950	83.8	77 - 125

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

Matrix Spike

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0963
Laboratory ID: B[B0963-MS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1703277-01

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
1,2-Dichloroethane	25.000	ND	22.390	89.6	73 - 128
1,1-Dichloroethene	25.000	ND	25.250	101	71 - 131
cis-1,2-Dichloroethene	25.000	0.12000	23.340	92.9	78 - 123
trans-1,2-Dichloroethene	25.000	0.16000	23.640	93.9	75 - 124
1,2-Dichloropropane	25.000	ND	21.720	86.9	78 - 122
1,3-Dichloropropane	25.000	ND	23.380	93.5	80 - 119
2,2-Dichloropropane	25.000	ND	25.090	100	60 - 139
1,1-Dichloropropene	25.000	ND	25.020	100	79 - 125
cis-1,3-Dichloropropene	25.000	ND	22.610	90.4	75 - 124
trans-1,3-Dichloropropene	25.000	ND	22.660	90.6	73 - 127
Ethylbenzene	25.000	ND	23.500	94.0	79 - 121
Hexachlorobutadiene	25.000	ND	25.370	101	66 - 134
Isopropylbenzene	25.000	ND	21.750	87.0	72 - 131
p-Isopropyltoluene	25.000	ND	22.330	89.3	77 - 127
Methylene chloride	25.000	ND	22.870	91.5	74 - 124
Methyl t-butyl ether	25.000	ND	22.430	89.7	71 - 124
Naphthalene	25.000	ND	24.520	98.1	61 - 128
n-Propylbenzene	25.000	ND	22.040	88.2	76 - 126
Styrene	25.000	ND	23.750	95.0	78 - 123
1,1,1,2-Tetrachloroethane	25.000	ND	22.590	90.4	78 - 124
1,1,2,2-Tetrachloroethane	25.000	ND	22.220	88.9	71 - 121
Tetrachloroethene	25.000	ND	27.270	109	74 - 129
Toluene	25.000	ND	23.570	94.3	80 - 121
1,2,3-Trichlorobenzene	25.000	ND	23.360	93.4	69 - 129
1,2,4-Trichlorobenzene	25.000	ND	23.590	94.4	69 - 130

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

Matrix Spike

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0963
Laboratory ID: B[B0963-MS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1703277-01

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
1,1,1-Trichloroethane	25.000	ND	24.640	98.6	74 - 131
1,1,2-Trichloroethane	25.000	ND	22.870	91.5	80 - 119
Trichloroethene	25.000	0.20000	25.470	101	79 - 123
Trichlorofluoromethane	25.000	ND	25.110	100	65 - 141
1,2,3-Trichloropropane	25.000	ND	23.370	93.5	73 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.000	ND	23.600	94.4	70 - 136
1,2,4-Trimethylbenzene	25.000	ND	22.770	91.1	76 - 124
1,3,5-Trimethylbenzene	25.000	ND	21.630	86.5	75 - 124
Vinyl chloride	25.000	1.1600	26.390	101	58 - 137
Total Xylenes	75.000	ND	69.500	92.7	79 - 121
Acetone	320.00	ND	302.94	94.7	39 - 160
Acetonitrile	160.00	ND	209.53	131	50 - 142
Allyl chloride	32.000	ND	30.800	96.2	68 - 130
t-Amyl Methyl ether	16.000	ND	14.630	91.4	68 - 128
Benzyl chloride	32.000	ND	31.300	97.8	42 - 138
t-Butyl alcohol	800.00	ND	802.40	100	68 - 129
Carbon disulfide	32.000	ND	32.990	103	64 - 133
Chloroprene	32.000	ND	31.840	99.5	65 - 135
Diisopropyl ether	16.000	ND	16.900	106	67 - 128
Ethyl t-butyl ether	16.000	ND	14.210	88.8	70 - 127
2-Hexanone	320.00	ND	295.52	92.4	57 - 139
Methyl ethyl ketone	160.00	ND	155.25	97.0	56 - 143
Methyl isobutyl ketone	160.00	ND	141.47	88.4	67 - 130
Vinyl acetate	160.00	ND	132.37	82.7	54 - 146

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

Matrix Spike Dup

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0963
Laboratory ID: B[B0963-MSD1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1703277-01

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	25.000	23.280	93.1	5.61	30	79 - 120
Bromobenzene	25.000	22.760	91.0	3.85	30	80 - 120
Bromochloromethane	25.000	25.580	102	11.2	30	78 - 123
Bromodichloromethane	25.000	24.030	96.1	0.710	30	79 - 125
Bromoform	25.000	24.430	97.7	4.14	30	66 - 130
Bromomethane	25.000	21.460	85.8	23.4	30	53 - 141
n-Butylbenzene	25.000	21.900	87.6	6.54	30	75 - 128
sec-Butylbenzene	25.000	20.170	80.7	4.03	30	77 - 126
tert-Butylbenzene	25.000	20.620	82.5	3.67	30	78 - 124
Carbon tetrachloride	25.000	25.580	102	1.59	30	72 - 136
Chlorobenzene	25.000	23.330	93.3	2.75	30	82 - 118
Chloroethane	25.000	24.580	98.3	3.31	30	60 - 138
Chloroform	25.000	24.490	98.0	6.28	30	79 - 124
Chloromethane	25.000	26.530	106	6.62	30	50 - 139
2-Chlorotoluene	25.000	21.860	87.4	6.16	30	79 - 122
4-Chlorotoluene	25.000	22.210	88.8	1.65	30	78 - 122
Dibromochloromethane	25.000	25.620	102	4.96	30	74 - 126
1,2-Dibromo-3-chloropropane	25.000	23.490	94.0	14.4	30	62 - 128
1,2-Dibromoethane	25.000	24.180	96.7	4.27	30	77 - 121
Dibromomethane	25.000	22.860	91.4	3.29	30	79 - 123
1,2-Dichlorobenzene	25.000	22.170	88.7	1.04	30	80 - 119
1,3-Dichlorobenzene	25.000	20.630	82.5	4.50	30	80 - 119
1,4-Dichlorobenzene	25.000	22.920	91.7	1.39	30	79 - 118
Dichlorodifluoromethane	25.000	26.080	104	1.82	30	32 - 152
1,1-Dichloroethane	25.000	22.350	89.4	6.47	30	77 - 125
1,2-Dichloroethane	25.000	24.620	98.5	9.49	30	73 - 128

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

Matrix Spike Dup

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0963
Laboratory ID: B[B0963-MSD1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1703277-01

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	25.000	26.710	107	5.62	30	71 - 131
cis-1,2-Dichloroethene	25.000	24.620	98.0	5.34	30	78 - 123
trans-1,2-Dichloroethene	25.000	24.850	98.8	4.99	30	75 - 124
1,2-Dichloropropane	25.000	22.920	91.7	5.38	30	78 - 122
1,3-Dichloropropane	25.000	23.780	95.1	1.70	30	80 - 119
2,2-Dichloropropane	25.000	26.190	105	4.29	30	60 - 139
1,1-Dichloropropene	25.000	24.620	98.5	1.61	30	79 - 125
cis-1,3-Dichloropropene	25.000	23.910	95.6	5.59	30	75 - 124
trans-1,3-Dichloropropene	25.000	24.890	99.6	9.38	30	73 - 127
Ethylbenzene	25.000	22.850	91.4	2.80	30	79 - 121
Hexachlorobutadiene	25.000	23.440	93.8	7.91	30	66 - 134
Isopropylbenzene	25.000	20.390	81.6	6.45	30	72 - 131
p-Isopropyltoluene	25.000	20.780	83.1	7.19	30	77 - 127
Methylene chloride	25.000	24.910	99.6	8.54	30	74 - 124
Methyl t-butyl ether	25.000	26.900	108	18.1	30	71 - 124
Naphthalene	25.000	27.850	111	12.7	30	61 - 128
n-Propylbenzene	25.000	21.260	85.0	3.60	30	76 - 126
Styrene	25.000	23.300	93.2	1.91	30	78 - 123
1,1,1,2-Tetrachloroethane	25.000	22.760	91.0	0.750	30	78 - 124
1,1,2,2-Tetrachloroethane	25.000	23.520	94.1	5.68	30	71 - 121
Tetrachloroethene	25.000	24.740	99.0	9.73	30	74 - 129
Toluene	25.000	22.700	90.8	3.76	30	80 - 121
1,2,3-Trichlorobenzene	25.000	24.700	98.8	5.58	30	69 - 129
1,2,4-Trichlorobenzene	25.000	24.280	97.1	2.88	30	69 - 130
1,1,1-Trichloroethane	25.000	25.330	101	2.76	30	74 - 131
1,1,2-Trichloroethane	25.000	24.720	98.9	7.77	30	80 - 119

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

Matrix Spike Dup

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0963
Laboratory ID: B[B0963-MSD1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1703277-01

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Trichloroethene	25.000	25.280	100	0.749	30	79 - 123
Trichlorofluoromethane	25.000	26.020	104	3.56	30	65 - 141
1,2,3-Trichloropropane	25.000	25.610	102	9.15	30	73 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.000	23.960	95.8	1.51	30	70 - 136
1,2,4-Trimethylbenzene	25.000	22.090	88.4	3.03	30	76 - 124
1,3,5-Trimethylbenzene	25.000	20.920	83.7	3.34	30	75 - 124
Vinyl chloride	25.000	28.780	110	8.66	30	58 - 137
Total Xylenes	75.000	68.800	91.7	1.01	30	79 - 121
Acetone	320.00	325.22	102	7.09	30	39 - 160
Acetonitrile	160.00	217.74	136	3.84	30	50 - 142
Allyl chloride	32.000	32.430	101	5.16	30	68 - 130
t-Amyl Methyl ether	16.000	16.640	104	12.9	30	68 - 128
Benzyl chloride	32.000	32.890	103	4.95	30	42 - 138
t-Butyl alcohol	800.00	955.50	119	17.4	30	68 - 129
Carbon disulfide	32.000	33.220	104	0.695	30	64 - 133
Chloroprene	32.000	32.750	102	2.82	30	65 - 135
Diisopropyl ether	16.000	17.330	108	2.51	30	67 - 128
Ethyl t-butyl ether	16.000	15.660	97.9	9.71	30	70 - 127
2-Hexanone	320.00	309.40	96.7	4.59	30	57 - 139
Methyl ethyl ketone	160.00	151.58	94.7	2.39	30	56 - 143
Methyl isobutyl ketone	160.00	154.04	96.3	8.51	30	67 - 130
Vinyl acetate	160.00	145.51	90.9	9.46	30	54 - 146

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0851
Laboratory ID: B[B0851-BS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Benzene	25.000	26.160	105	79 - 120
Bromobenzene	25.000	25.290	101	80 - 120
Bromochloromethane	25.000	25.560	102	78 - 123
Bromodichloromethane	25.000	25.320	101	79 - 125
Bromoform	25.000	24.030	96.1	66 - 130
Bromomethane	25.000	21.860	87.4	53 - 141
n-Butylbenzene	25.000	25.950	104	75 - 128
sec-Butylbenzene	25.000	24.100	96.4	77 - 126
tert-Butylbenzene	25.000	24.880	99.5	78 - 124
Carbon tetrachloride	25.000	28.560	114	72 - 136
Chlorobenzene	25.000	25.360	101	82 - 118
Chloroethane	25.000	25.690	103	60 - 138
Chloroform	25.000	26.100	104	79 - 124
Chloromethane	25.000	25.970	104	50 - 139
2-Chlorotoluene	25.000	25.300	101	79 - 122
4-Chlorotoluene	25.000	24.710	98.8	78 - 122
Dibromochloromethane	25.000	25.080	100	74 - 126
1,2-Dibromo-3-chloropropane	25.000	21.080	84.3	62 - 128
1,2-Dibromoethane	25.000	24.310	97.2	77 - 121
Dibromomethane	25.000	22.350	89.4	79 - 123
1,2-Dichlorobenzene	25.000	23.800	95.2	80 - 119
1,3-Dichlorobenzene	25.000	22.350	89.4	80 - 119
1,4-Dichlorobenzene	25.000	23.840	95.4	79 - 118
Dichlorodifluoromethane	25.000	23.720	94.9	32 - 152

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0851
Laboratory ID: B[B0851-BS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
1,1-Dichloroethane	25.000	24.730	98.9	77 - 125
1,2-Dichloroethane	25.000	25.030	100	73 - 128
1,1-Dichloroethene	25.000	27.210	109	71 - 131
cis-1,2-Dichloroethene	25.000	26.190	105	78 - 123
trans-1,2-Dichloroethene	25.000	27.080	108	75 - 124
1,2-Dichloropropane	25.000	24.080	96.3	78 - 122
1,3-Dichloropropane	25.000	23.580	94.3	80 - 119
2,2-Dichloropropane	25.000	28.560	114	60 - 139
1,1-Dichloropropene	25.000	28.280	113	79 - 125
cis-1,3-Dichloropropene	25.000	23.920	95.7	75 - 124
trans-1,3-Dichloropropene	25.000	24.320	97.3	73 - 127
Ethylbenzene	25.000	25.960	104	79 - 121
Hexachlorobutadiene	25.000	27.840	111	66 - 134
Isopropylbenzene	25.000	24.560	98.2	72 - 131
p-Isopropyltoluene	25.000	24.600	98.4	77 - 127
Methylene chloride	25.000	27.170	109	74 - 124
Methyl t-butyl ether	25.000	26.020	104	71 - 124
Naphthalene	25.000	26.820	107	61 - 128
n-Propylbenzene	25.000	24.440	97.8	76 - 126
Styrene	25.000	25.730	103	78 - 123
1,1,1,2-Tetrachloroethane	25.000	24.700	98.8	78 - 124
1,1,2,2-Tetrachloroethane	25.000	24.130	96.5	71 - 121
Tetrachloroethene	25.000	28.400	114	74 - 129
Toluene	25.000	25.370	101	80 - 121

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0851
Laboratory ID: B[B0851-BS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
1,2,3-Trichlorobenzene	25.000	28.030	112	69 - 129
1,2,4-Trichlorobenzene	25.000	28.140	113	69 - 130
1,1,1-Trichloroethane	25.000	27.660	111	74 - 131
1,1,2-Trichloroethane	25.000	24.480	97.9	80 - 119
Trichloroethene	25.000	26.620	106	79 - 123
Trichlorofluoromethane	25.000	29.170	117	65 - 141
1,2,3-Trichloropropane	25.000	24.500	98.0	73 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.000	26.580	106	70 - 136
1,2,4-Trimethylbenzene	25.000	24.330	97.3	76 - 124
1,3,5-Trimethylbenzene	25.000	24.070	96.3	75 - 124
Vinyl chloride	25.000	28.720	115	58 - 137
Total Xylenes	75.000	75.710	101	79 - 121
Acetone	320.00	320.83	100	39 - 160
Acetonitrile	160.00	210.41	132	50 - 142
Allyl chloride	32.000	35.180	110	68 - 130
t-Amyl Methyl ether	16.000	15.870	99.2	68 - 128
Benzyl chloride	32.000	31.330	97.9	42 - 138
t-Butyl alcohol	800.00	844.63	106	68 - 129
Carbon disulfide	32.000	36.900	115	64 - 133
Chloroprene	32.000	36.080	113	65 - 135
Diisopropyl ether	16.000	18.510	116	67 - 128
Ethyl t-butyl ether	16.000	15.390	96.2	70 - 127
2-Hexanone	320.00	302.11	94.4	57 - 139
Methyl ethyl ketone	160.00	160.83	101	56 - 143

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0851
Laboratory ID: B[B0851-BS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Methyl isobutyl ketone	160.00	150.04	93.8	67 - 130
Vinyl acetate	160.00	146.71	91.7	54 - 146

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0960
Laboratory ID: B[B0960-BS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Benzene	25.000	25.310	101	79 - 120
Bromobenzene	25.000	26.270	105	80 - 120
Bromochloromethane	25.000	25.030	100	78 - 123
Bromodichloromethane	25.000	25.840	103	79 - 125
Bromoform	25.000	24.990	100	66 - 130
Bromomethane	25.000	16.010	64.0	53 - 141
n-Butylbenzene	25.000	27.180	109	75 - 128
sec-Butylbenzene	25.000	25.350	101	77 - 126
tert-Butylbenzene	25.000	25.740	103	78 - 124
Carbon tetrachloride	25.000	27.700	111	72 - 136
Chlorobenzene	25.000	25.880	104	82 - 118
Chloroethane	25.000	26.360	105	60 - 138
Chloroform	25.000	25.290	101	79 - 124
Chloromethane	25.000	26.680	107	50 - 139
2-Chlorotoluene	25.000	26.300	105	79 - 122
4-Chlorotoluene	25.000	25.090	100	78 - 122
Dibromochloromethane	25.000	25.860	103	74 - 126
1,2-Dibromo-3-chloropropane	25.000	24.850	99.4	62 - 128
1,2-Dibromoethane	25.000	25.300	101	77 - 121
Dibromomethane	25.000	23.590	94.4	79 - 123
1,2-Dichlorobenzene	25.000	23.880	95.5	80 - 119
1,3-Dichlorobenzene	25.000	24.600	98.4	80 - 119
1,4-Dichlorobenzene	25.000	25.410	102	79 - 118
Dichlorodifluoromethane	25.000	24.280	97.1	32 - 152

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0960
Laboratory ID: B[B0960-BS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
1,1-Dichloroethane	25.000	23.130	92.5	77 - 125
1,2-Dichloroethane	25.000	24.450	97.8	73 - 128
1,1-Dichloroethene	25.000	26.300	105	71 - 131
cis-1,2-Dichloroethene	25.000	25.420	102	78 - 123
trans-1,2-Dichloroethene	25.000	25.580	102	75 - 124
1,2-Dichloropropane	25.000	24.090	96.4	78 - 122
1,3-Dichloropropane	25.000	24.470	97.9	80 - 119
2,2-Dichloropropane	25.000	28.230	113	60 - 139
1,1-Dichloropropene	25.000	27.010	108	79 - 125
cis-1,3-Dichloropropene	25.000	25.550	102	75 - 124
trans-1,3-Dichloropropene	25.000	25.040	100	73 - 127
Ethylbenzene	25.000	25.910	104	79 - 121
Hexachlorobutadiene	25.000	29.760	119	66 - 134
Isopropylbenzene	25.000	25.620	102	72 - 131
p-Isopropyltoluene	25.000	26.260	105	77 - 127
Methylene chloride	25.000	25.750	103	74 - 124
Methyl t-butyl ether	25.000	24.180	96.7	71 - 124
Naphthalene	25.000	28.790	115	61 - 128
n-Propylbenzene	25.000	25.110	100	76 - 126
Styrene	25.000	27.050	108	78 - 123
1,1,1,2-Tetrachloroethane	25.000	24.820	99.3	78 - 124
1,1,2,2-Tetrachloroethane	25.000	25.020	100	71 - 121
Tetrachloroethene	25.000	30.210	121	74 - 129
Toluene	25.000	26.280	105	80 - 121

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0960
Laboratory ID: B[B0960-BS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
1,2,3-Trichlorobenzene	25.000	29.090	116	69 - 129
1,2,4-Trichlorobenzene	25.000	29.790	119	69 - 130
1,1,1-Trichloroethane	25.000	27.290	109	74 - 131
1,1,2-Trichloroethane	25.000	24.670	98.7	80 - 119
Trichloroethene	25.000	27.620	110	79 - 123
Trichlorofluoromethane	25.000	27.990	112	65 - 141
1,2,3-Trichloropropane	25.000	28.650	115	73 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.000	26.430	106	70 - 136
1,2,4-Trimethylbenzene	25.000	25.600	102	76 - 124
1,3,5-Trimethylbenzene	25.000	24.680	98.7	75 - 124
Vinyl chloride	25.000	28.630	115	58 - 137
Total Xylenes	75.000	79.160	106	79 - 121
Acetone	320.00	332.84	104	39 - 160
Acetonitrile	160.00	231.32	145 *	50 - 142
Allyl chloride	32.000	35.400	111	68 - 130
t-Amyl Methyl ether	16.000	16.060	100	68 - 128
Benzyl chloride	32.000	32.680	102	42 - 138
t-Butyl alcohol	800.00	834.75	104	68 - 129
Carbon disulfide	32.000	37.550	117	64 - 133
Chloroprene	32.000	36.440	114	65 - 135
Diisopropyl ether	16.000	17.710	111	67 - 128
Ethyl t-butyl ether	16.000	15.090	94.3	70 - 127
2-Hexanone	320.00	304.63	95.2	57 - 139
Methyl ethyl ketone	160.00	150.40	94.0	56 - 143

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0960
Laboratory ID: B[B0960-BS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Methyl isobutyl ketone	160.00	151.98	95.0	67 - 130
Vinyl acetate	160.00	142.41	89.0	54 - 146

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0963
Laboratory ID: B[B0963-BS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Benzene	25.000	25.130	101	79 - 120
Bromobenzene	25.000	26.310	105	80 - 120
Bromochloromethane	25.000	26.150	105	78 - 123
Bromodichloromethane	25.000	27.090	108	79 - 125
Bromoform	25.000	27.470	110	66 - 130
Bromomethane	25.000	15.670	62.7	53 - 141
n-Butylbenzene	25.000	27.610	110	75 - 128
sec-Butylbenzene	25.000	24.880	99.5	77 - 126
tert-Butylbenzene	25.000	26.180	105	78 - 124
Carbon tetrachloride	25.000	29.600	118	72 - 136
Chlorobenzene	25.000	28.190	113	82 - 118
Chloroethane	25.000	27.580	110	60 - 138
Chloroform	25.000	25.520	102	79 - 124
Chloromethane	25.000	28.590	114	50 - 139
2-Chlorotoluene	25.000	27.690	111	79 - 122
4-Chlorotoluene	25.000	27.540	110	78 - 122
Dibromochloromethane	25.000	27.750	111	74 - 126
1,2-Dibromo-3-chloropropane	25.000	24.420	97.7	62 - 128
1,2-Dibromoethane	25.000	26.920	108	77 - 121
Dibromomethane	25.000	25.000	100	79 - 123
1,2-Dichlorobenzene	25.000	25.640	103	80 - 119
1,3-Dichlorobenzene	25.000	25.640	103	80 - 119
1,4-Dichlorobenzene	25.000	27.510	110	79 - 118
Dichlorodifluoromethane	25.000	32.510	130	32 - 152

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0963
Laboratory ID: B[B0963-BS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
1,1-Dichloroethane	25.000	24.120	96.5	77 - 125
1,2-Dichloroethane	25.000	25.850	103	73 - 128
1,1-Dichloroethene	25.000	29.940	120	71 - 131
cis-1,2-Dichloroethene	25.000	26.330	105	78 - 123
trans-1,2-Dichloroethene	25.000	27.830	111	75 - 124
1,2-Dichloropropane	25.000	24.670	98.7	78 - 122
1,3-Dichloropropane	25.000	26.020	104	80 - 119
2,2-Dichloropropane	25.000	29.740	119	60 - 139
1,1-Dichloropropene	25.000	28.190	113	79 - 125
cis-1,3-Dichloropropene	25.000	25.700	103	75 - 124
trans-1,3-Dichloropropene	25.000	26.630	107	73 - 127
Ethylbenzene	25.000	27.980	112	79 - 121
Hexachlorobutadiene	25.000	32.220	129	66 - 134
Isopropylbenzene	25.000	26.100	104	72 - 131
p-Isopropyltoluene	25.000	26.520	106	77 - 127
Methylene chloride	25.000	26.290	105	74 - 124
Methyl t-butyl ether	25.000	25.360	101	71 - 124
Naphthalene	25.000	29.360	117	61 - 128
n-Propylbenzene	25.000	26.240	105	76 - 126
Styrene	25.000	27.830	111	78 - 123
1,1,1,2-Tetrachloroethane	25.000	26.030	104	78 - 124
1,1,2,2-Tetrachloroethane	25.000	26.010	104	71 - 121
Tetrachloroethene	25.000	30.810	123	74 - 129
Toluene	25.000	27.900	112	80 - 121

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0963
Laboratory ID: B[B0963-BS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
1,2,3-Trichlorobenzene	25.000	27.750	111	69 - 129
1,2,4-Trichlorobenzene	25.000	28.980	116	69 - 130
1,1,1-Trichloroethane	25.000	28.080	112	74 - 131
1,1,2-Trichloroethane	25.000	26.110	104	80 - 119
Trichloroethene	25.000	30.050	120	79 - 123
Trichlorofluoromethane	25.000	30.670	123	65 - 141
1,2,3-Trichloropropane	25.000	27.620	110	73 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.000	28.390	114	70 - 136
1,2,4-Trimethylbenzene	25.000	26.930	108	76 - 124
1,3,5-Trimethylbenzene	25.000	25.760	103	75 - 124
Vinyl chloride	25.000	30.840	123	58 - 137
Total Xylenes	75.000	82.180	110	79 - 121
Acetone	320.00	352.53	110	39 - 160
Acetonitrile	160.00	235.25	147 *	50 - 142
Allyl chloride	32.000	36.540	114	68 - 130
t-Amyl Methyl ether	16.000	15.650	97.8	68 - 128
Benzyl chloride	32.000	35.540	111	42 - 138
t-Butyl alcohol	800.00	864.39	108	68 - 129
Carbon disulfide	32.000	37.840	118	64 - 133
Chloroprene	32.000	37.720	118	65 - 135
Diisopropyl ether	16.000	18.710	117	67 - 128
Ethyl t-butyl ether	16.000	15.110	94.4	70 - 127
2-Hexanone	320.00	317.29	99.2	57 - 139
Methyl ethyl ketone	160.00	151.42	94.6	56 - 143

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0963
Laboratory ID: B[B0963-BS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Methyl isobutyl ketone	160.00	155.94	97.5	67 - 130
Vinyl acetate	160.00	147.42	92.1	54 - 146

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Sequence:	1702048	Instrument:	MS-V5
Matrix:	Water	Calibration:	1702011

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1702048-TUN1	26JAN03.D	01/26/17 12:01
Cal Standard	1702048-CAL1	26JAN06.D	01/26/17 16:07
Cal Standard	1702048-CAL2	26JAN07.D	01/26/17 16:30
Cal Standard	1702048-CAL3	26JAN08.D	01/26/17 16:53
Cal Standard	1702048-CAL5	26JAN10.D	01/26/17 17:39
Cal Standard	1702048-CAL6	26JAN11.D	01/26/17 18:02
Cal Standard	1702048-CAL4	26JAN14.D	01/26/17 19:12
MS Tune	1702048-TUN2	07FEB05.D	02/07/17 08:42
Cal Standard	1702048-CAL7	07FEB07.D	02/07/17 09:30
Cal Standard	1702048-CAL8	07FEB08.D	02/07/17 09:53
Cal Standard	1702048-CAL9	07FEB09.D	02/07/17 10:17
Cal Standard	1702048-CALA	07FEB10.D	02/07/17 10:40
Cal Standard	1702048-CALB	07FEB11.D	02/07/17 11:03
Cal Standard	1702048-CALC	07FEB12.D	02/07/17 11:27
MS Tune	1702048-TUN3	13DEC05.D	12/13/16 09:45
Cal Standard	1702048-CALD	13DEC06.D	12/13/16 10:10
Cal Standard	1702048-CALE	13DEC07.D	12/13/16 10:32
Cal Standard	1702048-CALF	13DEC08.D	12/13/16 10:55
Cal Standard	1702048-CALG	13DEC09.D	12/13/16 11:18
Cal Standard	1702048-CALH	13DEC10.D	12/13/16 11:41
Cal Standard	1702048-CALI	13DEC11.D	12/13/16 12:04

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Sequence:	1702254	Instrument:	MS-V5
Matrix:	Water	Calibration:	1702011

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	1702254-ICV1	26JAN15.D	01/26/17 19:35
Initial Cal Blank	1702254-ICB1	26JAN17.D	01/26/17 20:23
Initial Cal Check	1702254-ICV2	07FEB15.D	02/07/17 12:46
Initial Cal Blank	1702254-ICB2	07FEB17.D	02/07/17 13:33
MS Tune	1702254-TUN1	09FEB05.D	02/09/17 06:41
Calibration Check	1702254-CCV1	09FEB06.D	02/09/17 07:04
Calibration Check	1702254-CCV2	09FEB07.D	02/09/17 07:28
Calibration Blank	1702254-CCB1	09FEB08.D	02/09/17 07:51
Blank	B[B0851-BLK1	09FEB29.D	02/09/17 16:09
LCS	B[B0851-BS1	09FEB31.D	02/09/17 16:55
Matrix Spike	B[B0851-MS1	09FEB32.D	02/09/17 17:18
Matrix Spike Dup	B[B0851-MSD1	09FEB33.D	02/09/17 17:41
MS Tune	1702254-TUN2	09FEB35.D	02/09/17 18:28
Calibration Check	1702254-CCV3	09FEB36.D	02/09/17 18:51
Calibration Check	1702254-CCV4	09FEB37.D	02/09/17 19:14
Calibration Blank	1702254-CCB2	09FEB38.D	02/09/17 19:37

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Sequence: 1702340
Instrument: MS-V5
Matrix: Water
Calibration: 1702011

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	1702340-ICV1	26JAN15.D	01/26/17 19:35
Initial Cal Blank	1702340-ICB1	26JAN17.D	01/26/17 20:23
Initial Cal Check	1702340-ICV2	07FEB15.D	02/07/17 12:46
Initial Cal Blank	1702340-ICB2	07FEB17.D	02/07/17 13:33
MS Tune	1702340-TUN1	10FEB01.D	02/10/17 06:04
Calibration Check	1702340-CCV1	10FEB02.D	02/10/17 06:27
Calibration Check	1702340-CCV2	10FEB03.D	02/10/17 06:50
Calibration Blank	1702340-CCB1	10FEB04.D	02/10/17 07:14
27EW-05_170203	1703197-01	10FEB14.D	02/10/17 11:06
27EW-12_170203	1703197-02	10FEB15.D	02/10/17 11:29
27EW-19_170203	1703197-03	10FEB16.D	02/10/17 11:53
27MW02_170203	1703197-04	10FEB17.D	02/10/17 12:16
DUP18_170203	1703197-05	10FEB18.D	02/10/17 12:39
Blank	B[B0960-BLK1	10FEB20.D	02/10/17 13:43
26PZ01_170203	1703197-26	10FEB21.D	02/10/17 14:06
LCS	B[B0960-BS1	10FEB22.D	02/10/17 14:29
26PZ01_170203	B[B0960-MS1	10FEB23.D	02/10/17 14:53
26PZ01_170203	B[B0960-MSD1	10FEB24.D	02/10/17 15:16
M10B-01_170203	1703197-06	10FEB27.D	02/10/17 16:25
MW4-2-1_170203	1703197-07	10FEB28.D	02/10/17 16:48
MS Tune	1702340-TUN2	10FEB31.D	02/10/17 17:58
Calibration Check	1702340-CCV3	10FEB32.D	02/10/17 18:22
Calibration Check	1702340-CCV4	10FEB33.D	02/10/17 18:45
Calibration Blank	1702340-CCB2	10FEB34.D	02/10/17 19:08
TB11_170203	1703197-23	10FEB35.D	02/10/17 19:31
TB12_170203	1703197-24	10FEB36.D	02/10/17 19:55

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San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Sequence: 1702340
Instrument: MS-V5
Matrix: Water
Calibration: 1702011

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
EB20_170203	1703197-30	10FEB37.D	02/10/17 20:18
EB21_170203	1703197-31	10FEB38.D	02/10/17 20:41
EB22_170203	1703197-32	10FEB39.D	02/10/17 21:05
EB23_170203	1703197-33	10FEB40.D	02/10/17 21:28
MW4-2-18_170203	1703197-08	10FEB41.D	02/10/17 21:51
MW530-1_170203	1703197-09	10FEB42.D	02/10/17 22:15
S4-TT-MW02A_170203	1703197-10	10FEB43.D	02/10/17 22:38
SMLS-01_170203	1703197-11	10FEB44.D	02/10/17 23:01
SMLS-07_170203	1703197-12	10FEB45.D	02/10/17 23:24
26MW08_170203	1703197-13	10FEB46.D	02/10/17 23:48
27EW-15_170203	1703197-14	10FEB47.D	02/11/17 00:11
27EW-20_170203	1703197-15	10FEB48.D	02/11/17 00:34
DUP12_170203	1703197-16	10FEB49.D	02/11/17 00:57
M04-05_170203	1703197-17	10FEB50.D	02/11/17 01:21
M13-07_170203	1703197-18	10FEB51.D	02/11/17 01:44
MW530-2_170203	1703197-19	10FEB52.D	02/11/17 02:07
S4-TT-MW02B_170203	1703197-20	10FEB53.D	02/11/17 02:30
S4-TT-MW02C_170203	1703197-21	10FEB54.D	02/11/17 02:53
26PZ03_170203	1703197-27	10FEB57.D	02/11/17 04:03
27MW06_170203	1703197-28	10FEB58.D	02/11/17 04:26
DUP07_170203	1703197-29	10FEB59.D	02/11/17 04:49
M13-09_170203	1703197-34	10FEB60.D	02/11/17 05:12
MS Tune	1702340-TUN3	10FEB61.D	02/11/17 05:35
Calibration Check	1702340-CCV5	10FEB63.D	02/11/17 06:21
Calibration Check	1702340-CCV6	10FEB64.D	02/11/17 06:44
Calibration Blank	1702340-CCB3	10FEB65.D	02/11/17 07:07

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Project: Alameda
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Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Sequence: 1702423
Instrument: MS-V5
Matrix: Water
Calibration: 1702011

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	1702423-ICV1	26JAN15.D	01/26/17 19:35
Initial Cal Blank	1702423-ICB1	26JAN17.D	01/26/17 20:23
Initial Cal Check	1702423-ICV2	07FEB15.D	02/07/17 12:46
Initial Cal Blank	1702423-ICB2	07FEB17.D	02/07/17 13:33
MS Tune	1702423-TUN1	12FEB01.D	02/12/17 05:04
Calibration Check	1702423-CCV1	12FEB02.D	02/12/17 05:28
Calibration Check	1702423-CCV2	12FEB03.D	02/12/17 05:51
Calibration Blank	1702423-CCB1	12FEB05.D	02/12/17 06:37
Blank	B[B0963-BLK1	12FEB06.D	02/12/17 07:01
S4-TT-MW02D_170203	1703197-22	12FEB07.D	02/12/17 07:24
26MW03_170203	1703197-25	12FEB08.D	02/12/17 07:47
LCS	B[B0963-BS1	12FEB11.D	02/12/17 08:56
Matrix Spike	B[B0963-MS1	12FEB12.D	02/12/17 09:19
Matrix Spike Dup	B[B0963-MSD1	12FEB13.D	02/12/17 09:43
MWOR-4_170203	1703197-35	12FEB29.D	02/12/17 15:53
DUP18_170203	1703197-05RE1	12FEB30.D	02/12/17 16:16
MS Tune	1702423-TUN2	12FEB32.D	02/12/17 17:02
Calibration Check	1702423-CCV4	12FEB33.D	02/12/17 17:25
Calibration Check	1702423-CCV5	12FEB34.D	02/12/17 17:48
Calibration Blank	1702423-CCB2	12FEB35.D	02/12/17 18:11
S4-TT-MW02A_170203	1703197-10RE1	12FEB51.D	02/13/17 00:22
SMLS-01_170203	1703197-11RE1	12FEB52.D	02/13/17 00:45
S4-TT-MW02C_170203	1703197-21RE1	12FEB53.D	02/13/17 01:08
MS Tune	1702423-TUN3	12FEB63.D	02/13/17 05:00
Calibration Check	1702423-CCV6	12FEB64.D	02/13/17 05:23
Calibration Check	1702423-CCV7	12FEB65.D	02/13/17 05:46

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ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Sequence:	1702423	Instrument:	MS-V5
Matrix:	Water	Calibration:	1702011

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Blank	1702423-CCB3	12FEB66.D	02/13/17 06:09

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MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Lab File ID:	26JAN03.D	Injection Date:	01/26/17
Instrument ID:	MS-V5	Injection Time:	12:01
Sequence:	1702048	Lab Sample ID:	1702048-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	32.2	PASS
Mass 75	30 - 60% of Mass 95	50.9	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	6.86	PASS
Mass 173	Less than 2% of Mass 174	0	PASS
Mass 174	50 - 100% of Mass 95	64.3	PASS
Mass 175	5 - 9% of Mass 174	7.93	PASS
Mass 176	95 - 101% of Mass 174	98.5	PASS
Mass 177	5 - 9% of Mass 176	5.13	PASS

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MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Lab File ID:	07FEB05.D	Injection Date:	02/07/17
Instrument ID:	MS-V5	Injection Time:	08:42
Sequence:	1702048	Lab Sample ID:	1702048-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	25.6	PASS
Mass 75	30 - 60% of Mass 95	46.1	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	6.48	PASS
Mass 173	Less than 2% of Mass 174	0.982	PASS
Mass 174	50 - 100% of Mass 95	89.9	PASS
Mass 175	5 - 9% of Mass 174	8.56	PASS
Mass 176	95 - 101% of Mass 174	101	PASS
Mass 177	5 - 9% of Mass 176	5.99	PASS

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MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Lab File ID:	13DEC05.D	Injection Date:	12/13/16
Instrument ID:	MS-V5	Injection Time:	09:45
Sequence:	1702048	Lab Sample ID:	1702048-TUN3

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	25.9	PASS
Mass 75	30 - 60% of Mass 95	54.3	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	6.64	PASS
Mass 173	Less than 2% of Mass 174	1.48	PASS
Mass 174	50 - 100% of Mass 95	75.1	PASS
Mass 175	5 - 9% of Mass 174	7.62	PASS
Mass 176	95 - 101% of Mass 174	98	PASS
Mass 177	5 - 9% of Mass 176	6.02	PASS

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MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Lab File ID:	09FEB05.D	Injection Date:	02/09/17
Instrument ID:	MS-V5	Injection Time:	06:41
Sequence:	1702254	Lab Sample ID:	1702254-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	27.2	PASS
Mass 75	30 - 60% of Mass 95	42.6	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	5.57	PASS
Mass 173	Less than 2% of Mass 174	0.643	PASS
Mass 174	50 - 100% of Mass 95	90	PASS
Mass 175	5 - 9% of Mass 174	7.12	PASS
Mass 176	95 - 101% of Mass 174	100	PASS
Mass 177	5 - 9% of Mass 176	6.76	PASS

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MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Lab File ID:	09FEB35.D	Injection Date:	02/09/17
Instrument ID:	MS-V5	Injection Time:	18:28
Sequence:	1702254	Lab Sample ID:	1702254-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	24.9	PASS
Mass 75	30 - 60% of Mass 95	47.5	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	6.46	PASS
Mass 173	Less than 2% of Mass 174	0.861	PASS
Mass 174	50 - 100% of Mass 95	78.5	PASS
Mass 175	5 - 9% of Mass 174	5.85	PASS
Mass 176	95 - 101% of Mass 174	97.1	PASS
Mass 177	5 - 9% of Mass 176	8.24	PASS

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MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Lab File ID:	10FEB01.D	Injection Date:	02/10/17
Instrument ID:	MS-V5	Injection Time:	06:04
Sequence:	1702340	Lab Sample ID:	1702340-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	22.8	PASS
Mass 75	30 - 60% of Mass 95	47.2	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	5.03	PASS
Mass 173	Less than 2% of Mass 174	0	PASS
Mass 174	50 - 100% of Mass 95	99.5	PASS
Mass 175	5 - 9% of Mass 174	8.63	PASS
Mass 176	95 - 101% of Mass 174	99	PASS
Mass 177	5 - 9% of Mass 176	6.11	PASS

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MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Lab File ID:	10FEB31.D	Injection Date:	02/10/17
Instrument ID:	MS-V5	Injection Time:	17:58
Sequence:	1702340	Lab Sample ID:	1702340-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	24.3	PASS
Mass 75	30 - 60% of Mass 95	39.9	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	6.17	PASS
Mass 173	Less than 2% of Mass 174	1.89	PASS
Mass 174	50 - 100% of Mass 95	78.1	PASS
Mass 175	5 - 9% of Mass 174	8.75	PASS
Mass 176	95 - 101% of Mass 174	96.7	PASS
Mass 177	5 - 9% of Mass 176	6.05	PASS

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MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Lab File ID:	10FEB61.D	Injection Date:	02/11/17
Instrument ID:	MS-V5	Injection Time:	05:35
Sequence:	1702340	Lab Sample ID:	1702340-TUN3

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	24.1	PASS
Mass 75	30 - 60% of Mass 95	46.1	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	5.67	PASS
Mass 173	Less than 2% of Mass 174	0	PASS
Mass 174	50 - 100% of Mass 95	93.6	PASS
Mass 175	5 - 9% of Mass 174	7.58	PASS
Mass 176	95 - 101% of Mass 174	101	PASS
Mass 177	5 - 9% of Mass 176	6.02	PASS

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MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Lab File ID:	12FEB01.D	Injection Date:	02/12/17
Instrument ID:	MS-V5	Injection Time:	05:04
Sequence:	1702423	Lab Sample ID:	1702423-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	26.7	PASS
Mass 75	30 - 60% of Mass 95	50.4	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	7.33	PASS
Mass 173	Less than 2% of Mass 174	1.13	PASS
Mass 174	50 - 100% of Mass 95	72.6	PASS
Mass 175	5 - 9% of Mass 174	6.33	PASS
Mass 176	95 - 101% of Mass 174	98.6	PASS
Mass 177	5 - 9% of Mass 176	8.49	PASS

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MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Lab File ID:	12FEB32.D	Injection Date:	02/12/17
Instrument ID:	MS-V5	Injection Time:	17:02
Sequence:	1702423	Lab Sample ID:	1702423-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	22.2	PASS
Mass 75	30 - 60% of Mass 95	46.1	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	6.67	PASS
Mass 173	Less than 2% of Mass 174	0.786	PASS
Mass 174	50 - 100% of Mass 95	93.9	PASS
Mass 175	5 - 9% of Mass 174	6.53	PASS
Mass 176	95 - 101% of Mass 174	98.6	PASS
Mass 177	5 - 9% of Mass 176	6.58	PASS

AMEC Environmental & Infrastructure
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MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Lab File ID:	12FEB63.D	Injection Date:	02/13/17
Instrument ID:	MS-V5	Injection Time:	05:00
Sequence:	1702423	Lab Sample ID:	1702423-TUN3

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	25.5	PASS
Mass 75	30 - 60% of Mass 95	40.4	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	6.88	PASS
Mass 173	Less than 2% of Mass 174	0	PASS
Mass 174	50 - 100% of Mass 95	83.5	PASS
Mass 175	5 - 9% of Mass 174	8.46	PASS
Mass 176	95 - 101% of Mass 174	99.4	PASS
Mass 177	5 - 9% of Mass 176	8.29	PASS

AMEC Environmental & Infrastructure
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Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	26JAN15.D	Calibration Date:	01/26/17 17:00
Sequence:	1702254	Injection Date:	01/26/17
Lab Sample ID:	1702254-ICV1	Injection Time:	19:35

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Benzene	A	25.000	24.520	1.889545	1.853263		-1.9	20
Bromobenzene	A	25.000	26.750	1.179324	1.261962		7.0	20
Bromochloromethane	A	25.000	27.870	0.1547174	0.1724858		11.5	20
Bromodichloromethane	A	25.000	26.320	0.3292103	0.3466539		5.3	20
Bromoform	A	25.000	29.540	0.3506939	0.4143899	0.1	18.2	20
Bromomethane	A	25.000	25.400	0.3180084	0.323081		1.6	20
n-Butylbenzene	A	25.000	24.450	3.493597	3.416282		-2.2	20
sec-Butylbenzene	A	25.000	22.320	5.379312	4.803427		-10.7	20
tert-Butylbenzene	A	25.000	24.540	3.852201	3.780801		-1.9	20
Carbon tetrachloride	A	25.000	24.550	0.4688551	0.4604308		-1.8	20
Chlorobenzene	A	25.000	25.550	2.978027	3.04388	0.3	2.2	20
Chloroethane	A	25.000	25.010	0.3902835	0.3904325		0.04	20
Chloroform	A	25.000	25.080	0.7548469	0.7572197		0.3	20
Chloromethane	L	25.000	21.450	0.6989857	0.5449247	0.1	-14.2	20
2-Chlorotoluene	A	25.000	25.230	3.666018	3.699401		0.9	20
4-Chlorotoluene	A	25.000	25.250	3.285453	3.318671		1.0	20
Dibromochloromethane	A	25.000	28.210	0.1708407	0.1927603		12.8	20
1,2-Dibromo-3-chloropropane	L	25.000	26.780	0.0666406	0.0808198		7.1	20
1,2-Dibromoethane	A	25.000	28.160	0.1390115	0.1565905		12.6	20
Dibromomethane	A	25.000	25.600	0.1132441	0.1159592		2.4	20
1,2-Dichlorobenzene	A	25.000	25.120	1.693334	1.701651		0.5	20
1,3-Dichlorobenzene	A	25.000	23.440	2.068389	1.939285		-6.2	20
1,4-Dichlorobenzene	A	25.000	25.950	1.916207	1.989058		3.8	20

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	26JAN15.D	Calibration Date:	01/26/17 17:00
Sequence:	1702254	Injection Date:	01/26/17
Lab Sample ID:	1702254-ICV1	Injection Time:	19:35

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Dichlorodifluoromethane	A	25.000	23.190	0.4765408	0.4420548		-7.2	20
1,1-Dichloroethane	A	25.000	25.000	1.030991	1.031141	0.1	0.01	20
1,2-Dichloroethane	A	25.000	26.060	0.438219	0.4568204		4.2	20
1,1-Dichloroethene	A	25.000	24.850	0.7766588	0.7719666		-0.6	20
cis-1,2-Dichloroethene	A	25.000	25.440	0.46668	0.474977		1.8	20
trans-1,2-Dichloroethene	A	25.000	23.910	0.4502706	0.4305847		-4.4	20
1,2-Dichloropropane	A	25.000	25.240	0.3723232	0.3758662		1.0	20
1,3-Dichloropropane	A	25.000	27.900	0.2667047	0.2976682		11.6	20
2,2-Dichloropropane	A	25.000	23.050	0.6461859	0.595668		-7.8	20
1,1-Dichloropropene	A	25.000	24.340	0.61317	0.5969539		-2.6	20
cis-1,3-Dichloropropene	A	25.000	25.890	0.436368	0.4519754		3.6	20
trans-1,3-Dichloropropene	A	25.000	27.510	0.3001727	0.3303126		10.0	20
Ethylbenzene	A	25.000	24.810	1.699115	1.686003		-0.8	20
Hexachlorobutadiene	A	25.000	22.520	0.8012975	0.7218586		-9.9	20
Isopropylbenzene	A	25.000	23.670	5.188549	4.913541		-5.3	20
p-Isopropyltoluene	A	25.000	22.960	4.064913	3.733001		-8.2	20
Methylene chloride	L	25.000	27.090	0.601454	0.4144394		8.4	20
Methyl t-butyl ether	A	25.000	29.040	0.6285989	0.7300879		16.1	20
Naphthalene	A	25.000	28.850	1.162765	1.341925		15.4	20
n-Propylbenzene	A	25.000	23.210	5.959786	5.533521		-7.2	20
Styrene	A	25.000	26.030	2.90027	3.020175		4.1	20
1,1,1,2-Tetrachloroethane	A	25.000	25.800	0.9261768	0.9556971		3.2	20
1,1,2,2-Tetrachloroethane	A	25.000	28.950	0.555952	0.6436956	0.3	15.8	20

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	26JAN15.D	Calibration Date:	01/26/17 17:00
Sequence:	1702254	Injection Date:	01/26/17
Lab Sample ID:	1702254-ICV1	Injection Time:	19:35

	(1) CAL	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Tetrachloroethene	A	25.000	23.430	0.3412463	0.3197576		-6.3	20
Toluene	A	25.000	24.190	0.7797766	0.7546079		-3.2	20
1,2,3-Trichlorobenzene	A	25.000	26.710	1.02527	1.095334		6.8	20
1,2,4-Trichlorobenzene	A	25.000	26.280	1.194842	1.256226		5.1	20
1,1,1-Trichloroethane	A	25.000	24.320	0.6397625	0.6223499		-2.7	20
1,1,2-Trichloroethane	A	25.000	28.140	0.1533095	0.1725615		12.6	20
Trichloroethene	A	25.000	25.380	0.3255704	0.3305227		1.5	20
Trichlorofluoromethane	A	25.000	23.360	0.5867905	0.5482351		-6.6	20
1,2,3-Trichloropropane	L	25.000	29.760	0.105337	0.1291837		19.0	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	22.390	0.4183029	0.3745928		-10.4	20
1,2,4-Trimethylbenzene	A	25.000	24.970	3.597754	3.593467		-0.1	20
1,3,5-Trimethylbenzene	A	25.000	23.180	3.970515	3.680896		-7.3	20
Vinyl chloride	A	25.000	20.170	0.5958562	0.4807637		-19.3	20
Total Xylenes	A	75.000	74.270	1.988127	1.96886		-1.0	20
p- & m-Xylenes	A	50.000	49.530	2.011739	1.992895		-0.9	20
o-Xylene	A	25.000	24.740	1.940902	1.920791		-1.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	07FEB15.D	Calibration Date:	01/26/17 17:00
Sequence:	1702254	Injection Date:	02/07/17
Lab Sample ID:	1702254-ICV2	Injection Time:	12:46

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Acetone	A	320.00	315.03	0.044841	4.414517E-02		-1.6	20
Acetonitrile	L	160.00	201.66	1.965066E-02	2.067974E-02		26.0	20 *
Allyl chloride	A	32.000	31.180	1.114402	1.08574		-2.6	20
t-Amyl Methyl ether	A	16.000	15.090	0.7281162	0.6866905		-5.7	20
Benzyl chloride	A	32.000	31.760	0.8656921	0.8592213		-0.7	20
t-Butyl alcohol	A	800.00	811.29	1.280474E-02	1.298544E-02		1.4	20
Carbon disulfide	A	32.000	32.220	1.344744	1.354047		0.7	20
Chloroprene	A	32.000	31.360	1.000946	0.9807911		-2.0	20
Diisopropyl ether	A	16.000	15.550	0.3174881	0.3085884		-2.8	20
Ethyl t-butyl ether	A	16.000	15.050	1.311089	1.233435		-5.9	20
2-Hexanone	Q	320.00	312.86	0.0923643	8.615645E-02		-2.2	20
Methyl ethyl ketone	A	160.00	154.88	0.0879739	0.0851614		-3.2	20
Methyl isobutyl ketone	A	160.00	147.91	0.1389299	0.12843		-7.6	20
Vinyl acetate	A	160.00	147.71	0.6344058	0.5856918		-7.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	09FEB06.D	Calibration Date:	01/26/17 17:00
Sequence:	1702254	Injection Date:	02/09/17
Lab Sample ID:	1702254-CCV1	Injection Time:	07:04

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)	
Benzene	A	25.000	23.550	1.889545	1.780185		-5.8	20	
Bromobenzene	A	25.000	26.610	1.179324	1.255043		6.4	20	
Bromochloromethane	A	25.000	25.110	0.1547174	0.1553811		0.4	20	
Bromodichloromethane	A	25.000	25.580	0.3292103	0.3368542		2.3	20	
Bromoform	A	25.000	25.170	0.3506939	0.3530552	0.1	0.7	20	
Bromomethane	A	25.000	10.990	0.3180084	0.139738		-56.1	20	*
n-Butylbenzene	A	25.000	27.160	3.493597	3.796093		8.7	20	
sec-Butylbenzene	A	25.000	24.890	5.379312	5.354979		-0.5	20	
tert-Butylbenzene	A	25.000	25.290	3.852201	3.896256		1.1	20	
Carbon tetrachloride	A	25.000	26.320	0.4688551	0.4935598		5.3	20	
Chlorobenzene	A	25.000	25.590	2.978027	3.048659	0.3	2.4	20	
Chloroethane	A	25.000	24.010	0.3902835	0.3748411		-4.0	20	
Chloroform	A	25.000	24.990	0.7548469	0.7545169		-0.04	20	
Chloromethane	L	25.000	21.970	0.6989857	0.5576885	0.1	-12.1	20	
2-Chlorotoluene	A	25.000	26.140	3.666018	3.833127		4.6	20	
4-Chlorotoluene	A	25.000	25.840	3.285453	3.395808		3.4	20	
Dibromochloromethane	A	25.000	25.010	0.1708407	0.1709205		0.05	20	
1,2-Dibromo-3-chloropropane	L	25.000	23.650	0.0666406	7.142472E-02		-5.4	20	
1,2-Dibromoethane	A	25.000	24.810	0.1390115	0.1379678		-0.8	20	
Dibromomethane	A	25.000	23.460	0.1132441	0.1062545		-6.2	20	
1,2-Dichlorobenzene	A	25.000	24.950	1.693334	1.689815		-0.2	20	
1,3-Dichlorobenzene	A	25.000	24.020	2.068389	1.987516		-3.9	20	
1,4-Dichlorobenzene	A	25.000	26.200	1.916207	2.008466		4.8	20	

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	09FEB06.D	Calibration Date:	01/26/17 17:00
Sequence:	1702254	Injection Date:	02/09/17
Lab Sample ID:	1702254-CCV1	Injection Time:	07:04

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dichlorodifluoromethane	A	25.000	24.760	0.4765408	0.4720114		-1.0	20
1,1-Dichloroethane	A	25.000	24.080	1.030991	0.9929275	0.1	-3.7	20
1,2-Dichloroethane	A	25.000	24.160	0.438219	0.4235072		-3.4	20
1,1-Dichloroethene	A	25.000	25.470	0.7766588	0.7912001		1.9	20
cis-1,2-Dichloroethene	A	25.000	24.410	0.46668	0.4556711		-2.4	20
trans-1,2-Dichloroethene	A	25.000	24.280	0.4502706	0.4373866		-2.9	20
1,2-Dichloropropane	A	25.000	23.660	0.3723232	0.3523884		-5.4	20
1,3-Dichloropropane	A	25.000	24.950	0.2667047	0.266206		-0.2	20
2,2-Dichloropropane	A	25.000	27.050	0.6461859	0.699155		8.2	20
1,1-Dichloropropene	A	25.000	25.290	0.61317	0.6201904		1.1	20
cis-1,3-Dichloropropene	A	25.000	23.970	0.436368	0.4183592		-4.1	20
trans-1,3-Dichloropropene	A	25.000	24.580	0.3001727	0.2950821		-1.7	20
Ethylbenzene	A	25.000	26.110	1.699115	1.774877		4.5	20
Hexachlorobutadiene	A	25.000	29.470	0.8012975	0.9444844		17.9	20
Isopropylbenzene	A	25.000	25.270	5.188549	5.243947		1.1	20
p-Isopropyltoluene	A	25.000	25.970	4.064913	4.222348		3.9	20
Methylene chloride	L	25.000	27.280	0.601454	0.4170997		9.1	20
Methyl t-butyl ether	A	25.000	23.680	0.6285989	0.5954424		-5.3	20
Naphthalene	A	25.000	29.200	1.162765	1.358324		16.8	20
n-Propylbenzene	A	25.000	24.310	5.959786	5.796271		-2.7	20
Styrene	A	25.000	26.640	2.90027	3.091085		6.6	20
1,1,1,2-Tetrachloroethane	A	25.000	25.510	0.9261768	0.9452322		2.1	20
1,1,2,2-Tetrachloroethane	A	25.000	25.410	0.555952	0.5650988	0.3	1.6	20

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	09FEB06.D	Calibration Date:	01/26/17 17:00
Sequence:	1702254	Injection Date:	02/09/17
Lab Sample ID:	1702254-CCV1	Injection Time:	07:04

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Tetrachloroethene	A	25.000	28.960	0.3412463	0.3952725		15.8	20
Toluene	A	25.000	25.560	0.7797766	0.797175		2.2	20
1,2,3-Trichlorobenzene	A	25.000	30.000	1.02527	1.230462		20.0	20
1,2,4-Trichlorobenzene	A	25.000	29.430	1.194842	1.40679		17.7	20
1,1,1-Trichloroethane	A	25.000	26.350	0.6397625	0.6742534		5.4	20
1,1,2-Trichloroethane	A	25.000	24.100	0.1533095	0.1477777		-3.6	20
Trichloroethene	A	25.000	25.960	0.3255704	0.3381195		3.9	20
Trichlorofluoromethane	A	25.000	27.120	0.5867905	0.6365908		8.5	20
1,2,3-Trichloropropane	L	25.000	26.530	0.105337	0.1159868		6.1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	25.050	0.4183029	0.4191934		0.2	20
1,2,4-Trimethylbenzene	A	25.000	26.240	3.597754	3.776765		5.0	20
1,3,5-Trimethylbenzene	A	25.000	24.550	3.970515	3.899735		-1.8	20
Vinyl chloride	A	25.000	25.660	0.5958562	0.6114797		2.6	20
Total Xylenes	A	75.000	77.370	1.988127	2.05084		3.2	20
p- & m-Xylenes	A	50.000	51.420	2.011739	2.068969		2.8	20
o-Xylene	A	25.000	25.950	1.940902	2.014582		3.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	09FEB07.D	Calibration Date:	01/26/17 17:00
Sequence:	1702254	Injection Date:	02/09/17
Lab Sample ID:	1702254-CCV2	Injection Time:	07:28

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Acetone	A	320.00	319.00	0.044841	4.470116E-02		-0.3	20
Acetonitrile	L	160.00	206.36	1.965066E-02	2.112606E-02		29.0	20 *
Allyl chloride	A	32.000	28.330	1.114402	0.9865213		-11.5	20
t-Amyl Methyl ether	A	16.000	14.720	0.7281162	0.6699195		-8.0	20
Benzyl chloride	A	32.000	28.290	0.8656921	0.7653854		-11.6	20
t-Butyl alcohol	A	800.00	788.55	1.280474E-02	1.262149E-02		-1.4	20
Carbon disulfide	A	32.000	30.950	1.344744	1.300483		-3.3	20
Chloroprene	A	32.000	30.140	1.000946	0.9427101		-5.8	20
Diisopropyl ether	A	16.000	16.160	0.3174881	0.3206395		1.0	20
Ethyl t-butyl ether	A	16.000	14.790	1.311089	1.211877		-7.6	20
2-Hexanone	Q	320.00	310.16	0.0923643	8.553122E-02		-3.1	20
Methyl ethyl ketone	A	160.00	149.23	0.0879739	8.205226E-02		-6.7	20
Methyl isobutyl ketone	A	160.00	153.80	0.1389299	0.1335455		-3.9	20
Vinyl acetate	A	160.00	143.54	0.6344058	0.5691501		-10.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	09FEB36.D	Calibration Date:	01/26/17 17:00
Sequence:	1702254	Injection Date:	02/09/17
Lab Sample ID:	1702254-CCV3	Injection Time:	18:51

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)	
Benzene	A	25.000	24.890	1.889545	1.880904		-0.5	20	
Bromobenzene	A	25.000	25.410	1.179324	1.198471		1.6	20	
Bromochloromethane	A	25.000	27.140	0.1547174	0.1679844		8.6	20	
Bromodichloromethane	A	25.000	25.350	0.3292103	0.3337671		1.4	20	
Bromoform	A	25.000	25.470	0.3506939	0.3572578	0.1	1.9	20	
Bromomethane	A	25.000	18.160	0.3180084	0.2310224		-27.4	20	*
n-Butylbenzene	A	25.000	25.690	3.493597	3.590694		2.8	20	
sec-Butylbenzene	A	25.000	23.490	5.379312	5.05481		-6.0	20	
tert-Butylbenzene	A	25.000	23.530	3.852201	3.626184		-5.9	20	
Carbon tetrachloride	A	25.000	25.160	0.4688551	0.4719078		0.7	20	
Chlorobenzene	A	25.000	24.490	2.978027	2.917112	0.3	-2.0	20	
Chloroethane	A	25.000	25.380	0.3902835	0.3962819		1.5	20	
Chloroform	A	25.000	25.320	0.7548469	0.7645921		1.3	20	
Chloromethane	L	25.000	25.100	0.6989857	0.6345273	0.1	0.4	20	
2-Chlorotoluene	A	25.000	24.390	3.666018	3.57684		-2.4	20	
4-Chlorotoluene	A	25.000	23.920	3.285453	3.143769		-4.3	20	
Dibromochloromethane	A	25.000	25.710	0.1708407	0.1756974		2.8	20	
1,2-Dibromo-3-chloropropane	L	25.000	24.730	0.0666406	0.0746605		-1.1	20	
1,2-Dibromoethane	A	25.000	26.180	0.1390115	0.1455764		4.7	20	
Dibromomethane	A	25.000	23.870	0.1132441	0.1081351		-4.5	20	
1,2-Dichlorobenzene	A	25.000	23.920	1.693334	1.620404		-4.3	20	
1,3-Dichlorobenzene	A	25.000	22.340	2.068389	1.848157		-10.6	20	
1,4-Dichlorobenzene	A	25.000	24.060	1.916207	1.843792		-3.8	20	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	09FEB36.D	Calibration Date:	01/26/17 17:00
Sequence:	1702254	Injection Date:	02/09/17
Lab Sample ID:	1702254-CCV3	Injection Time:	18:51

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dichlorodifluoromethane	A	25.000	23.400	0.4765408	0.44596		-6.4	20
1,1-Dichloroethane	A	25.000	24.650	1.030991	1.016432	0.1	-1.4	20
1,2-Dichloroethane	A	25.000	24.990	0.438219	0.4379591		-0.06	20
1,1-Dichloroethene	A	25.000	25.210	0.7766588	0.7833189		0.9	20
cis-1,2-Dichloroethene	A	25.000	25.300	0.46668	0.4722396		1.2	20
trans-1,2-Dichloroethene	A	25.000	24.730	0.4502706	0.4454289		-1.1	20
1,2-Dichloropropane	A	25.000	24.690	0.3723232	0.3677565		-1.2	20
1,3-Dichloropropane	A	25.000	25.460	0.2667047	0.2716389		1.9	20
2,2-Dichloropropane	A	25.000	24.210	0.6461859	0.6257306		-3.2	20
1,1-Dichloropropene	A	25.000	25.220	0.61317	0.6185372		0.9	20
cis-1,3-Dichloropropene	A	25.000	23.840	0.436368	0.4161348		-4.6	20
trans-1,3-Dichloropropene	A	25.000	24.830	0.3001727	0.2980978		-0.7	20
Ethylbenzene	A	25.000	24.750	1.699115	1.682198		-1.0	20
Hexachlorobutadiene	A	25.000	25.510	0.8012975	0.8177451		2.1	20
Isopropylbenzene	A	25.000	24.010	5.188549	4.982249		-4.0	20
p-Isopropyltoluene	A	25.000	24.050	4.064913	3.91075		-3.8	20
Methylene chloride	L	25.000	26.180	0.601454	0.4018048		4.7	20
Methyl t-butyl ether	A	25.000	26.480	0.6285989	0.6658044		5.9	20
Naphthalene	A	25.000	28.170	1.162765	1.310242		12.7	20
n-Propylbenzene	A	25.000	23.760	5.959786	5.664384		-5.0	20
Styrene	A	25.000	26.010	2.90027	3.017717		4.0	20
1,1,1,2-Tetrachloroethane	A	25.000	24.380	0.9261768	0.9031667		-2.5	20
1,1,2,2-Tetrachloroethane	A	25.000	25.300	0.555952	0.562684	0.3	1.2	20

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	09FEB36.D	Calibration Date:	01/26/17 17:00
Sequence:	1702254	Injection Date:	02/09/17
Lab Sample ID:	1702254-CCV3	Injection Time:	18:51

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Tetrachloroethene	A	25.000	25.550	0.3412463	0.3487952		2.2	20
Toluene	A	25.000	24.340	0.7797766	0.759221		-2.6	20
1,2,3-Trichlorobenzene	A	25.000	28.000	1.02527	1.1483		12.0	20
1,2,4-Trichlorobenzene	A	25.000	27.840	1.194842	1.330606		11.4	20
1,1,1-Trichloroethane	A	25.000	25.550	0.6397625	0.6537181		2.2	20
1,1,2-Trichloroethane	A	25.000	25.520	0.1533095	0.1564777		2.1	20
Trichloroethene	A	25.000	26.240	0.3255704	0.3416784		4.9	20
Trichlorofluoromethane	A	25.000	25.470	0.5867905	0.5977766		1.9	20
1,2,3-Trichloropropane	L	25.000	26.740	0.105337	0.116855		7.0	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	24.920	0.4183029	0.4169003		-0.3	20
1,2,4-Trimethylbenzene	A	25.000	24.110	3.597754	3.469029		-3.6	20
1,3,5-Trimethylbenzene	A	25.000	23.100	3.970515	3.669017		-7.6	20
Vinyl chloride	A	25.000	26.460	0.5958562	0.6305861		5.8	20
Total Xylenes	A	75.000	75.170	1.988127	1.992757		0.2	20
p- & m-Xylenes	A	50.000	50.140	2.011739	2.017465		0.3	20
o-Xylene	A	25.000	25.030	1.940902	1.943341		0.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	09FEB37.D	Calibration Date:	01/26/17 17:00
Sequence:	1702254	Injection Date:	02/09/17
Lab Sample ID:	1702254-CCV4	Injection Time:	19:14

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Acetone	A	320.00	361.94	0.044841	5.071756E-02		13.1	20
Acetonitrile	L	160.00	238.04	1.965066E-02	2.413655E-02		48.8	20 *
Allyl chloride	A	32.000	31.350	1.114402	1.091767		-2.0	20
t-Amyl Methyl ether	A	16.000	15.830	0.7281162	0.7202977		-1.1	20
Benzyl chloride	A	32.000	26.040	0.8656921	0.7044824		-18.6	20
t-Butyl alcohol	A	800.00	833.82	1.280474E-02	1.334613E-02		4.2	20
Carbon disulfide	A	32.000	33.200	1.344744	1.395019		3.7	20
Chloroprene	A	32.000	32.080	1.000946	1.003377		0.2	20
Diisopropyl ether	A	16.000	16.750	0.3174881	0.3323942		4.7	20
Ethyl t-butyl ether	A	16.000	15.240	1.311089	1.249001		-4.7	20
2-Hexanone	Q	320.00	311.65	0.0923643	8.587705E-02		-2.6	20
Methyl ethyl ketone	A	160.00	179.65	0.0879739	9.877907E-02		12.3	20
Methyl isobutyl ketone	A	160.00	152.73	0.1389299	0.1326189		-4.5	20
Vinyl acetate	A	160.00	117.82	0.6344058	0.4671516		-26.4	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	26JAN15.D	Calibration Date:	01/26/17 17:00
Sequence:	1702340	Injection Date:	01/26/17
Lab Sample ID:	1702340-ICV1	Injection Time:	19:35

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Benzene	A	25.000	24.520	1.889545	1.853263		-1.9	20
Bromobenzene	A	25.000	26.750	1.179324	1.261962		7.0	20
Bromochloromethane	A	25.000	27.870	0.1547174	0.1724858		11.5	20
Bromodichloromethane	A	25.000	26.320	0.3292103	0.3466539		5.3	20
Bromoform	A	25.000	29.540	0.3506939	0.4143899	0.1	18.2	20
Bromomethane	A	25.000	25.400	0.3180084	0.323081		1.6	20
n-Butylbenzene	A	25.000	24.450	3.493597	3.416282		-2.2	20
sec-Butylbenzene	A	25.000	22.320	5.379312	4.803427		-10.7	20
tert-Butylbenzene	A	25.000	24.540	3.852201	3.780801		-1.9	20
Carbon tetrachloride	A	25.000	24.550	0.4688551	0.4604308		-1.8	20
Chlorobenzene	A	25.000	25.550	2.978027	3.04388	0.3	2.2	20
Chloroethane	A	25.000	25.010	0.3902835	0.3904325		0.04	20
Chloroform	A	25.000	25.080	0.7548469	0.7572197		0.3	20
Chloromethane	L	25.000	21.450	0.6989857	0.5449247	0.1	-14.2	20
2-Chlorotoluene	A	25.000	25.230	3.666018	3.699401		0.9	20
4-Chlorotoluene	A	25.000	25.250	3.285453	3.318671		1.0	20
Dibromochloromethane	A	25.000	28.210	0.1708407	0.1927603		12.8	20
1,2-Dibromo-3-chloropropane	L	25.000	26.780	0.0666406	0.0808198		7.1	20
1,2-Dibromoethane	A	25.000	28.160	0.1390115	0.1565905		12.6	20
Dibromomethane	A	25.000	25.600	0.1132441	0.1159592		2.4	20
1,2-Dichlorobenzene	A	25.000	25.120	1.693334	1.701651		0.5	20
1,3-Dichlorobenzene	A	25.000	23.440	2.068389	1.939285		-6.2	20
1,4-Dichlorobenzene	A	25.000	25.950	1.916207	1.989058		3.8	20

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	26JAN15.D	Calibration Date:	01/26/17 17:00
Sequence:	1702340	Injection Date:	01/26/17
Lab Sample ID:	1702340-ICV1	Injection Time:	19:35

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Dichlorodifluoromethane	A	25.000	23.190	0.4765408	0.4420548		-7.2	20
1,1-Dichloroethane	A	25.000	25.000	1.030991	1.031141	0.1	0.01	20
1,2-Dichloroethane	A	25.000	26.060	0.438219	0.4568204		4.2	20
1,1-Dichloroethene	A	25.000	24.850	0.7766588	0.7719666		-0.6	20
cis-1,2-Dichloroethene	A	25.000	25.440	0.46668	0.474977		1.8	20
trans-1,2-Dichloroethene	A	25.000	23.910	0.4502706	0.4305847		-4.4	20
1,2-Dichloropropane	A	25.000	25.240	0.3723232	0.3758662		1.0	20
1,3-Dichloropropane	A	25.000	27.900	0.2667047	0.2976682		11.6	20
2,2-Dichloropropane	A	25.000	23.050	0.6461859	0.595668		-7.8	20
1,1-Dichloropropene	A	25.000	24.340	0.61317	0.5969539		-2.6	20
cis-1,3-Dichloropropene	A	25.000	25.890	0.436368	0.4519754		3.6	20
trans-1,3-Dichloropropene	A	25.000	27.510	0.3001727	0.3303126		10.0	20
Ethylbenzene	A	25.000	24.810	1.699115	1.686003		-0.8	20
Hexachlorobutadiene	A	25.000	22.520	0.8012975	0.7218586		-9.9	20
Isopropylbenzene	A	25.000	23.670	5.188549	4.913541		-5.3	20
p-Isopropyltoluene	A	25.000	22.960	4.064913	3.733001		-8.2	20
Methylene chloride	L	25.000	27.090	0.601454	0.4144394		8.4	20
Methyl t-butyl ether	A	25.000	29.040	0.6285989	0.7300879		16.1	20
Naphthalene	A	25.000	28.850	1.162765	1.341925		15.4	20
n-Propylbenzene	A	25.000	23.210	5.959786	5.533521		-7.2	20
Styrene	A	25.000	26.030	2.90027	3.020175		4.1	20
1,1,1,2-Tetrachloroethane	A	25.000	25.800	0.9261768	0.9556971		3.2	20
1,1,2,2-Tetrachloroethane	A	25.000	28.950	0.555952	0.6436956	0.3	15.8	20

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	26JAN15.D	Calibration Date:	01/26/17 17:00
Sequence:	1702340	Injection Date:	01/26/17
Lab Sample ID:	1702340-ICV1	Injection Time:	19:35

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Tetrachloroethene	A	25.000	23.430	0.3412463	0.3197576		-6.3	20
Toluene	A	25.000	24.190	0.7797766	0.7546079		-3.2	20
1,2,3-Trichlorobenzene	A	25.000	26.710	1.02527	1.095334		6.8	20
1,2,4-Trichlorobenzene	A	25.000	26.280	1.194842	1.256226		5.1	20
1,1,1-Trichloroethane	A	25.000	24.320	0.6397625	0.6223499		-2.7	20
1,1,2-Trichloroethane	A	25.000	28.140	0.1533095	0.1725615		12.6	20
Trichloroethene	A	25.000	25.380	0.3255704	0.3305227		1.5	20
Trichlorofluoromethane	A	25.000	23.360	0.5867905	0.5482351		-6.6	20
1,2,3-Trichloropropane	L	25.000	29.760	0.105337	0.1291837		19.0	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	22.390	0.4183029	0.3745928		-10.4	20
1,2,4-Trimethylbenzene	A	25.000	24.970	3.597754	3.593467		-0.1	20
1,3,5-Trimethylbenzene	A	25.000	23.180	3.970515	3.680896		-7.3	20
Vinyl chloride	A	25.000	20.170	0.5958562	0.4807637		-19.3	20
Total Xylenes	A	75.000	74.270	1.988127	1.96886		-1.0	20
p- & m-Xylenes	A	50.000	49.530	2.011739	1.992895		-0.9	20
o-Xylene	A	25.000	24.740	1.940902	1.920791		-1.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	07FEB15.D	Calibration Date:	01/26/17 17:00
Sequence:	1702340	Injection Date:	02/07/17
Lab Sample ID:	1702340-ICV2	Injection Time:	12:46

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Acetone	A	320.00	315.03	0.044841	4.414517E-02		-1.6	20
Acetonitrile	L	160.00	201.66	1.965066E-02	2.067974E-02		26.0	20 *
Acrolein	A	200.00	186.42	0.0199267	1.857332E-02		-6.8	20
Acrylonitrile	A	80.000	81.340	6.371868E-02	6.478198E-02		1.7	20
Allyl chloride	A	32.000	31.180	1.114402	1.08574		-2.6	20
t-Amyl Methyl ether	A	16.000	15.090	0.7281162	0.6866905		-5.7	20
Benzyl chloride	A	32.000	31.760	0.8656921	0.8592213		-0.7	20
t-Butyl alcohol	A	800.00	811.29	1.280474E-02	1.298544E-02		1.4	20
Carbon disulfide	A	32.000	32.220	1.344744	1.354047		0.7	20
Chloroprene	A	32.000	31.360	1.000946	0.9807911		-2.0	20
Cyclohexane	A	25.000	25.810	1.086285	1.121441		3.2	20
Cyclohexanone	A	400.00	389.65	4.458125E-02	4.342801E-02		-2.6	20
trans-1,4-Dichloro-2-butene	A	80.000	76.690	0.1551532	0.1487324		-4.1	20
Diisopropyl ether	A	16.000	15.550	0.3174881	0.3085884		-2.8	20
Ethanol	A	4000.0	4721.0	1.543484E-03	1.821703E-03		18.0	20
Ethyl methacrylate	A	80.000	77.570	0.1775957	0.1721904		-3.0	20
Ethyl t-butyl ether	A	16.000	15.050	1.311089	1.233435		-5.9	20
2-Hexanone	Q	320.00	312.86	0.0923643	8.615645E-02		-2.2	20
Isobutanol	A	400.00	428.37	6.527947E-03	6.991015E-03		7.1	20
Methacrylonitrile	A	160.00	158.40	6.173201E-02	6.111602E-02		-1.0	20
Methylcyclohexane	A	25.000	24.850	0.617876	0.6141882		-0.6	20
Methyl ethyl ketone	A	160.00	154.88	0.0879739	0.0851614		-3.2	20
Methyl iodide	A	32.000	32.140	0.5848188	0.5874023		0.4	20

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	07FEB15.D	Calibration Date:	01/26/17 17:00
Sequence:	1702340	Injection Date:	02/07/17
Lab Sample ID:	1702340-ICV2	Injection Time:	12:46

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Methyl isobutyl ketone	A	160.00	147.91	0.1389299	0.12843		-7.6	20
Methyl methacrylate	A	80.000	76.700	8.339718E-02	7.995216E-02		-4.1	20
Propionitrile	A	400.00	409.66	2.300947E-02	2.356491E-02		2.4	20
Vinyl acetate	A	160.00	147.71	0.6344058	0.5856918		-7.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	10FEB02.D	Calibration Date:	01/26/17 17:00
Sequence:	1702340	Injection Date:	02/10/17
Lab Sample ID:	1702340-CCV1	Injection Time:	06:27

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)	
Benzene	A	25.000	25.100	1.889545	1.897065		0.4	20	
Bromobenzene	A	25.000	25.940	1.179324	1.223891		3.8	20	
Bromochloromethane	A	25.000	26.450	0.1547174	0.1637197		5.8	20	
Bromodichloromethane	A	25.000	25.790	0.3292103	0.3396615		3.2	20	
Bromoform	A	25.000	25.910	0.3506939	0.3634786	0.1	3.6	20	
Bromomethane	A	25.000	16.480	0.3180084	0.2096832		-34.1	20	*
n-Butylbenzene	A	25.000	26.550	3.493597	3.710435		6.2	20	
sec-Butylbenzene	A	25.000	25.000	5.379312	5.379252		-0.001	20	
tert-Butylbenzene	A	25.000	24.820	3.852201	3.825212		-0.7	20	
Carbon tetrachloride	A	25.000	28.020	0.4688551	0.5255107		12.1	20	
Chlorobenzene	A	25.000	25.700	2.978027	3.061192	0.3	2.8	20	
Chloroethane	A	25.000	26.540	0.3902835	0.4142865		6.2	20	
Chloroform	A	25.000	25.840	0.7548469	0.7802905		3.4	20	
Chloromethane	L	25.000	28.650	0.6989857	0.7214061	0.1	14.6	20	
2-Chlorotoluene	A	25.000	25.790	3.666018	3.782278		3.2	20	
4-Chlorotoluene	A	25.000	25.180	3.285453	3.309467		0.7	20	
Dibromochloromethane	A	25.000	26.420	0.1708407	0.1805393		5.7	20	
1,2-Dibromo-3-chloropropane	L	25.000	22.430	0.0666406	6.776286E-02		-10.3	20	
1,2-Dibromoethane	A	25.000	25.440	0.1390115	0.1414471		1.8	20	
Dibromomethane	A	25.000	24.320	0.1132441	0.1101824		-2.7	20	
1,2-Dichlorobenzene	A	25.000	23.980	1.693334	1.62436		-4.1	20	
1,3-Dichlorobenzene	A	25.000	23.930	2.068389	1.979812		-4.3	20	
1,4-Dichlorobenzene	A	25.000	25.420	1.916207	1.948193		1.7	20	

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	10FEB02.D	Calibration Date:	01/26/17 17:00
Sequence:	1702340	Injection Date:	02/10/17
Lab Sample ID:	1702340-CCV1	Injection Time:	06:27

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dichlorodifluoromethane	A	25.000	27.180	0.4765408	0.518137		8.7	20
1,1-Dichloroethane	A	25.000	24.930	1.030991	1.028065	0.1	-0.3	20
1,2-Dichloroethane	A	25.000	25.770	0.438219	0.4518011		3.1	20
1,1-Dichloroethene	A	25.000	27.220	0.7766588	0.8455953		8.9	20
cis-1,2-Dichloroethene	A	25.000	26.050	0.46668	0.4863274		4.2	20
trans-1,2-Dichloroethene	A	25.000	26.210	0.4502706	0.4720388		4.8	20
1,2-Dichloropropane	A	25.000	24.090	0.3723232	0.3587426		-3.6	20
1,3-Dichloropropane	A	25.000	24.990	0.2667047	0.2666359		-0.03	20
2,2-Dichloropropane	A	25.000	28.420	0.6461859	0.7344553		13.7	20
1,1-Dichloropropene	A	25.000	26.930	0.61317	0.66039		7.7	20
cis-1,3-Dichloropropene	A	25.000	24.760	0.436368	0.4321719		-1.0	20
trans-1,3-Dichloropropene	A	25.000	26.020	0.3001727	0.3124111		4.1	20
Ethylbenzene	A	25.000	26.140	1.699115	1.776889		4.6	20
Hexachlorobutadiene	A	25.000	29.420	0.8012975	0.9431199		17.7	20
Isopropylbenzene	A	25.000	25.210	5.188549	5.231826		0.8	20
p-Isopropyltoluene	A	25.000	25.640	4.064913	4.168734		2.6	20
Methylene chloride	L	25.000	25.800	0.601454	0.3965025		3.2	20
Methyl t-butyl ether	A	25.000	26.140	0.6285989	0.6572272		4.6	20
Naphthalene	A	25.000	26.970	1.162765	1.254176		7.9	20
n-Propylbenzene	A	25.000	24.660	5.959786	5.877738		-1.4	20
Styrene	A	25.000	26.360	2.90027	3.05833		5.4	20
1,1,1,2-Tetrachloroethane	A	25.000	25.050	0.9261768	0.9281508		0.2	20
1,1,2,2-Tetrachloroethane	A	25.000	25.260	0.555952	0.5616699	0.3	1.0	20

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	10FEB02.D	Calibration Date:	01/26/17 17:00
Sequence:	1702340	Injection Date:	02/10/17
Lab Sample ID:	1702340-CCV1	Injection Time:	06:27

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Tetrachloroethene	A	25.000	28.590	0.3412463	0.3902644		14.4	20
Toluene	A	25.000	25.460	0.7797766	0.7940035		1.8	20
1,2,3-Trichlorobenzene	A	25.000	28.170	1.02527	1.155074		12.7	20
1,2,4-Trichlorobenzene	A	25.000	28.560	1.194842	1.364806		14.2	20
1,1,1-Trichloroethane	A	25.000	26.980	0.6397625	0.6903773		7.9	20
1,1,2-Trichloroethane	A	25.000	25.060	0.1533095	0.153673		0.2	20
Trichloroethene	A	25.000	26.970	0.3255704	0.3512447		7.9	20
Trichlorofluoromethane	A	25.000	29.370	0.5867905	0.6894156		17.5	20
1,2,3-Trichloropropane	L	25.000	28.080	0.105337	0.1223044		12.3	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	26.630	0.4183029	0.4455427		6.5	20
1,2,4-Trimethylbenzene	A	25.000	25.800	3.597754	3.71242		3.2	20
1,3,5-Trimethylbenzene	A	25.000	24.060	3.970515	3.821059		-3.8	20
Vinyl chloride	A	25.000	29.470	0.5958562	0.7024753		17.9	20
Total Xylenes	A	75.000	77.380	1.988127	2.051539		3.2	20
p- & m-Xylenes	A	50.000	51.950	2.011739	2.090293		3.9	20
o-Xylene	A	25.000	25.430	1.940902	1.974032		1.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	10FEB03.D	Calibration Date:	01/26/17 17:00
Sequence:	1702340	Injection Date:	02/10/17
Lab Sample ID:	1702340-CCV2	Injection Time:	06:50

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)	
Acetone	A	320.00	375.92	0.044841	5.267717E-02		17.5	20	
Acetonitrile	L	160.00	230.99	1.965066E-02	2.346677E-02		44.4	20	*
Acrolein	A	200.00	315.20	0.0199267	3.140485E-02		57.6	20	*
Acrylonitrile	A	80.000	89.160	6.371868E-02	7.101426E-02		11.4	20	
Allyl chloride	A	32.000	32.280	1.114402	1.124265		0.9	20	
t-Amyl Methyl ether	A	16.000	16.210	0.7281162	0.7375446		1.3	20	
Benzyl chloride	A	32.000	31.310	0.8656921	0.8471597		-2.1	20	
t-Butyl alcohol	A	800.00	873.30	1.280474E-02	1.397802E-02		9.2	20	
Carbon disulfide	A	32.000	32.820	1.344744	1.379186		2.6	20	
Chloroprene	A	32.000	32.610	1.000946	1.019895		1.9	20	
Cyclohexane	A	25.000	27.870	1.086285	1.210956		11.5	20	
Cyclohexanone	A	400.00	248.65	4.458125E-02	2.771304E-02		-37.8	20	*
trans-1,4-Dichloro-2-butene	A	80.000	66.650	0.1551532	0.1292609		-16.7	20	
Diisopropyl ether	A	16.000	16.780	0.3174881	0.3329841		4.9	20	
Ethanol	A	4000.0	5085.5	1.543484E-03	1.962351E-03		27.1	20	*
Ethyl methacrylate	A	80.000	80.750	0.1775957	0.179268		0.9	20	
Ethyl t-butyl ether	A	16.000	15.230	1.311089	1.247805		-4.8	20	
2-Hexanone	Q	320.00	312.72	0.0923643	8.612243E-02		-2.3	20	
Isobutanol	A	400.00	443.16	6.527947E-03	7.232333E-03		10.8	20	
Methacrylonitrile	A	160.00	161.19	6.173201E-02	6.219169E-02		0.7	20	
Methylcyclohexane	A	25.000	25.910	0.617876	0.6403179		3.6	20	
Methyl ethyl ketone	A	160.00	171.15	0.0879739	9.410188E-02		7.0	20	
Methyl iodide	A	32.000	12.800	0.5848188	0.2339011		-60.0	20	*

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	10FEB03.D	Calibration Date:	01/26/17 17:00
Sequence:	1702340	Injection Date:	02/10/17
Lab Sample ID:	1702340-CCV2	Injection Time:	06:50

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Methyl isobutyl ketone	A	160.00	156.95	0.1389299	0.136279		-1.9	20
Methyl methacrylate	A	80.000	80.210	8.339718E-02	8.361147E-02		0.3	20
Propionitrile	A	400.00	437.53	2.300947E-02	2.516856E-02		9.4	20
Vinyl acetate	A	160.00	144.87	0.6344058	0.574405		-9.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	10FEB32.D	Calibration Date:	01/26/17 17:00
Sequence:	1702340	Injection Date:	02/10/17
Lab Sample ID:	1702340-CCV3	Injection Time:	18:22

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)	
Benzene	A	25.000	24.170	1.889545	1.827131		-3.3	20	
Bromobenzene	A	25.000	24.470	1.179324	1.154539		-2.1	20	
Bromochloromethane	A	25.000	25.830	0.1547174	0.1598253		3.3	20	
Bromodichloromethane	A	25.000	23.640	0.3292103	0.3113372		-5.4	20	
Bromoform	A	25.000	23.940	0.3506939	0.3357587	0.1	-4.3	20	
Bromomethane	A	25.000	17.710	0.3180084	0.2252989		-29.2	20	*
n-Butylbenzene	A	25.000	25.200	3.493597	3.521644		0.8	20	
sec-Butylbenzene	A	25.000	23.610	5.379312	5.079755		-5.6	20	
tert-Butylbenzene	A	25.000	25.510	3.852201	3.930608		2.0	20	
Carbon tetrachloride	A	25.000	24.570	0.4688551	0.4608237		-1.7	20	
Chlorobenzene	A	25.000	24.990	2.978027	2.976912	0.3	-0.04	20	
Chloroethane	A	25.000	25.580	0.3902835	0.3993116		2.3	20	
Chloroform	A	25.000	24.300	0.7548469	0.7335762		-2.8	20	
Chloromethane	L	25.000	25.740	0.6989857	0.6501067	0.1	3.0	20	
2-Chlorotoluene	A	25.000	24.450	3.666018	3.585785		-2.2	20	
4-Chlorotoluene	A	25.000	24.230	3.285453	3.184224		-3.1	20	
Dibromochloromethane	A	25.000	24.070	0.1708407	0.1644747		-3.7	20	
1,2-Dibromo-3-chloropropane	L	25.000	22.520	0.0666406	6.801981E-02		-9.9	20	
1,2-Dibromoethane	A	25.000	24.230	0.1390115	0.1347349		-3.1	20	
Dibromomethane	A	25.000	23.140	0.1132441	0.104813		-7.4	20	
1,2-Dichlorobenzene	A	25.000	23.420	1.693334	1.586417		-6.3	20	
1,3-Dichlorobenzene	A	25.000	23.010	2.068389	1.903402		-8.0	20	
1,4-Dichlorobenzene	A	25.000	24.620	1.916207	1.887205		-1.5	20	

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	10FEB32.D	Calibration Date:	01/26/17 17:00
Sequence:	1702340	Injection Date:	02/10/17
Lab Sample ID:	1702340-CCV3	Injection Time:	18:22

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dichlorodifluoromethane	A	25.000	24.710	0.4765408	0.4710395		-1.2	20
1,1-Dichloroethane	A	25.000	23.680	1.030991	0.9764141	0.1	-5.3	20
1,2-Dichloroethane	A	25.000	23.770	0.438219	0.4166915		-4.9	20
1,1-Dichloroethene	A	25.000	24.980	0.7766588	0.7760055		-0.08	20
cis-1,2-Dichloroethene	A	25.000	24.700	0.46668	0.4610572		-1.2	20
trans-1,2-Dichloroethene	A	25.000	24.540	0.4502706	0.4419421		-1.8	20
1,2-Dichloropropane	A	25.000	22.500	0.3723232	0.3351223		-10.0	20
1,3-Dichloropropane	A	25.000	23.910	0.2667047	0.2550583		-4.4	20
2,2-Dichloropropane	A	25.000	24.410	0.6461859	0.6309453		-2.4	20
1,1-Dichloropropene	A	25.000	24.850	0.61317	0.6094207		-0.6	20
cis-1,3-Dichloropropene	A	25.000	23.590	0.436368	0.4116783		-5.7	20
trans-1,3-Dichloropropene	A	25.000	24.270	0.3001727	0.2913744		-2.9	20
Ethylbenzene	A	25.000	24.370	1.699115	1.656406		-2.5	20
Hexachlorobutadiene	A	25.000	26.900	0.8012975	0.8621775		7.6	20
Isopropylbenzene	A	25.000	23.740	5.188549	4.927158		-5.0	20
p-Isopropyltoluene	A	25.000	24.240	4.064913	3.940755		-3.1	20
Methylene chloride	L	25.000	25.780	0.601454	0.3962237		3.1	20
Methyl t-butyl ether	A	25.000	25.740	0.6285989	0.6471114		2.9	20
Naphthalene	A	25.000	27.270	1.162765	1.268144		9.1	20
n-Propylbenzene	A	25.000	23.260	5.959786	5.544303		-7.0	20
Styrene	A	25.000	24.850	2.90027	2.883418		-0.6	20
1,1,1,2-Tetrachloroethane	A	25.000	24.340	0.9261768	0.9016897		-2.6	20
1,1,2,2-Tetrachloroethane	A	25.000	24.300	0.555952	0.5403563	0.3	-2.8	20

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	10FEB32.D	Calibration Date:	01/26/17 17:00
Sequence:	1702340	Injection Date:	02/10/17
Lab Sample ID:	1702340-CCV3	Injection Time:	18:22

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Tetrachloroethene	A	25.000	24.970	0.3412463	0.3407974		-0.1	20
Toluene	A	25.000	23.450	0.7797766	0.7314558		-6.2	20
1,2,3-Trichlorobenzene	A	25.000	26.960	1.02527	1.105613		7.8	20
1,2,4-Trichlorobenzene	A	25.000	26.410	1.194842	1.262077		5.6	20
1,1,1-Trichloroethane	A	25.000	24.230	0.6397625	0.6201035		-3.1	20
1,1,2-Trichloroethane	A	25.000	24.020	0.1533095	0.1472743		-3.9	20
Trichloroethene	A	25.000	25.350	0.3255704	0.3301664		1.4	20
Trichlorofluoromethane	A	25.000	25.770	0.5867905	0.6048774		3.1	20
1,2,3-Trichloropropane	L	25.000	26.290	0.105337	0.1149826		5.2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	24.650	0.4183029	0.4123878		-1.4	20
1,2,4-Trimethylbenzene	A	25.000	24.460	3.597754	3.519403		-2.2	20
1,3,5-Trimethylbenzene	A	25.000	23.050	3.970515	3.661539		-7.8	20
Vinyl chloride	A	25.000	26.370	0.5958562	0.628566		5.5	20
Total Xylenes	A	75.000	72.770	1.988127	1.929211		-3.0	20
p- & m-Xylenes	A	50.000	48.760	2.011739	1.961786		-2.5	20
o-Xylene	A	25.000	24.010	1.940902	1.864061		-4.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	10FEB33.D	Calibration Date:	01/26/17 17:00
Sequence:	1702340	Injection Date:	02/10/17
Lab Sample ID:	1702340-CCV4	Injection Time:	18:45

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Acetone	A	320.00	331.65	0.044841	4.647299E-02		3.6	20
Acetonitrile	L	160.00	201.55	1.965066E-02	2.066884E-02		26.0	20 *
Acrolein	A	200.00	260.23	0.0199267	2.592752E-02		30.1	20 *
Acrylonitrile	A	80.000	79.770	6.371868E-02	6.353753E-02		-0.3	20
Allyl chloride	A	32.000	26.870	1.114402	0.9357201		-16.0	20
t-Amyl Methyl ether	A	16.000	14.010	0.7281162	0.6374125		-12.5	20
Benzyl chloride	A	32.000	26.710	0.8656921	0.7225308		-16.5	20
t-Butyl alcohol	A	800.00	778.22	1.280474E-02	1.245619E-02		-2.7	20
Carbon disulfide	A	32.000	27.720	1.344744	1.165067		-13.4	20
Chloroprene	A	32.000	27.420	1.000946	0.8577787		-14.3	20
Cyclohexane	A	25.000	24.260	1.086285	1.054071		-3.0	20
Cyclohexanone	A	400.00	237.13	4.458125E-02	2.642915E-02		-40.7	20 *
trans-1,4-Dichloro-2-butene	A	80.000	70.470	0.1551532	0.1366651		-11.9	20
Diisopropyl ether	A	16.000	14.530	0.3174881	0.2882407		-9.2	20
Ethanol	A	4000.0	4784.7	1.543484E-03	1.846293E-03		19.6	20
Ethyl methacrylate	A	80.000	74.030	0.1775957	0.1643513		-7.5	20
Ethyl t-butyl ether	A	16.000	13.330	1.311089	1.091984		-16.7	20
2-Hexanone	Q	320.00	288.94	0.0923643	8.056617E-02		-9.7	20
Isobutanol	A	400.00	402.12	6.527947E-03	6.562464E-03		0.5	20
Methacrylonitrile	A	160.00	150.51	6.173201E-02	5.807062E-02		-5.9	20
Methylcyclohexane	A	25.000	22.530	0.617876	0.5568278		-9.9	20
Methyl ethyl ketone	A	160.00	158.69	0.0879739	8.725488E-02		-0.8	20
Methyl iodide	A	32.000	9.9800	0.5848188	0.1823132		-68.8	20 *

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	10FEB33.D	Calibration Date:	01/26/17 17:00
Sequence:	1702340	Injection Date:	02/10/17
Lab Sample ID:	1702340-CCV4	Injection Time:	18:45

	(1) CAL	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Methyl isobutyl ketone	A	160.00	143.50	0.1389299	0.1246013		-10.3	20
Methyl methacrylate	A	80.000	73.140	8.339718E-02	7.624527E-02		-8.6	20
Propionitrile	A	400.00	403.92	2.300947E-02	2.323475E-02		1.0	20
Vinyl acetate	A	160.00	109.72	0.6344058	0.4350554		-31.4	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

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San Diego, CA 92123

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Project: Alameda
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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	10FEB63.D	Calibration Date:	01/26/17 17:00
Sequence:	1702340	Injection Date:	02/11/17
Lab Sample ID:	1702340-CCV5	Injection Time:	06:21

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)	
Benzene	A	25.000	24.010	1.889545	1.814983		-3.9	20	
Bromobenzene	A	25.000	25.930	1.179324	1.223366		3.7	20	
Bromochloromethane	A	25.000	27.140	0.1547174	0.1679544		8.6	20	
Bromodichloromethane	A	25.000	25.330	0.3292103	0.333515		1.3	20	
Bromoform	A	25.000	25.210	0.3506939	0.3536831	0.1	0.9	20	
Bromomethane	A	25.000	10.530	0.3180084	0.1339969		-57.9	20	*
n-Butylbenzene	A	25.000	24.970	3.493597	3.48901		-0.1	20	
sec-Butylbenzene	A	25.000	23.700	5.379312	5.100174		-5.2	20	
tert-Butylbenzene	A	25.000	26.420	3.852201	4.071431		5.7	20	
Carbon tetrachloride	A	25.000	26.560	0.4688551	0.4981357		6.2	20	
Chlorobenzene	A	25.000	25.130	2.978027	2.994006	0.3	0.5	20	
Chloroethane	A	25.000	24.880	0.3902835	0.388398		-0.5	20	
Chloroform	A	25.000	25.170	0.7548469	0.7598866		0.7	20	
Chloromethane	L	25.000	24.910	0.6989857	0.6297033	0.1	-0.4	20	
2-Chlorotoluene	A	25.000	24.830	3.666018	3.641691		-0.7	20	
4-Chlorotoluene	A	25.000	24.600	3.285453	3.232232		-1.6	20	
Dibromochloromethane	A	25.000	26.010	0.1708407	0.1777327		4.0	20	
1,2-Dibromo-3-chloropropane	L	25.000	23.340	0.0666406	7.048364E-02		-6.6	20	
1,2-Dibromoethane	A	25.000	24.870	0.1390115	0.1382846		-0.5	20	
Dibromomethane	A	25.000	24.210	0.1132441	0.1096639		-3.2	20	
1,2-Dichlorobenzene	A	25.000	24.310	1.693334	1.646476		-2.8	20	
1,3-Dichlorobenzene	A	25.000	23.160	2.068389	1.916116		-7.4	20	
1,4-Dichlorobenzene	A	25.000	24.100	1.916207	1.847472		-3.6	20	

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	10FEB63.D	Calibration Date:	01/26/17 17:00
Sequence:	1702340	Injection Date:	02/11/17
Lab Sample ID:	1702340-CCV5	Injection Time:	06:21

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)	
Dichlorodifluoromethane	A	25.000	23.640	0.4765408	0.4505794		-5.4	20	
1,1-Dichloroethane	A	25.000	24.100	1.030991	0.9938338	0.1	-3.6	20	
1,2-Dichloroethane	A	25.000	25.060	0.438219	0.4392505		0.2	20	
1,1-Dichloroethene	A	25.000	25.810	0.7766588	0.801676		3.2	20	
cis-1,2-Dichloroethene	A	25.000	25.360	0.46668	0.4733219		1.4	20	
trans-1,2-Dichloroethene	A	25.000	24.590	0.4502706	0.4428985		-1.6	20	
1,2-Dichloropropane	A	25.000	23.450	0.3723232	0.3492636		-6.2	20	
1,3-Dichloropropane	A	25.000	24.110	0.2667047	0.257246		-3.5	20	
2,2-Dichloropropane	A	25.000	18.670	0.6461859	0.4826664		-25.3	20	*
1,1-Dichloropropene	A	25.000	25.630	0.61317	0.6285569		2.5	20	
cis-1,3-Dichloropropene	A	25.000	22.860	0.436368	0.3989926		-8.6	20	
trans-1,3-Dichloropropene	A	25.000	24.230	0.3001727	0.2909352		-3.1	20	
Ethylbenzene	A	25.000	25.290	1.699115	1.719049		1.2	20	
Hexachlorobutadiene	A	25.000	28.060	0.8012975	0.8994837		12.3	20	
Isopropylbenzene	A	25.000	24.720	5.188549	5.131142		-1.1	20	
p-Isopropyltoluene	A	25.000	24.230	4.064913	3.939421		-3.1	20	
Methylene chloride	L	25.000	25.780	0.601454	0.3962423		3.1	20	
Methyl t-butyl ether	A	25.000	24.460	0.6285989	0.6150782		-2.2	20	
Naphthalene	A	25.000	28.660	1.162765	1.333128		14.7	20	
n-Propylbenzene	A	25.000	23.450	5.959786	5.591036		-6.2	20	
Styrene	A	25.000	25.610	2.90027	2.970804		2.4	20	
1,1,1,2-Tetrachloroethane	A	25.000	25.550	0.9261768	0.94643		2.2	20	
1,1,2,2-Tetrachloroethane	A	25.000	19.580	0.555952	0.435526	0.3	-21.7	20	*

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	10FEB63.D	Calibration Date:	01/26/17 17:00
Sequence:	1702340	Injection Date:	02/11/17
Lab Sample ID:	1702340-CCV5	Injection Time:	06:21

	(1) CAL	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Tetrachloroethene	A	25.000	27.780	0.3412463	0.3792536		11.1	20
Toluene	A	25.000	24.900	0.7797766	0.7766608		-0.4	20
1,2,3-Trichlorobenzene	A	25.000	29.050	1.02527	1.191549		16.2	20
1,2,4-Trichlorobenzene	A	25.000	28.820	1.194842	1.377239		15.3	20
1,1,1-Trichloroethane	A	25.000	26.820	0.6397625	0.6863392		7.3	20
1,1,2-Trichloroethane	A	25.000	25.010	0.1533095	0.1533471		0.02	20
Trichloroethene	A	25.000	32.270	0.3255704	0.4202901		29.1	20 *
Trichlorofluoromethane	A	25.000	26.420	0.5867905	0.6200112		5.7	20
1,2,3-Trichloropropane	L	25.000	27.010	0.105337	0.1179371		8.0	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	24.280	0.4183029	0.4063276		-2.9	20
1,2,4-Trimethylbenzene	A	25.000	24.310	3.597754	3.498463		-2.8	20
1,3,5-Trimethylbenzene	A	25.000	24.380	3.970515	3.871351		-2.5	20
Vinyl chloride	A	25.000	25.910	0.5958562	0.6175923		3.6	20
Total Xylenes	A	75.000	74.430	1.988127	1.973226		-0.7	20
p- & m-Xylenes	A	50.000	50.090	2.011739	2.01519		0.2	20
o-Xylene	A	25.000	24.340	1.940902	1.889298		-2.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	10FEB64.D	Calibration Date:	01/26/17 17:00
Sequence:	1702340	Injection Date:	02/11/17
Lab Sample ID:	1702340-CCV6	Injection Time:	06:44

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)	
Acetone	A	320.00	327.09	0.044841	4.583521E-02		2.2	20	
Acetonitrile	L	160.00	192.72	1.965066E-02	1.982978E-02		20.4	20	*
Acrolein	A	200.00	203.33	0.0199267	2.025861E-02		1.7	20	
Acrylonitrile	A	80.000	75.090	6.371868E-02	5.980684E-02		-6.1	20	
Allyl chloride	A	32.000	24.130	1.114402	0.8404362		-24.6	20	*
t-Amyl Methyl ether	A	16.000	14.050	0.7281162	0.639167		-12.2	20	
Benzyl chloride	A	32.000	13.820	0.8656921	0.3737864		-56.8	20	*
t-Butyl alcohol	A	800.00	705.32	1.280474E-02	0.0112893		-11.8	20	
Carbon disulfide	A	32.000	26.710	1.344744	1.12256		-16.5	20	
Chloroprene	A	32.000	27.330	1.000946	0.854842		-14.6	20	
Cyclohexane	A	25.000	23.040	1.086285	1.001029		-7.8	20	
Cyclohexanone	A	400.00	195.24	4.458125E-02	2.176053E-02		-51.2	20	*
trans-1,4-Dichloro-2-butene	A	80.000	48.670	0.1551532	9.438167E-02		-39.2	20	*
Diisopropyl ether	A	16.000	14.890	0.3174881	0.2954825		-6.9	20	
Ethanol	A	4000.0	3821.3	1.543484E-03	1.474516E-03		-4.5	20	
Ethyl methacrylate	A	80.000	72.230	0.1775957	0.1603422		-9.7	20	
Ethyl t-butyl ether	A	16.000	13.280	1.311089	1.088171		-17.0	20	
2-Hexanone	Q	320.00	292.67	0.0923643	0.0814471		-8.5	20	
Isobutanol	A	400.00	336.67	6.527947E-03	5.494347E-03		-15.8	20	
Methacrylonitrile	A	160.00	141.54	6.173201E-02	5.460789E-02		-11.5	20	
Methylcyclohexane	A	25.000	21.890	0.617876	0.5410545		-12.4	20	
Methyl ethyl ketone	A	160.00	141.83	0.0879739	7.798201E-02		-11.4	20	
Methyl iodide	A	32.000	10.030	0.5848188	0.1832658		-68.7	20	*

AMEC Environmental & Infrastructure
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Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	10FEB64.D	Calibration Date:	01/26/17 17:00
Sequence:	1702340	Injection Date:	02/11/17
Lab Sample ID:	1702340-CCV6	Injection Time:	06:44

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Methyl isobutyl ketone	A	160.00	142.52	0.1389299	0.1237515		-10.9	20
Methyl methacrylate	A	80.000	70.180	8.339718E-02	7.316315E-02		-12.3	20
Propionitrile	A	400.00	374.00	2.300947E-02	2.151407E-02		-6.5	20
Vinyl acetate	A	160.00	64.570	0.6344058	0.256022		-59.6	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	26JAN15.D	Calibration Date:	01/26/17 17:00
Sequence:	1702423	Injection Date:	01/26/17
Lab Sample ID:	1702423-ICV1	Injection Time:	19:35

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Benzene	A	25.000	24.520	1.889545	1.853263		-1.9	20
Bromobenzene	A	25.000	26.750	1.179324	1.261962		7.0	20
Bromochloromethane	A	25.000	27.870	0.1547174	0.1724858		11.5	20
Bromodichloromethane	A	25.000	26.320	0.3292103	0.3466539		5.3	20
Bromoform	A	25.000	29.540	0.3506939	0.4143899	0.1	18.2	20
Bromomethane	A	25.000	25.400	0.3180084	0.323081		1.6	20
n-Butylbenzene	A	25.000	24.450	3.493597	3.416282		-2.2	20
sec-Butylbenzene	A	25.000	22.320	5.379312	4.803427		-10.7	20
tert-Butylbenzene	A	25.000	24.540	3.852201	3.780801		-1.9	20
Carbon tetrachloride	A	25.000	24.550	0.4688551	0.4604308		-1.8	20
Chlorobenzene	A	25.000	25.550	2.978027	3.04388	0.3	2.2	20
Chloroethane	A	25.000	25.010	0.3902835	0.3904325		0.04	20
Chloroform	A	25.000	25.080	0.7548469	0.7572197		0.3	20
Chloromethane	L	25.000	21.450	0.6989857	0.5449247	0.1	-14.2	20
2-Chlorotoluene	A	25.000	25.230	3.666018	3.699401		0.9	20
4-Chlorotoluene	A	25.000	25.250	3.285453	3.318671		1.0	20
Dibromochloromethane	A	25.000	28.210	0.1708407	0.1927603		12.8	20
1,2-Dibromo-3-chloropropane	L	25.000	26.780	0.0666406	0.0808198		7.1	20
1,2-Dibromoethane	A	25.000	28.160	0.1390115	0.1565905		12.6	20
Dibromomethane	A	25.000	25.600	0.1132441	0.1159592		2.4	20
1,2-Dichlorobenzene	A	25.000	25.120	1.693334	1.701651		0.5	20
1,3-Dichlorobenzene	A	25.000	23.440	2.068389	1.939285		-6.2	20
1,4-Dichlorobenzene	A	25.000	25.950	1.916207	1.989058		3.8	20

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	26JAN15.D	Calibration Date:	01/26/17 17:00
Sequence:	1702423	Injection Date:	01/26/17
Lab Sample ID:	1702423-ICV1	Injection Time:	19:35

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Dichlorodifluoromethane	A	25.000	23.190	0.4765408	0.4420548		-7.2	20
1,1-Dichloroethane	A	25.000	25.000	1.030991	1.031141	0.1	0.01	20
1,2-Dichloroethane	A	25.000	26.060	0.438219	0.4568204		4.2	20
1,1-Dichloroethene	A	25.000	24.850	0.7766588	0.7719666		-0.6	20
cis-1,2-Dichloroethene	A	25.000	25.440	0.46668	0.474977		1.8	20
trans-1,2-Dichloroethene	A	25.000	23.910	0.4502706	0.4305847		-4.4	20
1,2-Dichloropropane	A	25.000	25.240	0.3723232	0.3758662		1.0	20
1,3-Dichloropropane	A	25.000	27.900	0.2667047	0.2976682		11.6	20
2,2-Dichloropropane	A	25.000	23.050	0.6461859	0.595668		-7.8	20
1,1-Dichloropropene	A	25.000	24.340	0.61317	0.5969539		-2.6	20
cis-1,3-Dichloropropene	A	25.000	25.890	0.436368	0.4519754		3.6	20
trans-1,3-Dichloropropene	A	25.000	27.510	0.3001727	0.3303126		10.0	20
Ethylbenzene	A	25.000	24.810	1.699115	1.686003		-0.8	20
Hexachlorobutadiene	A	25.000	22.520	0.8012975	0.7218586		-9.9	20
Isopropylbenzene	A	25.000	23.670	5.188549	4.913541		-5.3	20
p-Isopropyltoluene	A	25.000	22.960	4.064913	3.733001		-8.2	20
Methylene chloride	L	25.000	27.090	0.601454	0.4144394		8.4	20
Methyl t-butyl ether	A	25.000	29.040	0.6285989	0.7300879		16.1	20
Naphthalene	A	25.000	28.850	1.162765	1.341925		15.4	20
n-Propylbenzene	A	25.000	23.210	5.959786	5.533521		-7.2	20
Styrene	A	25.000	26.030	2.90027	3.020175		4.1	20
1,1,1,2-Tetrachloroethane	A	25.000	25.800	0.9261768	0.9556971		3.2	20
1,1,2,2-Tetrachloroethane	A	25.000	28.950	0.555952	0.6436956	0.3	15.8	20

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	26JAN15.D	Calibration Date:	01/26/17 17:00
Sequence:	1702423	Injection Date:	01/26/17
Lab Sample ID:	1702423-ICV1	Injection Time:	19:35

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Tetrachloroethene	A	25.000	23.430	0.3412463	0.3197576		-6.3	20
Toluene	A	25.000	24.190	0.7797766	0.7546079		-3.2	20
1,2,3-Trichlorobenzene	A	25.000	26.710	1.02527	1.095334		6.8	20
1,2,4-Trichlorobenzene	A	25.000	26.280	1.194842	1.256226		5.1	20
1,1,1-Trichloroethane	A	25.000	24.320	0.6397625	0.6223499		-2.7	20
1,1,2-Trichloroethane	A	25.000	28.140	0.1533095	0.1725615		12.6	20
Trichloroethene	A	25.000	25.380	0.3255704	0.3305227		1.5	20
Trichlorofluoromethane	A	25.000	23.360	0.5867905	0.5482351		-6.6	20
1,2,3-Trichloropropane	L	25.000	29.760	0.105337	0.1291837		19.0	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	22.390	0.4183029	0.3745928		-10.4	20
1,2,4-Trimethylbenzene	A	25.000	24.970	3.597754	3.593467		-0.1	20
1,3,5-Trimethylbenzene	A	25.000	23.180	3.970515	3.680896		-7.3	20
Vinyl chloride	A	25.000	20.170	0.5958562	0.4807637		-19.3	20
Total Xylenes	A	75.000	74.270	1.988127	1.96886		-1.0	20
Total Trihalomethanes	A	100.00	109.15	8361.618	8912.16		6.6	20
p- & m-Xylenes	A	50.000	49.530	2.011739	1.992895		-0.9	20
o-Xylene	A	25.000	24.740	1.940902	1.920791		-1.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure
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Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	07FEB15.D	Calibration Date:	01/26/17 17:00
Sequence:	1702423	Injection Date:	02/07/17
Lab Sample ID:	1702423-ICV2	Injection Time:	12:46

	(1) CAL	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	320.00	315.03	0.044841	4.414517E-02		-1.6	20
Acetonitrile	L	160.00	201.66	1.965066E-02	2.067974E-02		26.0	20 *
Allyl chloride	A	32.000	31.180	1.114402	1.08574		-2.6	20
t-Amyl Methyl ether	A	16.000	15.090	0.7281162	0.6866905		-5.7	20
Benzyl chloride	A	32.000	31.760	0.8656921	0.8592213		-0.7	20
t-Butyl alcohol	A	800.00	811.29	1.280474E-02	1.298544E-02		1.4	20
Carbon disulfide	A	32.000	32.220	1.344744	1.354047		0.7	20
Chloroprene	A	32.000	31.360	1.000946	0.9807911		-2.0	20
Diisopropyl ether	A	16.000	15.550	0.3174881	0.3085884		-2.8	20
Ethyl t-butyl ether	A	16.000	15.050	1.311089	1.233435		-5.9	20
2-Hexanone	Q	320.00	312.86	0.0923643	8.615645E-02		-2.2	20
Methyl ethyl ketone	A	160.00	154.88	0.0879739	0.0851614		-3.2	20
Methyl isobutyl ketone	A	160.00	147.91	0.1389299	0.12843		-7.6	20
Vinyl acetate	A	160.00	147.71	0.6344058	0.5856918		-7.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	12FEB02.D	Calibration Date:	01/26/17 17:00
Sequence:	1702423	Injection Date:	02/12/17
Lab Sample ID:	1702423-CCV1	Injection Time:	05:28

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)	
Benzene	A	25.000	22.390	1.889545	1.692426		-10.4	20	
Bromobenzene	A	25.000	23.320	1.179324	1.099965		-6.7	20	
Bromochloromethane	A	25.000	23.190	0.1547174	0.1434916		-7.3	20	
Bromodichloromethane	A	25.000	22.500	0.3292103	0.2963347		-10.0	20	
Bromoform	A	25.000	21.990	0.3506939	0.3085243	0.1	-12.0	20	
Bromomethane	A	25.000	15.260	0.3180084	0.1940699		-39.0	20	*
n-Butylbenzene	A	25.000	24.130	3.493597	3.372196		-3.5	20	
sec-Butylbenzene	A	25.000	22.270	5.379312	4.791874		-10.9	20	
tert-Butylbenzene	A	25.000	22.640	3.852201	3.488036		-9.5	20	
Carbon tetrachloride	A	25.000	24.700	0.4688551	0.4632848		-1.2	20	
Chlorobenzene	A	25.000	23.850	2.978027	2.841525	0.3	-4.6	20	
Chloroethane	A	25.000	23.640	0.3902835	0.3689803		-5.5	20	
Chloroform	A	25.000	22.510	0.7548469	0.6796659		-10.0	20	
Chloromethane	L	25.000	24.020	0.6989857	0.6079859	0.1	-3.9	20	
2-Chlorotoluene	A	25.000	23.760	3.666018	3.483817		-5.0	20	
4-Chlorotoluene	A	25.000	23.710	3.285453	3.116566		-5.1	20	
Dibromochloromethane	A	25.000	22.970	0.1708407	0.1569496		-8.1	20	
1,2-Dibromo-3-chloropropane	L	25.000	21.920	0.0666406	6.622628E-02		-12.3	20	
1,2-Dibromoethane	A	25.000	21.170	0.1390115	0.1177425		-15.3	20	
Dibromomethane	A	25.000	22.090	0.1132441	0.1000413		-11.7	20	
1,2-Dichlorobenzene	A	25.000	22.050	1.693334	1.493296		-11.8	20	
1,3-Dichlorobenzene	A	25.000	22.230	2.068389	1.838819		-11.1	20	
1,4-Dichlorobenzene	A	25.000	23.250	1.916207	1.782151		-7.0	20	

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	12FEB02.D	Calibration Date:	01/26/17 17:00
Sequence:	1702423	Injection Date:	02/12/17
Lab Sample ID:	1702423-CCV1	Injection Time:	05:28

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Dichlorodifluoromethane	A	25.000	27.490	0.4765408	0.5239708		10.0	20
1,1-Dichloroethane	A	25.000	20.890	1.030991	0.8614724	0.1	-16.4	20
1,2-Dichloroethane	A	25.000	22.140	0.438219	0.388062		-11.4	20
1,1-Dichloroethene	A	25.000	24.810	0.7766588	0.7707947		-0.8	20
cis-1,2-Dichloroethene	A	25.000	22.870	0.46668	0.42686		-8.5	20
trans-1,2-Dichloroethene	A	25.000	23.010	0.4502706	0.414439		-8.0	20
1,2-Dichloropropane	A	25.000	21.480	0.3723232	0.3199211		-14.1	20
1,3-Dichloropropane	A	25.000	21.440	0.2667047	0.2286998		-14.2	20
2,2-Dichloropropane	A	25.000	25.120	0.6461859	0.6491811		0.5	20
1,1-Dichloropropene	A	25.000	23.430	0.61317	0.5747527		-6.3	20
cis-1,3-Dichloropropene	A	25.000	21.770	0.436368	0.3799878		-12.9	20
trans-1,3-Dichloropropene	A	25.000	22.300	0.3001727	0.2677361		-10.8	20
Ethylbenzene	A	25.000	23.110	1.699115	1.570754		-7.6	20
Hexachlorobutadiene	A	25.000	26.700	0.8012975	0.8556691		6.8	20
Isopropylbenzene	A	25.000	22.670	5.188549	4.704552		-9.3	20
p-Isopropyltoluene	A	25.000	23.590	4.064913	3.835533		-5.6	20
Methylene chloride	L	25.000	22.380	0.601454	0.3488508		-10.5	20
Methyl t-butyl ether	A	25.000	22.250	0.6285989	0.5593537		-11.0	20
Naphthalene	A	25.000	24.030	1.162765	1.117535		-3.9	20
n-Propylbenzene	A	25.000	22.510	5.959786	5.365545		-10.0	20
Styrene	A	25.000	23.600	2.90027	2.737457		-5.6	20
1,1,1,2-Tetrachloroethane	A	25.000	22.740	0.9261768	0.8425117		-9.0	20
1,1,2,2-Tetrachloroethane	A	25.000	21.060	0.555952	0.4682667	0.3	-15.8	20

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	12FEB02.D	Calibration Date:	01/26/17 17:00
Sequence:	1702423	Injection Date:	02/12/17
Lab Sample ID:	1702423-CCV1	Injection Time:	05:28

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Tetrachloroethene	A	25.000	24.380	0.3412463	0.3328293		-2.5	20
Toluene	A	25.000	21.900	0.7797766	0.6831205		-12.4	20
1,2,3-Trichlorobenzene	A	25.000	24.130	1.02527	0.9895842		-3.5	20
1,2,4-Trichlorobenzene	A	25.000	25.130	1.194842	1.200849		0.5	20
1,1,1-Trichloroethane	A	25.000	22.980	0.6397625	0.588042		-8.1	20
1,1,2-Trichloroethane	A	25.000	21.970	0.1533095	0.134753		-12.1	20
Trichloroethene	A	25.000	23.940	0.3255704	0.3117448		-4.2	20
Trichlorofluoromethane	A	25.000	26.860	0.5867905	0.6305486		7.5	20
1,2,3-Trichloropropane	L	25.000	24.170	0.105337	0.1063424		-3.3	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	24.220	0.4183029	0.4052494		-3.1	20
1,2,4-Trimethylbenzene	A	25.000	22.990	3.597754	3.308383		-8.0	20
1,3,5-Trimethylbenzene	A	25.000	22.440	3.970515	3.563784		-10.2	20
Vinyl chloride	A	25.000	26.030	0.5958562	0.6204269		4.1	20
Total Xylenes	A	75.000	69.760	1.988127	1.848999		-7.0	20
Total Trihalomethanes	A	100.00	89.970	8361.618	7101.03		-15.1	20
p- & m-Xylenes	A	50.000	46.230	2.011739	1.86024		-7.5	20
o-Xylene	A	25.000	23.530	1.940902	1.826516		-5.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	12FEB03.D	Calibration Date:	01/26/17 17:00
Sequence:	1702423	Injection Date:	02/12/17
Lab Sample ID:	1702423-CCV2	Injection Time:	05:51

	(1) CAL	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	320.00	321.80	0.044841	4.509255E-02		0.6	20
Acetonitrile	L	160.00	178.81	1.965066E-02	1.850768E-02		11.8	20
Allyl chloride	A	32.000	27.730	1.114402	0.9655512		-13.4	20
t-Amyl Methyl ether	A	16.000	14.160	0.7281162	0.6442194		-11.5	20
Benzyl chloride	A	32.000	30.920	0.8656921	0.8363924		-3.4	20
t-Butyl alcohol	A	800.00	713.13	1.280474E-02	1.141432E-02		-10.9	20
Carbon disulfide	A	32.000	30.070	1.344744	1.263545		-6.0	20
Chloroprene	A	32.000	30.380	1.000946	0.9501863		-5.1	20
Diisopropyl ether	A	16.000	15.860	0.3174881	0.3147621		-0.9	20
Ethyl t-butyl ether	A	16.000	13.630	1.311089	1.117264		-14.8	20
2-Hexanone	Q	320.00	291.05	0.0923643	8.106513E-02		-9.0	20
Methyl ethyl ketone	A	160.00	144.41	0.0879739	7.940393E-02		-9.7	20
Methyl isobutyl ketone	A	160.00	138.15	0.1389299	0.1199561		-13.7	20
Vinyl acetate	A	160.00	131.55	0.6344058	0.5215849		-17.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	12FEB33.D	Calibration Date:	01/26/17 17:00
Sequence:	1702423	Injection Date:	02/12/17
Lab Sample ID:	1702423-CCV4	Injection Time:	17:25

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)	
Benzene	A	25.000	22.360	1.889545	1.689926		-10.6	20	
Bromobenzene	A	25.000	23.450	1.179324	1.106298		-6.2	20	
Bromochloromethane	A	25.000	24.390	0.1547174	0.1509335		-2.4	20	
Bromodichloromethane	A	25.000	22.800	0.3292103	0.3002231		-8.8	20	
Bromoform	A	25.000	23.280	0.3506939	0.3265963	0.1	-6.9	20	
Bromomethane	A	25.000	18.690	0.3180084	0.2377006		-25.3	20	*
n-Butylbenzene	A	25.000	22.790	3.493597	3.184956		-8.8	20	
sec-Butylbenzene	A	25.000	21.540	5.379312	4.634358		-13.8	20	
tert-Butylbenzene	A	25.000	23.970	3.852201	3.693158		-4.1	20	
Carbon tetrachloride	A	25.000	24.620	0.4688551	0.4616638		-1.5	20	
Chlorobenzene	A	25.000	23.900	2.978027	2.846417	0.3	-4.4	20	
Chloroethane	A	25.000	24.820	0.3902835	0.3874951		-0.7	20	
Chloroform	A	25.000	22.520	0.7548469	0.6800097		-9.9	20	
Chloromethane	L	25.000	27.130	0.6989857	0.6842019	0.1	8.5	20	
2-Chlorotoluene	A	25.000	22.510	3.666018	3.300691		-10.0	20	
4-Chlorotoluene	A	25.000	22.580	3.285453	2.967933		-9.7	20	
Dibromochloromethane	A	25.000	23.570	0.1708407	0.1610678		-5.7	20	
1,2-Dibromo-3-chloropropane	L	25.000	21.480	0.0666406	6.489223E-02		-14.1	20	
1,2-Dibromoethane	A	25.000	23.320	0.1390115	0.1296655		-6.7	20	
Dibromomethane	A	25.000	21.800	0.1132441	9.873143E-02		-12.8	20	
1,2-Dichlorobenzene	A	25.000	22.710	1.693334	1.538383		-9.2	20	
1,3-Dichlorobenzene	A	25.000	20.580	2.068389	1.702989		-17.7	20	
1,4-Dichlorobenzene	A	25.000	23.080	1.916207	1.768697		-7.7	20	

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EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	12FEB33.D	Calibration Date:	01/26/17 17:00
Sequence:	1702423	Injection Date:	02/12/17
Lab Sample ID:	1702423-CCV4	Injection Time:	17:25

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dichlorodifluoromethane	A	25.000	26.630	0.4765408	0.5076682		6.5	20
1,1-Dichloroethane	A	25.000	21.560	1.030991	0.8892319	0.1	-13.7	20
1,2-Dichloroethane	A	25.000	22.960	0.438219	0.4025324		-8.1	20
1,1-Dichloroethene	A	25.000	24.700	0.7766588	0.7672539		-1.2	20
cis-1,2-Dichloroethene	A	25.000	23.510	0.46668	0.4387809		-6.0	20
trans-1,2-Dichloroethene	A	25.000	23.720	0.4502706	0.4272202		-5.1	20
1,2-Dichloropropane	A	25.000	22.190	0.3723232	0.3304926		-11.2	20
1,3-Dichloropropane	A	25.000	23.290	0.2667047	0.2485107		-6.8	20
2,2-Dichloropropane	A	25.000	23.110	0.6461859	0.5973275		-7.6	20
1,1-Dichloropropene	A	25.000	23.580	0.61317	0.578422		-5.7	20
cis-1,3-Dichloropropene	A	25.000	22.140	0.436368	0.3865101		-11.4	20
trans-1,3-Dichloropropene	A	25.000	23.920	0.3001727	0.28718		-4.3	20
Ethylbenzene	A	25.000	22.640	1.699115	1.539013		-9.4	20
Hexachlorobutadiene	A	25.000	25.840	0.8012975	0.8281556		3.4	20
Isopropylbenzene	A	25.000	22.250	5.188549	4.618713		-11.0	20
p-Isopropyltoluene	A	25.000	21.640	4.064913	3.518143		-13.5	20
Methylene chloride	L	25.000	24.560	0.601454	0.3791585		-1.8	20
Methyl t-butyl ether	A	25.000	23.830	0.6285989	0.5992854		-4.7	20
Naphthalene	A	25.000	23.540	1.162765	1.09468		-5.9	20
n-Propylbenzene	A	25.000	21.960	5.959786	5.234405		-12.2	20
Styrene	A	25.000	23.720	2.90027	2.752246		-5.1	20
1,1,1,2-Tetrachloroethane	A	25.000	21.620	0.9261768	0.8008679		-13.5	20
1,1,2,2-Tetrachloroethane	A	25.000	21.370	0.555952	0.4751627	0.3	-14.5	20

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EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	12FEB33.D	Calibration Date:	01/26/17 17:00
Sequence:	1702423	Injection Date:	02/12/17
Lab Sample ID:	1702423-CCV4	Injection Time:	17:25

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Tetrachloroethene	A	25.000	24.680	0.3412463	0.3369102		-1.3	20
Toluene	A	25.000	23.120	0.7797766	0.7210759		-7.5	20
1,2,3-Trichlorobenzene	A	25.000	22.620	1.02527	0.9275105		-9.5	20
1,2,4-Trichlorobenzene	A	25.000	23.650	1.194842	1.130236		-5.4	20
1,1,1-Trichloroethane	A	25.000	23.240	0.6397625	0.5946937		-7.0	20
1,1,2-Trichloroethane	A	25.000	23.380	0.1533095	0.143363		-6.5	20
Trichloroethene	A	25.000	24.060	0.3255704	0.3133635		-3.7	20
Trichlorofluoromethane	A	25.000	26.660	0.5867905	0.6258596		6.7	20
1,2,3-Trichloropropane	L	25.000	24.450	0.105337	0.1074844		-2.2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	24.110	0.4183029	0.4033513		-3.6	20
1,2,4-Trimethylbenzene	A	25.000	23.030	3.597754	3.314034		-7.9	20
1,3,5-Trimethylbenzene	A	25.000	21.620	3.970515	3.434387		-13.5	20
Vinyl chloride	A	25.000	27.230	0.5958562	0.6488995		8.9	20
Total Xylenes	A	75.000	70.410	1.988127	1.866867		-6.1	20
Total Trihalomethanes	A	100.00	92.170	8361.618	7206.31		-13.8	20
p- & m-Xylenes	A	50.000	47.410	2.011739	1.90767		-5.2	20
o-Xylene	A	25.000	23.000	1.940902	1.785263		-8.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

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EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	12FEB34.D	Calibration Date:	01/26/17 17:00
Sequence:	1702423	Injection Date:	02/12/17
Lab Sample ID:	1702423-CCV5	Injection Time:	17:48

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Acetone	A	320.00	302.33	0.044841	4.236456E-02		-5.5	20
Acetonitrile	L	160.00	170.30	1.965066E-02	1.769946E-02		6.4	20
Allyl chloride	A	32.000	28.090	1.114402	0.9782592		-12.2	20
t-Amyl Methyl ether	A	16.000	14.110	0.7281162	0.6420473		-11.8	20
Benzyl chloride	A	32.000	26.520	0.8656921	0.7175687		-17.1	20
t-Butyl alcohol	A	800.00	587.09	1.280474E-02	9.396927E-03		-26.6	20 *
Carbon disulfide	A	32.000	29.590	1.344744	1.243586		-7.5	20
Chloroprene	A	32.000	29.740	1.000946	0.9301681		-7.1	20
Diisopropyl ether	A	16.000	14.900	0.3174881	0.2957447		-6.8	20
Ethyl t-butyl ether	A	16.000	13.160	1.311089	1.078767		-17.7	20
2-Hexanone	Q	320.00	278.93	0.0923643	7.818217E-02		-12.8	20
Methyl ethyl ketone	A	160.00	139.62	0.0879739	7.676676E-02		-12.7	20
Methyl isobutyl ketone	A	160.00	139.60	0.1389299	0.1212167		-12.7	20
Vinyl acetate	A	160.00	115.58	0.6344058	0.4582663		-27.8	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	12FEB64.D	Calibration Date:	01/26/17 17:00
Sequence:	1702423	Injection Date:	02/13/17
Lab Sample ID:	1702423-CCV6	Injection Time:	05:23

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)	
Benzene	A	25.000	27.410	1.889545	2.071584		9.6	20	
Bromobenzene	A	25.000	28.020	1.179324	1.321623		12.1	20	
Bromochloromethane	A	25.000	29.090	0.1547174	0.180003		16.3	20	
Bromodichloromethane	A	25.000	26.620	0.3292103	0.350487		6.5	20	
Bromoform	A	25.000	25.890	0.3506939	0.3631417	0.1	3.5	20	
Bromomethane	A	25.000	12.520	0.3180084	0.1592247		-49.9	20	*
n-Butylbenzene	A	25.000	28.420	3.493597	3.971831		13.7	20	
sec-Butylbenzene	A	25.000	27.330	5.379312	5.880868		9.3	20	
tert-Butylbenzene	A	25.000	28.920	3.852201	4.455568		15.7	20	
Carbon tetrachloride	A	25.000	29.380	0.4688551	0.5510719		17.5	20	
Chlorobenzene	A	25.000	28.180	2.978027	3.356608	0.3	12.7	20	
Chloroethane	A	25.000	30.010	0.3902835	0.4684363		20.0	20	
Chloroform	A	25.000	26.840	0.7548469	0.8103594		7.4	20	
Chloromethane	L	25.000	30.400	0.6989857	0.7642754	0.1	21.6	20	*
2-Chlorotoluene	A	25.000	28.810	3.666018	4.22428		15.2	20	
4-Chlorotoluene	A	25.000	28.020	3.285453	3.682267		12.1	20	
Dibromochloromethane	A	25.000	27.010	0.1708407	0.1845974		8.1	20	
1,2-Dibromo-3-chloropropane	L	25.000	24.030	0.0666406	7.255062E-02		-3.9	20	
1,2-Dibromoethane	A	25.000	27.480	0.1390115	0.152789		9.9	20	
Dibromomethane	A	25.000	25.580	0.1132441	0.1158675		2.3	20	
1,2-Dichlorobenzene	A	25.000	27.250	1.693334	1.845995		9.0	20	
1,3-Dichlorobenzene	A	25.000	26.170	2.068389	2.164998		4.7	20	
1,4-Dichlorobenzene	A	25.000	28.250	1.916207	2.165116		13.0	20	

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	12FEB64.D	Calibration Date:	01/26/17 17:00
Sequence:	1702423	Injection Date:	02/13/17
Lab Sample ID:	1702423-CCV6	Injection Time:	05:23

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Dichlorodifluoromethane	A	25.000	32.650	0.4765408	0.6224527		30.6	20 *
1,1-Dichloroethane	A	25.000	25.690	1.030991	1.059516	0.1	2.8	20
1,2-Dichloroethane	A	25.000	26.400	0.438219	0.4626843		5.6	20
1,1-Dichloroethene	A	25.000	30.110	0.7766588	0.935559		20.5	20 *
cis-1,2-Dichloroethene	A	25.000	27.710	0.46668	0.5172684		10.8	20
trans-1,2-Dichloroethene	A	25.000	27.680	0.4502706	0.4986123		10.7	20
1,2-Dichloropropane	A	25.000	25.500	0.3723232	0.3797174		2.0	20
1,3-Dichloropropane	A	25.000	26.100	0.2667047	0.278405		4.4	20
2,2-Dichloropropane	A	25.000	29.720	0.6461859	0.768177		18.9	20
1,1-Dichloropropene	A	25.000	29.140	0.61317	0.7145934		16.5	20
cis-1,3-Dichloropropene	A	25.000	25.730	0.436368	0.4490666		2.9	20
trans-1,3-Dichloropropene	A	25.000	26.470	0.3001727	0.3178121		5.9	20
Ethylbenzene	A	25.000	28.480	1.699115	1.93543		13.9	20
Hexachlorobutadiene	A	25.000	31.260	0.8012975	1.002016		25.0	20 *
Isopropylbenzene	A	25.000	27.710	5.188549	5.750979		10.8	20
p-Isopropyltoluene	A	25.000	27.850	4.064913	4.527765		11.4	20
Methylene chloride	L	25.000	28.150	0.601454	0.4292257		12.6	20
Methyl t-butyl ether	A	25.000	27.580	0.6285989	0.6935228		10.3	20
Naphthalene	A	25.000	30.530	1.162765	1.420046		22.1	20 *
n-Propylbenzene	A	25.000	26.790	5.959786	6.386238		7.2	20
Styrene	A	25.000	28.990	2.90027	3.363117		16.0	20
1,1,1,2-Tetrachloroethane	A	25.000	27.320	0.9261768	1.012253		9.3	20
1,1,2,2-Tetrachloroethane	A	25.000	26.840	0.555952	0.5969707	0.3	7.4	20

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	12FEB64.D	Calibration Date:	01/26/17 17:00
Sequence:	1702423	Injection Date:	02/13/17
Lab Sample ID:	1702423-CCV6	Injection Time:	05:23

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Tetrachloroethene	A	25.000	31.870	0.3412463	0.4350304		27.5	20 *
Toluene	A	25.000	27.520	0.7797766	0.8582698		10.1	20
1,2,3-Trichlorobenzene	A	25.000	28.810	1.02527	1.181699		15.3	20
1,2,4-Trichlorobenzene	A	25.000	29.610	1.194842	1.41523		18.4	20
1,1,1-Trichloroethane	A	25.000	28.180	0.6397625	0.7211312		12.7	20
1,1,2-Trichloroethane	A	25.000	27.370	0.1533095	0.167858		9.5	20
Trichloroethene	A	25.000	29.470	0.3255704	0.3837746		17.9	20
Trichlorofluoromethane	A	25.000	31.590	0.5867905	0.7414069		26.3	20 *
1,2,3-Trichloropropane	L	25.000	28.070	0.105337	0.1222895		12.3	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	28.500	0.4183029	0.4769248		14.0	20
1,2,4-Trimethylbenzene	A	25.000	27.770	3.597754	3.995711		11.1	20
1,3,5-Trimethylbenzene	A	25.000	27.080	3.970515	4.301535		8.3	20
Vinyl chloride	A	25.000	30.820	0.5958562	0.7345859		23.3	20 *
Total Xylenes	A	75.000	83.330	1.988127	2.208734		11.1	20
Total Trihalomethanes	A	100.00	106.36	8361.618	7319.08		-12.5	20
p- & m-Xylenes	A	50.000	55.240	2.011739	2.222753		10.5	20
o-Xylene	A	25.000	28.090	1.940902	2.180696		12.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	12FEB65.D	Calibration Date:	01/26/17 17:00
Sequence:	1702423	Injection Date:	02/13/17
Lab Sample ID:	1702423-CCV7	Injection Time:	05:46

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Acetone	A	320.00	341.88	0.044841	4.790655E-02		6.8	20
Acetonitrile	L	160.00	194.16	1.965066E-02	1.996674E-02		21.4	20 *
Allyl chloride	A	32.000	27.390	1.114402	0.9538721		-14.4	20
t-Amyl Methyl ether	A	16.000	14.440	0.7281162	0.6570318		-9.8	20
Benzyl chloride	A	32.000	27.550	0.8656921	0.7452866		-13.9	20
t-Butyl alcohol	A	800.00	741.72	1.280474E-02	1.187186E-02		-7.3	20
Carbon disulfide	A	32.000	29.620	1.344744	1.244553		-7.5	20
Chloroprene	A	32.000	29.410	1.000946	0.9200564		-8.1	20
Diisopropyl ether	A	16.000	15.510	0.3174881	0.3076886		-3.1	20
Ethyl t-butyl ether	A	16.000	13.720	1.311089	1.124064		-14.3	20
2-Hexanone	Q	320.00	294.04	0.0923643	8.177082E-02		-8.1	20
Methyl ethyl ketone	A	160.00	155.70	0.0879739	8.560713E-02		-2.7	20
Methyl isobutyl ketone	A	160.00	141.35	0.1389299	0.1227376		-11.7	20
Vinyl acetate	A	160.00	131.05	0.6344058	0.519619		-18.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

SURROGATE STANDARD RECOVERY AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Sequence: 1702048
Matrix: Water

SDG: 17-03197
Project: Alameda
Instrument: MS-V5
Calibration: 1702011

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Cal Standard (1702048-CAL1)			Lab File ID: 26JAN06.D		Analyzed: 01/26/17 16:07			
1,2-Dichloroethane-d4 (Surrogate)	10.000	98.6		6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	95.5		8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	88.4		10.35	10.355	-0.0050	+/-1.0	
Cal Standard (1702048-CAL2)			Lab File ID: 26JAN07.D		Analyzed: 01/26/17 16:30			
1,2-Dichloroethane-d4 (Surrogate)	10.000	99.3		6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.1		8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	90.4		10.36	10.355	0.0050	+/-1.0	
Cal Standard (1702048-CAL3)			Lab File ID: 26JAN08.D		Analyzed: 01/26/17 16:53			
1,2-Dichloroethane-d4 (Surrogate)	10.000	103		6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	94.8		8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	96.0		10.36	10.355	0.0050	+/-1.0	
Cal Standard (1702048-CAL5)			Lab File ID: 26JAN10.D		Analyzed: 01/26/17 17:39			
1,2-Dichloroethane-d4 (Surrogate)	10.000	97.1		6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.2		8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	93.3		10.35	10.355	-0.0050	+/-1.0	
Cal Standard (1702048-CAL6)			Lab File ID: 26JAN11.D		Analyzed: 01/26/17 18:02			
1,2-Dichloroethane-d4 (Surrogate)	10.000	86.6		6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	93.4		8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	89.5		10.35	10.355	-0.0050	+/-1.0	
Cal Standard (1702048-CAL4)			Lab File ID: 26JAN14.D		Analyzed: 01/26/17 19:12			
1,2-Dichloroethane-d4 (Surrogate)	10.000	106		6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	102		8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	102		10.36	10.355	0.0050	+/-1.0	

AMEC Environmental & Infrastructure
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San Diego, CA 92123

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Project Number: 5023146096
Project Manager: Kelli Miller

SURROGATE STANDARD RECOVERY AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Sequence: 1702254
Matrix: Water

SDG: 17-03197
Project: Alameda
Instrument: MS-V5
Calibration: 1702011

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (1702254-ICV1)			Lab File ID: 26JAN15.D		Analyzed: 01/26/17 19:35			
1,2-Dichloroethane-d4 (Surrogate)	10.000	104	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.1	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	108	85 - 114	10.36	10.355	0.0050	+/-1.0	
Initial Cal Blank (1702254-ICB1)			Lab File ID: 26JAN17.D		Analyzed: 01/26/17 20:23			
1,2-Dichloroethane-d4 (Surrogate)	10.000	113	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.3	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	103	85 - 114	10.35	10.355	-0.0050	+/-1.0	
Calibration Check (1702254-CCV1)			Lab File ID: 09FEB06.D		Analyzed: 02/09/17 07:04			
1,2-Dichloroethane-d4 (Surrogate)	10.000	100	80 - 120	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	102	80 - 120	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	104	80 - 120	10.35	10.355	-0.0050	+/-1.0	
Calibration Blank (1702254-CCB1)			Lab File ID: 09FEB08.D		Analyzed: 02/09/17 07:51			
1,2-Dichloroethane-d4 (Surrogate)	10.000	104	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.9	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	96.7	85 - 114	10.35	10.355	-0.0050	+/-1.0	
Blank (B[B0851-BLK1)			Lab File ID: 09FEB29.D		Analyzed: 02/09/17 16:09			
1,2-Dichloroethane-d4 (Surrogate)	10.000	105	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	100	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	96.0	85 - 114	10.35	10.355	-0.0050	+/-1.0	
LCS (B[B0851-BS1)			Lab File ID: 09FEB31.D		Analyzed: 02/09/17 16:55			
1,2-Dichloroethane-d4 (Surrogate)	10.000	104	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	95.3	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	96.2	85 - 114	10.35	10.355	-0.0050	+/-1.0	
Matrix Spike (B[B0851-MS1)			Lab File ID: 09FEB32.D		Analyzed: 02/09/17 17:18			
1,2-Dichloroethane-d4 (Surrogate)	10.000	99.8	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.0	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	96.9	85 - 114	10.35	10.355	-0.0050	+/-1.0	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Sequence:	1702254	Instrument:	MS-V5
Matrix:	Water	Calibration:	1702011

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Matrix Spike Dup (B[B0851-MSD1)			Lab File ID: 09FEB33.D		Analyzed: 02/09/17 17:41			
1,2-Dichloroethane-d4 (Surrogate)	10.000	96.8	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	96.9	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	92.0	85 - 114	10.35	10.355	-0.0050	+/-1.0	
Calibration Check (1702254-CCV3)			Lab File ID: 09FEB36.D		Analyzed: 02/09/17 18:51			
1,2-Dichloroethane-d4 (Surrogate)	10.000	97.9	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.9	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	106	85 - 114	10.35	10.355	-0.0050	+/-1.0	
Calibration Blank (1702254-CCB2)			Lab File ID: 09FEB38.D		Analyzed: 02/09/17 19:37			
1,2-Dichloroethane-d4 (Surrogate)	10.000	101	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.2	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	94.2	85 - 114	10.35	10.355	-0.0050	+/-1.0	

AMEC Environmental & Infrastructure
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San Diego, CA 92123

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Project Number: 5023146096
Project Manager: Kelli Miller

SURROGATE STANDARD RECOVERY AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Sequence: 1702340
Matrix: Water

SDG: 17-03197
Project: Alameda
Instrument: MS-V5
Calibration: 1702011

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (1702340-ICV1)			Lab File ID: 26JAN15.D		Analyzed: 01/26/17 19:35			
1,2-Dichloroethane-d4 (Surrogate)	10.000	104	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.1	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	108	85 - 114	10.36	10.355	0.0050	+/-1.0	
Initial Cal Blank (1702340-ICB1)			Lab File ID: 26JAN17.D		Analyzed: 01/26/17 20:23			
1,2-Dichloroethane-d4 (Surrogate)	10.000	113	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.3	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	103	85 - 114	10.35	10.355	-0.0050	+/-1.0	
Calibration Check (1702340-CCV1)			Lab File ID: 10FEB02.D		Analyzed: 02/10/17 06:27			
1,2-Dichloroethane-d4 (Surrogate)	10.000	100	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	101	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	97.0	85 - 114	10.35	10.355	-0.0050	+/-1.0	
Calibration Blank (1702340-CCB1)			Lab File ID: 10FEB04.D		Analyzed: 02/10/17 07:14			
1,2-Dichloroethane-d4 (Surrogate)	10.000	105	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.4	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	98.7	85 - 114	10.35	10.355	-0.0050	+/-1.0	
27EW-05_170203 (1703197-01)			Lab File ID: 10FEB14.D		Analyzed: 02/10/17 11:06			
1,2-Dichloroethane-d4 (Surrogate)	10.000	105	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	96.8	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	98.9	85 - 114	10.35	10.355	-0.0050	+/-1.0	
27EW-12_170203 (1703197-02)			Lab File ID: 10FEB15.D		Analyzed: 02/10/17 11:29			
1,2-Dichloroethane-d4 (Surrogate)	10.000	105	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.4	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	95.5	85 - 114	10.35	10.355	-0.0050	+/-1.0	
27EW-19_170203 (1703197-03)			Lab File ID: 10FEB16.D		Analyzed: 02/10/17 11:53			
1,2-Dichloroethane-d4 (Surrogate)	10.000	100	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.3	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	91.5	85 - 114	10.35	10.355	-0.0050	+/-1.0	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Sequence: 1702340
Instrument: MS-V5
Matrix: Water
Calibration: 1702011

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
27MW02_170203 (1703197-04)			Lab File ID: 10FEB17.D		Analyzed: 02/10/17 12:16			
1,2-Dichloroethane-d4 (Surrogate)	10.000	105	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.1	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	95.6	85 - 114	10.35	10.355	-0.0050	+/-1.0	
DUP18_170203 (1703197-05)			Lab File ID: 10FEB18.D		Analyzed: 02/10/17 12:39			
1,2-Dichloroethane-d4 (Surrogate)	10.000	114	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.2	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	94.6	85 - 114	10.35	10.355	-0.0050	+/-1.0	
Blank (B[B0960-BLK1)			Lab File ID: 10FEB20.D		Analyzed: 02/10/17 13:43			
1,2-Dichloroethane-d4 (Surrogate)	10.000	106	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	95.1	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	94.9	85 - 114	10.35	10.355	-0.0050	+/-1.0	
26PZ01_170203 (1703197-26)			Lab File ID: 10FEB21.D		Analyzed: 02/10/17 14:06			
1,2-Dichloroethane-d4 (Surrogate)	10.000	110	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.9	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	98.3	85 - 114	10.35	10.355	-0.0050	+/-1.0	
LCS (B[B0960-BS1)			Lab File ID: 10FEB22.D		Analyzed: 02/10/17 14:29			
1,2-Dichloroethane-d4 (Surrogate)	10.000	98.3	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	96.3	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	99.0	85 - 114	10.35	10.355	-0.0050	+/-1.0	
Matrix Spike (B[B0960-MS1)			Lab File ID: 10FEB23.D		Analyzed: 02/10/17 14:53			
1,2-Dichloroethane-d4 (Surrogate)	10.000	101	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	95.5	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	101	85 - 114	10.35	10.355	-0.0050	+/-1.0	
Matrix Spike Dup (B[B0960-MSD1)			Lab File ID: 10FEB24.D		Analyzed: 02/10/17 15:16			
1,2-Dichloroethane-d4 (Surrogate)	10.000	101	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.8	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	100	85 - 114	10.35	10.355	-0.0050	+/-1.0	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Sequence: 1702340
Instrument: MS-V5
Matrix: Water
Calibration: 1702011

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
M10B-01_170203 (1703197-06)			Lab File ID: 10FEB27.D		Analyzed: 02/10/17 16:25			
1,2-Dichloroethane-d4 (Surrogate)	10.000	105	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	96.1	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	100	85 - 114	10.35	10.355	-0.0050	+/-1.0	
MW4-2-1_170203 (1703197-07)			Lab File ID: 10FEB28.D		Analyzed: 02/10/17 16:48			
1,2-Dichloroethane-d4 (Surrogate)	10.000	96.7	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.7	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	100	85 - 114	10.35	10.355	-0.0050	+/-1.0	
Calibration Check (1702340-CCV3)			Lab File ID: 10FEB32.D		Analyzed: 02/10/17 18:22			
1,2-Dichloroethane-d4 (Surrogate)	10.000	98.4	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	95.3	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	99.0	85 - 114	10.35	10.355	-0.0050	+/-1.0	
Calibration Blank (1702340-CCB2)			Lab File ID: 10FEB34.D		Analyzed: 02/10/17 19:08			
1,2-Dichloroethane-d4 (Surrogate)	10.000	107	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	94.0	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	95.9	85 - 114	10.35	10.355	-0.0050	+/-1.0	
TB11_170203 (1703197-23)			Lab File ID: 10FEB35.D		Analyzed: 02/10/17 19:31			
1,2-Dichloroethane-d4 (Surrogate)	10.000	98.5	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	96.5	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	97.6	85 - 114	10.35	10.355	-0.0050	+/-1.0	
TB12_170203 (1703197-24)			Lab File ID: 10FEB36.D		Analyzed: 02/10/17 19:55			
1,2-Dichloroethane-d4 (Surrogate)	10.000	103	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.3	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	96.3	85 - 114	10.35	10.355	-0.0050	+/-1.0	
EB20_170203 (1703197-30)			Lab File ID: 10FEB37.D		Analyzed: 02/10/17 20:18			
1,2-Dichloroethane-d4 (Surrogate)	10.000	105	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	95.7	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	93.0	85 - 114	10.35	10.355	-0.0050	+/-1.0	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Sequence:	1702340	Instrument:	MS-V5
Matrix:	Water	Calibration:	1702011

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
EB21_170203 (1703197-31)			Lab File ID: 10FEB38.D		Analyzed: 02/10/17 20:41			
1,2-Dichloroethane-d4 (Surrogate)	10.000	105	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.4	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	93.5	85 - 114	10.35	10.355	-0.0050	+/-1.0	
EB22_170203 (1703197-32)			Lab File ID: 10FEB39.D		Analyzed: 02/10/17 21:05			
1,2-Dichloroethane-d4 (Surrogate)	10.000	104	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	96.0	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	88.4	85 - 114	10.35	10.355	-0.0050	+/-1.0	
EB23_170203 (1703197-33)			Lab File ID: 10FEB40.D		Analyzed: 02/10/17 21:28			
1,2-Dichloroethane-d4 (Surrogate)	10.000	99.8	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	100	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	93.9	85 - 114	10.35	10.355	-0.0050	+/-1.0	
MW4-2-18_170203 (1703197-08)			Lab File ID: 10FEB41.D		Analyzed: 02/10/17 21:51			
1,2-Dichloroethane-d4 (Surrogate)	10.000	106	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	94.7	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	96.9	85 - 114	10.35	10.355	-0.0050	+/-1.0	
MW530-1_170203 (1703197-09)			Lab File ID: 10FEB42.D		Analyzed: 02/10/17 22:15			
1,2-Dichloroethane-d4 (Surrogate)	10.000	106	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	95.6	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	102	85 - 114	10.35	10.355	-0.0050	+/-1.0	
S4-TT-MW02A_170203 (1703197-10)			Lab File ID: 10FEB43.D		Analyzed: 02/10/17 22:38			
1,2-Dichloroethane-d4 (Surrogate)	10.000	105	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.3	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	100	85 - 114	10.35	10.355	-0.0050	+/-1.0	
SMLS-01_170203 (1703197-11)			Lab File ID: 10FEB44.D		Analyzed: 02/10/17 23:01			
1,2-Dichloroethane-d4 (Surrogate)	10.000	97.6	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.2	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	96.8	85 - 114	10.35	10.355	-0.0050	+/-1.0	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Sequence: 1702340
Instrument: MS-V5
Matrix: Water
Calibration: 1702011

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SMLS-07_170203 (1703197-12)			Lab File ID: 10FEB45.D		Analyzed: 02/10/17 23:24			
1,2-Dichloroethane-d4 (Surrogate)	10.000	101	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	96.4	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	102	85 - 114	10.35	10.355	-0.0050	+/-1.0	
26MW08_170203 (1703197-13)			Lab File ID: 10FEB46.D		Analyzed: 02/10/17 23:48			
1,2-Dichloroethane-d4 (Surrogate)	10.000	111	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.8	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	100	85 - 114	10.35	10.355	-0.0050	+/-1.0	
27EW-15_170203 (1703197-14)			Lab File ID: 10FEB47.D		Analyzed: 02/11/17 00:11			
1,2-Dichloroethane-d4 (Surrogate)	10.000	101	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.1	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	100	85 - 114	10.35	10.355	-0.0050	+/-1.0	
27EW-20_170203 (1703197-15)			Lab File ID: 10FEB48.D		Analyzed: 02/11/17 00:34			
1,2-Dichloroethane-d4 (Surrogate)	10.000	108	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.5	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	99.3	85 - 114	10.35	10.355	-0.0050	+/-1.0	
DUP12_170203 (1703197-16)			Lab File ID: 10FEB49.D		Analyzed: 02/11/17 00:57			
1,2-Dichloroethane-d4 (Surrogate)	10.000	112	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	93.6	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	96.6	85 - 114	10.35	10.355	-0.0050	+/-1.0	
M04-05_170203 (1703197-17)			Lab File ID: 10FEB50.D		Analyzed: 02/11/17 01:21			
1,2-Dichloroethane-d4 (Surrogate)	10.000	109	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	94.1	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	98.2	85 - 114	10.35	10.355	-0.0050	+/-1.0	
M13-07_170203 (1703197-18)			Lab File ID: 10FEB51.D		Analyzed: 02/11/17 01:44			
1,2-Dichloroethane-d4 (Surrogate)	10.000	108	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.2	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	101	85 - 114	10.35	10.355	-0.0050	+/-1.0	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Sequence:	1702340	Instrument:	MS-V5
Matrix:	Water	Calibration:	1702011

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
MW530-2_170203 (1703197-19)			Lab File ID: 10FEB52.D		Analyzed: 02/11/17 02:07			
1,2-Dichloroethane-d4 (Surrogate)	10.000	101	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	95.7	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	96.6	85 - 114	10.35	10.355	-0.0050	+/-1.0	
S4-TT-MW02B_170203 (1703197-20)			Lab File ID: 10FEB53.D		Analyzed: 02/11/17 02:30			
1,2-Dichloroethane-d4 (Surrogate)	10.000	106	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.9	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	90.1	85 - 114	10.35	10.355	-0.0050	+/-1.0	
S4-TT-MW02C_170203 (1703197-21)			Lab File ID: 10FEB54.D		Analyzed: 02/11/17 02:53			
1,2-Dichloroethane-d4 (Surrogate)	10.000	106	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	96.5	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	102	85 - 114	10.35	10.355	-0.0050	+/-1.0	
26PZ03_170203 (1703197-27)			Lab File ID: 10FEB57.D		Analyzed: 02/11/17 04:03			
1,2-Dichloroethane-d4 (Surrogate)	10.000	110	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	94.4	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	98.6	85 - 114	10.35	10.355	-0.0050	+/-1.0	
27MW06_170203 (1703197-28)			Lab File ID: 10FEB58.D		Analyzed: 02/11/17 04:26			
1,2-Dichloroethane-d4 (Surrogate)	10.000	107	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.7	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	94.2	85 - 114	10.35	10.355	-0.0050	+/-1.0	
DUP07_170203 (1703197-29)			Lab File ID: 10FEB59.D		Analyzed: 02/11/17 04:49			
1,2-Dichloroethane-d4 (Surrogate)	10.000	104	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	94.1	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	95.3	85 - 114	10.35	10.355	-0.0050	+/-1.0	
M13-09_170203 (1703197-34)			Lab File ID: 10FEB60.D		Analyzed: 02/11/17 05:12			
1,2-Dichloroethane-d4 (Surrogate)	10.000	103	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.0	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	97.3	85 - 114	10.35	10.355	-0.0050	+/-1.0	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Sequence:	1702340	Instrument:	MS-V5
Matrix:	Water	Calibration:	1702011

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (1702340-CCV5)			Lab File ID: 10FEB63.D		Analyzed: 02/11/17 06:21			
1,2-Dichloroethane-d4 (Surrogate)	10.000	104	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	95.1	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	97.4	85 - 114	10.35	10.355	-0.0050	+/-1.0	
Calibration Blank (1702340-CCB3)			Lab File ID: 10FEB65.D		Analyzed: 02/11/17 07:07			
1,2-Dichloroethane-d4 (Surrogate)	10.000	101	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	94.7	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	98.9	85 - 114	10.35	10.355	-0.0050	+/-1.0	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

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Project Number: 5023146096
Project Manager: Kelli Miller

SURROGATE STANDARD RECOVERY AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Sequence: 1702423
Matrix: Water

SDG: 17-03197
Project: Alameda
Instrument: MS-V5
Calibration: 1702011

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (1702423-ICV1)			Lab File ID: 26JAN15.D		Analyzed: 01/26/17 19:35			
1,2-Dichloroethane-d4 (Surrogate)	10.000	104	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.1	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	108	85 - 114	10.36	10.355	0.0050	+/-1.0	
Initial Cal Blank (1702423-ICB1)			Lab File ID: 26JAN17.D		Analyzed: 01/26/17 20:23			
1,2-Dichloroethane-d4 (Surrogate)	10.000	113	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.3	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	103	85 - 114	10.35	10.355	-0.0050	+/-1.0	
Calibration Check (1702423-CCV1)			Lab File ID: 12FEB02.D		Analyzed: 02/12/17 05:28			
1,2-Dichloroethane-d4 (Surrogate)	10.000	104	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	93.6	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	95.7	85 - 114	10.35	10.355	-0.0050	+/-1.0	
Calibration Blank (1702423-CCB1)			Lab File ID: 12FEB05.D		Analyzed: 02/12/17 06:37			
1,2-Dichloroethane-d4 (Surrogate)	10.000	100	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	102	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	97.9	85 - 114	10.35	10.355	-0.0050	+/-1.0	
Blank (B[B0963-BLK1)			Lab File ID: 12FEB06.D		Analyzed: 02/12/17 07:01			
1,2-Dichloroethane-d4 (Surrogate)	10.000	108	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	96.5	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	96.3	85 - 114	10.35	10.355	-0.0050	+/-1.0	
S4-TT-MW02D_170203 (1703197-22)			Lab File ID: 12FEB07.D		Analyzed: 02/12/17 07:24			
1,2-Dichloroethane-d4 (Surrogate)	10.000	111	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	94.2	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	99.2	85 - 114	10.35	10.355	-0.0050	+/-1.0	
26MW03_170203 (1703197-25)			Lab File ID: 12FEB08.D		Analyzed: 02/12/17 07:47			
1,2-Dichloroethane-d4 (Surrogate)	10.000	107	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	94.8	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	95.2	85 - 114	10.35	10.355	-0.0050	+/-1.0	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Sequence:	1702423	Instrument:	MS-V5
Matrix:	Water	Calibration:	1702011

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
LCS (B[B0963-BS1)			Lab File ID: 12FEB11.D		Analyzed: 02/12/17 08:56			
1,2-Dichloroethane-d4 (Surrogate)	10.000	93.3	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.8	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	100	85 - 114	10.35	10.355	-0.0050	+/-1.0	
Matrix Spike (B[B0963-MS1)			Lab File ID: 12FEB12.D		Analyzed: 02/12/17 09:19			
1,2-Dichloroethane-d4 (Surrogate)	10.000	98.9	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.1	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	96.1	85 - 114	10.35	10.355	-0.0050	+/-1.0	
Matrix Spike Dup (B[B0963-MSD1)			Lab File ID: 12FEB13.D		Analyzed: 02/12/17 09:43			
1,2-Dichloroethane-d4 (Surrogate)	10.000	107	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	94.6	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	98.5	85 - 114	10.35	10.355	-0.0050	+/-1.0	
MWOR-4_170203 (1703197-35)			Lab File ID: 12FEB29.D		Analyzed: 02/12/17 15:53			
1,2-Dichloroethane-d4 (Surrogate)	10.000	100	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.1	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	99.4	85 - 114	10.35	10.355	-0.0050	+/-1.0	
DUP18_170203 (1703197-05RE1)			Lab File ID: 12FEB30.D		Analyzed: 02/12/17 16:16			
1,2-Dichloroethane-d4 (Surrogate)	10.000	101	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	93.3	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	102	85 - 114	10.35	10.355	-0.0050	+/-1.0	
Calibration Check (1702423-CCV4)			Lab File ID: 12FEB33.D		Analyzed: 02/12/17 17:25			
1,2-Dichloroethane-d4 (Surrogate)	10.000	97.5	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.4	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	98.2	85 - 114	10.35	10.355	-0.0050	+/-1.0	
Calibration Blank (1702423-CCB2)			Lab File ID: 12FEB35.D		Analyzed: 02/12/17 18:11			
1,2-Dichloroethane-d4 (Surrogate)	10.000	102	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.9	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	102	85 - 114	10.35	10.355	-0.0050	+/-1.0	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Sequence:	1702423	Instrument:	MS-V5
Matrix:	Water	Calibration:	1702011

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
S4-TT-MW02A_170203 (1703197-10RE1)			Lab File ID: 12FEB51.D		Analyzed: 02/13/17 00:22			
1,2-Dichloroethane-d4 (Surrogate)	10.000	99.1	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	101	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	103	85 - 114	10.35	10.355	-0.0050	+/-1.0	
SMLS-01_170203 (1703197-11RE1)			Lab File ID: 12FEB52.D		Analyzed: 02/13/17 00:45			
1,2-Dichloroethane-d4 (Surrogate)	10.000	110	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.4	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	96.4	85 - 114	10.35	10.355	-0.0050	+/-1.0	
S4-TT-MW02C_170203 (1703197-21RE1)			Lab File ID: 12FEB53.D		Analyzed: 02/13/17 01:08			
1,2-Dichloroethane-d4 (Surrogate)	10.000	104	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	95.5	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	94.4	85 - 114	10.35	10.355	-0.0050	+/-1.0	
Calibration Check (1702423-CCV6)			Lab File ID: 12FEB64.D		Analyzed: 02/13/17 05:23			
1,2-Dichloroethane-d4 (Surrogate)	10.000	101	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.1	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	100	85 - 114	10.35	10.355	-0.0050	+/-1.0	
Calibration Blank (1702423-CCB3)			Lab File ID: 12FEB66.D		Analyzed: 02/13/17 06:09			
1,2-Dichloroethane-d4 (Surrogate)	10.000	105	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	95.3	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	98.1	85 - 114	10.35	10.355	-0.0050	+/-1.0	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Sequence: 1702048
Instrument: MS-V5
Matrix: Water
Calibration: 1702011

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (1702048-CALD)			Lab File ID: 13DEC06.D			Analyzed: 12/13/16 10:10			
Pentafluorobenzene (IS)	179698	6.71	210237	6.59	85	50 - 200	0.1200	+/-0.50	
Cal Standard (1702048-CALE)			Lab File ID: 13DEC07.D			Analyzed: 12/13/16 10:32			
Pentafluorobenzene (IS)	181927	6.7	210237	6.59	87	50 - 200	0.1100	+/-0.50	
Cal Standard (1702048-CALF)			Lab File ID: 13DEC08.D			Analyzed: 12/13/16 10:55			
Pentafluorobenzene (IS)	182850	6.7	210237	6.59	87	50 - 200	0.1100	+/-0.50	
Cal Standard (1702048-CALG)			Lab File ID: 13DEC09.D			Analyzed: 12/13/16 11:18			
Pentafluorobenzene (IS)	175456	6.7	210237	6.59	83	50 - 200	0.1100	+/-0.50	
Cal Standard (1702048-CALH)			Lab File ID: 13DEC10.D			Analyzed: 12/13/16 11:41			
Pentafluorobenzene (IS)	178003	6.7	210237	6.59	85	50 - 200	0.1100	+/-0.50	
Cal Standard (1702048-CALI)			Lab File ID: 13DEC11.D			Analyzed: 12/13/16 12:04			
Pentafluorobenzene (IS)	180722	6.71	210237	6.59	86	50 - 200	0.1200	+/-0.50	
Cal Standard (1702048-CAL1)			Lab File ID: 26JAN06.D			Analyzed: 01/26/17 16:07			
Pentafluorobenzene (IS)	220247	6.58	210237	6.59	105	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	74437	9.62	76990	9.62	97	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	307137	7.39	296345	7.39	104	50 - 200	0.0000	+/-0.50	
Cal Standard (1702048-CAL2)			Lab File ID: 26JAN07.D			Analyzed: 01/26/17 16:30			
Pentafluorobenzene (IS)	220154	6.58	210237	6.59	105	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	72326	9.62	76990	9.62	94	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	293817	7.39	296345	7.39	99	50 - 200	0.0000	+/-0.50	
Cal Standard (1702048-CAL3)			Lab File ID: 26JAN08.D			Analyzed: 01/26/17 16:53			
Pentafluorobenzene (IS)	205618	6.58	210237	6.59	98	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	69095	9.62	76990	9.62	90	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	296048	7.39	296345	7.39	100	50 - 200	0.0000	+/-0.50	
Cal Standard (1702048-CAL5)			Lab File ID: 26JAN10.D			Analyzed: 01/26/17 17:39			
Pentafluorobenzene (IS)	205022	6.58	210237	6.59	98	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	71070	9.63	76990	9.62	92	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	294320	7.39	296345	7.39	99	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Sequence: 1702048
Instrument: MS-V5
Matrix: Water
Calibration: 1702011

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (1702048-CAL6)			Lab File ID: 26JAN11.D			Analyzed: 01/26/17 18:02			
Pentafluorobenzene (IS)	209417	6.58	210237	6.59	100	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	67636	9.63	76990	9.62	88	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	306655	7.39	296345	7.39	103	50 - 200	0.0000	+/-0.50	
Cal Standard (1702048-CAL4)			Lab File ID: 26JAN14.D			Analyzed: 01/26/17 19:12			
Pentafluorobenzene (IS)	210237	6.59	210237	6.59	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	76990	9.62	76990	9.62	100	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	296345	7.39	296345	7.39	100	50 - 200	0.0000	+/-0.50	
Cal Standard (1702048-CAL7)			Lab File ID: 07FEB07.D			Analyzed: 02/07/17 09:30			
Pentafluorobenzene (IS)	198502	6.59	210237	6.59	94	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	65644	9.62	76990	9.62	85	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	262651	7.39	296345	7.39	89	50 - 200	0.0000	+/-0.50	
Cal Standard (1702048-CAL8)			Lab File ID: 07FEB08.D			Analyzed: 02/07/17 09:53			
Pentafluorobenzene (IS)	197084	6.59	210237	6.59	94	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	66400	9.62	76990	9.62	86	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	256192	7.39	296345	7.39	86	50 - 200	0.0000	+/-0.50	
Cal Standard (1702048-CAL9)			Lab File ID: 07FEB09.D			Analyzed: 02/07/17 10:17			
Pentafluorobenzene (IS)	199098	6.58	210237	6.59	95	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	66850	9.62	76990	9.62	87	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	268584	7.39	296345	7.39	91	50 - 200	0.0000	+/-0.50	
Cal Standard (1702048-CALA)			Lab File ID: 07FEB10.D			Analyzed: 02/07/17 10:40			
Pentafluorobenzene (IS)	189807	6.59	210237	6.59	90	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	67543	9.63	76990	9.62	88	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	267711	7.39	296345	7.39	90	50 - 200	0.0000	+/-0.50	
Cal Standard (1702048-CALB)			Lab File ID: 07FEB11.D			Analyzed: 02/07/17 11:03			
Pentafluorobenzene (IS)	192292	6.58	210237	6.59	91	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	64347	9.62	76990	9.62	84	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	268075	7.39	296345	7.39	90	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Sequence:	1702048	Instrument:	MS-V5
Matrix:	Water	Calibration:	1702011

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (1702048-CALC)			Lab File ID: 07FEB12.D			Analyzed: 02/07/17 11:27			
Pentafluorobenzene (IS)	198987	6.58	210237	6.59	95	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	68486	9.62	76990	9.62	89	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	272690	7.39	296345	7.39	92	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Sequence: 1702254
Matrix: Water

SDG: 17-03197
Project: Alameda
Instrument: MS-V5
Calibration: 1702011

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (1702254-ICV1)			Lab File ID: 26JAN15.D			Analyzed: 01/26/17 19:35			
Pentafluorobenzene (IS)	213388	6.58	210237	6.59	101	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	73774	9.62	76990	9.62	96	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	304652	7.39	296345	7.39	103	50 - 200	0.0000	+/-0.50	
Initial Cal Blank (1702254-ICB1)			Lab File ID: 26JAN17.D			Analyzed: 01/26/17 20:23			
Pentafluorobenzene (IS)	218750	6.59	213388	6.58	103	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	72255	9.62	73774	9.62	98	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	295229	7.39	304652	7.39	97	50 - 200	0.0000	+/-0.50	
Initial Cal Check (1702254-ICV2)			Lab File ID: 07FEB15.D			Analyzed: 02/07/17 12:46			
Pentafluorobenzene (IS)	188542	6.59	210237	6.59	90	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	65064	9.63	76990	9.62	85	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	259624	7.39	296345	7.39	88	50 - 200	0.0000	+/-0.50	
Initial Cal Blank (1702254-ICB2)			Lab File ID: 07FEB17.D			Analyzed: 02/07/17 13:33			
Pentafluorobenzene (IS)	199643	6.58	188542	6.59	106	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	66387	9.63	65064	9.63	102	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	275356	7.39	259624	7.39	106	50 - 200	0.0000	+/-0.50	
Calibration Check (1702254-CCV1)			Lab File ID: 09FEB06.D			Analyzed: 02/09/17 07:04			
Pentafluorobenzene (IS)	192775	6.58	210237	6.59	92	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	63121	9.63	76990	9.62	82	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	263650	7.39	296345	7.39	89	50 - 200	0.0000	+/-0.50	
Calibration Check (1702254-CCV2)			Lab File ID: 09FEB07.D			Analyzed: 02/09/17 07:28			
Pentafluorobenzene (IS)	199913	6.58	210237	6.59	95	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	70233	9.62	76990	9.62	91	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	264847	7.39	296345	7.39	89	50 - 200	0.0000	+/-0.50	
Calibration Blank (1702254-CCB1)			Lab File ID: 09FEB08.D			Analyzed: 02/09/17 07:51			
Pentafluorobenzene (IS)	202332	6.58	199913	6.58	101	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	67208	9.62	70233	9.62	96	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	272258	7.39	264847	7.39	103	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Sequence: 1702254
Instrument: MS-V5
Matrix: Water
Calibration: 1702011

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Blank (B[B0851-BLK1)			Lab File ID: 09FEB29.D			Analyzed: 02/09/17 16:09			
Pentafluorobenzene (IS)	198342	6.58	199913	6.58	99	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	64389	9.62	70233	9.62	92	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	262866	7.39	264847	7.39	99	50 - 200	0.0000	+/-0.50	
LCS (B[B0851-BS1)			Lab File ID: 09FEB31.D			Analyzed: 02/09/17 16:55			
Pentafluorobenzene (IS)	191016	6.58	199913	6.58	96	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	65800	9.63	70233	9.62	94	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	275506	7.39	264847	7.39	104	50 - 200	0.0000	+/-0.50	
Matrix Spike (B[B0851-MS1)			Lab File ID: 09FEB32.D			Analyzed: 02/09/17 17:18			
Pentafluorobenzene (IS)	192140	6.59	199913	6.58	96	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	67256	9.62	70233	9.62	96	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	266079	7.39	264847	7.39	100	50 - 200	0.0000	+/-0.50	
Matrix Spike Dup (B[B0851-MSD1)			Lab File ID: 09FEB33.D			Analyzed: 02/09/17 17:41			
Pentafluorobenzene (IS)	196475	6.58	199913	6.58	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	71699	9.62	70233	9.62	102	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	278332	7.39	264847	7.39	105	50 - 200	0.0000	+/-0.50	
Calibration Check (1702254-CCV3)			Lab File ID: 09FEB36.D			Analyzed: 02/09/17 18:51			
Pentafluorobenzene (IS)	202576	6.59	210237	6.59	96	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	70104	9.62	76990	9.62	91	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	290973	7.39	296345	7.39	98	50 - 200	0.0000	+/-0.50	
Calibration Check (1702254-CCV4)			Lab File ID: 09FEB37.D			Analyzed: 02/09/17 19:14			
Pentafluorobenzene (IS)	202038	6.58	210237	6.59	96	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	73786	9.62	76990	9.62	96	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	288051	7.39	296345	7.39	97	50 - 200	0.0000	+/-0.50	
Calibration Blank (1702254-CCB2)			Lab File ID: 09FEB38.D			Analyzed: 02/09/17 19:37			
Pentafluorobenzene (IS)	215460	6.58	202038	6.58	107	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	72313	9.62	73786	9.62	98	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	282843	7.39	288051	7.39	98	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Sequence: 1702340
Matrix: Water

SDG: 17-03197
Project: Alameda
Instrument: MS-V5
Calibration: 1702011

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (1702340-ICV1)			Lab File ID: 26JAN15.D			Analyzed: 01/26/17 19:35			
Pentafluorobenzene (IS)	213388	6.58	210237	6.59	101	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	73774	9.62	76990	9.62	96	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	304652	7.39	296345	7.39	103	50 - 200	0.0000	+/-0.50	
Initial Cal Blank (1702340-ICB1)			Lab File ID: 26JAN17.D			Analyzed: 01/26/17 20:23			
Pentafluorobenzene (IS)	218750	6.59	213388	6.58	103	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	72255	9.62	73774	9.62	98	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	295229	7.39	304652	7.39	97	50 - 200	0.0000	+/-0.50	
Initial Cal Check (1702340-ICV2)			Lab File ID: 07FEB15.D			Analyzed: 02/07/17 12:46			
Pentafluorobenzene (IS)	188542	6.59	210237	6.59	90	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	65064	9.63	76990	9.62	85	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	259624	7.39	296345	7.39	88	50 - 200	0.0000	+/-0.50	
Initial Cal Blank (1702340-ICB2)			Lab File ID: 07FEB17.D			Analyzed: 02/07/17 13:33			
Pentafluorobenzene (IS)	199643	6.58	188542	6.59	106	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	66387	9.63	65064	9.63	102	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	275356	7.39	259624	7.39	106	50 - 200	0.0000	+/-0.50	
Calibration Check (1702340-CCV1)			Lab File ID: 10FEB02.D			Analyzed: 02/10/17 06:27			
Pentafluorobenzene (IS)	190081	6.59	210237	6.59	90	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	65682	9.63	76990	9.62	85	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	264554	7.39	296345	7.39	89	50 - 200	0.0000	+/-0.50	
Calibration Check (1702340-CCV2)			Lab File ID: 10FEB03.D			Analyzed: 02/10/17 06:50			
Pentafluorobenzene (IS)	187920	6.58	210237	6.59	89	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	66125	9.62	76990	9.62	86	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	261715	7.39	296345	7.39	88	50 - 200	0.0000	+/-0.50	
Calibration Blank (1702340-CCB1)			Lab File ID: 10FEB04.D			Analyzed: 02/10/17 07:14			
Pentafluorobenzene (IS)	195851	6.58	187920	6.58	104	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	63968	9.62	66125	9.62	97	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	268151	7.39	261715	7.39	102	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Sequence: 1702340
Instrument: MS-V5
Matrix: Water
Calibration: 1702011

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
27EW-05_170203 (1703197-01)			Lab File ID: 10FEB14.D			Analyzed: 02/10/17 11:06			
Pentafluorobenzene (IS)	187692	6.58	187920	6.58	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	63565	9.62	66125	9.62	96	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	254155	7.39	261715	7.39	97	50 - 200	0.0000	+/-0.50	
27EW-12_170203 (1703197-02)			Lab File ID: 10FEB15.D			Analyzed: 02/10/17 11:29			
Pentafluorobenzene (IS)	188320	6.58	187920	6.58	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	63358	9.62	66125	9.62	96	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	246641	7.39	261715	7.39	94	50 - 200	0.0000	+/-0.50	
27EW-19_170203 (1703197-03)			Lab File ID: 10FEB16.D			Analyzed: 02/10/17 11:53			
Pentafluorobenzene (IS)	192694	6.58	187920	6.58	103	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	64052	9.62	66125	9.62	97	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	259565	7.39	261715	7.39	99	50 - 200	0.0000	+/-0.50	
27MW02_170203 (1703197-04)			Lab File ID: 10FEB17.D			Analyzed: 02/10/17 12:16			
Pentafluorobenzene (IS)	184769	6.58	187920	6.58	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	59466	9.62	66125	9.62	90	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	247883	7.39	261715	7.39	95	50 - 200	0.0000	+/-0.50	
DUP18_170203 (1703197-05)			Lab File ID: 10FEB18.D			Analyzed: 02/10/17 12:39			
Pentafluorobenzene (IS)	170942	6.58	187920	6.58	91	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	63259	9.63	66125	9.62	96	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	233116	7.39	261715	7.39	89	50 - 200	0.0000	+/-0.50	
Blank (B[B0960-BLK1)			Lab File ID: 10FEB20.D			Analyzed: 02/10/17 13:43			
Pentafluorobenzene (IS)	202267	6.58	187920	6.58	108	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	62424	9.62	66125	9.62	94	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	274591	7.39	261715	7.39	105	50 - 200	0.0000	+/-0.50	
26PZ01_170203 (1703197-26)			Lab File ID: 10FEB21.D			Analyzed: 02/10/17 14:06			
Pentafluorobenzene (IS)	188934	6.58	187920	6.58	101	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	58997	9.62	66125	9.62	89	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	244979	7.39	261715	7.39	94	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Sequence: 1702340
Instrument: MS-V5
Matrix: Water
Calibration: 1702011

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS (B[B0960-BS1)			Lab File ID: 10FEB22.D			Analyzed: 02/10/17 14:29			
Pentafluorobenzene (IS)	196731	6.58	187920	6.58	105	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	65758	9.62	66125	9.62	99	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	272494	7.39	261715	7.39	104	50 - 200	0.0000	+/-0.50	
Matrix Spike (B[B0960-MS1)			Lab File ID: 10FEB23.D			Analyzed: 02/10/17 14:53			
Pentafluorobenzene (IS)	200209	6.58	187920	6.58	107	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	66693	9.62	66125	9.62	101	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	271673	7.39	261715	7.39	104	50 - 200	0.0000	+/-0.50	
Matrix Spike Dup (B[B0960-MSD1)			Lab File ID: 10FEB24.D			Analyzed: 02/10/17 15:16			
Pentafluorobenzene (IS)	186527	6.58	187920	6.58	99	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	62598	9.62	66125	9.62	95	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	257942	7.39	261715	7.39	99	50 - 200	0.0000	+/-0.50	
M10B-01_170203 (1703197-06)			Lab File ID: 10FEB27.D			Analyzed: 02/10/17 16:25			
Pentafluorobenzene (IS)	216201	6.58	187920	6.58	115	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	67432	9.62	66125	9.62	102	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	286024	7.39	261715	7.39	109	50 - 200	0.0000	+/-0.50	
MW4-2-1_170203 (1703197-07)			Lab File ID: 10FEB28.D			Analyzed: 02/10/17 16:48			
Pentafluorobenzene (IS)	218194	6.59	187920	6.58	116	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	68065	9.62	66125	9.62	103	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	282938	7.39	261715	7.39	108	50 - 200	0.0000	+/-0.50	
Calibration Check (1702340-CCV3)			Lab File ID: 10FEB32.D			Analyzed: 02/10/17 18:22			
Pentafluorobenzene (IS)	198712	6.58	210237	6.59	95	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	67645	9.62	76990	9.62	88	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	287575	7.39	296345	7.39	97	50 - 200	0.0000	+/-0.50	
Calibration Check (1702340-CCV4)			Lab File ID: 10FEB33.D			Analyzed: 02/10/17 18:45			
Pentafluorobenzene (IS)	207704	6.58	210237	6.59	99	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	70199	9.62	76990	9.62	91	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	285480	7.39	296345	7.39	96	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure
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INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Sequence: 1702340
Instrument: MS-V5
Matrix: Water
Calibration: 1702011

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Blank (1702340-CCB2)			Lab File ID: 10FEB34.D			Analyzed: 02/10/17 19:08			
Pentafluorobenzene (IS)	216504	6.58	207704	6.58	104	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	70519	9.62	70199	9.62	100	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	302926	7.39	285480	7.39	106	50 - 200	0.0000	+/-0.50	
TB11_170203 (1703197-23)			Lab File ID: 10FEB35.D			Analyzed: 02/10/17 19:31			
Pentafluorobenzene (IS)	219903	6.58	207704	6.58	106	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	69554	9.62	70199	9.62	99	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	286062	7.39	285480	7.39	100	50 - 200	0.0000	+/-0.50	
TB12_170203 (1703197-24)			Lab File ID: 10FEB36.D			Analyzed: 02/10/17 19:55			
Pentafluorobenzene (IS)	215240	6.58	207704	6.58	104	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	69340	9.62	70199	9.62	99	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	284219	7.39	285480	7.39	100	50 - 200	0.0000	+/-0.50	
EB20_170203 (1703197-30)			Lab File ID: 10FEB37.D			Analyzed: 02/10/17 20:18			
Pentafluorobenzene (IS)	205022	6.59	207704	6.58	99	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	70730	9.62	70199	9.62	101	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	284163	7.39	285480	7.39	100	50 - 200	0.0000	+/-0.50	
EB21_170203 (1703197-31)			Lab File ID: 10FEB38.D			Analyzed: 02/10/17 20:41			
Pentafluorobenzene (IS)	214947	6.58	207704	6.58	103	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	71571	9.62	70199	9.62	102	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	291811	7.39	285480	7.39	102	50 - 200	0.0000	+/-0.50	
EB22_170203 (1703197-32)			Lab File ID: 10FEB39.D			Analyzed: 02/10/17 21:05			
Pentafluorobenzene (IS)	212265	6.58	207704	6.58	102	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	72539	9.62	70199	9.62	103	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	282017	7.39	285480	7.39	99	50 - 200	0.0000	+/-0.50	
EB23_170203 (1703197-33)			Lab File ID: 10FEB40.D			Analyzed: 02/10/17 21:28			
Pentafluorobenzene (IS)	214599	6.58	207704	6.58	103	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	69320	9.62	70199	9.62	99	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	278180	7.39	285480	7.39	97	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure
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San Diego, CA 92123

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INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Sequence: 1702340
Instrument: MS-V5
Matrix: Water
Calibration: 1702011

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
MW4-2-18_170203 (1703197-08)			Lab File ID: 10FEB41.D			Analyzed: 02/10/17 21:51			
Pentafluorobenzene (IS)	204538	6.58	207704	6.58	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	66865	9.62	70199	9.62	95	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	280015	7.39	285480	7.39	98	50 - 200	0.0000	+/-0.50	
MW530-1_170203 (1703197-09)			Lab File ID: 10FEB42.D			Analyzed: 02/10/17 22:15			
Pentafluorobenzene (IS)	197215	6.59	207704	6.58	95	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	62333	9.62	70199	9.62	89	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	260370	7.39	285480	7.39	91	50 - 200	0.0000	+/-0.50	
S4-TT-MW02A_170203 (1703197-10)			Lab File ID: 10FEB43.D			Analyzed: 02/10/17 22:38			
Pentafluorobenzene (IS)	203064	6.58	207704	6.58	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	67252	9.62	70199	9.62	96	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	265042	7.39	285480	7.39	93	50 - 200	0.0000	+/-0.50	
SMLS-01_170203 (1703197-11)			Lab File ID: 10FEB44.D			Analyzed: 02/10/17 23:01			
Pentafluorobenzene (IS)	210157	6.58	207704	6.58	101	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	68191	9.62	70199	9.62	97	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	277009	7.39	285480	7.39	97	50 - 200	0.0000	+/-0.50	
SMLS-07_170203 (1703197-12)			Lab File ID: 10FEB45.D			Analyzed: 02/10/17 23:24			
Pentafluorobenzene (IS)	206711	6.58	207704	6.58	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	62638	9.62	70199	9.62	89	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	270028	7.39	285480	7.39	95	50 - 200	0.0000	+/-0.50	
26MW08_170203 (1703197-13)			Lab File ID: 10FEB46.D			Analyzed: 02/10/17 23:48			
Pentafluorobenzene (IS)	199678	6.58	207704	6.58	96	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	63737	9.62	70199	9.62	91	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	264658	7.39	285480	7.39	93	50 - 200	0.0000	+/-0.50	
27EW-15_170203 (1703197-14)			Lab File ID: 10FEB47.D			Analyzed: 02/11/17 00:11			
Pentafluorobenzene (IS)	206176	6.58	207704	6.58	99	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	63220	9.62	70199	9.62	90	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	280125	7.39	285480	7.39	98	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
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INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Sequence: 1702340
Instrument: MS-V5
Matrix: Water
Calibration: 1702011

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
27EW-20_170203 (1703197-15)			Lab File ID: 10FEB48.D			Analyzed: 02/11/17 00:34			
Pentafluorobenzene (IS)	203926	6.58	207704	6.58	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	65708	9.62	70199	9.62	94	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	274332	7.39	285480	7.39	96	50 - 200	0.0000	+/-0.50	
DUP12_170203 (1703197-16)			Lab File ID: 10FEB49.D			Analyzed: 02/11/17 00:57			
Pentafluorobenzene (IS)	196824	6.58	207704	6.58	95	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	66775	9.62	70199	9.62	95	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	281381	7.39	285480	7.39	99	50 - 200	0.0000	+/-0.50	
M04-05_170203 (1703197-17)			Lab File ID: 10FEB50.D			Analyzed: 02/11/17 01:21			
Pentafluorobenzene (IS)	201119	6.59	207704	6.58	97	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	65397	9.62	70199	9.62	93	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	274019	7.39	285480	7.39	96	50 - 200	0.0000	+/-0.50	
M13-07_170203 (1703197-18)			Lab File ID: 10FEB51.D			Analyzed: 02/11/17 01:44			
Pentafluorobenzene (IS)	203378	6.58	207704	6.58	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	62994	9.62	70199	9.62	90	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	269348	7.39	285480	7.39	94	50 - 200	0.0000	+/-0.50	
MW530-2_170203 (1703197-19)			Lab File ID: 10FEB52.D			Analyzed: 02/11/17 02:07			
Pentafluorobenzene (IS)	188917	6.58	207704	6.58	91	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	60350	9.62	70199	9.62	86	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	247406	7.39	285480	7.39	87	50 - 200	0.0000	+/-0.50	
S4-TT-MW02B_170203 (1703197-20)			Lab File ID: 10FEB53.D			Analyzed: 02/11/17 02:30			
Pentafluorobenzene (IS)	203402	6.58	207704	6.58	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	66279	9.62	70199	9.62	94	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	269915	7.39	285480	7.39	95	50 - 200	0.0000	+/-0.50	
S4-TT-MW02C_170203 (1703197-21)			Lab File ID: 10FEB54.D			Analyzed: 02/11/17 02:53			
Pentafluorobenzene (IS)	208118	6.59	207704	6.58	100	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	66382	9.63	70199	9.62	95	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	279853	7.39	285480	7.39	98	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure
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Laboratory: BC Laboratories
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Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Sequence: 1702340
Instrument: MS-V5
Matrix: Water
Calibration: 1702011

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
26PZ03_170203 (1703197-27)			Lab File ID: 10FEB57.D			Analyzed: 02/11/17 04:03			
Pentafluorobenzene (IS)	182522	6.58	207704	6.58	88	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	57001	9.62	70199	9.62	81	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	241009	7.39	285480	7.39	84	50 - 200	0.0000	+/-0.50	
27MW06_170203 (1703197-28)			Lab File ID: 10FEB58.D			Analyzed: 02/11/17 04:26			
Pentafluorobenzene (IS)	204940	6.58	207704	6.58	99	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	63584	9.62	70199	9.62	91	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	265034	7.39	285480	7.39	93	50 - 200	0.0000	+/-0.50	
DUP07_170203 (1703197-29)			Lab File ID: 10FEB59.D			Analyzed: 02/11/17 04:49			
Pentafluorobenzene (IS)	208963	6.58	207704	6.58	101	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	67342	9.62	70199	9.62	96	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	275872	7.39	285480	7.39	97	50 - 200	0.0000	+/-0.50	
M13-09_170203 (1703197-34)			Lab File ID: 10FEB60.D			Analyzed: 02/11/17 05:12			
Pentafluorobenzene (IS)	190694	6.58	207704	6.58	92	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	63568	9.62	70199	9.62	91	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	257979	7.39	285480	7.39	90	50 - 200	0.0000	+/-0.50	
Calibration Check (1702340-CCV5)			Lab File ID: 10FEB63.D			Analyzed: 02/11/17 06:21			
Pentafluorobenzene (IS)	193312	6.58	210237	6.59	92	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	65462	9.62	76990	9.62	85	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	266436	7.39	296345	7.39	90	50 - 200	0.0000	+/-0.50	
Calibration Check (1702340-CCV6)			Lab File ID: 10FEB64.D			Analyzed: 02/11/17 06:44			
Pentafluorobenzene (IS)	204128	6.58	210237	6.59	97	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	66639	9.62	76990	9.62	87	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	267973	7.39	296345	7.39	90	50 - 200	0.0000	+/-0.50	
Calibration Blank (1702340-CCB3)			Lab File ID: 10FEB65.D			Analyzed: 02/11/17 07:07			
Pentafluorobenzene (IS)	210163	6.58	204128	6.58	103	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	65261	9.62	66639	9.62	98	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	280629	7.39	267973	7.39	105	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Sequence: 1702423
Matrix: Water

SDG: 17-03197
Project: Alameda
Instrument: MS-V5
Calibration: 1702011

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (1702423-ICV1)			Lab File ID: 26JAN15.D			Analyzed: 01/26/17 19:35			
Pentafluorobenzene (IS)	213388	6.58	210237	6.59	101	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	73774	9.62	76990	9.62	96	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	304652	7.39	296345	7.39	103	50 - 200	0.0000	+/-0.50	
Initial Cal Blank (1702423-ICB1)			Lab File ID: 26JAN17.D			Analyzed: 01/26/17 20:23			
Pentafluorobenzene (IS)	218750	6.59	213388	6.58	103	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	72255	9.62	73774	9.62	98	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	295229	7.39	304652	7.39	97	50 - 200	0.0000	+/-0.50	
Initial Cal Check (1702423-ICV2)			Lab File ID: 07FEB15.D			Analyzed: 02/07/17 12:46			
Pentafluorobenzene (IS)	188542	6.59	210237	6.59	90	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	65064	9.63	76990	9.62	85	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	259624	7.39	296345	7.39	88	50 - 200	0.0000	+/-0.50	
Initial Cal Blank (1702423-ICB2)			Lab File ID: 07FEB17.D			Analyzed: 02/07/17 13:33			
Pentafluorobenzene (IS)	199643	6.58	188542	6.59	106	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	66387	9.63	65064	9.63	102	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	275356	7.39	259624	7.39	106	50 - 200	0.0000	+/-0.50	
Calibration Check (1702423-CCV1)			Lab File ID: 12FEB02.D			Analyzed: 02/12/17 05:28			
Pentafluorobenzene (IS)	200402	6.58	210237	6.59	95	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	66457	9.62	76990	9.62	86	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	280908	7.39	296345	7.39	95	50 - 200	0.0000	+/-0.50	
Calibration Check (1702423-CCV2)			Lab File ID: 12FEB03.D			Analyzed: 02/12/17 05:51			
Pentafluorobenzene (IS)	204871	6.58	210237	6.59	97	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	66742	9.62	76990	9.62	87	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	270832	7.39	296345	7.39	91	50 - 200	0.0000	+/-0.50	
Calibration Blank (1702423-CCB1)			Lab File ID: 12FEB05.D			Analyzed: 02/12/17 06:37			
Pentafluorobenzene (IS)	215456	6.58	204871	6.58	105	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	69351	9.62	66742	9.62	104	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	280117	7.39	270832	7.39	103	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Sequence: 1702423
Instrument: MS-V5
Matrix: Water
Calibration: 1702011

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Blank (B[B0963-BLK1)			Lab File ID: 12FEB06.D			Analyzed: 02/12/17 07:01			
Pentafluorobenzene (IS)	210762	6.58	204871	6.58	103	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	69801	9.62	66742	9.62	105	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	282623	7.39	270832	7.39	104	50 - 200	0.0000	+/-0.50	
S4-TT-MW02D_170203 (1703197-22)			Lab File ID: 12FEB07.D			Analyzed: 02/12/17 07:24			
Pentafluorobenzene (IS)	217675	6.58	204871	6.58	106	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	69782	9.62	66742	9.62	105	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	292014	7.39	270832	7.39	108	50 - 200	0.0000	+/-0.50	
26MW03_170203 (1703197-25)			Lab File ID: 12FEB08.D			Analyzed: 02/12/17 07:47			
Pentafluorobenzene (IS)	200680	6.58	204871	6.58	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	63811	9.62	66742	9.62	96	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	273366	7.39	270832	7.39	101	50 - 200	0.0000	+/-0.50	
LCS (B[B0963-BS1)			Lab File ID: 12FEB11.D			Analyzed: 02/12/17 08:56			
Pentafluorobenzene (IS)	198741	6.58	204871	6.58	97	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	66131	9.62	66742	9.62	99	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	270225	7.39	270832	7.39	100	50 - 200	0.0000	+/-0.50	
Matrix Spike (B[B0963-MS1)			Lab File ID: 12FEB12.D			Analyzed: 02/12/17 09:19			
Pentafluorobenzene (IS)	210039	6.58	204871	6.58	103	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	70501	9.62	66742	9.62	106	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	283597	7.39	270832	7.39	105	50 - 200	0.0000	+/-0.50	
Matrix Spike Dup (B[B0963-MSD1)			Lab File ID: 12FEB13.D			Analyzed: 02/12/17 09:43			
Pentafluorobenzene (IS)	200797	6.58	204871	6.58	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	72563	9.62	66742	9.62	109	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	288255	7.39	270832	7.39	106	50 - 200	0.0000	+/-0.50	
MWOR-4_170203 (1703197-35)			Lab File ID: 12FEB29.D			Analyzed: 02/12/17 15:53			
Pentafluorobenzene (IS)	214217	6.58	204871	6.58	105	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	68396	9.62	66742	9.62	102	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	286408	7.39	270832	7.39	106	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Sequence: 1702423
Instrument: MS-V5
Matrix: Water
Calibration: 1702011

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
DUP18_170203 (1703197-05RE1)			Lab File ID: 12FEB30.D			Analyzed: 02/12/17 16:16			
Pentafluorobenzene (IS)	209945	6.58	204871	6.58	102	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	67294	9.62	66742	9.62	101	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	288912	7.39	270832	7.39	107	50 - 200	0.0000	+/-0.50	
Calibration Check (1702423-CCV4)			Lab File ID: 12FEB33.D			Analyzed: 02/12/17 17:25			
Pentafluorobenzene (IS)	201233	6.58	210237	6.59	96	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	69130	9.62	76990	9.62	90	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	279291	7.39	296345	7.39	94	50 - 200	0.0000	+/-0.50	
Calibration Check (1702423-CCV5)			Lab File ID: 12FEB34.D			Analyzed: 02/12/17 17:48			
Pentafluorobenzene (IS)	209784	6.58	210237	6.59	100	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	67298	9.62	76990	9.62	87	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	280430	7.39	296345	7.39	95	50 - 200	0.0000	+/-0.50	
Calibration Blank (1702423-CCB2)			Lab File ID: 12FEB35.D			Analyzed: 02/12/17 18:11			
Pentafluorobenzene (IS)	216907	6.58	209784	6.58	103	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	67485	9.62	67298	9.62	100	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	276928	7.39	280430	7.39	99	50 - 200	0.0000	+/-0.50	
S4-TT-MW02A_170203 (1703197-10RE1)			Lab File ID: 12FEB51.D			Analyzed: 02/13/17 00:22			
Pentafluorobenzene (IS)	212979	6.58	209784	6.58	102	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	66754	9.62	67298	9.62	99	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	266614	7.39	280430	7.39	95	50 - 200	0.0000	+/-0.50	
SMLS-01_170203 (1703197-11RE1)			Lab File ID: 12FEB52.D			Analyzed: 02/13/17 00:45			
Pentafluorobenzene (IS)	204360	6.58	209784	6.58	97	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	64286	9.62	67298	9.62	96	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	267907	7.39	280430	7.39	96	50 - 200	0.0000	+/-0.50	
S4-TT-MW02C_170203 (1703197-21RE1)			Lab File ID: 12FEB53.D			Analyzed: 02/13/17 01:08			
Pentafluorobenzene (IS)	205702	6.59	209784	6.58	98	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	66250	9.62	67298	9.62	98	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	271503	7.39	280430	7.39	97	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Sequence: 1702423
Instrument: MS-V5
Matrix: Water
Calibration: 1702011

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1702423-CCV6)			Lab File ID: 12FEB64.D			Analyzed: 02/13/17 05:23			
Pentafluorobenzene (IS)	175106	6.59	210237	6.59	83	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	57637	9.62	76990	9.62	75	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	242829	7.39	296345	7.39	82	50 - 200	0.0000	+/-0.50	
Calibration Check (1702423-CCV7)			Lab File ID: 12FEB65.D			Analyzed: 02/13/17 05:46			
Pentafluorobenzene (IS)	207060	6.58	210237	6.59	98	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	68542	9.62	76990	9.62	89	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	273957	7.39	296345	7.39	92	50 - 200	0.0000	+/-0.50	
Calibration Blank (1702423-CCB3)			Lab File ID: 12FEB66.D			Analyzed: 02/13/17 06:09			
Pentafluorobenzene (IS)	210993	6.58	207060	6.58	102	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	64660	9.62	68542	9.62	94	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	280537	7.39	273957	7.39	102	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL CALIBRATION STANDARDS

EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Sequence: 1702048
Calibration: 1702011

SDG: 17-03197
Project: Alameda
Instrument: MS-V5

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
6J06023	8260 V5 BFB 50NG	1702048-TUN3	13DEC05.D	12/13/16 09:45
6L13070	8260 V5 1621865 TPPH IC1	1702048-CALD	13DEC06.D	12/13/16 10:10
6L13071	8260 V5 1621865 TPPH IC2	1702048-CALE	13DEC07.D	12/13/16 10:32
6L13072	8260 V5 1621865 TPPH IC3	1702048-CALF	13DEC08.D	12/13/16 10:55
6L13073	8260 V5 1621865 TPPH IC4	1702048-CALG	13DEC09.D	12/13/16 11:18
6L13074	8260 V5 1621865 TPPH IC5	1702048-CALH	13DEC10.D	12/13/16 11:41
6L13075	8260 V5 1621865 TPPH IC6	1702048-CALI	13DEC11.D	12/13/16 12:04
7A05057	8260 V5 BFB 25NG	1702048-TUN1	26JAN03.D	01/26/17 12:01
7A26048	8260 V5 1701474 IC1	1702048-CAL1	26JAN06.D	01/26/17 16:07
7A26049	8260 V5 1701474 IC2	1702048-CAL2	26JAN07.D	01/26/17 16:30
7A26050	8260 V5 1701474 IC3	1702048-CAL3	26JAN08.D	01/26/17 16:53
7A26052	8260 V5 1701474 IC5	1702048-CAL5	26JAN10.D	01/26/17 17:39
7A26053	8260 V5 1701474 IC6	1702048-CAL6	26JAN11.D	01/26/17 18:02
7A26051	8260 V5 1701474 IC4	1702048-CAL4	26JAN14.D	01/26/17 19:12
7A05057	8260 V5 BFB 25NG	1702048-TUN2	07FEB05.D	02/07/17 08:42
7B08028	8260 V5 1702048 XIC1	1702048-CAL7	07FEB07.D	02/07/17 09:30
7B08029	8260 V5 1702048 XIC2	1702048-CAL8	07FEB08.D	02/07/17 09:53
7B08030	8260 V5 1702048 XIC3	1702048-CAL9	07FEB09.D	02/07/17 10:17
7B08031	8260 V5 1702048 XIC4	1702048-CALA	07FEB10.D	02/07/17 10:40
7B08032	8260 V5 1702048 XIC5	1702048-CALB	07FEB11.D	02/07/17 11:03
7B08033	8260 V5 1702048 XIC6	1702048-CALC	07FEB12.D	02/07/17 11:27

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
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Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL CALIBRATION DATA
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Calibration: 1702011
Instrument: MS-V5
Matrix: Water
Calibration Date: 01/26/17 17:00

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Benzene	0.5	2.001299	1	2.095124	10	1.998001	25	1.814919	50	1.805429	100	1.622498
Bromobenzene	0.5	1.235138	1	1.233305	10	1.314683	25	1.165975	50	1.096814	100	1.03003
Bromochloromethane	0.5	0.1425672	1	0.1325436	10	0.1711621	25	0.1646656	50	0.1627728	100	0.154593
Bromodichloromethane	0.5	0.3039686	1	0.3564123	10	0.3451298	25	0.3564332	50	0.3208134	100	0.2925043
Bromoform	0.5	0.2880288	1	0.2935321	10	0.3894204	25	0.3803455	50	0.3835852	100	0.3692516
Bromomethane	0.5	0.3263609	1	0.2894338	10	0.3174722	25	0.3148428	50	0.3352665	100	0.3246742
n-Butylbenzene	0.5	3.799186	1	3.935929	10	3.945626	25	3.241273	50	3.207154	100	2.832412
sec-Butylbenzene	0.5	6.128404	1	5.946271	10	5.702019	25	4.595516	50	4.524348	100	~~3.86744~~
tert-Butylbenzene	0.5	4.422263	1	4.154523	10	4.063275	25	3.618345	50	3.62728	100	3.227521
Carbon tetrachloride	0.5	0.5077027	1	0.4617677	10	0.4844907	25	0.4578262	50	0.4643785	100	0.4369645
Chlorobenzene	0.5	3.403415	1	3.032519	10	3.204125	25	2.822528	50	2.805949	100	2.599626
Chloroethane	0.5	0.3998238	1	0.4016734	10	0.4094729	25	0.3785956	50	0.3854055	100	0.3667295
Chloroform	0.5	0.7843921	1	0.7785005	10	0.807726	25	0.7485419	50	0.7363083	100	0.6736125
Chloromethane	0.5	0.8379683	1	0.7822706	10	0.7263955	25	0.5612485	50	0.6787272	100	0.6073041
2-Chlorotoluene	0.5	3.913108	1	4.135581	10	4.180331	25	3.40969	50	3.352137	100	3.005263
4-Chlorotoluene	0.5	3.679622	1	3.680004	10	3.650988	25	3.096584	50	3.016066	100	2.589454
Dibromochloromethane	0.5	0.1342072	1	0.1716034	10	0.182467	25	0.1914998	50	0.1804288	100	0.1648377
1,2-Dibromo-3-chloropropane	0.5	3.895912E-02	1	5.295468E-02	10	8.012157E-02	25	0.0787323	50	7.379204E-02	100	7.528387E-02
1,2-Dibromoethane	0.5	0.1336863	1	0.1367178	10	0.1480571	25	0.1507689	50	0.1407957	100	0.1240433
Dibromomethane	0.5	0.1271745	1	0.1174541	10	0.1114515	25	0.1179693	50	0.1072479	100	9.816732E-02
1,2-Dichlorobenzene	0.5	2.013515	1	1.889639	10	1.776988	25	1.627884	50	1.504987	100	1.346993
1,3-Dichlorobenzene	0.5	2.385104	1	2.233775	10	2.130371	25	1.857124	50	1.735571	100	~~1.491212~~
1,4-Dichlorobenzene	0.5	1.946344	1	2.30263	10	2.087517	25	1.848552	50	1.760416	100	1.551786
Dichlorodifluoromethane	0.5	0.5168742	1	0.5226796	10	0.485405	25	0.4207518	50	0.4655754	100	0.4479589
1,1-Dichloroethane	0.5	1.107756	1	1.088874	10	1.102973	25	0.9868425	50	0.9803533	100	0.9191498

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL CALIBRATION DATA
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Calibration: 1702011
Instrument: MS-V5
Matrix: Water
Calibration Date: 01/26/17 17:00

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dichloroethane	0.5	0.4109931	1	0.4806181	10	0.4661897	25	0.4574951	50	0.4285013	100	0.3855169
1,1-Dichloroethene	0.5	0.822077	1	0.8447269	10	0.830404	25	0.7319283	50	0.7397421	100	0.6910743
cis-1,2-Dichloroethene	0.5	0.4787352	1	0.465674	10	0.49377	25	0.4738671	50	0.4573558	100	0.430678
trans-1,2-Dichloroethene	0.5	0.5134236	1	0.4547271	10	0.4717729	25	0.4184687	50	0.4370799	100	0.4061514
Total 1,2-Dichloroethene	1	0.4960794	2	0.4602006	20	0.4827714	50	0.4461679	100	0.4472179	200	0.4184147
1,2-Dichloropropane	0.5	0.3695419	1	0.4161093	10	0.3856841	25	0.3855479	50	0.3571677	100	0.3198885
1,3-Dichloropropane	0.5	0.2666562	1	0.2813996	10	0.2688449	25	0.2920285	50	0.2572662	100	0.234033
2,2-Dichloropropane	0.5	0.6856847	1	0.694105	10	0.685368	25	0.5958894	50	0.6303353	100	0.5857332
1,1-Dichloropropene	0.5	0.6661612	1	0.6603559	10	0.6514751	25	0.5887013	50	0.577937	100	0.5343898
cis-1,3-Dichloropropene	0.5	0.4324455	1	0.4859147	10	0.4515889	25	0.4616187	50	0.417184	100	0.3694562
trans-1,3-Dichloropropene	0.5	0.2934847	1	0.3018546	10	0.3177998	25	0.3282147	50	0.2922465	100	0.267436
Total 1,3-Dichloropropene	1	0.3629651	2	0.3938846	20	0.3846944	50	0.3949167	100	0.3547153	200	0.3184461
Ethylbenzene	0.5	1.998469	1	1.919642	10	1.822346	25	1.555085	50	1.559384	100	1.339764
Hexachlorobutadiene	0.5	0.8608622	1	0.9649365	10	0.8274984	25	0.6743993	50	0.7067595	100	0.7733293
Isopropylbenzene	0.5	5.541599	1	5.735282	10	5.562761	25	4.617893	50	4.485209	100	~~3.88485~~
p-Isopropyltoluene	0.5	4.370139	1	4.541797	10	4.403227	25	3.50592	50	3.503481	100	~~2.972745~~
Methylene chloride	0.5	1.380813	1	0.6020785	10	0.4907061	25	0.4037044	50	0.3786286	100	0.3527932
Methyl t-butyl ether	0.5	0.620576	1	0.5944021	10	0.6643339	25	0.6932177	50	0.6343534	100	0.5647101
Naphthalene	0.5	0.995204	1	0.996737	10	1.150575	25	1.26631	50	1.223878	100	1.343888
n-Propylbenzene	0.5	6.643739	1	6.607306	10	6.34069	25	5.187874	50	5.019322	100	~~4.296814~~
Styrene	0.5	2.962237	1	3.059481	10	3.303756	25	2.912087	50	2.761897	100	2.402163
1,1,1,2-Tetrachloroethane	0.5	1.045717	1	0.9335509	10	1.031739	25	0.8899909	50	0.8747263	100	0.7813369
1,1,2,2-Tetrachloroethane	0.5	0.4779881	1	0.5739292	10	0.6053115	25	0.5986648	50	0.5656142	100	0.514204
Tetrachloroethene	0.5	0.406138	1	0.3933741	10	0.3359388	25	0.3169185	50	0.3112157	100	0.283893
Toluene	0.5	0.8762214	1	0.8889887	10	0.7874331	25	0.7579031	50	0.7340921	100	0.6340213
1,2,3-Trichlorobenzene	0.5	1.0124	1	0.9600973	10	1.063608	25	1.029141	50	1.01769	100	1.068681

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL CALIBRATION DATA
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Calibration: 1702011
Instrument: MS-V5
Matrix: Water
Calibration Date: 01/26/17 17:00

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2,4-Trichlorobenzene	0.5	1.113693	1	1.202472	10	1.312367	25	1.172028	50	1.14853	100	1.219963
1,1,1-Trichloroethane	0.5	0.6923136	1	0.6673965	10	0.6767841	25	0.6119399	50	0.6120982	100	0.5780424
1,1,2-Trichloroethane	0.5	0.1807662	1	0.141823	10	0.1556943	25	0.1617588	50	0.1464725	100	0.1333424
Trichloroethene	0.5	0.3552161	1	0.3431728	10	0.3314023	25	0.325283	50	0.3122907	100	0.2860576
Trichlorofluoromethane	0.5	0.6536298	1	0.6396432	10	0.5947437	25	0.5430728	50	0.5589381	100	0.5307153
1,2,3-Trichloropropane	0.5	6.824563E-02	1	9.885795E-02	10	0.1319488	25	0.1216781	50	0.1086731	100	0.1026184
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.4622083	1	0.4936999	10	0.4101976	25	0.3755476	50	0.3851518	100	0.3830124
1,2,4-Trimethylbenzene	0.5	4.004191	1	3.987501	10	4.061929	25	3.387905	50	3.272467	100	2.872534
1,3,5-Trimethylbenzene	0.5	4.453162	1	4.32265	10	4.183573	25	3.511978	50	3.38121	100	~~2.864052~~
Vinyl chloride	0.5	0.6796914	1	0.6803874	10	0.6002247	25	0.500264	50	0.5785057	100	0.5360639
Total Xylenes	1.5	2.24521	3	2.17529	30	2.169568	75	1.863115	150	1.843755	300	1.631824
Total Trihalomethanes	2	8219.5	4	8694	40	8729.6	100	8725.78	200	8143.66	400	7657.17
Acetone												
Acetonitrile												
Acrolein												
Acrylonitrile												
Allyl chloride												
t-Amyl Alcohol												
t-Amyl Methyl ether												
Benzyl chloride												
t-Butyl alcohol												
Carbon disulfide												
2-Chloroethyl vinyl ether	2	9.966237E-02	4	0.1032701	40	0.1104221	100	0.1195954	200	0.1023104	400	9.026862E-02
Chloroprene												
Chlorotrifluoroethene												
Cyclohexane												

AMEC Environmental & Infrastructure
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INITIAL CALIBRATION DATA
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Calibration: 1702011
Instrument: MS-V5
Matrix: Water
Calibration Date: 01/26/17 17:00

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Cyclohexanone												
trans-1,4-Dichloro-2-butene												
1,2-Dichlorotrifluoroethane												
2,2-Dichloro-1,1,1-trifluoroethane												
Diethyl ether												
Diisopropyl ether												
1,4-Dioxane												
Ethanol												
Ethyl Amyl Ketone												
Ethyl methacrylate												
Ethyl t-butyl ether												
Hexachloroethane	0.5	0.6636485	1	0.674308	10	0.8036327	25	0.7136875	50	0.7169495	100	0.6525504
Hexane												
2-Hexanone												
Isobutanol												
Isopropyl alcohol												
Methacrylonitrile												
Methyl acetate												
Methylcyclohexane												
Methyl ethyl ketone												
5-Methyl-3-heptanone												
Methyl iodide												
Methyl isobutyl ketone												
Methyl methacrylate												
Pentachloroethane												
Propionitrile												

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Laboratory: BC Laboratories
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Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Calibration: 1702011
Instrument: MS-V5
Matrix: Water
Calibration Date: 01/26/17 17:00

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Tetrahydrofuran												
Vinyl acetate												
p- & m-Xylenes	1	2.334995	2	2.206122	20	2.207287	50	1.86021	100	1.846253	200	1.615567
o-Xylene	0.5	2.065639	1	2.113624	10	2.094131	25	1.868923	50	1.838759	100	1.664337
Total Purgeable Petroleum Hydroc												
1,2-Dichloroethane-d4 (Surrogate)	10	0.2973525	10	0.2996357	10	0.3100069	10	0.3141835	10	0.2929637	10	0.2610772
Toluene-d8 (Surrogate)	10	1.132547	10	1.15171	10	1.124811	10	1.157786	10	1.153517	10	1.108464
4-Bromofluorobenzene (Surrogate)	10	1.327082	10	1.358059	10	1.440958	10	1.403026	10	1.400549	10	1.344476
Benzene	0.5	2.001299	1	2.095124	10	1.998001	25	1.814919	50	1.805429	100	1.622498
Bromobenzene	0.5	1.235138	1	1.233305	10	1.314683	25	1.165975	50	1.096814	100	1.03003
Bromochloromethane	0.5	0.1425672	1	0.1325436	10	0.1711621	25	0.1646656	50	0.1627728	100	0.154593
Bromodichloromethane	0.5	0.3039686	1	0.3564123	10	0.3451298	25	0.3564332	50	0.3208134	100	0.2925043
Bromoform	0.5	0.2880288	1	0.2935321	10	0.3894204	25	0.3803455	50	0.3835852	100	0.3692516
Bromomethane	0.5	0.3263609	1	0.2894338	10	0.3174722	25	0.3148428	50	0.3352665	100	0.3246742
n-Butylbenzene	0.5	3.799186	1	3.935929	10	3.945626	25	3.241273	50	3.207154	100	2.832412
sec-Butylbenzene	0.5	6.128404	1	5.946271	10	5.702019	25	4.595516	50	4.524348	100	~~3.86744~~
tert-Butylbenzene	0.5	4.422263	1	4.154523	10	4.063275	25	3.618345	50	3.62728	100	3.227521
Carbon tetrachloride	0.5	0.5077027	1	0.4617677	10	0.4844907	25	0.4578262	50	0.4643785	100	0.4369645
Chlorobenzene	0.5	3.403415	1	3.032519	10	3.204125	25	2.822528	50	2.805949	100	2.599626
Chloroethane	0.5	0.3998238	1	0.4016734	10	0.4094729	25	0.3785956	50	0.3854055	100	0.3667295
Chloroform	0.5	0.7843921	1	0.7785005	10	0.807726	25	0.7485419	50	0.7363083	100	0.6736125
Chloromethane	0.5	0.8379683	1	0.7822706	10	0.7263955	25	0.5612485	50	0.6787272	100	0.6073041
2-Chlorotoluene	0.5	3.913108	1	4.135581	10	4.180331	25	3.40969	50	3.352137	100	3.005263
4-Chlorotoluene	0.5	3.679622	1	3.680004	10	3.650988	25	3.096584	50	3.016066	100	2.589454
Dibromochloromethane	0.5	0.1342072	1	0.1716034	10	0.182467	25	0.1914998	50	0.1804288	100	0.1648377
1,2-Dibromo-3-chloropropane	0.5	3.895912E-02	1	5.295468E-02	10	8.012157E-02	25	0.0787323	50	7.379204E-02	100	7.528387E-02

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
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Project Manager: Kelli Miller

INITIAL CALIBRATION DATA
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Calibration: 1702011
Instrument: MS-V5
Matrix: Water
Calibration Date: 01/26/17 17:00

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dibromoethane	0.5	0.1336863	1	0.1367178	10	0.1480571	25	0.1507689	50	0.1407957	100	0.1240433
Dibromomethane	0.5	0.1271745	1	0.1174541	10	0.1114515	25	0.1179693	50	0.1072479	100	9.816732E-02
1,2-Dichlorobenzene	0.5	2.013515	1	1.889639	10	1.776988	25	1.627884	50	1.504987	100	1.346993
1,3-Dichlorobenzene	0.5	2.385104	1	2.233775	10	2.130371	25	1.857124	50	1.735571	100	~~1.491212~~
1,4-Dichlorobenzene	0.5	1.946344	1	2.30263	10	2.087517	25	1.848552	50	1.760416	100	1.551786
Dichlorodifluoromethane	0.5	0.5168742	1	0.5226796	10	0.485405	25	0.4207518	50	0.4655754	100	0.4479589
1,1-Dichloroethane	0.5	1.107756	1	1.088874	10	1.102973	25	0.9868425	50	0.9803533	100	0.9191498
1,2-Dichloroethane	0.5	0.4109931	1	0.4806181	10	0.4661897	25	0.4574951	50	0.4285013	100	0.3855169
1,1-Dichloroethene	0.5	0.822077	1	0.8447269	10	0.830404	25	0.7319283	50	0.7397421	100	0.6910743
cis-1,2-Dichloroethene	0.5	0.4787352	1	0.465674	10	0.49377	25	0.4738671	50	0.4573558	100	0.430678
trans-1,2-Dichloroethene	0.5	0.5134236	1	0.4547271	10	0.4717729	25	0.4184687	50	0.4370799	100	0.4061514
Total 1,2-Dichloroethene	1	0.4960794	2	0.4602006	20	0.4827714	50	0.4461679	100	0.4472179	200	0.4184147
1,2-Dichloropropane	0.5	0.3695419	1	0.4161093	10	0.3856841	25	0.3855479	50	0.3571677	100	0.3198885
1,3-Dichloropropane	0.5	0.2666562	1	0.2813996	10	0.2688449	25	0.2920285	50	0.2572662	100	0.234033
2,2-Dichloropropane	0.5	0.6856847	1	0.694105	10	0.685368	25	0.5958894	50	0.6303353	100	0.5857332
1,1-Dichloropropene	0.5	0.6661612	1	0.6603559	10	0.6514751	25	0.5887013	50	0.577937	100	0.5343898
cis-1,3-Dichloropropene	0.5	0.4324455	1	0.4859147	10	0.4515889	25	0.4616187	50	0.417184	100	0.3694562
trans-1,3-Dichloropropene	0.5	0.2934847	1	0.3018546	10	0.3177998	25	0.3282147	50	0.2922465	100	0.267436
Total 1,3-Dichloropropene	1	0.3629651	2	0.3938846	20	0.3846944	50	0.3949167	100	0.3547153	200	0.3184461
Ethylbenzene	0.5	1.998469	1	1.919642	10	1.822346	25	1.555085	50	1.559384	100	1.339764
Hexachlorobutadiene	0.5	0.8608622	1	0.9649365	10	0.8274984	25	0.6743993	50	0.7067595	100	0.7733293
Isopropylbenzene	0.5	5.541599	1	5.735282	10	5.562761	25	4.617893	50	4.485209	100	~~3.88485~~
p-Isopropyltoluene	0.5	4.370139	1	4.541797	10	4.403227	25	3.50592	50	3.503481	100	~~2.972745~~
Methylene chloride	0.5	1.380813	1	0.6020785	10	0.4907061	25	0.4037044	50	0.3786286	100	0.3527932
Methyl t-butyl ether	0.5	0.620576	1	0.5944021	10	0.6643339	25	0.6932177	50	0.6343534	100	0.5647101
Naphthalene	0.5	0.995204	1	0.996737	10	1.150575	25	1.26631	50	1.223878	100	1.343888

AMEC Environmental & Infrastructure
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Project: Alameda
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INITIAL CALIBRATION DATA
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Calibration: 1702011
Instrument: MS-V5
Matrix: Water
Calibration Date: 01/26/17 17:00

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	0.5	6.643739	1	6.607306	10	6.34069	25	5.187874	50	5.019322	100	~~4.296814~~
Styrene	0.5	2.962237	1	3.059481	10	3.303756	25	2.912087	50	2.761897	100	2.402163
1,1,1,2-Tetrachloroethane	0.5	1.045717	1	0.9335509	10	1.031739	25	0.8899909	50	0.8747263	100	0.7813369
1,1,2,2-Tetrachloroethane	0.5	0.4779881	1	0.5739292	10	0.6053115	25	0.5986648	50	0.5656142	100	0.514204
Tetrachloroethene	0.5	0.406138	1	0.3933741	10	0.3359388	25	0.3169185	50	0.3112157	100	0.283893
Toluene	0.5	0.8762214	1	0.8889887	10	0.7874331	25	0.7579031	50	0.7340921	100	0.6340213
1,2,3-Trichlorobenzene	0.5	1.0124	1	0.9600973	10	1.063608	25	1.029141	50	1.01769	100	1.068681
1,2,4-Trichlorobenzene	0.5	1.113693	1	1.202472	10	1.312367	25	1.172028	50	1.14853	100	1.219963
1,1,1-Trichloroethane	0.5	0.6923136	1	0.6673965	10	0.6767841	25	0.6119399	50	0.6120982	100	0.5780424
1,1,2-Trichloroethane	0.5	0.1807662	1	0.141823	10	0.1556943	25	0.1617588	50	0.1464725	100	0.1333424
Trichloroethene	0.5	0.3552161	1	0.3431728	10	0.3314023	25	0.325283	50	0.3122907	100	0.2860576
Trichlorofluoromethane	0.5	0.6536298	1	0.6396432	10	0.5947437	25	0.5430728	50	0.5589381	100	0.5307153
1,2,3-Trichloropropane	0.5	6.824563E-02	1	9.885795E-02	10	0.1319488	25	0.1216781	50	0.1086731	100	0.1026184
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.4622083	1	0.4936999	10	0.4101976	25	0.3755476	50	0.3851518	100	0.3830124
1,2,4-Trimethylbenzene	0.5	4.004191	1	3.987501	10	4.061929	25	3.387905	50	3.272467	100	2.872534
1,3,5-Trimethylbenzene	0.5	4.453162	1	4.32265	10	4.183573	25	3.511978	50	3.38121	100	~~2.864052~~
Vinyl chloride	0.5	0.6796914	1	0.6803874	10	0.6002247	25	0.500264	50	0.5785057	100	0.5360639
Total Xylenes	1.5	2.24521	3	2.17529	30	2.169568	75	1.863115	150	1.843755	300	1.631824
Total Trihalomethanes	2	8219.5	4	8694	40	8729.6	100	8725.78	200	8143.66	400	7657.17
Acetone												
Acetonitrile												
Acrolein												
Acrylonitrile												
Allyl chloride												
t-Amyl Alcohol												
t-Amyl Methyl ether												

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL CALIBRATION DATA
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Calibration: 1702011
Instrument: MS-V5
Matrix: Water
Calibration Date: 01/26/17 17:00

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Benzyl chloride												
t-Butyl alcohol												
Carbon disulfide												
2-Chloroethyl vinyl ether	2	9.966237E-02	4	0.1032701	40	0.1104221	100	0.1195954	200	0.1023104	400	9.026862E-02
Chloroprene												
Chlorotrifluoroethene												
Cyclohexane												
Cyclohexanone												
trans-1,4-Dichloro-2-butene												
1,2-Dichlorotrifluoroethane												
2,2-Dichloro-1,1,1-trifluoroethane												
Diethyl ether												
Diisopropyl ether												
1,4-Dioxane												
Ethanol												
Ethyl Amyl Ketone												
Ethyl methacrylate												
Ethyl t-butyl ether												
Hexachloroethane	0.5	0.6636485	1	0.674308	10	0.8036327	25	0.7136875	50	0.7169495	100	0.6525504
Hexane												
2-Hexanone												
Isobutanol												
Isopropyl alcohol												
Methacrylonitrile												
Methyl acetate												
Methylcyclohexane												

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

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INITIAL CALIBRATION DATA
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Calibration: 1702011
Instrument: MS-V5
Matrix: Water
Calibration Date: 01/26/17 17:00

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methyl ethyl ketone												
5-Methyl-3-heptanone												
Methyl iodide												
Methyl isobutyl ketone												
Methyl methacrylate												
Pentachloroethane												
Propionitrile												
Tetrahydrofuran												
Vinyl acetate												
p- & m-Xylenes	1	2.334995	2	2.206122	20	2.207287	50	1.86021	100	1.846253	200	1.615567
o-Xylene	0.5	2.065639	1	2.113624	10	2.094131	25	1.868923	50	1.838759	100	1.664337
Total Purgeable Petroleum Hydroc												
1,2-Dichloroethane-d4 (Surrogate)	10	0.2973525	10	0.2996357	10	0.3100069	10	0.3141835	10	0.2929637	10	0.2610772
Toluene-d8 (Surrogate)	10	1.132547	10	1.15171	10	1.124811	10	1.157786	10	1.153517	10	1.108464
4-Bromofluorobenzene (Surrogate)	10	1.327082	10	1.358059	10	1.440958	10	1.403026	10	1.400549	10	1.344476

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Calibration: 1702011
Instrument: MS-V5
Matrix: Water
Calibration Date: 01/26/17 17:00

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Benzene												
Bromobenzene												
Bromochloromethane												
Bromodichloromethane												
Bromoform												
Bromomethane												
n-Butylbenzene												
sec-Butylbenzene												
tert-Butylbenzene												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
Chloromethane												
2-Chlorotoluene												
4-Chlorotoluene												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane												
Dibromomethane												
1,2-Dichlorobenzene												
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												
1,1-Dichloroethane												

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San Diego, CA 92123

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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Calibration: 1702011
Matrix: Water

SDG: 17-03197
Project: Alameda
Instrument: MS-V5
Calibration Date: 01/26/17 17:00

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
Total 1,2-Dichloroethene												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
Total 1,3-Dichloropropene												
Ethylbenzene												
Hexachlorobutadiene												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl t-butyl ether												
Naphthalene												
n-Propylbenzene												
Styrene												
1,1,1,2-Tetrachloroethane												
1,1,2,2-Tetrachloroethane												
Tetrachloroethene												
Toluene												

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Calibration: 1702011
Matrix: Water

SDG: 17-03197
Project: Alameda
Instrument: MS-V5
Calibration Date: 01/26/17 17:00

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,1-Trichloroethane												
1,1,2-Trichloroethane												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,1,2-Trichloro-1,2,2-trifluoroethan												
1,2,4-Trimethylbenzene												
1,3,5-Trimethylbenzene												
Vinyl chloride												
Total Xylenes												
Total Trihalomethanes												
Acetone	16	~~5.885331E-02~~	64	5.486477E-02	160	4.575636E-02	320	4.303549E-02	480	4.238974E-02	800	3.815865E-02
Acetonitrile	8	2.630956E-02	32	2.305172E-02	80	1.904401E-02	160	1.759122E-02	240	1.628795E-02	400	1.561949E-02
Acrolein	10	2.014086E-02	40	2.119655E-02	100	2.164562E-02	200	2.087963E-02	320	1.881822E-02	500	1.687929E-02
Acrylonitrile	4	6.314798E-02	16	6.407166E-02	40	6.566992E-02	80	6.695815E-02	128	6.401479E-02	200	5.844955E-02
Allyl chloride	1.6	1.246209	6.4	1.315699	16	1.051404	32	1.112253	48	1.013242	80	0.9476071
t-Amyl Alcohol	50	8.368681E-03	800	1.000823E-02	1250	1.074325E-02	2500	8.599915E-03	5000	8.577871E-03	10000	7.209516E-03
t-Amyl Methyl ether	0.8	0.7890978	3.2	0.7684858	8	0.6892523	16	0.7455567	24	0.6924863	40	0.6838185
Benzyl chloride	1.6	0.7442607	6.4	0.925193	16	0.8848822	32	0.8672207	48	0.9347496	80	0.8378464
t-Butyl alcohol	40	1.442177E-02	160	1.491686E-02	400	1.279973E-02	800	1.090766E-02	1200	1.097766E-02	2000	~~9.742395E-03~~
Carbon disulfide	1.6	1.43122	6.4	1.565917	16	1.28503	32	1.374396	48	1.250966	80	1.160933
2-Chloroethyl vinyl ether												
Chloroprene	1.6	1.052005	6.4	1.14178	16	0.9459726	32	1.015339	48	0.9445065	80	0.9060749

AMEC Environmental & Infrastructure
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Reported: 3/7/2017 3:25:11PM
Project: Alameda
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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Calibration: 1702011
Instrument: MS-V5
Matrix: Water
Calibration Date: 01/26/17 17:00

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Chlorotrifluoroethene	0.5		8		12.5		25		50		100	
Cyclohexane	0.5	~~1.513133~~	8	1.14025	12.5	1.122121	25	1.141619	50	1.049253	100	0.978181
Cyclohexanone	20	4.801657E-02	80	5.026732E-02	200	4.903964E-02	400	3.924352E-02	640	0.0394305	1000	4.148994E-02
trans-1,4-Dichloro-2-butene	4	0.1390074	16	0.1734846	40	0.1540015	80	0.152377	120	0.1664349	200	0.1456137
1,2-Dichlorotrifluoroethane	0.5	0.600397	8	0.5858479	12.5	0.5631237	25	0.5863303	50	0.5569051	100	0.5084212
2,2-Dichloro-1,1,1-trifluoroethane	0.5	0.9930379	8	0.8988426	12.5	0.9032416	25	0.9175067	50	0.8494633	100	0.7593999
Diethyl ether	0.5	~~0.168764~~	8	0.2685847	12.5	0.2588715	25	0.2706454	50	0.2602594	100	0.2429581
Diisopropyl ether	0.8	0.3453366	3.2	0.3248456	8	0.2930466	16	0.3157978	24	0.3161555	40	0.3097464
1,4-Dioxane	100	8.646455E-04	400	8.345304E-04	1000	7.697778E-04	2000	6.080998E-04	3200	5.754803E-04	5000	6.211009E-04
Ethanol	200	~~1.961189E-03~~	800	1.782235E-03	2000	1.806949E-03	4000	1.342245E-03	6400	1.380193E-03	10000	0.0014058
Ethyl Amyl Ketone	0.5	0.2848699	8	0.3774285	12.5	0.401472	25	0.3713427	50	0.3908216	100	0.3433067
Ethyl methacrylate	4	0.1918515	16	0.2069249	40	0.1730604	80	0.1709325	120	0.1677136	200	0.1550915
Ethyl t-butyl ether	0.8	1.430653	3.2	1.466063	8	1.203704	16	1.304881	24	1.259166	40	1.202068
Hexachloroethane												
Hexane	0.5	0.5949562	8	0.5887845	12.5	0.6051452	25	0.6307923	50	0.5943815	100	0.5593928
2-Hexanone	16	0.1142652	64	0.1125322	160	9.156423E-02	320	8.783667E-02	480	8.119867E-02	800	6.678884E-02
Isobutanol	20	7.123354E-03	80	7.148602E-03	200	7.636189E-03	400	5.953416E-03	640	5.847877E-03	1000	5.458246E-03
Isopropyl alcohol	40	0.0104873	160	1.050187E-02	400	1.022373E-02	800	7.093126E-03	1280	7.063923E-03	2000	6.91995E-03
Methacrylonitrile	8	6.219711E-02	32	6.763931E-02	80	5.980472E-02	160	6.207918E-02	240	5.981788E-02	400	5.885384E-02
Methyl acetate	5	0.1573687	80	0.1495466	125	0.1512381	250	0.1460355	500	0.1424513	1000	0.1260794
Methylcyclohexane	0.5	0.7070219	8	0.6529624	12.5	0.6367468	25	0.6175689	50	0.5696085	100	0.5233474
Methyl ethyl ketone	8	0.1067181	32	9.618836E-02	80	8.350096E-02	160	8.184004E-02	240	8.202846E-02	400	0.0775675
5-Methyl-3-heptanone	1	0.4867162	16	0.508622	25	0.54838	50	0.4803251	100	0.4967023	200	0.3939813
Methyl iodide	1.6	0.5789929	6.4	0.6355158	16	0.5537757	32	0.609476	48	0.5838484	80	0.547304
Methyl isobutyl ketone	8	0.1497377	32	0.1713839	80	0.1389002	160	0.1345446	240	0.1270829	400	0.1119302

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Calibration: 1702011
Matrix: Water

SDG: 17-03197
Project: Alameda
Instrument: MS-V5
Calibration Date: 01/26/17 17:00

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methyl methacrylate	4	8.801604E-02	16	9.652917E-02	40	7.997498E-02	80	7.903812E-02	120	7.863968E-02	200	7.818512E-02
Pentachloroethane	0.8	0.4423481	3.2	0.5834902	8	0.5450262	16	0.5418493	24	0.5844225	40	0.5225192
Propionitrile	20	0.0264355	80	2.570414E-02	200	2.384504E-02	400	2.216291E-02	640	2.125608E-02	1000	1.865313E-02
Tetrahydrofuran	16	5.908316E-02	64	5.764278E-02	160	4.946151E-02	320	4.948612E-02	480	0.0473374	800	4.534272E-02
Vinyl acetate	8	0.728072	32	0.7392454	80	0.5993619	160	0.6205669	240	0.584189	400	0.5349996
p- & m-Xylenes												
o-Xylene												
Total Purgeable Petroleum Hydroca												
1,2-Dichloroethane-d4 (Surrogate)												
Toluene-d8 (Surrogate)												
4-Bromofluorobenzene (Surrogate)												
Benzene												
Bromobenzene												
Bromochloromethane												
Bromodichloromethane												
Bromoform												
Bromomethane												
n-Butylbenzene												
sec-Butylbenzene												
tert-Butylbenzene												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
Chloromethane												

AMEC Environmental & Infrastructure
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Project Number: 5023146096
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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Calibration: 1702011
Matrix: Water

SDG: 17-03197
Project: Alameda
Instrument: MS-V5
Calibration Date: 01/26/17 17:00

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
2-Chlorotoluene												
4-Chlorotoluene												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane												
Dibromomethane												
1,2-Dichlorobenzene												
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												
1,1-Dichloroethane												
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
Total 1,2-Dichloroethene												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
Total 1,3-Dichloropropene												
Ethylbenzene												
Hexachlorobutadiene												

AMEC Environmental & Infrastructure
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Project: Alameda
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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Calibration: 1702011
Matrix: Water

SDG: 17-03197
Project: Alameda
Instrument: MS-V5
Calibration Date: 01/26/17 17:00

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl t-butyl ether												
Naphthalene												
n-Propylbenzene												
Styrene												
1,1,1,2-Tetrachloroethane												
1,1,2,2-Tetrachloroethane												
Tetrachloroethene												
Toluene												
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,1-Trichloroethane												
1,1,2-Trichloroethane												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,1,2-Trichloro-1,2,2-trifluoroethar												
1,2,4-Trimethylbenzene												
1,3,5-Trimethylbenzene												
Vinyl chloride												
Total Xylenes												
Total Trihalomethanes												
Acetone	16	~~5.885331E-02~~	64	5.486477E-02	160	4.575636E-02	320	4.303549E-02	480	4.238974E-02	800	3.815865E-02

AMEC Environmental & Infrastructure
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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Calibration: 1702011
Matrix: Water

SDG: 17-03197
Project: Alameda
Instrument: MS-V5
Calibration Date: 01/26/17 17:00

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetonitrile	8	2.630956E-02	32	2.305172E-02	80	1.904401E-02	160	1.759122E-02	240	1.628795E-02	400	1.561949E-02
Acrolein	10	2.014086E-02	40	2.119655E-02	100	2.164562E-02	200	2.087963E-02	320	1.881822E-02	500	1.687929E-02
Acrylonitrile	4	6.314798E-02	16	6.407166E-02	40	6.566992E-02	80	6.695815E-02	128	6.401479E-02	200	5.844955E-02
Allyl chloride	1.6	1.246209	6.4	1.315699	16	1.051404	32	1.112253	48	1.013242	80	0.9476071
t-Amyl Alcohol	50	8.368681E-03	800	1.000823E-02	1250	1.074325E-02	2500	8.599915E-03	5000	8.577871E-03	10000	7.209516E-03
t-Amyl Methyl ether	0.8	0.7890978	3.2	0.7684858	8	0.6892523	16	0.7455567	24	0.6924863	40	0.6838185
Benzyl chloride	1.6	0.7442607	6.4	0.925193	16	0.8848822	32	0.8672207	48	0.9347496	80	0.8378464
t-Butyl alcohol	40	1.442177E-02	160	1.491686E-02	400	1.279973E-02	800	1.090766E-02	1200	1.097766E-02	2000	~~9.742395E-03~~
Carbon disulfide	1.6	1.43122	6.4	1.565917	16	1.28503	32	1.374396	48	1.250966	80	1.160933
2-Chloroethyl vinyl ether												
Chloroprene	1.6	1.052005	6.4	1.14178	16	0.9459726	32	1.015339	48	0.9445065	80	0.9060749
Chlorotrifluoroethene	0.5		8		12.5		25		50		100	
Cyclohexane	0.5	~~1.513133~~	8	1.14025	12.5	1.122121	25	1.141619	50	1.049253	100	0.978181
Cyclohexanone	20	4.801657E-02	80	5.026732E-02	200	4.903964E-02	400	3.924352E-02	640	0.0394305	1000	4.148994E-02
trans-1,4-Dichloro-2-butene	4	0.1390074	16	0.1734846	40	0.1540015	80	0.152377	120	0.1664349	200	0.1456137
1,2-Dichlorotrifluoroethane	0.5	0.600397	8	0.5858479	12.5	0.5631237	25	0.5863303	50	0.5569051	100	0.5084212
2,2-Dichloro-1,1,1-trifluoroethane	0.5	0.9930379	8	0.8988426	12.5	0.9032416	25	0.9175067	50	0.8494633	100	0.7593999
Diethyl ether	0.5	~~0.168764~~	8	0.2685847	12.5	0.2588715	25	0.2706454	50	0.2602594	100	0.2429581
Diisopropyl ether	0.8	0.3453366	3.2	0.3248456	8	0.2930466	16	0.3157978	24	0.3161555	40	0.3097464
1,4-Dioxane	100	8.646455E-04	400	8.345304E-04	1000	7.697778E-04	2000	6.080998E-04	3200	5.754803E-04	5000	6.211009E-04
Ethanol	200	~~1.961189E-03~~	800	1.782235E-03	2000	1.806949E-03	4000	1.342245E-03	6400	1.380193E-03	10000	0.0014058
Ethyl Amyl Ketone	0.5	0.2848699	8	0.3774285	12.5	0.401472	25	0.3713427	50	0.3908216	100	0.3433067
Ethyl methacrylate	4	0.1918515	16	0.2069249	40	0.1730604	80	0.1709325	120	0.1677136	200	0.1550915
Ethyl t-butyl ether	0.8	1.430653	3.2	1.466063	8	1.203704	16	1.304881	24	1.259166	40	1.202068
Hexachloroethane												

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Calibration: 1702011
Matrix: Water

SDG: 17-03197
Project: Alameda
Instrument: MS-V5
Calibration Date: 01/26/17 17:00

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Hexane	0.5	0.5949562	8	0.5887845	12.5	0.6051452	25	0.6307923	50	0.5943815	100	0.5593928
2-Hexanone	16	0.1142652	64	0.1125322	160	9.156423E-02	320	8.783667E-02	480	8.119867E-02	800	6.678884E-02
Isobutanol	20	7.123354E-03	80	7.148602E-03	200	7.636189E-03	400	5.953416E-03	640	5.847877E-03	1000	5.458246E-03
Isopropyl alcohol	40	0.0104873	160	1.050187E-02	400	1.022373E-02	800	7.093126E-03	1280	7.063923E-03	2000	6.91995E-03
Methacrylonitrile	8	6.219711E-02	32	6.763931E-02	80	5.980472E-02	160	6.207918E-02	240	5.981788E-02	400	5.885384E-02
Methyl acetate	5	0.1573687	80	0.1495466	125	0.1512381	250	0.1460355	500	0.1424513	1000	0.1260794
Methylcyclohexane	0.5	0.7070219	8	0.6529624	12.5	0.6367468	25	0.6175689	50	0.5696085	100	0.5233474
Methyl ethyl ketone	8	0.1067181	32	9.618836E-02	80	8.350096E-02	160	8.184004E-02	240	8.202846E-02	400	0.0775675
5-Methyl-3-heptanone	1	0.4867162	16	0.508622	25	0.54838	50	0.4803251	100	0.4967023	200	0.3939813
Methyl iodide	1.6	0.5789929	6.4	0.6355158	16	0.5537757	32	0.609476	48	0.5838484	80	0.547304
Methyl isobutyl ketone	8	0.1497377	32	0.1713839	80	0.1389002	160	0.1345446	240	0.1270829	400	0.1119302
Methyl methacrylate	4	8.801604E-02	16	9.652917E-02	40	7.997498E-02	80	7.903812E-02	120	7.863968E-02	200	7.818512E-02
Pentachloroethane	0.8	0.4423481	3.2	0.5834902	8	0.5450262	16	0.5418493	24	0.5844225	40	0.5225192
Propionitrile	20	0.0264355	80	2.570414E-02	200	2.384504E-02	400	2.216291E-02	640	2.125608E-02	1000	1.865313E-02
Tetrahydrofuran	16	5.908316E-02	64	5.764278E-02	160	4.946151E-02	320	4.948612E-02	480	0.0473374	800	4.534272E-02
Vinyl acetate	8	0.728072	32	0.7392454	80	0.5993619	160	0.6205669	240	0.584189	400	0.5349996
p- & m-Xylenes												
o-Xylene												
Total Purgeable Petroleum Hydroc												
1,2-Dichloroethane-d4 (Surrogate)												
Toluene-d8 (Surrogate)												
4-Bromofluorobenzene (Surrogate)												

AMEC Environmental & Infrastructure
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San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Calibration: 1702011
Matrix: Water

SDG: 17-03197
Project: Alameda
Instrument: MS-V5
Calibration Date: 01/26/17 17:00

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Benzene												
Bromobenzene												
Bromochloromethane												
Bromodichloromethane												
Bromoform												
Bromomethane												
n-Butylbenzene												
sec-Butylbenzene												
tert-Butylbenzene												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
Chloromethane												
2-Chlorotoluene												
4-Chlorotoluene												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane												
Dibromomethane												
1,2-Dichlorobenzene												
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												

AMEC Environmental & Infrastructure
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San Diego, CA 92123

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Project Manager: Kelli Miller

INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Calibration: 1702011
Instrument: MS-V5
Matrix: Water
Calibration Date: 01/26/17 17:00

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,1-Dichloroethane												
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
Total 1,2-Dichloroethene												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
Total 1,3-Dichloropropene												
Ethylbenzene												
Hexachlorobutadiene												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl t-butyl ether												
Naphthalene												
n-Propylbenzene												
Styrene												
1,1,1,2-Tetrachloroethane												
1,1,2,2-Tetrachloroethane												
Tetrachloroethene												

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San Diego, CA 92123

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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Calibration: 1702011
Matrix: Water

SDG: 17-03197
Project: Alameda
Instrument: MS-V5
Calibration Date: 01/26/17 17:00

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Toluene												
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,1-Trichloroethane												
1,1,2-Trichloroethane												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,1,2-Trichloro-1,2,2-trifluoroethar												
1,2,4-Trimethylbenzene												
1,3,5-Trimethylbenzene												
Vinyl chloride												
Total Xylenes												
Total Trihalomethanes												
Acetone												
Acetonitrile												
Acrolein												
Acrylonitrile												
Allyl chloride												
t-Amyl Alcohol												
t-Amyl Methyl ether												
Benzyl chloride												
t-Butyl alcohol												
Carbon disulfide												
2-Chloroethyl vinyl ether												

AMEC Environmental & Infrastructure
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San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Calibration: 1702011
Instrument: MS-V5
Matrix: Water
Calibration Date: 01/26/17 17:00

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Chloroprene												
Chlorotrifluoroethene												
Cyclohexane												
Cyclohexanone												
trans-1,4-Dichloro-2-butene												
1,2-Dichlorotrifluoroethane												
2,2-Dichloro-1,1,1-trifluoroethane												
Diethyl ether												
Diisopropyl ether												
1,4-Dioxane												
Ethanol												
Ethyl Amyl Ketone												
Ethyl methacrylate												
Ethyl t-butyl ether												
Hexachloroethane												
Hexane												
2-Hexanone												
Isobutanol												
Isopropyl alcohol												
Methacrylonitrile												
Methyl acetate												
Methylcyclohexane												
Methyl ethyl ketone												
5-Methyl-3-heptanone												
Methyl iodide												

AMEC Environmental & Infrastructure
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San Diego, CA 92123

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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Calibration: 1702011
Instrument: MS-V5
Matrix: Water
Calibration Date: 01/26/17 17:00

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methyl isobutyl ketone												
Methyl methacrylate												
Pentachloroethane												
Propionitrile												
Tetrahydrofuran												
Vinyl acetate												
p- & m-Xylenes												
o-Xylene												
Total Purgeable Petroleum Hydroc	50	2.870791	500	3.087034	1000	3.029454	1500	3.069891	2000	2.877825	2500	2.932973
1,2-Dichloroethane-d4 (Surrogate)												
Toluene-d8 (Surrogate)												
4-Bromofluorobenzene (Surrogate)												
Benzene												
Bromobenzene												
Bromochloromethane												
Bromodichloromethane												
Bromoform												
Bromomethane												
n-Butylbenzene												
sec-Butylbenzene												
tert-Butylbenzene												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												

AMEC Environmental & Infrastructure
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San Diego, CA 92123

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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Calibration: 1702011
Instrument: MS-V5
Matrix: Water
Calibration Date: 01/26/17 17:00

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Chloromethane												
2-Chlorotoluene												
4-Chlorotoluene												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane												
Dibromomethane												
1,2-Dichlorobenzene												
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												
1,1-Dichloroethane												
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
Total 1,2-Dichloroethene												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
Total 1,3-Dichloropropene												
Ethylbenzene												

AMEC Environmental & Infrastructure
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San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Calibration: 1702011
Matrix: Water

SDG: 17-03197
Project: Alameda
Instrument: MS-V5
Calibration Date: 01/26/17 17:00

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Hexachlorobutadiene												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl t-butyl ether												
Naphthalene												
n-Propylbenzene												
Styrene												
1,1,1,2-Tetrachloroethane												
1,1,2,2-Tetrachloroethane												
Tetrachloroethene												
Toluene												
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,1-Trichloroethane												
1,1,2-Trichloroethane												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,1,2-Trichloro-1,2,2-trifluoroethan												
1,2,4-Trimethylbenzene												
1,3,5-Trimethylbenzene												
Vinyl chloride												
Total Xylenes												
Total Trihalomethanes												

AMEC Environmental & Infrastructure
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San Diego, CA 92123

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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Calibration: 1702011
Instrument: MS-V5
Matrix: Water
Calibration Date: 01/26/17 17:00

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone												
Acetonitrile												
Acrolein												
Acrylonitrile												
Allyl chloride												
t-Amyl Alcohol												
t-Amyl Methyl ether												
Benzyl chloride												
t-Butyl alcohol												
Carbon disulfide												
2-Chloroethyl vinyl ether												
Chloroprene												
Chlorotrifluoroethene												
Cyclohexane												
Cyclohexanone												
trans-1,4-Dichloro-2-butene												
1,2-Dichlorotrifluoroethane												
2,2-Dichloro-1,1,1-trifluoroethane												
Diethyl ether												
Diisopropyl ether												
1,4-Dioxane												
Ethanol												
Ethyl Amyl Ketone												
Ethyl methacrylate												
Ethyl t-butyl ether												

AMEC Environmental & Infrastructure
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San Diego, CA 92123

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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Calibration: 1702011
Instrument: MS-V5
Matrix: Water
Calibration Date: 01/26/17 17:00

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Hexachloroethane												
Hexane												
2-Hexanone												
Isobutanol												
Isopropyl alcohol												
Methacrylonitrile												
Methyl acetate												
Methylcyclohexane												
Methyl ethyl ketone												
5-Methyl-3-heptanone												
Methyl iodide												
Methyl isobutyl ketone												
Methyl methacrylate												
Pentachloroethane												
Propionitrile												
Tetrahydrofuran												
Vinyl acetate												
p- & m-Xylenes												
o-Xylene												
Total Purgeable Petroleum Hydroca	50	2.870791	500	3.087034	1000	3.029454	1500	3.069891	2000	2.877825	2500	2.932973
1,2-Dichloroethane-d4 (Surrogate)												
Toluene-d8 (Surrogate)												
4-Bromofluorobenzene (Surrogate)												

AMEC Environmental & Infrastructure
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San Diego, CA 92123

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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Calibration: 1702011
Instrument: MS-V5
Matrix: Water
Calibration Date: 01/26/17 17:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Benzene	1.889545	9.180943	6.94	5.634228E-03			15	
Bromobenzene	1.179324	8.781515	10.45	1.926087E-02			15	
Bromochloromethane	0.1547174	9.471048	6.183333	0.1673501			15	
Bromodichloromethane	0.3292103	8.362367	8.06	1.375235E-02			15	
Bromoform	0.3506939	13.37441	10.16	1.968264E-02			SPCC (0.10)	
Bromomethane	0.3180084	4.949792	2.436667	0.2126912			15	
n-Butylbenzene	3.493597	13.28005	11.23667	9.156336E-02			15	
sec-Butylbenzene	5.379312	14.19416	10.914	8.097688E-02			15	
tert-Butylbenzene	3.852201	11.35355	10.78333	5.100083E-02			15	
Carbon tetrachloride	0.4688551	5.191681	6.72	1.146183E-02			15	
Chlorobenzene	2.978027	9.870514	9.643333	4.988898E-02			SPCC (0.30)	
Chloroethane	0.3902835	4.138092	2.566667	0.2020673			15	
Chloroform	0.7548469	6.273066	6.331667	6.112167E-02			CCC (20)	
Chloromethane	0.6989857	14.97623	1.943333	0.2654085	0.99772		SPCC (0.10)	
2-Chlorotoluene	3.666018	13.06413	10.555	0.0536519			15	
4-Chlorotoluene	3.285453	13.86354	10.62667	4.983224E-02			15	
Dibromochloromethane	0.1708407	11.80164	9.241666	4.175574E-02			15	
1,2-Dibromo-3-chloropropane	0.0666406	25.17557	11.73833	8.312334E-02	0.99981		0.99	
1,2-Dibromoethane	0.1390115	7.054979	9.328333	4.188551E-02			15	
Dibromomethane	0.1132441	8.835653	7.91	1.653285E-02			15	
1,2-Dichlorobenzene	1.693334	14.65138	11.27833	8.752717E-02			15	
1,3-Dichlorobenzene	2.068389	12.94808	11.008	0.1004115			15	
1,4-Dichlorobenzene	1.916207	13.63312	11.065	7.433322E-02			15	
Dichlorodifluoromethane	0.4765408	8.332592	1.76	8.063699E-03			15	
1,1-Dichloroethane	1.030991	7.692112	5.058333	8.126204E-02			SPCC (0.10)	
1,2-Dichloroethane	0.438219	8.268656	7.005	7.754629E-02			15	

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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Calibration: 1702011
Instrument: MS-V5
Matrix: Water
Calibration Date: 01/26/17 17:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1-Dichloroethene	0.7766588	8.198684	3.515	0.1557692			CCC (20)	
cis-1,2-Dichloroethene	0.46668	4.610702	5.831667	0.1294296			15	
trans-1,2-Dichloroethene	0.4502706	8.659956	4.501667	0.0902417			15	
Total 1,2-Dichloroethene	0.4584753	6.08411	5.831667	0.1294296			15	
1,2-Dichloropropane	0.3723232	8.709297	7.84	9.702376E-03			CCC (20)	
1,3-Dichloropropane	0.2667047	7.533232	9.09	0.0186287			15	
2,2-Dichloropropane	0.6461859	7.526579	5.84	0.1091096			15	
1,1-Dichloropropene	0.61317	8.797094	6.726667	7.685787E-02			15	
cis-1,3-Dichloropropene	0.436368	9.271827	8.408333	4.530242E-02			15	
trans-1,3-Dichloropropene	0.3001727	7.112617	8.83	2.384445E-02			15	
Total 1,3-Dichloropropene	0.3682704	7.991017	8.83	2.384445E-02			15	
Ethylbenzene	1.699115	14.95483	9.698333	4.299496E-02			CCC (20)	
Hexachlorobutadiene	0.8012975	13.30544	12.28833	0.1407559			15	
Isopropylbenzene	5.188549	11.33656	10.24	0.015589			15	
p-Isopropyltoluene	4.064913	12.68025	10.998	7.728538E-02			15	
Methylene chloride	0.601454	65.25738	4.151667	9.579772E-02	0.99908		0.99	
Methyl t-butyl ether	0.6285989	7.393993	4.491666	8.862136E-02			15	
Naphthalene	1.162765	12.34674	12.385	0.1128744			15	
n-Propylbenzene	5.959786	13.29814	10.488	3.977509E-02			15	
Styrene	2.90027	10.45117	10.03167	3.567744E-02			15	
1,1,1,2-Tetrachloroethane	0.9261768	10.84263	9.698333	4.299496E-02			15	
1,1,2,2-Tetrachloroethane	0.555952	8.993065	10.42	9.595757E-03			SPCC (0.30)	
Tetrachloroethene	0.3412463	14.19945	9.038333	3.957867E-02			15	
Toluene	0.7797766	12.17928	8.661667	0.04731			CCC (20)	
1,2,3-Trichlorobenzene	1.02527	3.862187	12.51667	0.1652262			15	
1,2,4-Trichlorobenzene	1.194842	5.768365	12.22	0.1261601			15	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Calibration: 1702011
Instrument: MS-V5
Matrix: Water
Calibration Date: 01/26/17 17:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1-Trichloroethane	0.6397625	7.075288	6.528334	6.356984E-02			15	
1,1,2-Trichloroethane	0.1533095	10.94703	8.978333	0.0413948			15	
Trichloroethene	0.3255704	7.473897	7.605	0.0716509			15	
Trichlorofluoromethane	0.5867905	8.741507	2.868333	0.1427778			15	
1,2,3-Trichloropropane	0.105337	20.84859	10.46167	3.519845E-02	0.99859		0.99	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.4183029	11.63839	3.535	0.154669			15	
1,2,4-Trimethylbenzene	3.597754	13.66403	10.81667	4.928939E-02			15	
1,3,5-Trimethylbenzene	3.970515	12.33762	10.588	4.151475E-02			15	
Vinyl chloride	0.5958562	12.3798	2.07	5.801038E-03			CCC (20)	
Total Xylenes	1.988127	12.26843	10.02	0.0198293			15	
Total Trihalomethanes	8361.618	5.192236	10.16	1.968264E-02			15	
Acetone	0.044841	13.89285	3.566	0.1535831			15	
Acetonitrile	1.965066E-02	21.35825	3.915	0.1394718	0.99895		0.99	
Acrolein	0.0199267	8.98742	3.396667	0.2401525			15	
Acrylonitrile	6.371868E-02	4.581122	4.443333	0.1152199			15	
Allyl chloride	1.114402	12.68532	3.991667	0.1026915			15	
t-Amyl Alcohol	8.917911E-03	14.14637	6.971666	6.115328E-02			15	
t-Amyl Methyl ether	0.7281162	6.262118	7.09	1.844497E-02			15	
Benzyl chloride	0.8656921	8.036501	11.1	1.307304E-02			15	
t-Butyl alcohol	1.280474E-02	14.61721	4.276	0.2100331			15	
Carbon disulfide	1.344744	10.69499	3.8	0.1664058			15	
2-Chloroethyl vinyl ether	0.1042548	9.542111	8.283333	6.161591E-02			15	
Chloroprene	1.000946	8.693085	5.151667	7.949544E-02			15	
Chlorotrifluoroethene							15	
Cyclohexane	1.086285	6.560645	6.622	6.679619E-02			15	
Cyclohexanone	4.458125E-02	11.37529	10.3	2.077223E-03			15	

AMEC Environmental & Infrastructure
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San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Calibration: 1702011
Instrument: MS-V5
Matrix: Water
Calibration Date: 01/26/17 17:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
trans-1,4-Dichloro-2-butene	0.1551532	8.274238	10.43167	3.686923E-02			15	
1,2-Dichlorotrifluoroethane	0.5668375	5.793663	3.3	1.804918E-02			15	
2,2-Dichloro-1,1,1-trifluoroethane	0.8869153	8.772737	3.391667	0.1202184			15	
Diethyl ether	0.2602638	4.202131	3.22	2.166916E-02			15	
Diisopropyl ether	0.3174881	5.440254	5.103333	9.952656E-02			15	
1,4-Dioxane	7.122724E-04	17.68626	7.9	0.1123963	0.99707		0.99	
Ethanol	1.543484E-03	14.9342	3.09	0.7928208			15	
Ethyl Amyl Ketone	0.3615402	11.74224	10.76	1.356797E-02			15	
Ethyl methacrylate	0.1775957	10.48137	8.86	1.624233E-02			15	
Ethyl t-butyl ether	1.311089	8.660484	5.591667	7.395801E-02			15	
Hexachloroethane	0.7041294	7.867683	11.45	0.0960662			15	
Hexane	0.5955754	3.893747	4.861667	8.576904E-02			15	
2-Hexanone	0.0923643	19.88289	9.103333	0.0561633		0.9995528	0.99	
Isobutanol	6.527947E-03	13.53742	6.845	0.1220592			15	
Isopropyl alcohol	8.714983E-03	21.27518	3.753333	0.575574	0.99615		0.99	
Methacrylonitrile	6.173201E-02	5.168261	6.13	1.714861E-02			15	
Methyl acetate	0.1454533	7.384817	3.973333	0.2059519			15	
Methylcyclohexane	0.617876	10.4386	7.815	6.776742E-02			15	
Methyl ethyl ketone	0.0879739	12.65874	5.813333	8.944584E-02			15	
5-Methyl-3-heptanone	0.4857878	10.50343	10.44	2.779896E-03			15	
Methyl iodide	0.5848188	5.714397	3.705	0.1477932			15	
Methyl isobutyl ketone	0.1389299	14.60526	8.51	1.340775E-02			15	
Methyl methacrylate	8.339718E-02	8.88122	7.88	9.924249E-03			15	
Pentachloroethane	0.5366092	9.742643	10.8	1.727045E-02			15	
Propionitrile	2.300947E-02	12.66567	5.898333	0.1266948			15	
Tetrahydrofuran	5.139228E-02	10.95959	6.196667	8.478846E-02			15	

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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Calibration: 1702011
Instrument: MS-V5
Matrix: Water
Calibration Date: 01/26/17 17:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Vinyl acetate	0.6344058	12.91925	5.063333	0.1028759			15	
p- & m-Xylenes	2.011739	13.84385	9.78	1.957201E-02			15	
o-Xylene	1.940902	9.244618	10.02	0.0198293			15	
Total Purgeable Petroleum Hydrocarbons	2.977995	3.239537	9.668333	4.855941			15	
1,2-Dichloroethane-d4 (Surrogate)	0.2958699	6.360265	6.921667	6.116163E-02			15	
Toluene-d8 (Surrogate)	1.138139	1.710998	8.61	0.0142186			15	
4-Bromofluorobenzene (Surrogate)	1.379025	3.111593	10.355	4.975555E-02			15	
Benzene	1.889545	9.180943	6.94	5.634228E-03			15	
Bromobenzene	1.179324	8.781515	10.45	1.926087E-02			15	
Bromochloromethane	0.1547174	9.471048	6.183333	0.1673501			15	
Bromodichloromethane	0.3292103	8.362367	8.06	1.375235E-02			15	
Bromoform	0.3506939	13.37441	10.16	1.968264E-02			SPCC (0.10)	
Bromomethane	0.3180084	4.949792	2.436667	0.2126912			15	
n-Butylbenzene	3.493597	13.28005	11.23667	9.156336E-02			15	
sec-Butylbenzene	5.379312	14.19416	10.914	8.097688E-02			15	
tert-Butylbenzene	3.852201	11.35355	10.78333	5.100083E-02			15	
Carbon tetrachloride	0.4688551	5.191681	6.72	1.146183E-02			15	
Chlorobenzene	2.978027	9.870514	9.643333	4.988898E-02			SPCC (0.30)	
Chloroethane	0.3902835	4.138092	2.566667	0.2020673			15	
Chloroform	0.7548469	6.273066	6.331667	6.112167E-02			CCC (20)	
Chloromethane	0.6989857	14.97623	1.943333	0.2654085	0.99772		SPCC (0.10)	
2-Chlorotoluene	3.666018	13.06413	10.555	0.0536519			15	
4-Chlorotoluene	3.285453	13.86354	10.62667	4.983224E-02			15	
Dibromochloromethane	0.1708407	11.80164	9.241666	4.175574E-02			15	
1,2-Dibromo-3-chloropropane	0.0666406	25.17557	11.73833	8.312334E-02	0.99981		0.99	
1,2-Dibromoethane	0.1390115	7.054979	9.328333	4.188551E-02			15	

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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Calibration: 1702011
Instrument: MS-V5
Matrix: Water
Calibration Date: 01/26/17 17:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Dibromomethane	0.1132441	8.835653	7.91	1.653285E-02			15	
1,2-Dichlorobenzene	1.693334	14.65138	11.27833	8.752717E-02			15	
1,3-Dichlorobenzene	2.068389	12.94808	11.008	0.1004115			15	
1,4-Dichlorobenzene	1.916207	13.63312	11.065	7.433322E-02			15	
Dichlorodifluoromethane	0.4765408	8.332592	1.76	8.063699E-03			15	
1,1-Dichloroethane	1.030991	7.692112	5.058333	8.126204E-02			SPCC (0.10)	
1,2-Dichloroethane	0.438219	8.268656	7.005	7.754629E-02			15	
1,1-Dichloroethene	0.7766588	8.198684	3.515	0.1557692			CCC (20)	
cis-1,2-Dichloroethene	0.46668	4.610702	5.831667	0.1294296			15	
trans-1,2-Dichloroethene	0.4502706	8.659956	4.501667	0.0902417			15	
Total 1,2-Dichloroethene	0.4584753	6.08411	5.831667	0.1294296			15	
1,2-Dichloropropane	0.3723232	8.709297	7.84	9.702376E-03			CCC (20)	
1,3-Dichloropropane	0.2667047	7.533232	9.09	0.0186287			15	
2,2-Dichloropropane	0.6461859	7.526579	5.84	0.1091096			15	
1,1-Dichloropropene	0.61317	8.797094	6.726667	7.685787E-02			15	
cis-1,3-Dichloropropene	0.436368	9.271827	8.408333	4.530242E-02			15	
trans-1,3-Dichloropropene	0.3001727	7.112617	8.83	2.384445E-02			15	
Total 1,3-Dichloropropene	0.3682704	7.991017	8.83	2.384445E-02			15	
Ethylbenzene	1.699115	14.95483	9.698333	4.299496E-02			CCC (20)	
Hexachlorobutadiene	0.8012975	13.30544	12.28833	0.1407559			15	
Isopropylbenzene	5.188549	11.33656	10.24	0.015589			15	
p-Isopropyltoluene	4.064913	12.68025	10.998	7.728538E-02			15	
Methylene chloride	0.601454	65.25738	4.151667	9.579772E-02	0.99908		0.99	
Methyl t-butyl ether	0.6285989	7.393993	4.491666	8.862136E-02			15	
Naphthalene	1.162765	12.34674	12.385	0.1128744			15	
n-Propylbenzene	5.959786	13.29814	10.488	3.977509E-02			15	

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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Calibration: 1702011
Instrument: MS-V5
Matrix: Water
Calibration Date: 01/26/17 17:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Styrene	2.90027	10.45117	10.03167	3.567744E-02			15	
1,1,1,2-Tetrachloroethane	0.9261768	10.84263	9.698333	4.299496E-02			15	
1,1,2,2-Tetrachloroethane	0.555952	8.993065	10.42	9.595757E-03			SPCC (0.30)	
Tetrachloroethene	0.3412463	14.19945	9.038333	3.957867E-02			15	
Toluene	0.7797766	12.17928	8.661667	0.04731			CCC (20)	
1,2,3-Trichlorobenzene	1.02527	3.862187	12.51667	0.1652262			15	
1,2,4-Trichlorobenzene	1.194842	5.768365	12.22	0.1261601			15	
1,1,1-Trichloroethane	0.6397625	7.075288	6.528334	6.356984E-02			15	
1,1,2-Trichloroethane	0.1533095	10.94703	8.978333	0.0413948			15	
Trichloroethene	0.3255704	7.473897	7.605	0.0716509			15	
Trichlorofluoromethane	0.5867905	8.741507	2.868333	0.1427778			15	
1,2,3-Trichloropropane	0.105337	20.84859	10.46167	3.519845E-02	0.99859		0.99	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.4183029	11.63839	3.535	0.154669			15	
1,2,4-Trimethylbenzene	3.597754	13.66403	10.81667	4.928939E-02			15	
1,3,5-Trimethylbenzene	3.970515	12.33762	10.588	4.151475E-02			15	
Vinyl chloride	0.5958562	12.3798	2.07	5.801038E-03			CCC (20)	
Total Xylenes	1.988127	12.26843	10.02	0.0198293			15	
Total Trihalomethanes	8361.618	5.192236	10.16	1.968264E-02			15	
Acetone	0.044841	13.89285	3.566	0.1535831			15	
Acetonitrile	1.965066E-02	21.35825	3.915	0.1394718	0.99895		0.99	
Acrolein	0.0199267	8.98742	3.396667	0.2401525			15	
Acrylonitrile	6.371868E-02	4.581122	4.443333	0.1152199			15	
Allyl chloride	1.114402	12.68532	3.991667	0.1026915			15	
t-Amyl Alcohol	8.917911E-03	14.14637	6.971666	6.115328E-02			15	
t-Amyl Methyl ether	0.7281162	6.262118	7.09	1.844497E-02			15	
Benzyl chloride	0.8656921	8.036501	11.1	1.307304E-02			15	

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EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Calibration: 1702011
Instrument: MS-V5
Matrix: Water
Calibration Date: 01/26/17 17:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
t-Butyl alcohol	1.280474E-02	14.61721	4.276	0.2100331			15	
Carbon disulfide	1.344744	10.69499	3.8	0.1664058			15	
2-Chloroethyl vinyl ether	0.1042548	9.542111	8.283333	6.161591E-02			15	
Chloroprene	1.000946	8.693085	5.151667	7.949544E-02			15	
Chlorotrifluoroethene							15	
Cyclohexane	1.086285	6.560645	6.622	6.679619E-02			15	
Cyclohexanone	4.458125E-02	11.37529	10.3	2.077223E-03			15	
trans-1,4-Dichloro-2-butene	0.1551532	8.274238	10.43167	3.686923E-02			15	
1,2-Dichlorotrifluoroethane	0.5668375	5.793663	3.3	1.804918E-02			15	
2,2-Dichloro-1,1,1-trifluoroethane	0.8869153	8.772737	3.391667	0.1202184			15	
Diethyl ether	0.2602638	4.202131	3.22	2.166916E-02			15	
Diisopropyl ether	0.3174881	5.440254	5.103333	9.952656E-02			15	
1,4-Dioxane	7.122724E-04	17.68626	7.9	0.1123963	0.99707		0.99	
Ethanol	1.543484E-03	14.9342	3.09	0.7928208			15	
Ethyl Amyl Ketone	0.3615402	11.74224	10.76	1.356797E-02			15	
Ethyl methacrylate	0.1775957	10.48137	8.86	1.624233E-02			15	
Ethyl t-butyl ether	1.311089	8.660484	5.591667	7.395801E-02			15	
Hexachloroethane	0.7041294	7.867683	11.45	0.0960662			15	
Hexane	0.5955754	3.893747	4.861667	8.576904E-02			15	
2-Hexanone	0.0923643	19.88289	9.103333	0.0561633		0.9995528	0.99	
Isobutanol	6.527947E-03	13.53742	6.845	0.1220592			15	
Isopropyl alcohol	8.714983E-03	21.27518	3.753333	0.575574	0.99615		0.99	
Methacrylonitrile	6.173201E-02	5.168261	6.13	1.714861E-02			15	
Methyl acetate	0.1454533	7.384817	3.973333	0.2059519			15	
Methylcyclohexane	0.617876	10.4386	7.815	6.776742E-02			15	
Methyl ethyl ketone	0.0879739	12.65874	5.813333	8.944584E-02			15	

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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Calibration: 1702011
Instrument: MS-V5
Matrix: Water
Calibration Date: 01/26/17 17:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
5-Methyl-3-heptanone	0.4857878	10.50343	10.44	2.779896E-03			15	
Methyl iodide	0.5848188	5.714397	3.705	0.1477932			15	
Methyl isobutyl ketone	0.1389299	14.60526	8.51	1.340775E-02			15	
Methyl methacrylate	8.339718E-02	8.88122	7.88	9.924249E-03			15	
Pentachloroethane	0.5366092	9.742643	10.8	1.727045E-02			15	
Propionitrile	2.300947E-02	12.66567	5.898333	0.1266948			15	
Tetrahydrofuran	5.139228E-02	10.95959	6.196667	8.478846E-02			15	
Vinyl acetate	0.6344058	12.91925	5.063333	0.1028759			15	
p- & m-Xylenes	2.011739	13.84385	9.78	1.957201E-02			15	
o-Xylene	1.940902	9.244618	10.02	0.0198293			15	
Total Purgeable Petroleum Hydrocarbons	2.977995	3.239537	9.668333	4.855941			15	
1,2-Dichloroethane-d4 (Surrogate)	0.2958699	6.360265	6.921667	6.116163E-02			15	
Toluene-d8 (Surrogate)	1.138139	1.710998	8.61	0.0142186			15	
4-Bromofluorobenzene (Surrogate)	1.379025	3.111593	10.355	4.975555E-02			15	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

HOLDING TIME SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
27EW-05_170203	02/03/17 08:40	02/03/17 20:08	02/09/17 13:37	7.00	14.00	02/10/17 11:06	7.00	14.00	
27EW-12_170203	02/03/17 09:55	02/03/17 20:08	02/09/17 13:37	7.00	14.00	02/10/17 11:29	7.00	14.00	
27EW-19_170203	02/03/17 08:00	02/03/17 20:08	02/09/17 13:37	7.00	14.00	02/10/17 11:53	7.00	14.00	
27MW02_170203	02/03/17 09:18	02/03/17 20:08	02/09/17 13:37	7.00	14.00	02/10/17 12:16	7.00	14.00	
DUP18_170203	02/03/17 09:55	02/03/17 20:08	02/09/17 13:37	7.00	14.00	02/10/17 12:39	7.00	14.00	
DUP18_170203	02/03/17 09:55	02/03/17 20:08	02/09/17 13:37	9.00	14.00	02/12/17 16:16	9.00	14.00	
M10B-01_170203	02/03/17 08:30	02/03/17 20:08	02/09/17 13:37	7.00	14.00	02/10/17 16:25	7.00	14.00	
MW4-2-1_170203	02/03/17 09:35	02/03/17 20:08	02/09/17 13:37	7.00	14.00	02/10/17 16:48	7.00	14.00	
MW4-2-18_170203	02/03/17 08:30	02/03/17 20:08	02/09/17 13:37	7.00	14.00	02/10/17 21:51	7.00	14.00	
MW530-1_170203	02/03/17 09:20	02/03/17 20:08	02/09/17 13:37	7.00	14.00	02/10/17 22:15	7.00	14.00	
S4-TT-MW02A_170203	02/03/17 09:48	02/03/17 20:08	02/09/17 13:37	7.00	14.00	02/10/17 22:38	7.00	14.00	
S4-TT-MW02A_170203	02/03/17 09:48	02/03/17 20:08	02/09/17 13:37	10.00	14.00	02/13/17 00:22	10.00	14.00	
SMLS-01_170203	02/03/17 08:55	02/03/17 20:08	02/09/17 13:37	7.00	14.00	02/10/17 23:01	7.00	14.00	
SMLS-01_170203	02/03/17 08:55	02/03/17 20:08	02/09/17 13:37	10.00	14.00	02/13/17 00:45	10.00	14.00	
SMLS-07_170203	02/03/17 08:09	02/03/17 20:08	02/09/17 13:37	7.00	14.00	02/10/17 23:24	7.00	14.00	
26MW08_170203	02/03/17 11:25	02/03/17 20:08	02/09/17 13:37	7.00	14.00	02/10/17 23:48	7.00	14.00	
27EW-15_170203	02/03/17 10:40	02/03/17 20:08	02/09/17 13:37	8.00	14.00	02/11/17 00:11	8.00	14.00	
27EW-20_170203	02/03/17 11:23	02/03/17 20:08	02/10/17 07:00	8.00	14.00	02/11/17 00:34	8.00	14.00	
DUP12_170203	02/03/17 11:28	02/03/17 20:08	02/10/17 07:00	8.00	14.00	02/11/17 00:57	8.00	14.00	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

M04-05_170203	02/03/17 10:05	02/03/17 20:08	02/10/17 07:00	8.00	14.00	02/11/17 01:21	8.00	14.00	
M13-07_170203	02/03/17 11:25	02/03/17 20:08	02/10/17 07:00	8.00	14.00	02/11/17 01:44	8.00	14.00	
MW530-2_170203	02/03/17 10:45	02/03/17 20:08	02/10/17 07:00	8.00	14.00	02/11/17 02:07	8.00	14.00	
S4-TT-MW02B_170203	02/03/17 10:41	02/03/17 20:08	02/10/17 07:00	8.00	14.00	02/11/17 02:30	8.00	14.00	
S4-TT-MW02C_170203	02/03/17 10:12	02/03/17 20:08	02/10/17 07:00	8.00	14.00	02/11/17 02:53	8.00	14.00	
S4-TT-MW02C_170203	02/03/17 10:12	02/03/17 20:08	02/10/17 07:00	10.00	14.00	02/13/17 01:08	10.00	14.00	
S4-TT-MW02D_170203	02/03/17 11:14	02/03/17 20:08	02/10/17 07:00	9.00	14.00	02/12/17 07:24	9.00	14.00	
TB11_170203	02/03/17 12:00	02/03/17 20:08	02/10/17 07:00	7.00	14.00	02/10/17 19:31	7.00	14.00	
TB12_170203	02/03/17 12:15	02/03/17 20:08	02/10/17 07:00	7.00	14.00	02/10/17 19:55	7.00	14.00	
26MW03_170203	02/03/17 12:30	02/03/17 20:08	02/10/17 07:00	9.00	14.00	02/12/17 07:47	9.00	14.00	
26PZ01_170203	02/03/17 13:36	02/03/17 20:08	02/10/17 07:00	7.00	14.00	02/10/17 14:06	7.00	14.00	
26PZ03_170203	02/03/17 13:01	02/03/17 20:08	02/10/17 07:00	8.00	14.00	02/11/17 04:03	8.00	14.00	
27MW06_170203	02/03/17 13:24	02/03/17 20:08	02/10/17 07:00	8.00	14.00	02/11/17 04:26	8.00	14.00	
DUP07_170203	02/03/17 13:05	02/03/17 20:08	02/10/17 07:00	8.00	14.00	02/11/17 04:49	8.00	14.00	
EB20_170203	02/03/17 14:00	02/03/17 20:08	02/10/17 07:00	7.00	14.00	02/10/17 20:18	7.00	14.00	
EB21_170203	02/03/17 14:10	02/03/17 20:08	02/10/17 07:00	7.00	14.00	02/10/17 20:41	7.00	14.00	
EB22_170203	02/03/17 14:20	02/03/17 20:08	02/10/17 07:00	7.00	14.00	02/10/17 21:05	7.00	14.00	
EB23_170203	02/03/17 14:30	02/03/17 20:08	02/10/17 07:00	7.00	14.00	02/10/17 21:28	7.00	14.00	
M13-09_170203	02/03/17 13:00	02/03/17 20:08	02/10/17 07:00	8.00	14.00	02/11/17 05:12	8.00	14.00	
MWOR-4_170203	02/03/17 13:50	02/03/17 20:08	02/12/17 06:00	9.00	14.00	02/12/17 15:53	9.00	14.00	

* Holding time not met

Note: If Prep or Analysis are performed within the hour (if holding time is based on hours) or within the day (if holding time is based on days), then the sample is not flagged as outside holding times. Calculated number of days are based on date received or date prepared depending on the test.

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:25:11PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

Notes and Definitions

B	Blank contamination. The analyte is greater than 1/2 the PQL/LOQ/CRQL in the associated method blank.
D	The reported value is from a dilution.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration.
J	The reported value is an estimated value. Results are between the MDL and PQL/LOQ/CRQL.
U	The analyte was not detected and is reported as less than the LOD/MDL or as defined by the client.

BC LABORATORIES, INC.

Work Order Number: 1703197

Laboratory Documentation Requirements
For Data Validation of
Wet Chemistry Analysis

Prepared By

BC Laboratories

For AMEC Environmental & Infrastructure

5023146096

All pages have been paginated and results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Certifications: CA ELAP #1186; NV #CA00014; AK UST101; OR ELAP #4032; DoD ELAP #66175

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Case Narrative

Analyses Requested: **Gen-Chem.**
Submission #: 17-03197

Method 160.1
Instrument ID: Manual
Sample Volume(s): 100ml/100ml

Method 300.0
Instrument ID: IC-1, IC-5
Sample Volume(s): 20ml/20ml

Method 310.1
Instrument ID: MET-1
Sample Volume(s): 50ml/50ml

Method 353.2
Instrument ID: Kone-1
Volume(s): 20ml/20ml

Method 415.1
Instrument ID: TOC2
Sample Volume(s): 100ml/100ml

Method SM4500SD
Instrument ID: SPEC06
Volume(s):25ml/25ml

Samples were received refrigerated to <6°C upon arrival at BC Laboratories, Inc. Samples were checked for preservation. Where applicable, sample preservation was adjusted in the laboratory.

Holding Time: All analyses and preparations took place within holding times.

Calibration: Initial calibration criteria were met. Frequency and accuracy criteria for initial and continuing calibration verifications were met.

Blanks: Method blank was prepared and analyzed at the required frequency. No detection of analytes of interest took place at or above the PQL. Initial and continuing calibration blanks were analyzed at the required frequencies and on an as needed basis.

Laboratory Control Sample: Laboratory control sample analysis was performed at the required frequency. All parameters were within QC limits.

Matrix Spikes and Duplicates: Matrix spike analyses were performed at the required frequencies. All accuracy and precision requirements were met. EPA Method SM4500SD Batch ID B[B0496-MS1 the matrix spike recoveries for Total Sulfide were outside QC limits.

MWEC Group
9177 Sky Park Court
San Diego, CA
(858) 278-3600

SHIP TO:
BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Attn:
Lab Phone#

CHAIN OF CUSTODY

17-03197

DATE: 2/3/2017
COC #: COC170203
PAGE: 1 OF 3

Project Name:	Alameda Basewide	Project Contact:	Marina Mitchell	Bill To:	Amec Foster Wheeler	Disposal Instructions:	LAB
Project Number:	5023146098	Phone Number:	(503) 639-3400		9210 Sky Park Court, Suite 200	Shipment Method:	FEDEX
Project Manager:	Kevin Olness	Project Phase:	03.****		San Diego, CA 92123	Waybill Number:	N/A

Sample Information / Methods for Analysis

No.	Sample ID	Date & Time Sampled	Matrix	Sample Type	MS/MSD	VOCs (EPA 8260B)	VOCs - Short list Only (8260B)	Diss. Gases- (RSK175)	Anions- (EPA 300.0)	Alkalinity (EPA 310.2)	Sulfide (EPA 376.2)	TDS (EPA 160.1)	TOC (EPA 415.1)	24 Hour	48 Hour	72 Hour	5 Days	TOTAL BOTTLES	HOLD All Analyses
1	27EW-05_170203	02/03/17 08:40	WG	N	N	X													
2	27EW-12_170203	02/03/17 09:55	WG	N	N	X		X	X	X	X		X						
3	27EW-19_170203	02/03/17 08:00	WG	N	N	X													
4	27MW02_170203	02/03/17 09:18	WG	N	N	X													
5	DUP18_170203	02/03/17 09:55	WG	FD	N	X													
6	M10B-01_170203	02/03/17 08:30	WG	N	N		X												
7	MW4-2-1_170203	02/03/17 09:35	WG	N	N	X													
8	MW4-2-18_170203	02/03/17 08:30	WG	N	N	X													
9	MW530-1_170203	02/03/17 09:20	WG	N	N		X												
10	S4-TT-MW02A_170203	02/03/17 09:48	WG	N	N	X													
11	SMLS-01_170203	02/03/17 08:55	WG	N	N	X		X	X	X	X	X							
12	SMLS-07_170203	02/03/17 08:09	WG	N	N	X		X	X	X	X	X							

SHORT HOLDING TIME
Cr^{+6} NO_2 NO_3 OP SS
DO Cl_2 BOD MBAS COT

CHK BY DISTRIBUTION
SUB-OUT

Sampler's Signature:		Date: 2/3/17	Time: 16:40
Relinquished By/Affiliation:		Date: 2/3/17	Time: 16:60
Received By:		Date: 2/3/17	Time: 16:60
Relinquished By/Affiliation:		Date: 2-3-17	Time: 1730
Received By:		Date: 2/3/17	Time: 17:30
Relinquished By/Affiliation:		Date: 2/3/17	Time: 2008
Received By (LAB):		Date: 2/3	Time: 2008

For Lab Use

Does COC match samples:	Y or N
Broken Container:	Y or N
COC seal intact:	Y or N
Other problems:	Y or N
WSDOT contacted:	Y or N
Date contacted:	
Cooler Temperature at receipt:	°C

Comments:
X=Analyze H=Hold Analysis Request

Report DL/LOD/LOQ with Navy NIRIS valid values

VOC short list is Benzene & Ethylbenzene only
Major Cations are Na, K, Ca, Mg

NUMBER OF COOLERS SENT:

MMEC Group
9177 Sky Park Court
San Diego, CA
(858) 278-3600

SHIP TO:
BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Attn:
Lab Phone#

CHAIN OF CUSTODY

17-03197

DATE: 2/3/2017
COC #: COC170203
PAGE: 2 OF 3

Project Name:	Alameda Basewide	Project Contact:	Marina Mitchell	Bill To:	Amec Foster Wheeler	Disposal Instructions:	LAB
Project Number:	5023146095	Phone Number:	(503) 639-3400		9210 Sky Park Court, Suite 200	Shipment Method:	FEDEX
Project Manager:	Kevin Olness	Project Phase:	03.****		San Diego, CA 92123	Waybill Number:	N/A

Sample Information / Methods for Analysis / RUSH

No.	Sample ID	Date & Time Sampled	Matrix	Sample Type	MS/MSD	VOCs (EPA 8260B)	VOCs - Short list Only (8260B)	Diss. Gases- (RSK175)	Anions- (EPA 300.0)	Alkalinity (EPA 310.2)	Sulfide (EPA 376.2)	TDS (EPA 160.1)	TOC (EPA 415.1)	24 Hour	48 Hour	72 Hour	5 Days	TOTAL BOTTLES	HOLD All Analysis
1	26MW08_170203 -13	02/03/17 11:25	WG	N	N	X			X	X	X	X							
2	27EW-15_170203 -14	02/03/17 10:40	WG	N	N	X													
3	27EW-20_170203 -15	02/03/17 11:23	WG	N	N	X													
4	DUP12_170203 -16	02/03/17 11:28	WG	FD	N	X													
5	M04-05_170203 -17	02/03/17 10:05	WG	N	N	X													
6	M13-07_170203 -18	02/03/17 11:25	WG	N	N		X												
7	MW530-2_170203 -19	02/03/17 10:45	WG	N	N		X												
8	S4-TT-MW02B_170203 -20	02/03/17 10:41	WG	N	N	X													
9	S4-TT-MW02C_170203 -21	02/03/17 10:12	WG	N	N	X													
10	S4-TT-MW02D_170203 -22	02/03/17 11:14	WG	N	N	X													
11	TB11_170203 -23	02/03/17 12:00	WQ	TB	N	X													
12	TB12_170203 -24	02/03/17 12:15	WQ	TB	N	X													

Sampler's Signature:		Date: 2/3/17	Time: 16:60
Relinquished By/Affiliation:		Date: 2/3/17	Time: 16:60
Received By:		Date: 2/3/17	Time: 16:60
Relinquished By/Affiliation:		Date: 2-3-17	Time: 1730
Received By:		Date: 2/3/17	Time: 1730
Relinquished By/Affiliation:		Date: 2/3/17	Time: 2008
Received By (LAB):		Date: 2/3	Time: 2008

For Lab Use

Does COC match samples:	Y or N
Broken Container:	Y or N
COC seal intact:	Y or N
Other problems:	Y or N
WSDOT contacted:	Y or N
Date contacted:	
Cooler Temperature at receipt:	____ °C

Comments:
X=Analyze H=Hold Analysis Request

Report DL/LOD/LOQ with Navy NIRIS valid values

VOC short list is Benzene & Ethylbenzene only
Major Cations are Na, K, Ca, Mg

NUMBER OF COOLERS SENT:

CHAIN OF CUSTODY

1703197

MMEC Group
9177 Sky Park Court
San Diego, CA
(858) 278-3600

SHIP TO:
BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Attn:
Lab Phone#

DATE: 2/3/2017
COC #: COC170203
PAGE: 3 OF 3

Project Name:	Alameda Basewide	Project Contact:	Marina Mitchell	Bill To:	Amec Foster Wheeler	Disposal Instructions:	LAB
Project Number:	5023146096	Phone Number:	(503) 639-3400		9210 Sky Park Court, Suite 200	Shipment Method:	FEDEX
Project Manager:	Kevin Olness	Project Phase:	03-****		San Diego, CA 92123	Waybill Number:	N/A

Sample Information / Methods for Analysis

No.	Sample ID	Date & Time Sampled	Matrix	Sample Type	MS/MSD	VOCs (EPA 8260B)	VOCs - Short list Only (8260B)	Diss. Gases- (RSK175)	Anions- (EPA 300.0)	Alkalinity (EPA 310.2)	Sulfide (EPA 376.2)	TDS (EPA 160.1)	TOC (EPA 415.1)	24 Hour	48 Hour	72 Hour	5 Days	TOTAL BOTTLES	HOLD All Analyses
1	26MW03_170203 -25	02/03/17 12:30	WG	N	N	X			X	X	X	X							
2	26PZ01_170203 -26	02/03/17 13:36	WG	N	Y	X			X	X	X	X							
3	26PZ03_170203 -27	02/03/17 13:01	WG	N	N	X			X	X	X	X							
4	27MW06_170203 -28	02/03/17 13:24	WG	N	N	X		X	X	X	X		X						
5	DUP07_170203 -29	02/03/17 13:05	WG	FD	N		X												
6	EB20_170203 -30	02/03/17 14:00	WQ	EB	N	X													
7	EB21_170203 -31	02/03/17 14:10	WQ	EB	N	X													
8	EB22_170203 -32	02/03/17 14:20	WQ	EB	N		X												
9	EB23_170203 -33	02/03/17 14:30	WQ	EB	N	X													
10	M13-09_170203 -34	02/03/17 13:00	WG	N	N		X												
11	MWOR-4_170203 -35	02/03/17 13:50	WG	N	N		X												
12																			

Sampler's Signature:	Date: 2/3/17	Time: 16:40
Relinquished By/Affiliation:	Date: 2/3/17	Time: 16:40
Received By:	Date: 2/3/17	Time: 16:40
Relinquished By/Affiliation:	Date: 2-3-17	Time: 173
Received By:	Date: 2/3/17	Time: 1730
Relinquished By/Affiliation:	Date: 2/3/17	Time: 2008
Received By (LAB):	Date: 2/3	Time: 2008

For Lab Use

Does COC match samples:	Y or N
Broken Container:	Y or N
COC seal intact:	Y or N
Other problems:	Y or N
WSDOT contacted:	Y or N
Date contacted:	
Cooler Temperature at receipt:	°C

Comments:
X=Analyze H=Hold Analysis Request

Report DL/LOD/LOQ with Navy NIRIS valid values

VOC short list is Benzene & Ethylbenzene only
Major Cations are Na, K, Ca, Mg

NUMBER OF COOLERS SENT:

Chain of Custody and Cooler Receipt Form for 1703197 Page 4 of 8

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 5

Submission #: 17-03197

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐	Ice Chest ☒ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____	Other ☐ (Specify)_____	W / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: VOA Thermometer ID: 207 Date/Time 2/3 20:16

Temperature: (A) 2.7 °C / (C) 2.9 °C Analyst Init GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2 13	3 14	17	18	6	11	12	13	14
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- ~~504~~ RSK		DEF					DEF	DEF		
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: M Date/Time 2/3/17 2124

A = Actual / C = Corrected

Rev 21 05/23/2016

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Chain of Custody and Cooler Receipt Form for 1703197 Page 5 of 8

BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 5

Submission #: 17-03197

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐
(W) / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: VOA Thermometer ID: 207 Date/Time 2/3 20:16
Temperature: (A) 2.7 °C / (C) 2.9 °C Analyst Init GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	15	17	18	19	20	21	22	23	25	65
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK								AB		
40ml VOA VIAL	ABC	ABC	ABC	ABC	ABC	ABC	ABC		ABC	ABC
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:
Sample Numbering Completed By: AU Date/Time: 2.3.17 2128 Rev 21 05/23/2016

Chain of Custody and Cooler Receipt Form for 1703197 Page 6 of 8

BC LABORATORIES INC. COOLER RECEIPT FORM Page 3 Of 5

Submission #: 17-03197

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐	Ice Chest ☒ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____	Other ☐ (Specify)_____	(W) / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: VOA Thermometer ID: 207 Date/Time 2/3 20:16

Temperature: (A) 2.7 °C / (C) 2.9 °C Analyst Init GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS 16	19	28	31	33	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	ABC	ABC	ABC	ABC	ABC					
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL ~~504~~ RSK			VTGF							
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: M Date/Time: 2-3-17 Rev 21 05/23/2016

A = Actual / C = Corrected

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Chain of Custody and Cooler Receipt Form for 1703197 Page 7 of 8

BC LABORATORIES INC. COOLER RECEIPT FORM Page 4 Of 5

Submission #: 17-03197

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐	Ice Chest ☒ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____	Other ☐ (Specify)_____	(W) / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: PE Thermometer ID: 207 Date/Time 2/3 20:16

Temperature: (A) 0.1 °C / (C) 0.4 °C Analyst Init GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	124	126	127	129	130	132	134	135	9	10
QT PE UNPRES		JKC								
4oz / 8oz / 16oz PE UNPRES			DR		/					
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE		MNO	F							
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	AB	r								
40ml VOA VIAL		ABC	ABC	ABC	ABC	ABC	ABC	ABC		
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: AA Date/Time: 2-3-17 2143

A = Actual / C = Corrected

Rev 21 05/23/2016
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Chain of Custody and Cooler Receipt Form for 1703197 Page 8 of 8

BC LABORATORIES INC. COOLER RECEIPT FORM Page 5 of 5

Submission #: 17-03197

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐
W / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: VOA Thermometer ID: 207 Date/Time 2/3 20:16
Temperature: (A) 1.5 °C / (C) 1.7 °C Analyst Init GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	12	11	12	13	25	28	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES	G	GH	GH	GH	DE	G				
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE	H	I	I	J	F	H				
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON	I					I				
PT CHEMICAL OXYGEN DEMAND										
PA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:
Sample Numbering Completed By: Date/Time: 2-3-17 1155
A = Actual / C = Corrected

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AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Phone: 661-327-4911

SDG: **17-03197**
Class: **WET**
Method: **EPA-160.1**

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSES DATA PACKAGE COVER PAGE

EPA-160.1

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
SMLS-01_170203	1703197-11
SMLS-07_170203	1703197-12
26MW08_170203	1703197-13
26MW03_170203	1703197-25
26PZ01_170203	1703197-26
26PZ03_170203	1703197-27

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Sara Guron
Name: Sara Guron

Date: 03-07-2017
Title: QA/QC Manager

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD DETECTION AND REPORTING LIMITS

EPA-160.1

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Instrument: MANUAL

Analyte	DL	LOD	LOQ	Units
Total Dissolved Solids @ 180 C	10	10	10	mg/L

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-160.1

SMLS-01_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-11
File ID:
Sampled: 02/03/17 08:55
Prepared: 02/08/17 14:00
Analyzed: 02/08/17 14:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 100 ml / 100 ml
Batch: B[B0684
Sequence: 1702516
Calibration: UNASSIGNED
Instrument: MANUAL

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Dissolved Solids @ 180 C	1900	100	100	100	10	D	EPA-160.1

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-160.1

SMLS-07_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-12
File ID:
Sampled: 02/03/17 08:09
Prepared: 02/08/17 14:00
Analyzed: 02/08/17 14:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 100 ml / 100 ml
Batch: B[B0684
Sequence: 1702516
Calibration: UNASSIGNED
Instrument: MANUAL

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Dissolved Solids @ 180 C	980	50	50	50	5	D	EPA-160.1

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-160.1

26MW08_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-13
File ID:
Sampled: 02/03/17 11:25
Prepared: 02/08/17 14:00
Analyzed: 02/08/17 14:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 100 ml / 100 ml
Batch: B[B0684
Sequence: 1702516
Calibration: UNASSIGNED
Instrument: MANUAL

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Dissolved Solids @ 180 C	5000	500	500	500	50	D	EPA-160.1

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-160.1

26MW03_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-25
File ID:
Sampled: 02/03/17 12:30
Prepared: 02/08/17 14:00
Analyzed: 02/08/17 14:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 100 ml / 100 ml
Batch: B[B0684
Sequence: 1702516
Calibration: UNASSIGNED
Instrument: MANUAL

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Dissolved Solids @ 180 C	1600	100	100	100	10	D	EPA-160.1

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-160.1

26PZ01_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-26
File ID:
Sampled: 02/03/17 13:36
Prepared: 02/08/17 14:00
Analyzed: 02/08/17 14:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 100 ml / 100 ml
Batch: B[B0684
Sequence: 1702516
Calibration: UNASSIGNED
Instrument: MANUAL

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Dissolved Solids @ 180 C	3500	200	200	200	20	D	EPA-160.1

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-160.1

26PZ03_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-27
File ID:
Sampled: 02/03/17 13:01
Prepared: 02/08/17 14:00
Analyzed: 02/08/17 14:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 100 ml / 100 ml
Batch: B[B0684
Sequence: 1702516
Calibration: UNASSIGNED
Instrument: MANUAL

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Dissolved Solids @ 180 C	12000	500	500	500	50	D	EPA-160.1

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

PREPARATION BATCH SUMMARY

EPA-160.1

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Batch: B[B0684
Batch Matrix: Water
Preparation: No Prep

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
SMLS-01_170203	1703197-11		02/08/17 14:00	
SMLS-07_170203	1703197-12		02/08/17 14:00	
26MW08_170203	1703197-13		02/08/17 14:00	
26MW03_170203	1703197-25		02/08/17 14:00	
26PZ01_170203	1703197-26		02/08/17 14:00	
26PZ03_170203	1703197-27		02/08/17 14:00	
Blank	B[B0684-BLK1		02/08/17 14:00	
LCS	B[B0684-BS1		02/08/17 14:00	
26PZ01_170203	B[B0684-DUP1		02/08/17 14:00	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-160.1

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[B0684-BLK1	File ID:	
Prepared:	02/08/17 14:00	Preparation:	No Prep	Initial/Final:	100 ml / 100 ml
Analyzed:	02/08/17 14:00	Instrument:	MANUAL		
Batch:	B[B0684	Sequence:	1702516	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
---	Total Dissolved Solids @ 180 C	6.7	6.7	6.7	6.7	UD

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Project Manager: Kelli Miller

26PZ01_170203

DUPLICATES
EPA-160.1

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Matrix: Water
Batch: B[B0684
Preparation: No Prep
Source Sample Name: 26PZ01_170203

SDG: 17-03197
Project: Alameda
Laboratory ID: B[B0684-DUP1
Lab Source ID: 1703197-26
Initial/Final: 100 ml / 100 ml
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Total Dissolved Solids @ 180 C	10	3480.0		3400.0		2.33		EPA-160.1

* Values outside of QC limits

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Project Manager: Kelli Miller

LCS RECOVERY
EPA-160.1

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Matrix:	Water		
Batch:	B[B0684	Laboratory ID:	B[B0684-BS1
Preparation:	No Prep	Initial/Final:	20 ml / 20 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Total Dissolved Solids @ 180 C	586.00	605.00	103	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

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Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-160.1

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Sequence:	1702516	Instrument:	MANUAL
Matrix:	Water	Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Blank	B[B0684-BLK1		02/08/17 14:00
LCS	B[B0684-BS1		02/08/17 14:00
26PZ01_170203	1703197-26		02/08/17 14:00
26PZ01_170203	B[B0684-DUP1		02/08/17 14:00
SMLS-01_170203	1703197-11		02/08/17 14:00
SMLS-07_170203	1703197-12		02/08/17 14:00
26MW08_170203	1703197-13		02/08/17 14:00
26MW03_170203	1703197-25		02/08/17 14:00
26PZ03_170203	1703197-27		02/08/17 14:00

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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

HOLDING TIME SUMMARY
EPA-160.1

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
SMLS-01_170203	02/03/17 08:55	02/03/17 20:08	02/08/17 14:00	5.00	7.00	02/08/17 14:00	5.00	7.00	
SMLS-07_170203	02/03/17 08:09	02/03/17 20:08	02/08/17 14:00	5.00	7.00	02/08/17 14:00	5.00	7.00	
26MW08_170203	02/03/17 11:25	02/03/17 20:08	02/08/17 14:00	5.00	7.00	02/08/17 14:00	5.00	7.00	
26MW03_170203	02/03/17 12:30	02/03/17 20:08	02/08/17 14:00	5.00	7.00	02/08/17 14:00	5.00	7.00	
26PZ01_170203	02/03/17 13:36	02/03/17 20:08	02/08/17 14:00	5.00	7.00	02/08/17 14:00	5.00	7.00	
26PZ03_170203	02/03/17 13:01	02/03/17 20:08	02/08/17 14:00	5.00	7.00	02/08/17 14:00	5.00	7.00	

* Holding time not met

Note: If Prep or Analysis are performed within the hour (if holding time is based on hours) or within the day (if holding time is based on days), then the sample is not flagged as outside holding times. Calculated number of days are based on date received or date prepared depending on the test.

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Project: Alameda
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Project Manager: Kelli Miller

BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Phone: 661-327-4911

SDG: **17-03197**
Class: **WET**
Method: **EPA-300.0**

AMEC Environmental & Infrastructure
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San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSES DATA PACKAGE COVER PAGE

EPA-300.0

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
27EW-12_170203	1703197-02
SMLS-01_170203	1703197-11
SMLS-07_170203	1703197-12
26MW08_170203	1703197-13
26MW08_170203	1703197-13RE1
26MW03_170203	1703197-25
26PZ01_170203	1703197-26
26PZ03_170203	1703197-27
26PZ03_170203	1703197-27RE2
27MW06_170203	1703197-28

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Sara Guron
Name: Sara Guron

Date: 03-07-2017
Title: QA/QC Manager

AMEC Environmental & Infrastructure
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San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD DETECTION AND REPORTING LIMITS

EPA-300.0

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Instrument: IC1

Analyte	DL	LOD	LOQ	Units
Chloride	0.092	0.1	0.5	mg/L
Nitrate as NO3	0.096	0.23	0.44	mg/L
Nitrate as N	0.022	0.05	0.1	mg/L
Sulfate	0.14	0.2	1	mg/L

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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD DETECTION AND REPORTING LIMITS

EPA-300.0

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Instrument: IC5

Analyte	DL	LOD	LOQ	Units
Chloride	0.092	0.1	0.5	mg/L
Nitrate as NO3	0.096	0.23	0.44	mg/L
Nitrate as N	0.022	0.05	0.1	mg/L
Sulfate	0.14	0.2	1	mg/L

AMEC Environmental & Infrastructure
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Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

27EW-12_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-02
File ID: A020417.seq-05
Sampled: 02/03/17 09:55
Prepared: 02/03/17 23:00
Analyzed: 02/04/17 13:21
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[B0467
Sequence: 1702018
Calibration: UNASSIGNED
Instrument: IC1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	83	0.092	0.10	0.50	1		EPA-300.0
14797-55-8	Nitrate as N	0.059	0.022	0.050	0.10	1	J	EPA-300.0
14808-79-8	Sulfate	22	0.14	0.20	1.0	1		EPA-300.0

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Project: Alameda
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INORGANIC ANALYSIS DATA SHEET
EPA-300.0

SMLS-01_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-11
File ID: A020417.seq-06
Sampled: 02/03/17 08:55
Prepared: 02/03/17 23:00
Analyzed: 02/04/17 13:38
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[B0467
Sequence: 1702018
Calibration: UNASSIGNED
Instrument: IC1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	430	0.46	0.50	2.5	5	D	EPA-300.0
14797-55-8	Nitrate as N	0.25	0.11	0.25	0.50	5	UD	EPA-300.0
14808-79-8	Sulfate	140	0.70	1.0	5.0	5	D	EPA-300.0

AMEC Environmental & Infrastructure
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Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

SMLS-07_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-12
File ID: A020417.seq-07
Sampled: 02/03/17 08:09
Prepared: 02/03/17 23:00
Analyzed: 02/04/17 13:55
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[B0467
Sequence: 1702018
Calibration: UNASSIGNED
Instrument: IC1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	170	0.18	0.20	1.0	2	D	EPA-300.0
14797-55-8	Nitrate as N	0.10	0.044	0.10	0.20	2	UD	EPA-300.0
14808-79-8	Sulfate	48	0.28	0.40	2.0	2	D	EPA-300.0

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Project: Alameda
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Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

26MW08_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-13
File ID: A020417.seq-08
Sampled: 02/03/17 11:25
Prepared: 02/03/17 23:00
Analyzed: 02/04/17 14:12
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[B0467
Sequence: 1702018
Calibration: UNASSIGNED
Instrument: IC1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-55-8	Nitrate as N	0.50	0.22	0.50	1.0	10	UD	EPA-300.0
14808-79-8	Sulfate	49	1.4	2.0	10	10	D	EPA-300.0

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Project: Alameda
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INORGANIC ANALYSIS DATA SHEET
EPA-300.0

26MW08_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-13RE1
File ID: A020417.seq-22
Sampled: 02/03/17 11:25
Prepared: 02/03/17 23:00
Analyzed: 02/04/17 19:05
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[B0467
Sequence: 1702018
Calibration: UNASSIGNED
Instrument: IC1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	2600	1.8	2.0	10	20	D	EPA-300.0

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INORGANIC ANALYSIS DATA SHEET
EPA-300.0

26MW03_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-25
File ID: A020417.seq-09
Sampled: 02/03/17 12:30
Prepared: 02/03/17 23:00
Analyzed: 02/04/17 14:30
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[B0467
Sequence: 1702018
Calibration: UNASSIGNED
Instrument: IC1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	690	0.46	0.50	2.5	5	D	EPA-300.0
14797-55-8	Nitrate as N	0.25	0.11	0.25	0.50	5	UD	EPA-300.0
14808-79-8	Sulfate	21	0.70	1.0	5.0	5	D	EPA-300.0

AMEC Environmental & Infrastructure
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INORGANIC ANALYSIS DATA SHEET
EPA-300.0

26PZ01_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-26
File ID: A020417.seq-10
Sampled: 02/03/17 13:36
Prepared: 02/03/17 23:00
Analyzed: 02/04/17 14:47
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[B0467
Sequence: 1702018
Calibration: UNASSIGNED
Instrument: IC1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	1600	0.92	1.0	5.0	10	D	EPA-300.0
14797-55-8	Nitrate as N	0.50	0.22	0.50	1.0	10	UD	EPA-300.0
14808-79-8	Sulfate	25	1.4	2.0	10	10	D	EPA-300.0

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INORGANIC ANALYSIS DATA SHEET
EPA-300.0

26PZ03_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-27
File ID: A020417.seq-16
Sampled: 02/03/17 13:01
Prepared: 02/03/17 23:00
Analyzed: 02/04/17 16:29
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[B0467
Sequence: 1702018
Calibration: UNASSIGNED
Instrument: IC1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-55-8	Nitrate as N	1.0	0.44	1.0	2.0	20	UD	EPA-300.0
14808-79-8	Sulfate	50	2.8	4.0	20	20	D	EPA-300.0

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Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

26PZ03_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-27RE2
File ID: E020717.seq-18
Sampled: 02/03/17 13:01
Prepared: 02/07/17 16:00
Analyzed: 02/07/17 18:22
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[B0595
Sequence: 1702240
Calibration: UNASSIGNED
Instrument: IC5

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	6700	4.6	5.0	25	50	D	EPA-300.0

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Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

27MW06_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-28
File ID: A020417.seq-17
Sampled: 02/03/17 13:24
Prepared: 02/03/17 23:00
Analyzed: 02/04/17 16:46
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[B0467
Sequence: 1702018
Calibration: UNASSIGNED
Instrument: IC1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	22	0.092	0.10	0.50	1		EPA-300.0
14797-55-8	Nitrate as N	0.30	0.022	0.050	0.10	1		EPA-300.0
14808-79-8	Sulfate	16	0.14	0.20	1.0	1		EPA-300.0

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

PREPARATION BATCH SUMMARY

EPA-300.0

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Batch: B[B0467
Batch Matrix: Water
Preparation: No Prep

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
27EW-12_170203	1703197-02	A020417.seq-05	02/03/17 23:00	
SMLS-01_170203	1703197-11	A020417.seq-06	02/03/17 23:00	
SMLS-07_170203	1703197-12	A020417.seq-07	02/03/17 23:00	
26MW08_170203	1703197-13	A020417.seq-08	02/03/17 23:00	
26MW08_170203	1703197-13RE1	A020417.seq-22	02/03/17 23:00	Added 2/6/2017 by EMW
26MW03_170203	1703197-25	A020417.seq-09	02/03/17 23:00	
26PZ01_170203	1703197-26	A020417.seq-10	02/03/17 23:00	
26PZ03_170203	1703197-27	A020417.seq-16	02/03/17 23:00	
27MW06_170203	1703197-28	A020417.seq-17	02/03/17 23:00	
Blank	B[B0467-BLK1	A020417.seq-03	02/03/17 23:00	
LCS	B[B0467-BS1	A020417.seq-04	02/03/17 23:00	
26PZ01_170203	B[B0467-DUP1	A020417.seq-11	02/03/17 23:00	
26PZ01_170203	B[B0467-MS1	A020417.seq-12	02/03/17 23:00	
26PZ01_170203	B[B0467-MSD1	A020417.seq-15	02/03/17 23:00	

AMEC Environmental & Infrastructure
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San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

PREPARATION BATCH SUMMARY

EPA-300.0

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Batch: B[B0595
Batch Matrix: Water
Preparation: No Prep

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
26PZ03_170203	1703197-27RE2	E020717.seq-18	02/07/17 16:00	Re-extract added 2/6/2017 by TMS
Blank	B[B0595-BLK1	E020717.seq-10	02/07/17 15:00	
LCS	B[B0595-BS1	E020717.seq-11	02/07/17 16:00	
Duplicate	B[B0595-DUP1	E020717.seq-13	02/07/17 16:00	
Matrix Spike	B[B0595-MS1	E020717.seq-41	02/07/17 16:00	
Matrix Spike Dup	B[B0595-MSD1	E020717.seq-17	02/07/17 16:00	

AMEC Environmental & Infrastructure
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Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-300.0

Laboratory:	BC Laboratories		SDG:	17-03197	
Client:	AMEC Environmental & Infrastructure $AMCN		Project:	Alameda	
Matrix:	Water	Laboratory ID:	B[B0467-BLK1	File ID:	A020417.seq-03
Prepared:	02/03/17 23:00	Preparation:	No Prep	Initial/Final:	20 ml / 20 ml
Analyzed:	02/04/17 12:47	Instrument:	IC1		
Batch:	B[B0467	Sequence:	1702018	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
16887-00-6	Chloride	0.10	0.092	0.10	0.50	U
14797-55-8	Nitrate as N	0.050	0.022	0.050	0.10	U
14808-79-8	Sulfate	0.20	0.14	0.20	1.0	U

AMEC Environmental & Infrastructure
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Reported: 3/7/2017 3:44:03PM
Project: Alameda
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METHOD BLANK DATA SHEET
EPA-300.0

Laboratory:	BC Laboratories		SDG:	17-03197	
Client:	AMEC Environmental & Infrastructure $AMCN		Project:	Alameda	
Matrix:	Water	Laboratory ID:	B[B0595-BLK1	File ID:	E020717.seq-10
Prepared:	02/07/17 15:00	Preparation:	No Prep	Initial/Final:	20 ml / 20 ml
Analyzed:	02/07/17 15:57	Instrument:	IC5		
Batch:	B[B0595	Sequence:	1702240	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
16887-00-6	Chloride	0.10	0.092	0.10	0.50	U
14797-55-8	Nitrate as N	0.050	0.022	0.050	0.10	U
14808-79-8	Sulfate	0.20	0.14	0.20	1.0	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

26PZ01_170203

DUPLICATES
EPA-300.0

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Matrix: Water
Batch: B[B0467
Preparation: No Prep
Source Sample Name: 26PZ01_170203

SDG: 17-03197
Project: Alameda
Laboratory ID: B[B0467-DUP1
Lab Source ID: 1703197-26
Initial/Final: 20 ml / 20 ml
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Chloride	10	1635.6		1637.5		0.112		EPA-300.0
Nitrate as NO3	10	ND		ND				EPA-300.0
Nitrate as N	10	ND		ND				EPA-300.0
Sulfate	10	24.960		26.770		7.00		EPA-300.0

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

Duplicate

DUPLICATES

EPA-300.0

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Matrix: Water
Batch: B[B0595
Preparation: No Prep
Source Sample Name: Duplicate

SDG: 17-03197
Project: Alameda
Laboratory ID: B[B0595-DUP1
Lab Source ID: 1703276-01
Initial/Final: 20 ml / 20 ml
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Chloride	10	115.71		115.86		0.135		EPA-300.0
Nitrate as NO3	10	0.17265		ND				EPA-300.0
Nitrate as N	10	0.039000		ND				EPA-300.0
Sulfate	10	269.80		269.25		0.206		EPA-300.0

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-300.0

26PZ01_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0467
Laboratory ID: B[B0467-MS1
Preparation: No Prep
Initial/Final: 19.8 ml / 20 ml
Source Sample Number: 1703197-26

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC. #	QC LIMITS REC.
Chloride	505.05	1635.6	2070.6	86.1	80 - 120
Nitrate as NO3	223.58	ND	222.37	99.5	80 - 120
Nitrate as N	50.505	ND	50.232	99.5	80 - 120
Sulfate	1010.1	24.960	991.82	95.7	80 - 120

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Chloride	505.05	2065.1	85.0	0.267	10	80 - 120
Nitrate as NO3	223.58	222.82	99.7	0.201	10	80 - 120
Nitrate as N	50.505	50.333	99.7	0.201	10	80 - 120
Sulfate	1010.1	993.28	95.9	0.148	10	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-300.0

Matrix Spike

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0595
Laboratory ID: B[B0595-MS1
Preparation: No Prep
Initial/Final: 19.8 ml / 20 ml
Source Sample Number: 1703276-01

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC. #	QC LIMITS REC.
Chloride	50.505	115.71	169.90	107	80 - 120
Nitrate as NO3	22.358	0.17265	23.140	103	80 - 120
Nitrate as N	5.0505	0.039000	5.2273	103	80 - 120
Sulfate	101.01	269.80	375.92	105	80 - 120

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Chloride	50.505	164.49	96.6	3.23	10	80 - 120
Nitrate as NO3	22.358	21.969	97.5	5.19	10	80 - 120
Nitrate as N	5.0505	4.9626	97.5	5.19	10	80 - 120
Sulfate	101.01	364.10	93.4	3.19	10	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-300.0

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0467
Laboratory ID: B[B0467-BS1
Preparation: No Prep
Initial/Final: 20 ml / 20 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Chloride	50.000	49.037	98.1	90 - 110
Nitrate as NO3	22.134	21.744	98.2	90 - 110
Nitrate as N	5.0000	4.9120	98.2	90 - 110
Sulfate	100.00	97.381	97.4	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-300.0

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0595
Laboratory ID: B[B0595-BS1
Preparation: No Prep
Initial/Final: 20 ml / 20 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Chloride	50.000	51.296	103	90 - 110
Nitrate as NO3	22.134	22.541	102	90 - 110
Nitrate as N	5.0000	5.0920	102	90 - 110
Sulfate	100.00	102.15	102	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-300.0

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Sequence: 1702018
Instrument: IC1
Matrix: Water
Calibration: UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	1702018-ICV1	A020417.seq-01	02/04/17 12:13
Initial Cal Blank	1702018-ICB1	A020417.seq-02	02/04/17 12:30
Blank	B[B0467-BLK1	A020417.seq-03	02/04/17 12:47
LCS	B[B0467-BS1	A020417.seq-04	02/04/17 13:04
27EW-12_170203	1703197-02	A020417.seq-05	02/04/17 13:21
SMLS-01_170203	1703197-11	A020417.seq-06	02/04/17 13:38
SMLS-07_170203	1703197-12	A020417.seq-07	02/04/17 13:55
26MW08_170203	1703197-13	A020417.seq-08	02/04/17 14:12
26MW03_170203	1703197-25	A020417.seq-09	02/04/17 14:30
26PZ01_170203	1703197-26	A020417.seq-10	02/04/17 14:47
26PZ01_170203	B[B0467-DUP1	A020417.seq-11	02/04/17 15:04
26PZ01_170203	B[B0467-MS1	A020417.seq-12	02/04/17 15:21
Calibration Check	1702018-CCV1	A020417.seq-13	02/04/17 15:38
Calibration Blank	1702018-CCB1	A020417.seq-14	02/04/17 15:55
26PZ01_170203	B[B0467-MSD1	A020417.seq-15	02/04/17 16:12
26PZ03_170203	1703197-27	A020417.seq-16	02/04/17 16:29
27MW06_170203	1703197-28	A020417.seq-17	02/04/17 16:46
Calibration Check	1702018-CCV2	A020417.seq-19	02/04/17 17:20
Calibration Blank	1702018-CCB2	A020417.seq-20	02/04/17 17:37
26MW08_170203	1703197-13RE1	A020417.seq-22	02/04/17 19:05
Calibration Check	1702018-CCV3	A020417.seq-25	02/04/17 19:57
Calibration Blank	1702018-CCB3	A020417.seq-26	02/04/17 20:14
Calibration Check	1702018-CCV4	A020417.seq-35	02/04/17 23:05
Calibration Blank	1702018-CCB4	A020417.seq-36	02/04/17 23:22
Calibration Check	1702018-CCV5	A020417.seq-45	02/05/17 01:55
Calibration Blank	1702018-CCB5	A020417.seq-46	02/05/17 02:12

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-300.0

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Sequence: 1702240
Instrument: IC5
Matrix: Water
Calibration: UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	1702240-ICV1	E020717.seq-08	02/07/17 15:22
Initial Cal Blank	1702240-ICB1	E020717.seq-09	02/07/17 15:40
Blank	B[B0595-BLK1	E020717.seq-10	02/07/17 15:57
LCS	B[B0595-BS1	E020717.seq-11	02/07/17 16:14
Duplicate	B[B0595-DUP1	E020717.seq-13	02/07/17 16:49
Calibration Check	1702240-CCV1	E020717.seq-15	02/07/17 17:30
Calibration Blank	1702240-CCB1	E020717.seq-16	02/07/17 17:48
Matrix Spike Dup	B[B0595-MSD1	E020717.seq-17	02/07/17 18:05
26PZ03_170203	1703197-27RE2	E020717.seq-18	02/07/17 18:22
Calibration Check	1702240-CCV2	E020717.seq-27	02/07/17 20:59
Calibration Blank	1702240-CCB2	E020717.seq-28	02/07/17 21:16
Calibration Check	1702240-CCV3	E020717.seq-39	02/08/17 00:28
Calibration Blank	1702240-CCB3	E020717.seq-40	02/08/17 00:45
Matrix Spike	B[B0595-MS1	E020717.seq-41	02/08/17 01:03
Calibration Check	1702240-CCV4	E020717.seq-50	02/08/17 03:39
Calibration Blank	1702240-CCB4	E020717.seq-51	02/08/17 03:57
Calibration Check	1702240-CCV5	E020717.seq-55	02/08/17 05:06
Calibration Blank	1702240-CCB5	E020717.seq-56	02/08/17 05:24
Calibration Check	1702240-CCV6	E020717.seq-57	02/08/17 08:51
Calibration Blank	1702240-CCB6	E020717.seq-58	02/08/17 09:08
Calibration Check	1702240-CCV7	E020717.seq-65	02/08/17 11:10
Calibration Blank	1702240-CCB7	E020717.seq-66	02/08/17 11:28

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

BLANKS
EPA-300.0

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Instrument ID: IC1
Project: Alameda
Sequence: 1702018
Calibration: UNASSIGNED

Lab Sample ID	Analyte	Found	DL	LOD	LOQ	Units	C	Method
1702018-ICB1	Chloride	0.0000	0.092		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.096		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.022		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.14		1.0	mg/L	U	EPA-300.0
1702018-CCB1	Chloride	0.0000	0.092		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.096		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.022		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.14		1.0	mg/L	U	EPA-300.0
1702018-CCB2	Chloride	0.0000	0.092		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.096		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.022		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.14		1.0	mg/L	U	EPA-300.0
1702018-CCB3	Chloride	0.0000	0.092		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.096		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.022		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.14		1.0	mg/L	U	EPA-300.0
1702018-CCB4	Chloride	0.0000	0.092		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.096		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.022		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.14		1.0	mg/L	U	EPA-300.0
1702018-CCB5	Chloride	0.0000	0.092		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.096		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.022		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.14		1.0	mg/L	U	EPA-300.0

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

BLANKS
EPA-300.0

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Instrument ID: IC5
Project: Alameda
Sequence: 1702240
Calibration: UNASSIGNED

Lab Sample ID	Analyte	Found	DL	LOD	LOQ	Units	C	Method
1702240-ICB1	Chloride	0.0000	0.092		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.096		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.022		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.14		1.0	mg/L	U	EPA-300.0
1702240-CCB1	Chloride	0.0000	0.092		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.096		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.022		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.14		1.0	mg/L	U	EPA-300.0
1702240-CCB2	Chloride	0.0000	0.092		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.096		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.022		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.14		1.0	mg/L	U	EPA-300.0
1702240-CCB3	Chloride	0.0000	0.092		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.096		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.022		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.14		1.0	mg/L	U	EPA-300.0
1702240-CCB4	Chloride	0.0000	0.092		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.096		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.022		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.14		1.0	mg/L	U	EPA-300.0
1702240-CCB5	Chloride	0.0000	0.092		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.096		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.022		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.14		1.0	mg/L	U	EPA-300.0
1702240-CCB6	Chloride	0.0000	0.092		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.096		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.022		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.14		1.0	mg/L	U	EPA-300.0

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

BLANKS
EPA-300.0

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Instrument ID: IC5
Project: Alameda
Sequence: 1702240
Calibration: UNASSIGNED

Lab Sample ID	Analyte	Found	DL	LOD	LOQ	Units	C	Method
1702240-CCB7	Chloride	0.0000	0.092		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.096		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.022		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.14		1.0	mg/L	U	EPA-300.0

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL AND CONTINUING CALIBRATION CHECK

EPA-300.0

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Instrument ID: IC1
Control Limt: +/- 10.00%

SDG: 17-03197
Project: Alameda
Calibration: UNASSIGNED
Sequence: 1702018

Lab Sample ID	Analyte	True	Found	%R	Units	Method
1702018-ICV1	Chloride	50.000	48.759	97.5	mg/L	EPA-300.0
	Nitrate as NO3	22.134	22.006	99.4	mg/L	EPA-300.0
	Nitrate as N	5.0000	4.9710	99.4	mg/L	EPA-300.0
	Sulfate	100.00	97.872	97.9	mg/L	EPA-300.0
1702018-CCV1	Chloride	50.000	48.845	97.7	mg/L	EPA-300.0
	Nitrate as NO3	22.134	21.851	98.7	mg/L	EPA-300.0
	Nitrate as N	5.0000	4.9360	98.7	mg/L	EPA-300.0
	Sulfate	100.00	97.904	97.9	mg/L	EPA-300.0
1702018-CCV2	Chloride	50.000	50.005	100	mg/L	EPA-300.0
	Nitrate as NO3	22.134	22.258	101	mg/L	EPA-300.0
	Nitrate as N	5.0000	5.0280	101	mg/L	EPA-300.0
	Sulfate	100.00	100.23	100	mg/L	EPA-300.0
1702018-CCV3	Chloride	50.000	49.621	99.2	mg/L	EPA-300.0
	Nitrate as NO3	22.134	22.023	99.5	mg/L	EPA-300.0
	Nitrate as N	5.0000	4.9750	99.5	mg/L	EPA-300.0
	Sulfate	100.00	98.889	98.9	mg/L	EPA-300.0
1702018-CCV4	Chloride	50.000	52.746	105	mg/L	EPA-300.0
	Nitrate as NO3	22.134	23.095	104	mg/L	EPA-300.0
	Nitrate as N	5.0000	5.2170	104	mg/L	EPA-300.0
	Sulfate	100.00	103.44	103	mg/L	EPA-300.0
1702018-CCV5	Chloride	50.000	49.794	99.6	mg/L	EPA-300.0
	Nitrate as NO3	22.134	22.072	99.7	mg/L	EPA-300.0
	Nitrate as N	5.0000	4.9860	99.7	mg/L	EPA-300.0
	Sulfate	100.00	99.010	99.0	mg/L	EPA-300.0

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL AND CONTINUING CALIBRATION CHECK

EPA-300.0

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Instrument ID: IC5
Control Limt: +/- 10.00%

SDG: 17-03197
Project: Alameda
Calibration: UNASSIGNED
Sequence: 1702240

Lab Sample ID	Analyte	True	Found	%R	Units	Method
1702240-ICV1	Chloride	50.000	52.480	105	mg/L	EPA-300.0
	Nitrate as NO3	22.134	22.692	103	mg/L	EPA-300.0
	Nitrate as N	5.0000	5.1260	103	mg/L	EPA-300.0
	Sulfate	100.00	102.79	103	mg/L	EPA-300.0
1702240-CCV1	Chloride	50.000	51.742	103	mg/L	EPA-300.0
	Nitrate as NO3	22.134	22.484	102	mg/L	EPA-300.0
	Nitrate as N	5.0000	5.0790	102	mg/L	EPA-300.0
	Sulfate	100.00	103.05	103	mg/L	EPA-300.0
1702240-CCV2	Chloride	50.000	52.416	105	mg/L	EPA-300.0
	Nitrate as NO3	22.134	22.727	103	mg/L	EPA-300.0
	Nitrate as N	5.0000	5.1340	103	mg/L	EPA-300.0
	Sulfate	100.00	103.62	104	mg/L	EPA-300.0
1702240-CCV3	Chloride	50.000	51.442	103	mg/L	EPA-300.0
	Nitrate as NO3	22.134	22.391	101	mg/L	EPA-300.0
	Nitrate as N	5.0000	5.0580	101	mg/L	EPA-300.0
	Sulfate	100.00	102.42	102	mg/L	EPA-300.0
1702240-CCV4	Chloride	50.000	51.573	103	mg/L	EPA-300.0
	Nitrate as NO3	22.134	22.426	101	mg/L	EPA-300.0
	Nitrate as N	5.0000	5.0660	101	mg/L	EPA-300.0
	Sulfate	100.00	102.30	102	mg/L	EPA-300.0
1702240-CCV5	Chloride	50.000	51.383	103	mg/L	EPA-300.0
	Nitrate as NO3	22.134	22.400	101	mg/L	EPA-300.0
	Nitrate as N	5.0000	5.0600	101	mg/L	EPA-300.0
	Sulfate	100.00	101.88	102	mg/L	EPA-300.0
1702240-CCV6	Chloride	50.000	50.272	101	mg/L	EPA-300.0
	Nitrate as NO3	22.134	22.045	99.6	mg/L	EPA-300.0
	Nitrate as N	5.0000	4.9800	99.6	mg/L	EPA-300.0
	Sulfate	100.00	100.30	100	mg/L	EPA-300.0
1702240-CCV7	Chloride	50.000	50.411	101	mg/L	EPA-300.0
	Nitrate as NO3	22.134	22.081	99.8	mg/L	EPA-300.0
	Nitrate as N	5.0000	4.9880	99.8	mg/L	EPA-300.0

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL AND CONTINUING CALIBRATION CHECK

EPA-300.0

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Instrument ID: IC5
Control Limt: +/- 10.00%

SDG: 17-03197
Project: Alameda
Calibration: UNASSIGNED
Sequence: 1702240

Lab Sample ID	Analyte	True	Found	%R	Units	Method
1702240-CCV7	Sulfate	100.00	100.12	100	mg/L	EPA-300.0

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

HOLDING TIME SUMMARY
EPA-300.0

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
27EW-12_170203	02/03/17 09:55	02/03/17 20:08	02/03/17 23:00	1.14	2.00	02/04/17 13:21	1.14	2.00	
27EW-12_170203	02/03/17 09:55	02/03/17 20:08	02/03/17 23:00	1.00	28.00	02/04/17 13:21	1.00	28.00	
SMLS-01_170203	02/03/17 08:55	02/03/17 20:08	02/03/17 23:00	1.00	28.00	02/04/17 13:38	1.00	28.00	
SMLS-01_170203	02/03/17 08:55	02/03/17 20:08	02/03/17 23:00	1.20	2.00	02/04/17 13:38	1.20	2.00	
SMLS-07_170203	02/03/17 08:09	02/03/17 20:08	02/03/17 23:00	1.00	28.00	02/04/17 13:55	1.00	28.00	
SMLS-07_170203	02/03/17 08:09	02/03/17 20:08	02/03/17 23:00	1.24	2.00	02/04/17 13:55	1.24	2.00	
26MW08_170203	02/03/17 11:25	02/03/17 20:08	02/03/17 23:00	1.12	2.00	02/04/17 14:12	1.12	2.00	
26MW08_170203	02/03/17 11:25	02/03/17 20:08	02/03/17 23:00	1.00	28.00	02/04/17 14:12	1.00	28.00	
26MW08_170203	02/03/17 11:25	02/03/17 20:08	02/03/17 23:00	1.00	28.00	02/04/17 19:05	1.00	28.00	
26MW03_170203	02/03/17 12:30	02/03/17 20:08	02/03/17 23:00	1.00	28.00	02/04/17 14:30	1.00	28.00	
26MW03_170203	02/03/17 12:30	02/03/17 20:08	02/03/17 23:00	1.08	2.00	02/04/17 14:30	1.08	2.00	
26PZ01_170203	02/03/17 13:36	02/03/17 20:08	02/03/17 23:00	1.00	28.00	02/04/17 14:47	1.00	28.00	
26PZ01_170203	02/03/17 13:36	02/03/17 20:08	02/03/17 23:00	1.05	2.00	02/04/17 14:47	1.05	2.00	
26PZ03_170203	02/03/17 13:01	02/03/17 20:08	02/03/17 23:00	1.00	28.00	02/04/17 16:29	1.00	28.00	
26PZ03_170203	02/03/17 13:01	02/03/17 20:08	02/03/17 23:00	1.14	2.00	02/04/17 16:29	1.14	2.00	
26PZ03_170203	02/03/17 13:01	02/03/17 20:08	02/07/17 16:00	4.00	28.00	02/07/17 18:22	4.00	28.00	
27MW06_170203	02/03/17 13:24	02/03/17 20:08	02/03/17 23:00	1.14	2.00	02/04/17 16:46	1.14	2.00	
27MW06_170203	02/03/17 13:24	02/03/17 20:08	02/03/17 23:00	1.00	28.00	02/04/17 16:46	1.00	28.00	

AMEC Environmental & Infrastructure 9210 Sky Park Court #200 San Diego, CA 92123	Reported: 3/7/2017 3:44:03PM Project: Alameda Project Number: 5023146096 Project Manager: Kelli Miller

* Holding time not met

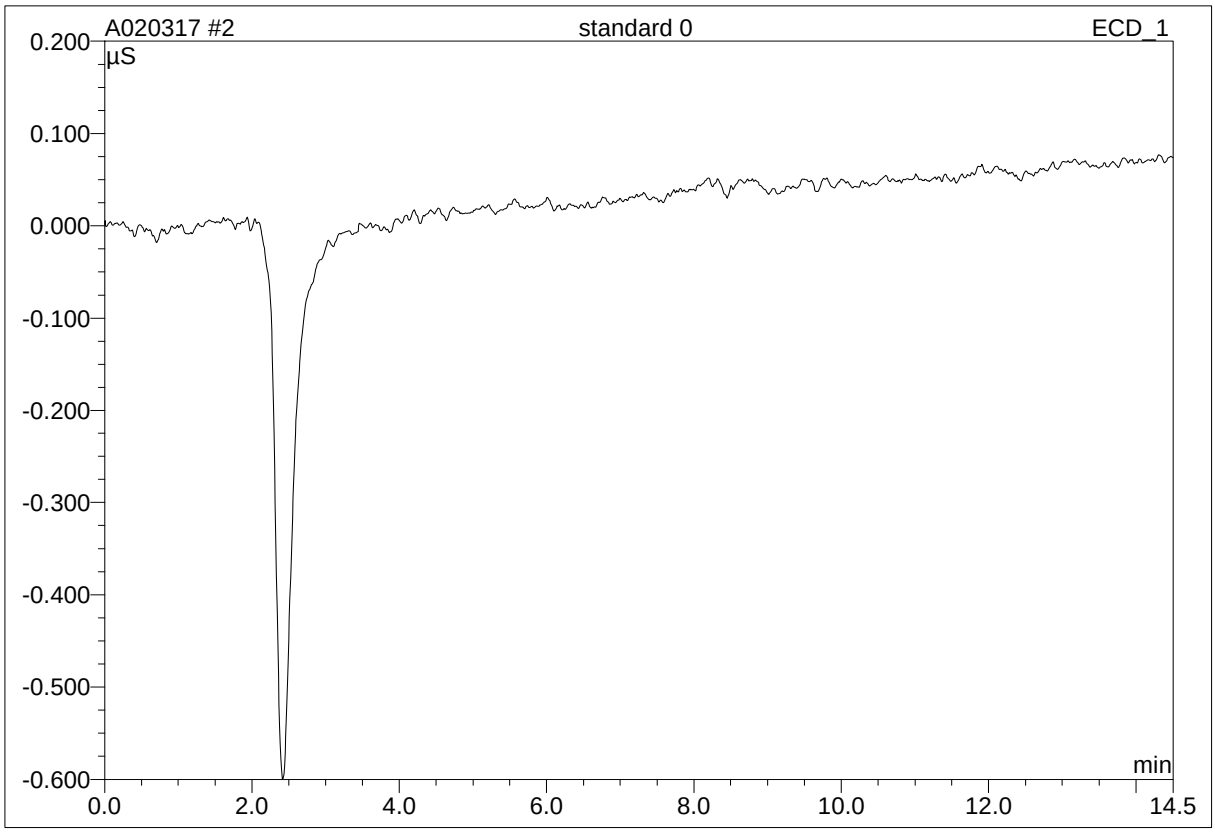
Note: If Prep or Analysis are performed within the hour (if holding time is based on hours) or within the day (if holding time is based on days), then the sample is not flagged as outside holding times. Calculated number of days are based on date received or date prepared depending on the test.

Raw Data From Instrument IC1

Raw Data - Calibration Standards

2 standard 0

Sample Name:	**standard 0**	*Injection Volume:*	**25.0**
Vial Number:	**19**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**2/3/2017 10:34**	*Sample Weight:*	**1.0000**
Run Time (min):	**14.50**	*Sample Amount:*	**1.0000**



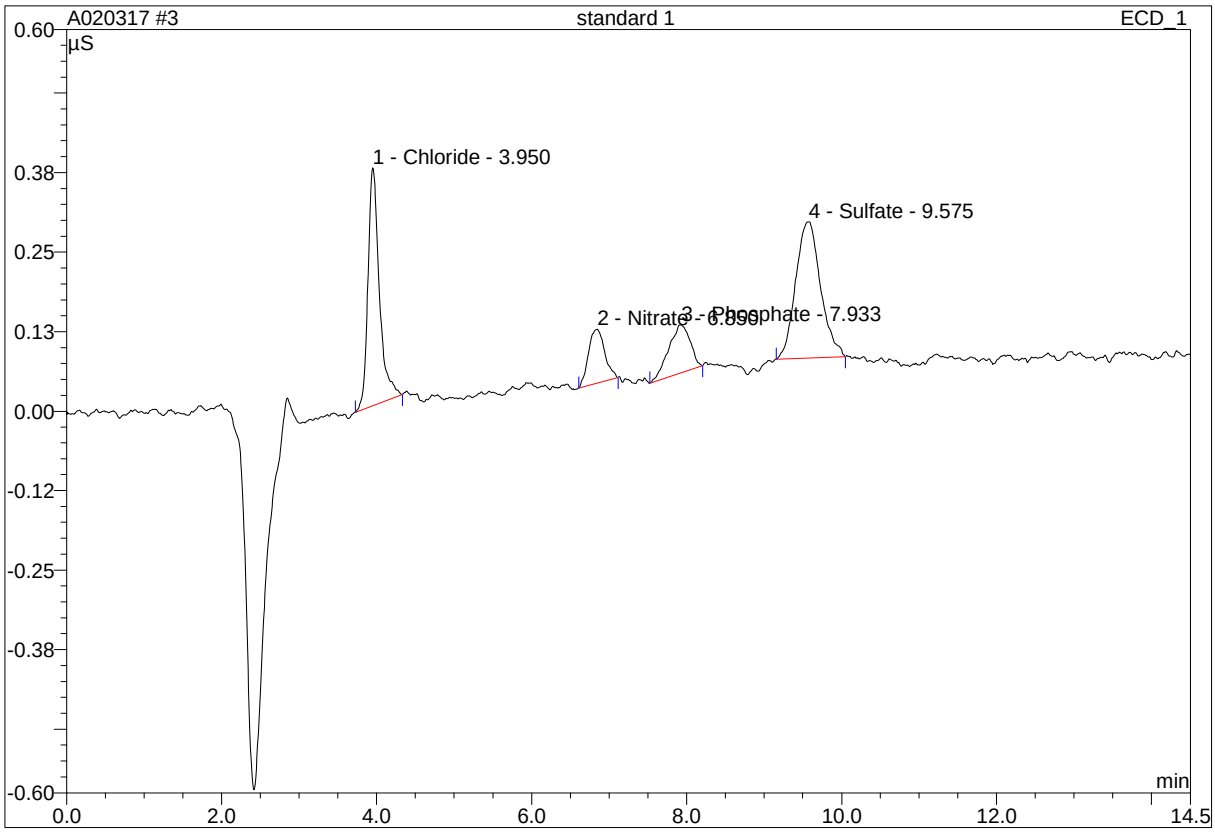
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

3 standard 1

Sample Name:	**standard 1**	*Injection Volume:*	**25.0**
Vial Number:	**22**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**2/3/2017 10:51**	*Sample Weight:*	**1.0000**
Run Time (min):	**14.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.95	Chloride	0.374	0.063	33.76	0.535	BMB
2	6.85	Nitrate	0.084	0.021	10.94	0.103	BMB
3	7.93	Phosphate	0.075	0.024	12.91	0.205	BMB
4	9.58	Sulfate	0.214	0.080	42.39	0.952	BMB
Total:			0.747	0.188	100.00	1.796	

modified on: n.a. By: OLH/EMW

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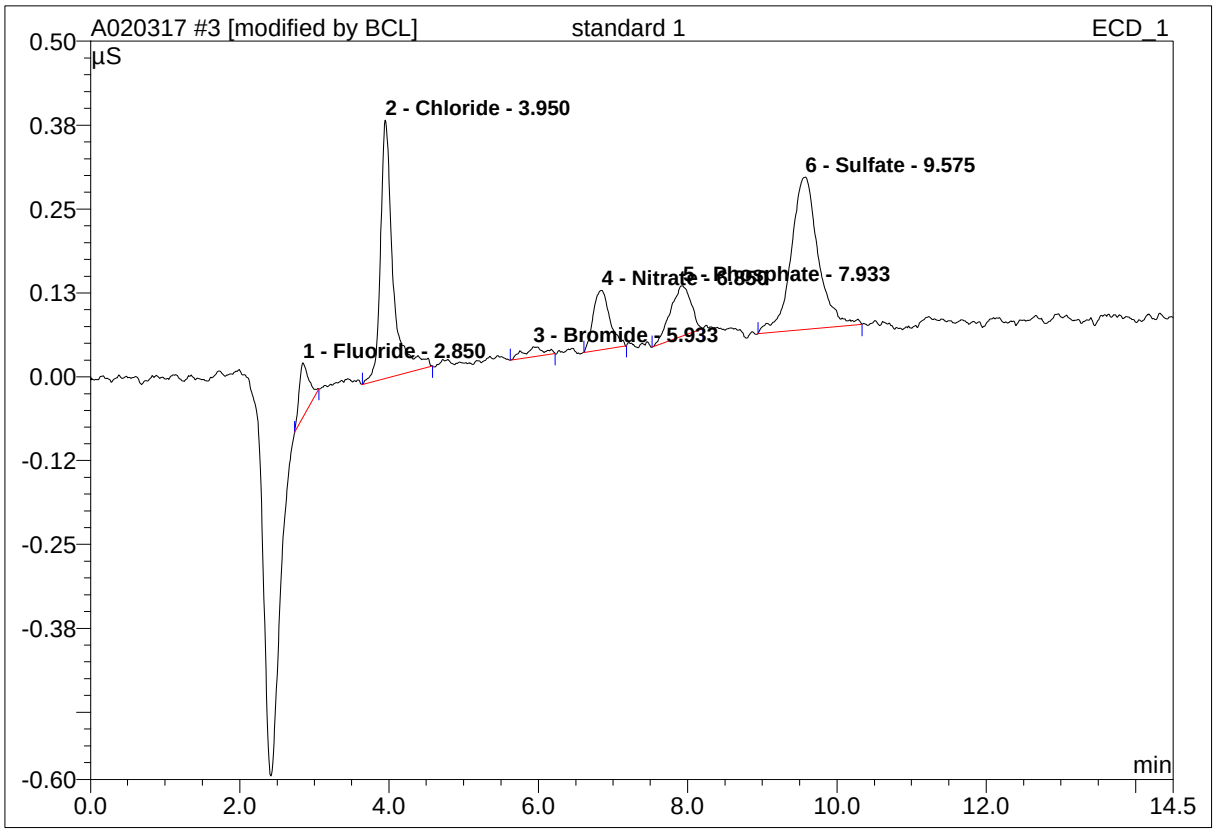
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

3 standard 1

Sample Name:	**standard 1**	*Injection Volume:*	**25.0**
Vial Number:	**22**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**2/3/2017 10:51**	*Sample Weight:*	**1.0000**
Run Time (min):	**14.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.85	Fluoride	0.080	0.012	5.06	0.048	BMB*
2	3.95	Chloride	0.385	0.075	31.95	0.559	BMB*
3	5.93	Bromide	0.015	0.005	2.00	0.101	BMB*
4	6.85	Nitrate	0.088	0.023	9.79	0.105	BMB*
5	7.93	Phosphate	0.075	0.024	10.37	0.205	BMB
6	9.58	Sulfate	0.227	0.095	40.83	1.023	BMB*
Total:			0.870	0.234	100.00	2.041	

modified on: 02.03.17 14:29 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
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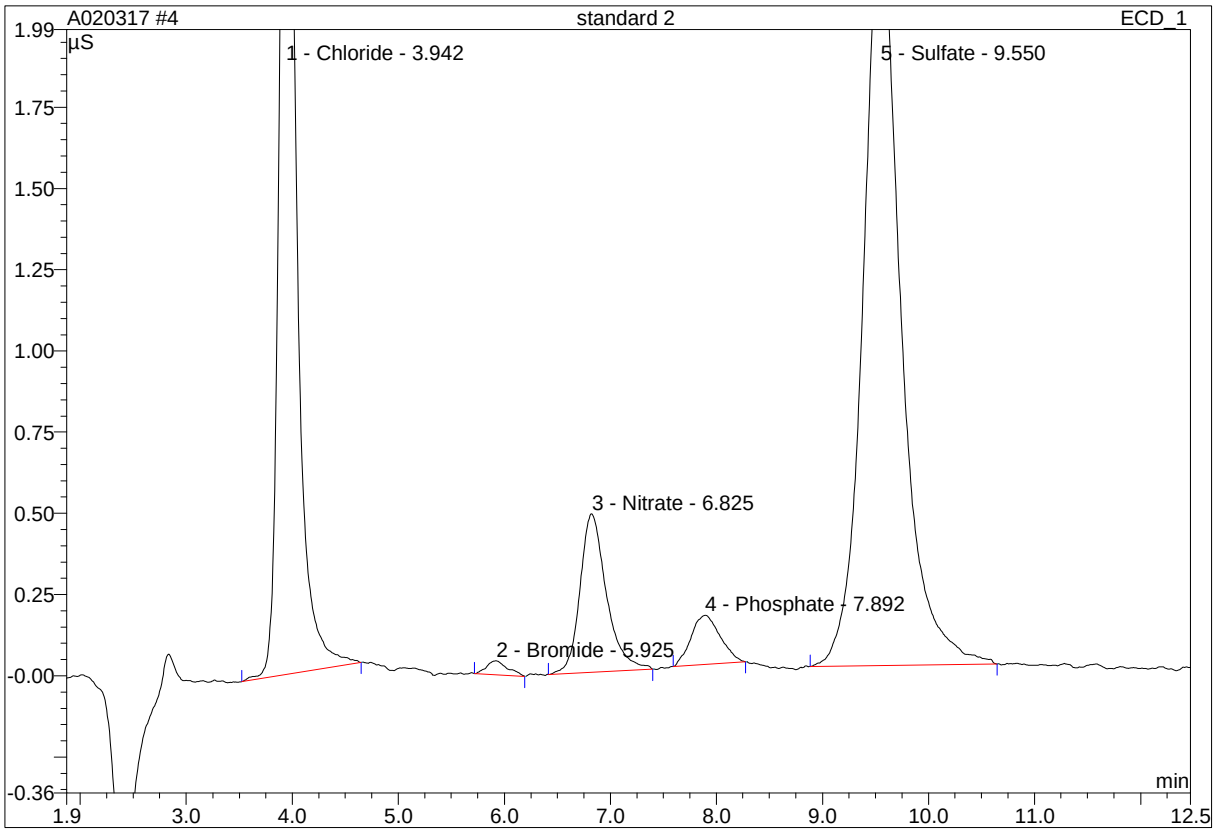
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

4 standard 2

Sample Name:	**standard 2**	*Injection Volume:*	**25.0**
Vial Number:	**22**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**2/3/2017 11:08**	*Sample Weight:*	**1.0000**
Run Time (min):	**14.50**	*Sample Amount:*	**1.0000**



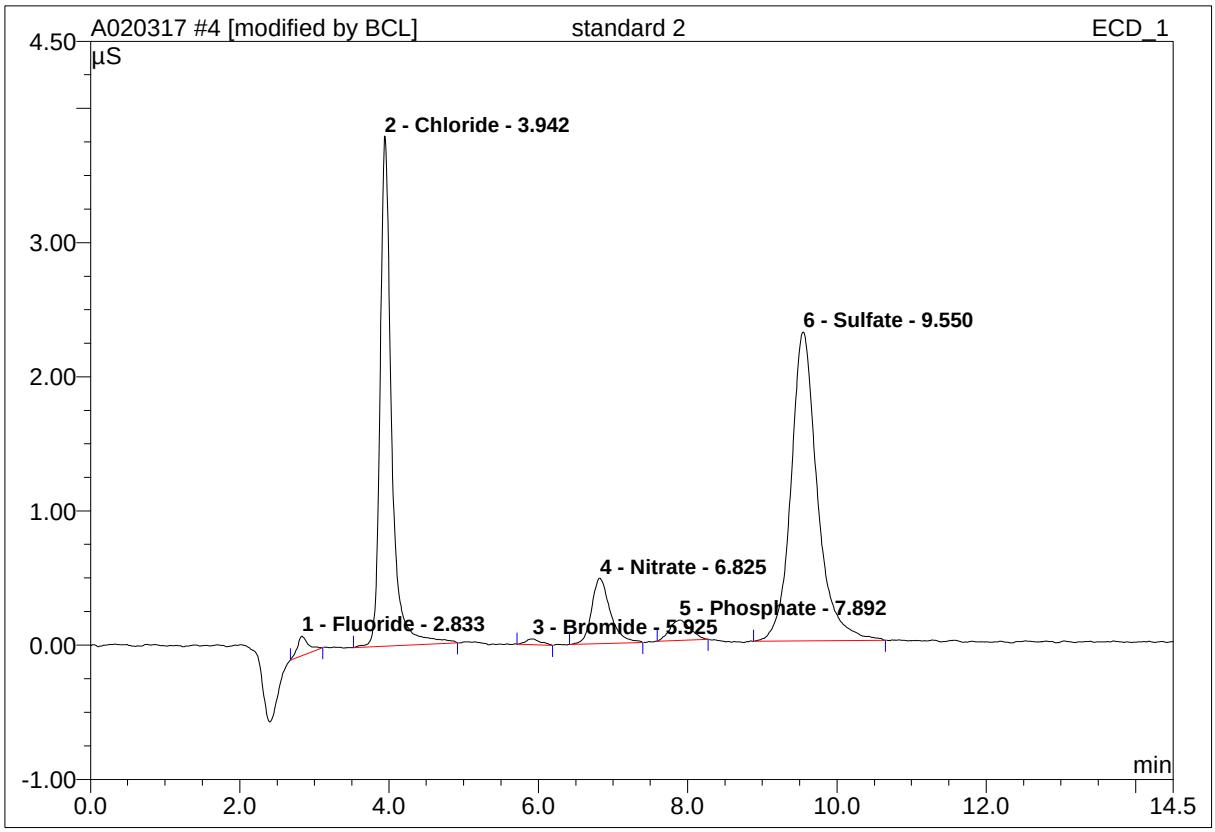
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.94	Chloride	3.788	0.650	36.34	3.944	BMB
2	5.93	Bromide	0.043	0.010	0.55	0.201	BMB
3	6.83	Nitrate	0.487	0.141	7.89	0.459	BMB
4	7.89	Phosphate	0.151	0.048	2.69	0.348	BMB
5	9.55	Sulfate	2.303	0.940	52.53	8.137	BMB
Total:			6.773	1.789	100.00	13.090	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

4 standard 2

Sample Name:	**standard 2**	*Injection Volume:*	**25.0**
Vial Number:	**22**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**2/3/2017 11:08**	*Sample Weight:*	**1.0000**
Run Time (min):	**14.50**	*Sample Amount:*	**1.0000**



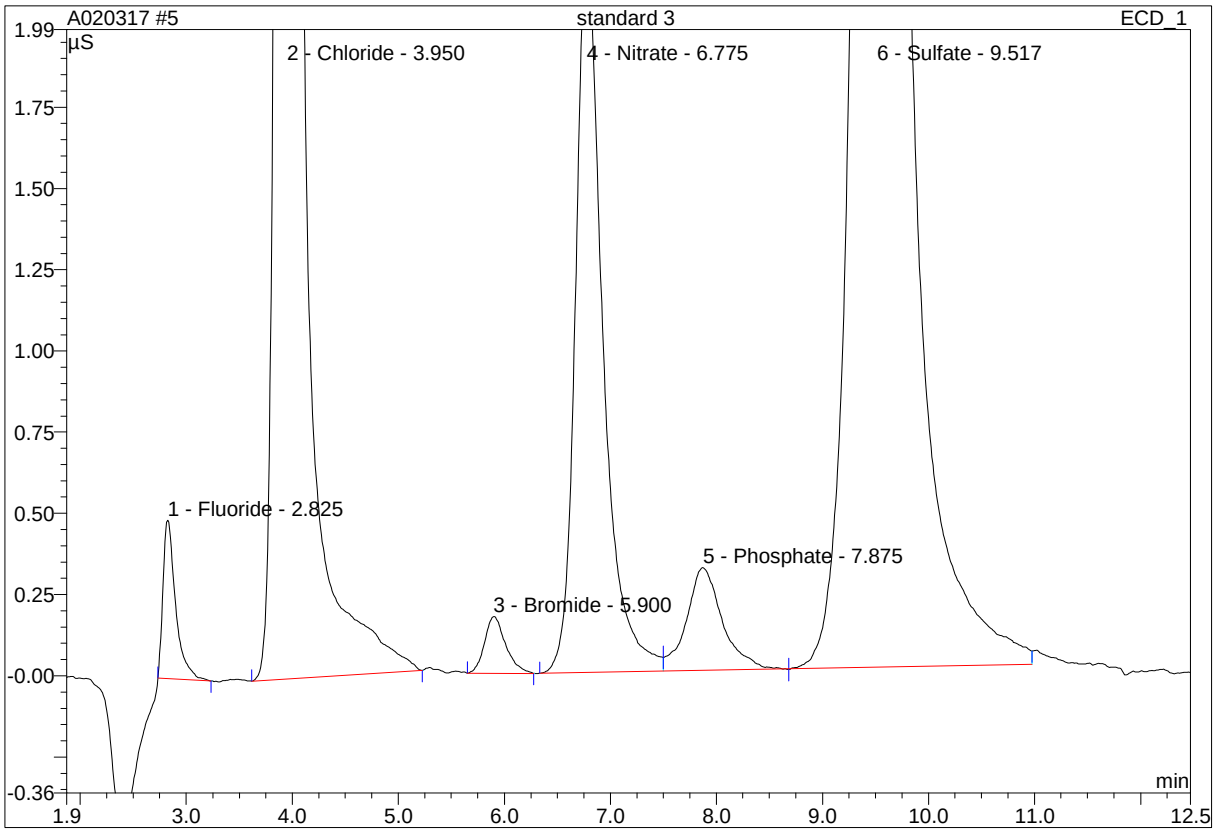
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.83	Fluoride	0.144	0.024	1.31	0.103	BMB*
2	3.94	Chloride	3.800	0.673	36.66	4.066	BMB*
3	5.93	Bromide	0.043	0.010	0.54	0.201	BMB
4	6.83	Nitrate	0.487	0.141	7.69	0.459	BMB
5	7.89	Phosphate	0.151	0.048	2.62	0.348	BMB
6	9.55	Sulfate	2.303	0.940	51.18	8.137	BMB
Total:			6.929	1.836	100.00	13.315	

modified on: 02.03.17 14:28 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

5 standard 3

Sample Name:	**standard 3**	*Injection Volume:*	**25.0**
Vial Number:	**22**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**2/3/2017 11:25**	*Sample Weight:*	**1.0000**
Run Time (min):	**14.50**	*Sample Amount:*	**1.0000**



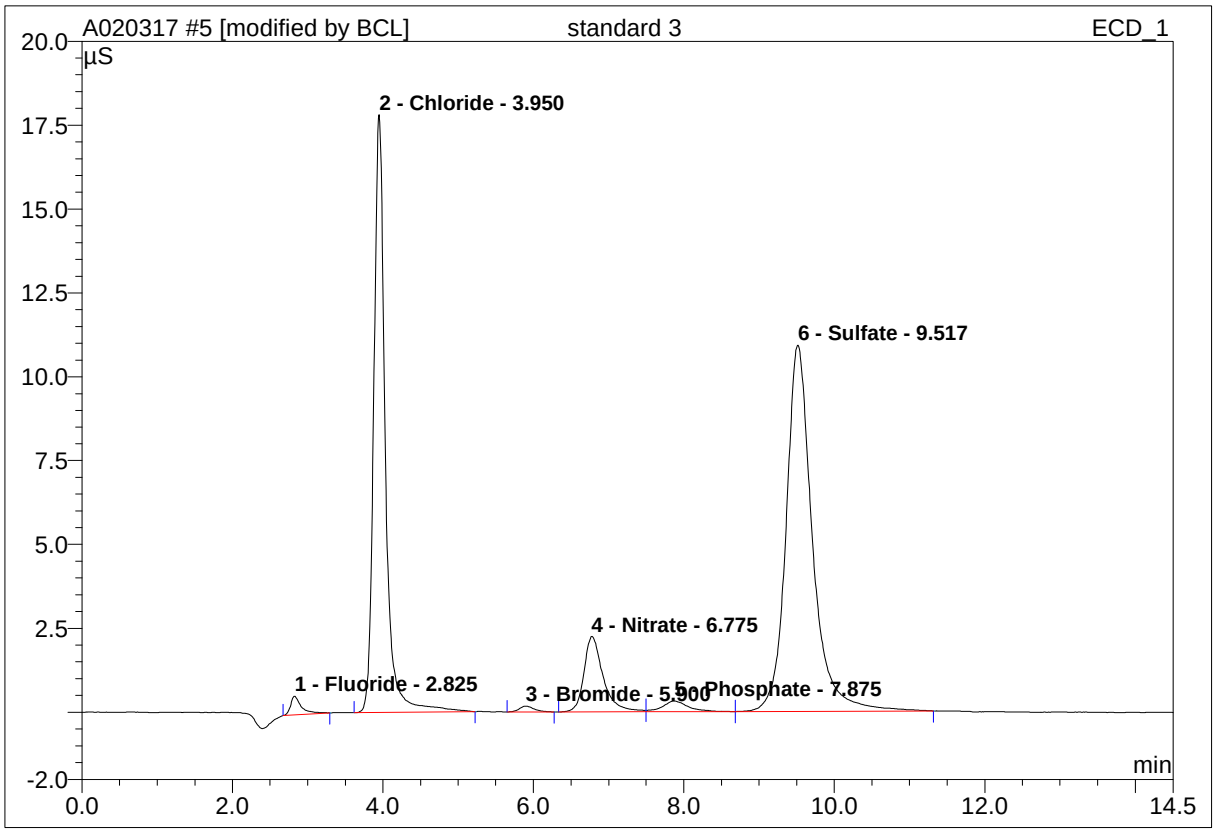
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.83	Fluoride	0.488	0.068	0.80	0.321	BMB
2	3.95	Chloride	17.825	3.167	37.29	18.299	BMB
3	5.90	Bromide	0.174	0.040	0.47	0.776	BMB
4	6.78	Nitrate	2.248	0.664	7.82	1.989	BM
5	7.88	Phosphate	0.316	0.124	1.45	0.797	M
6	9.52	Sulfate	10.916	4.430	52.17	36.725	M
Total:			31.967	8.492	100.00	58.907	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

5 standard 3

Sample Name:	**standard 3**	*Injection Volume:*	**25.0**
Vial Number:	**22**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**2/3/2017 11:25**	*Sample Weight:*	**1.0000**
Run Time (min):	**14.50**	*Sample Amount:*	**1.0000**



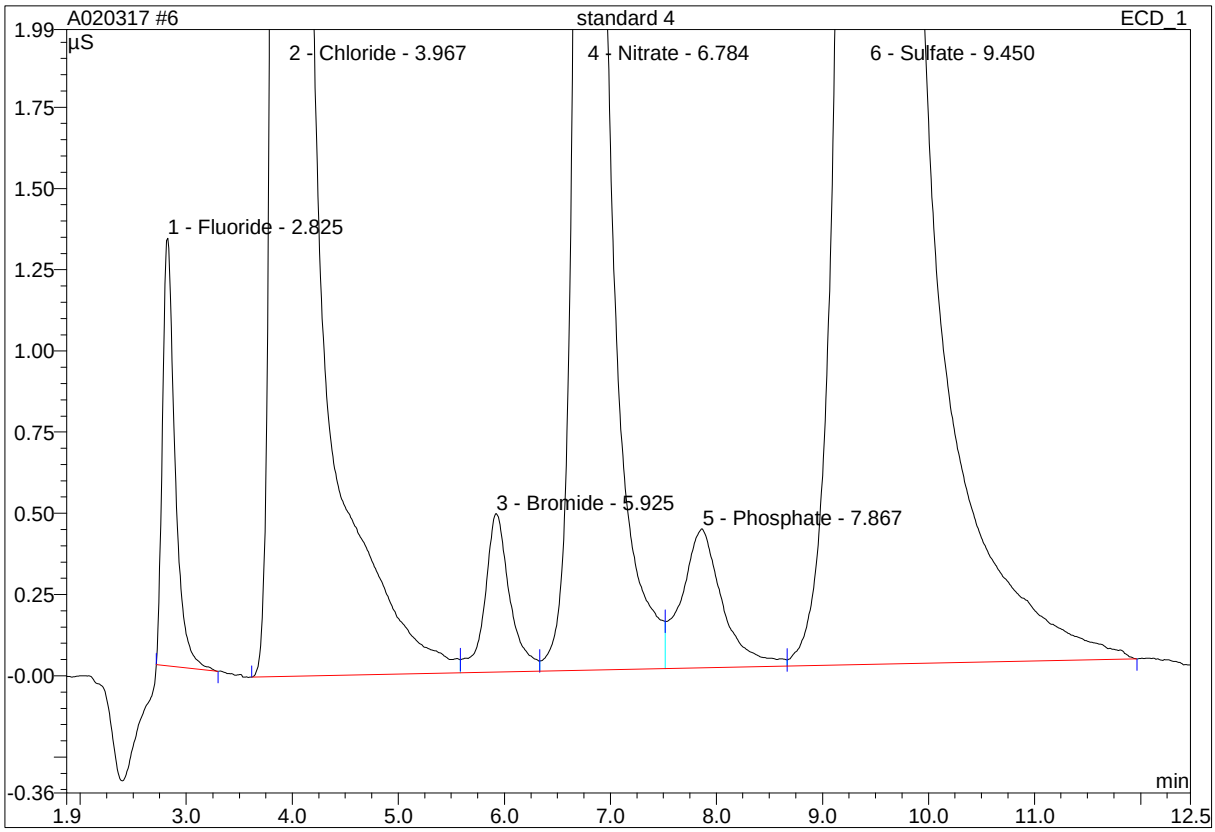
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.83	Fluoride	0.557	0.093	1.09	0.414	BMB*
2	3.95	Chloride	17.825	3.167	37.17	18.299	BMB
3	5.90	Bromide	0.174	0.040	0.47	0.776	BMB
4	6.78	Nitrate	2.247	0.661	7.76	1.983	BM *
5	7.88	Phosphate	0.313	0.122	1.43	0.789	Mb*
6	9.52	Sulfate	10.916	4.437	52.08	36.771	bMB*
Total:			32.033	8.520	100.00	59.033	

modified on: 02.03.17 14:28 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

6 standard 4

Sample Name:	**standard 4**	*Injection Volume:*	**25.0**
Vial Number:	**17**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**2/3/2017 12:48**	*Sample Weight:*	**1.0000**
Run Time (min):	**14.50**	*Sample Amount:*	**1.0000**



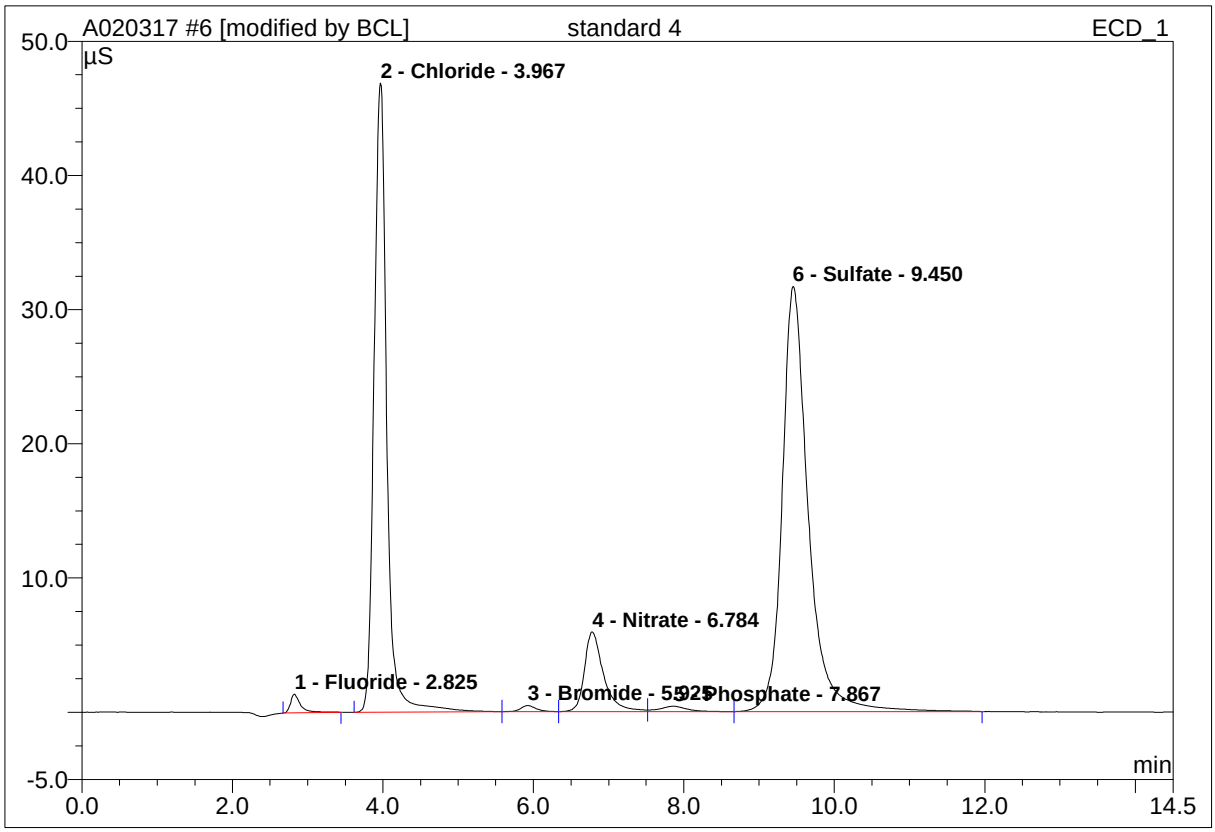
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.83	Fluoride	1.316	0.182	0.75	0.878	BMB
2	3.97	Chloride	46.900	9.189	37.89	50.433	BM
3	5.93	Bromide	0.488	0.133	0.55	2.271	M
4	6.78	Nitrate	5.969	1.784	7.35	5.049	M
5	7.87	Phosphate	0.427	0.190	0.78	1.142	M
6	9.45	Sulfate	31.700	12.777	52.68	100.284	MB
Total:			86.800	24.253	100.00	160.057	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

6 standard 4

Sample Name:	**standard 4**	*Injection Volume:*	**25.0**
Vial Number:	**17**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**2/3/2017 12:48**	*Sample Weight:*	**1.0000**
Run Time (min):	**14.50**	*Sample Amount:*	**1.0000**



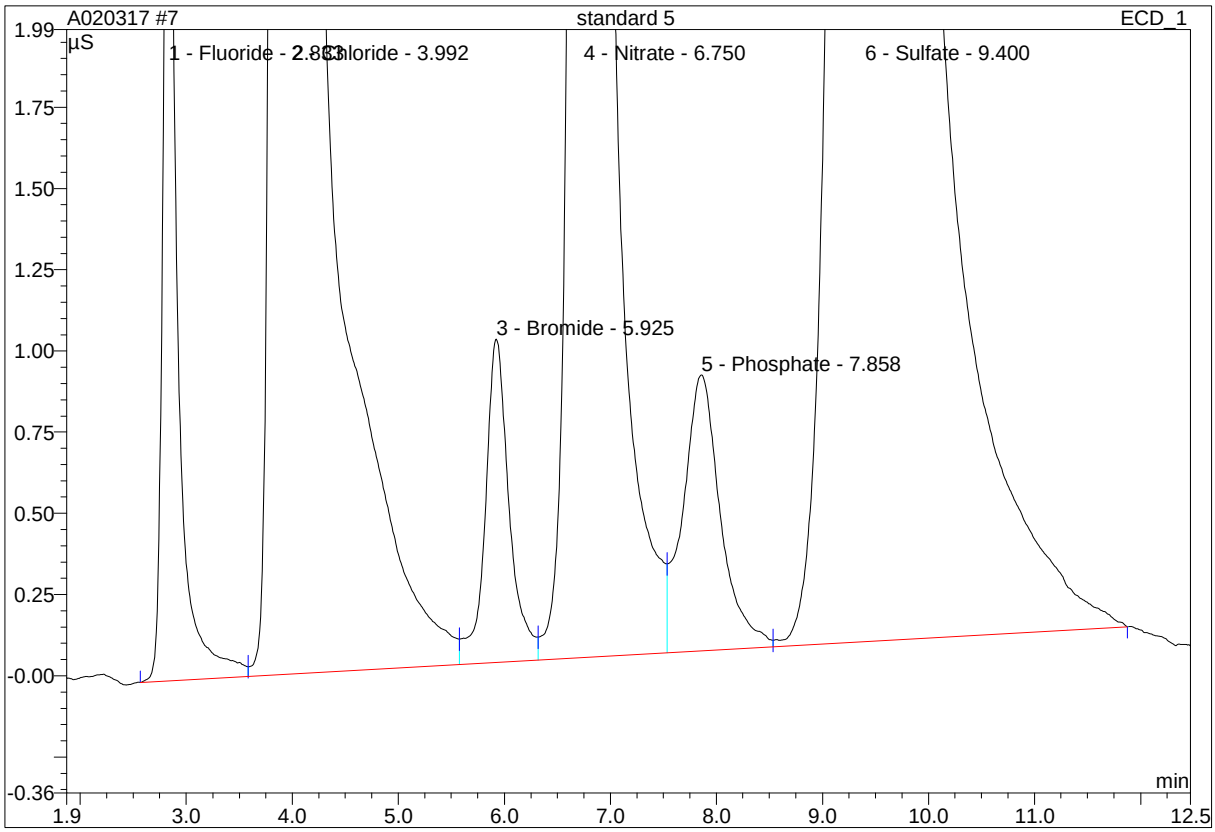
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.83	Fluoride	1.395	0.218	0.90	0.980	BMB*
2	3.97	Chloride	46.893	9.153	37.92	50.321	BM *
3	5.93	Bromide	0.454	0.107	0.44	2.015	Mb*
4	6.78	Nitrate	5.941	1.751	7.25	4.996	bM *
5	7.87	Phosphate	0.405	0.165	0.68	1.045	M *
6	9.45	Sulfate	31.686	12.746	52.80	100.148	MB*
Total:			86.773	24.139	100.00	159.506	

modified on: 02.03.17 14:28 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

7 standard 5

Sample Name:	**standard 5**	*Injection Volume:*	**25.0**
Vial Number:	**18**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**2/3/2017 13:05**	*Sample Weight:*	**1.0000**
Run Time (min):	**14.50**	*Sample Amount:*	**1.0000**



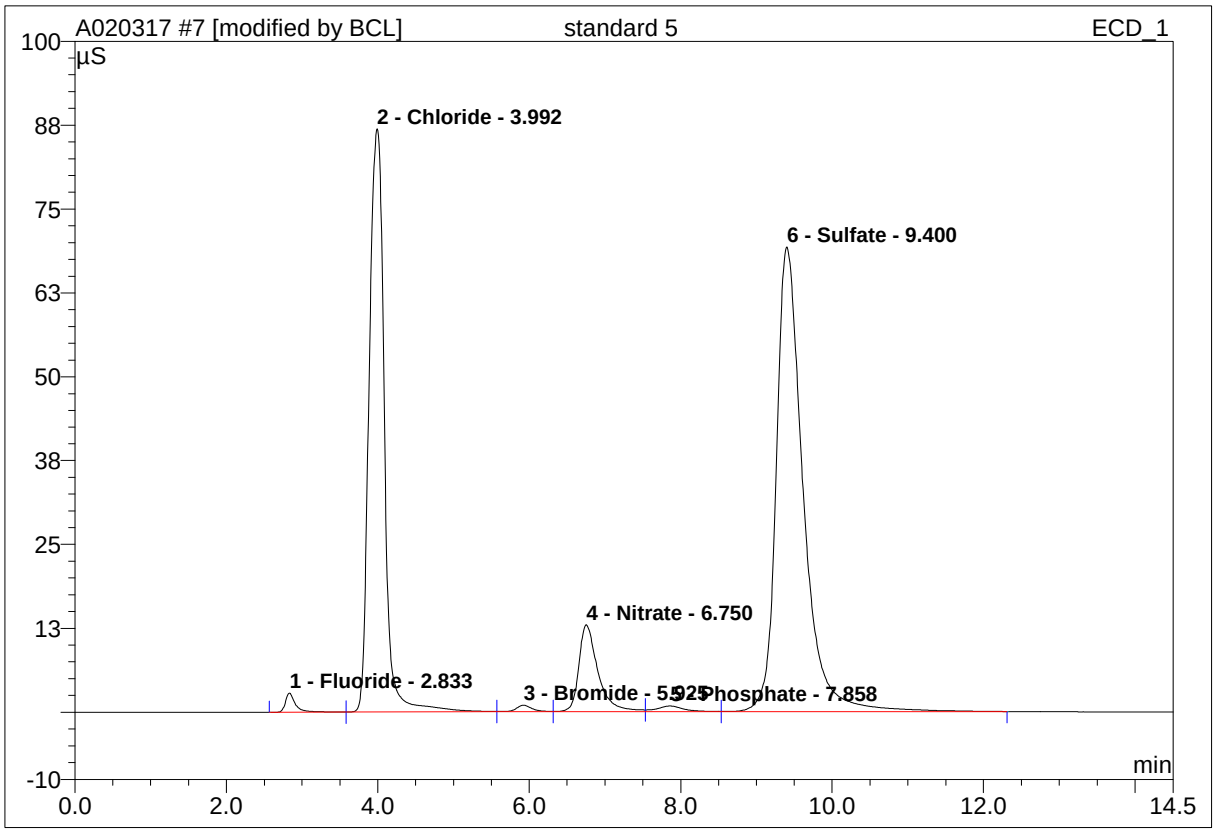
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.83	Fluoride	2.859	0.459	0.86	2.041	BM
2	3.99	Chloride	86.951	20.312	37.85	103.633	M
3	5.93	Bromide	0.995	0.261	0.49	4.425	M
4	6.75	Nitrate	12.984	3.818	7.11	10.153	M
5	7.86	Phosphate	0.849	0.348	0.65	2.092	M
6	9.40	Sulfate	69.281	28.461	53.04	206.799	MB
Total:			173.919	53.658	100.00	329.144	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

7 standard 5

Sample Name:	**standard 5**	*Injection Volume:*	**25.0**
Vial Number:	**18**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**2/3/2017 13:05**	*Sample Weight:*	**1.0000**
Run Time (min):	**14.50**	*Sample Amount:*	**1.0000**



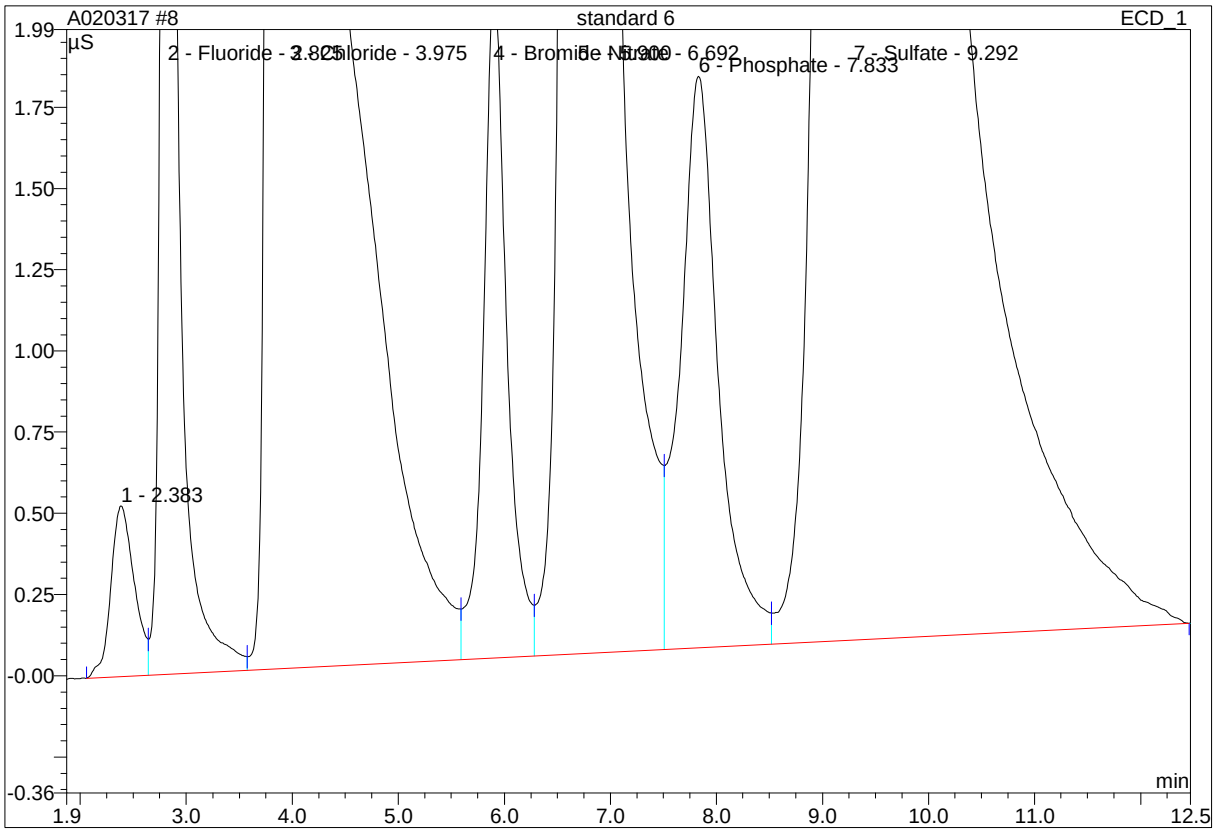
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.83	Fluoride	2.851	0.444	0.83	2.002	BMb*
2	3.99	Chloride	86.915	20.221	37.77	103.379	bM *
3	5.93	Bromide	0.940	0.220	0.41	4.016	M *
4	6.75	Nitrate	12.943	3.772	7.05	10.087	M *
5	7.86	Phosphate	0.829	0.331	0.62	2.032	M *
6	9.40	Sulfate	69.289	28.551	53.33	207.154	MB*
Total:			173.766	53.538	100.00	328.670	

modified on: 02.03.17 14:28 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

8 standard 6

Sample Name:	**standard 6**	*Injection Volume:*	**25.0**
Vial Number:	**18**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**2/3/2017 13:22**	*Sample Weight:*	**1.0000**
Run Time (min):	**14.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.38	n.a.	0.525	0.135	0.12	n.a.	BM
2	2.83	Fluoride	5.894	0.938	0.80	4.010	M
3	3.98	Chloride	150.999	43.854	37.51	198.726	M
4	5.90	Bromide	2.062	0.533	0.46	8.029	M
5	6.69	Nitrate	28.847	8.453	7.23	19.977	M
6	7.83	Phosphate	1.759	0.738	0.63	3.998	M
7	9.29	Sulfate	139.434	62.268	53.26	397.369	MB
Total:			329.521	116.919	100.00	632.109	

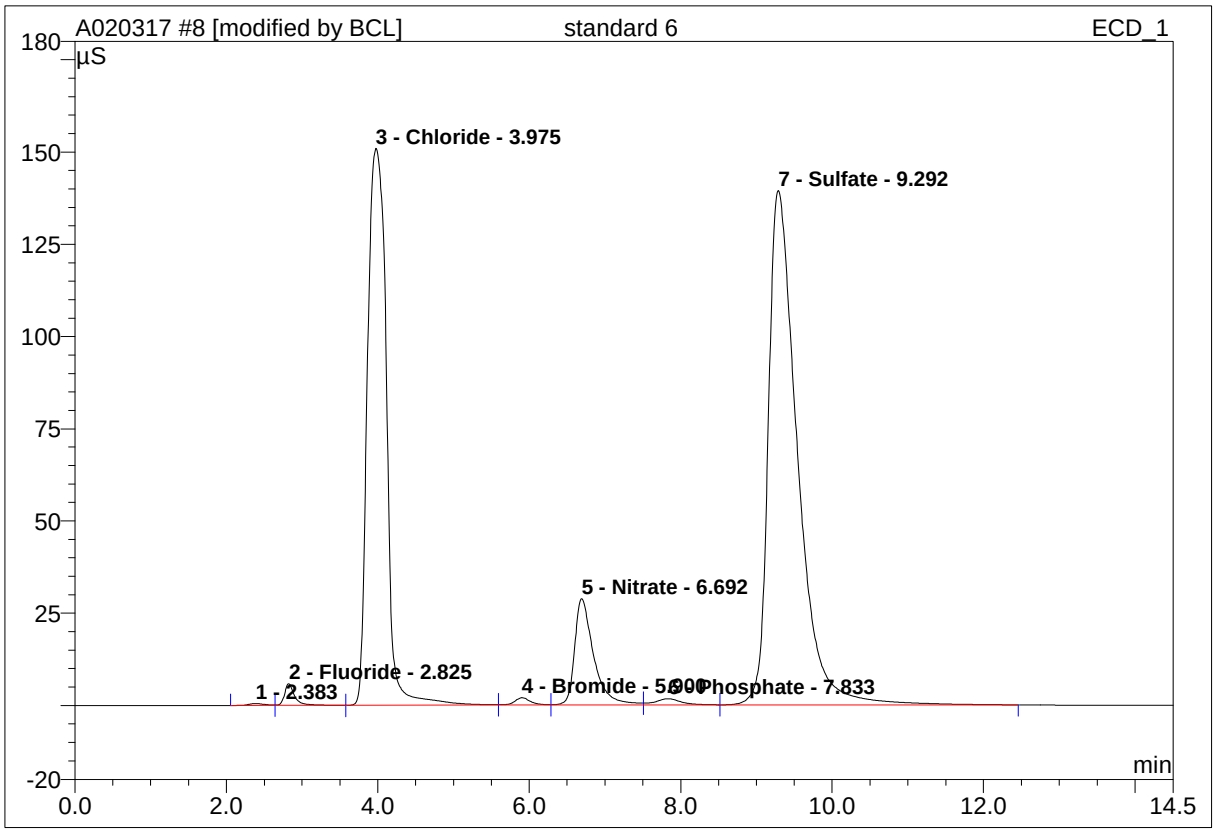
modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider

BMB = This peak type is for resolved peaks.

8 standard 6

Sample Name:	**standard 6**	*Injection Volume:*	**25.0**
Vial Number:	**18**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**2/3/2017 13:22**	*Sample Weight:*	**1.0000**
Run Time (min):	**14.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.38	n.a.	0.494	0.118	0.10	n.a.	BM *
2	2.83	Fluoride	5.840	0.892	0.77	4.003	Mb*
3	3.98	Chloride	150.944	43.700	37.57	198.690	bM *
4	5.90	Bromide	1.956	0.460	0.40	7.991	M *
5	6.69	Nitrate	28.754	8.343	7.17	19.967	M *
6	7.83	Phosphate	1.684	0.665	0.57	3.980	M *
7	9.29	Sulfate	139.383	62.142	53.42	397.328	MB*
Total:			329.054	116.320	100.00	631.958	

modified on: 02.03.17 14:28 By: OLH/EMW

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B = Baseline with direct contact on left or right side of peak.
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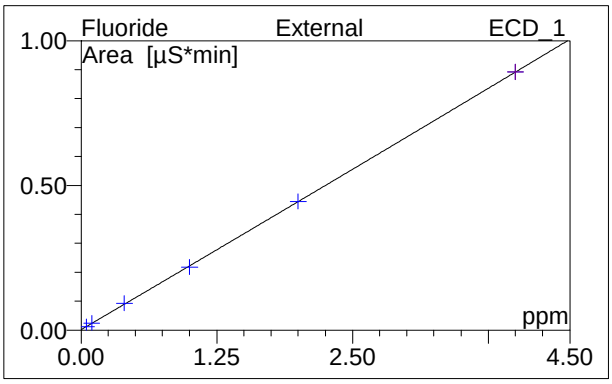
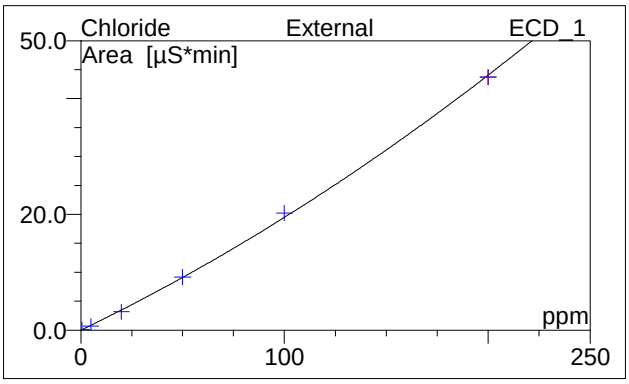
M = Main
R = Rider

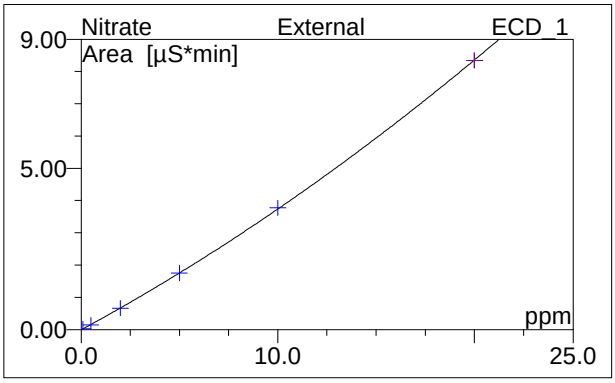
BMB = This peak type is for resolved peaks.

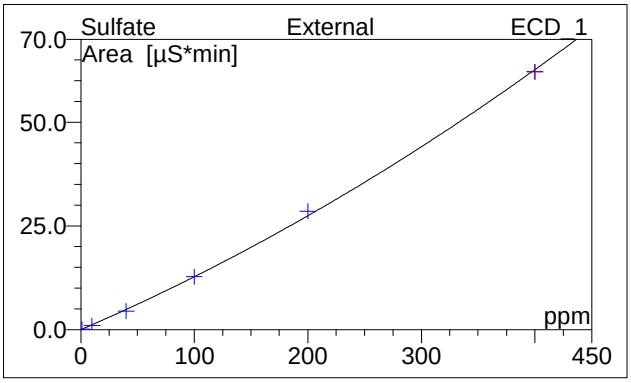
8 standard 6

Sample Name:	**standard 6**	*Injection Volume:*	**25.0**
Vial Number:	**18**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**2/3/2017 13:22**	*Sample Weight:*	**1.0000**
Run Time (min):	**14.50**	*Sample Amount:*	**1.0000**









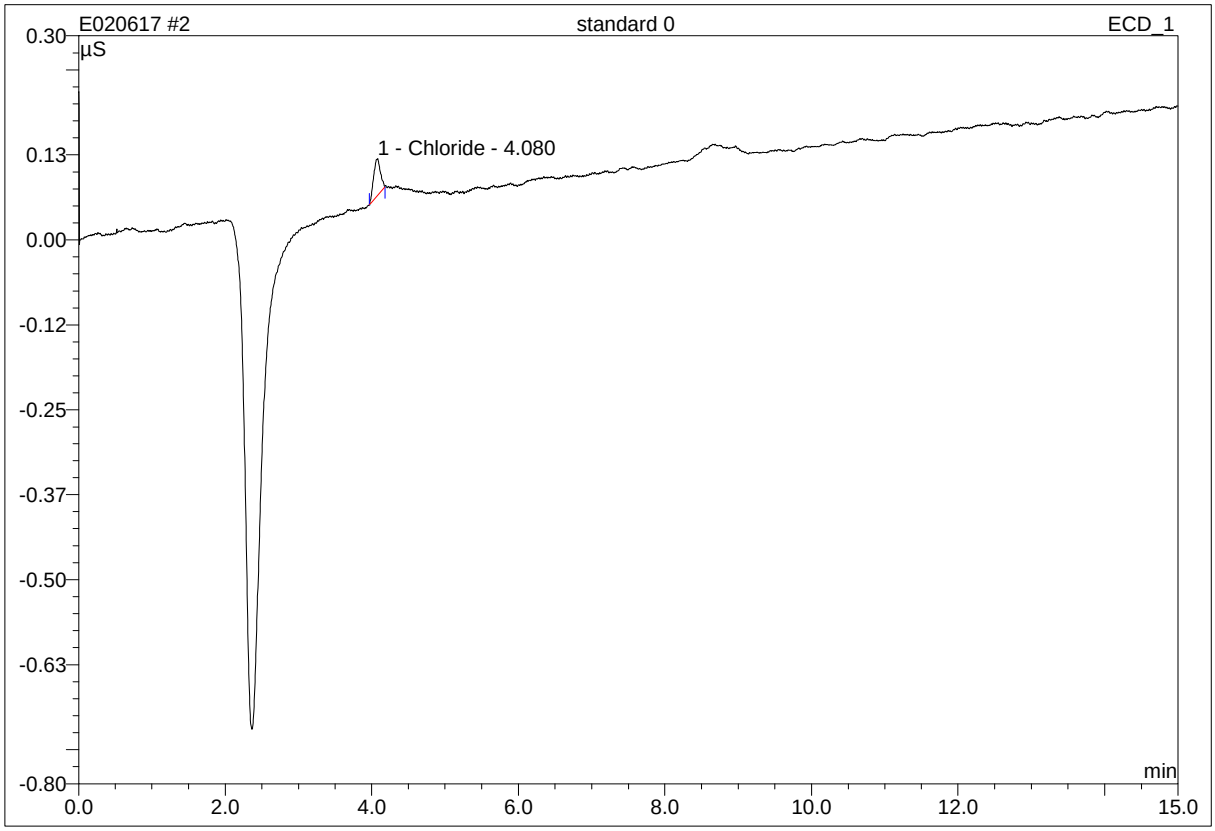
No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
1	2.38	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	2.83	Fluoride	XA0QOff	6	99.9906	0.0013	0.2201	0.0006
3	3.98	Chloride	XA0QOff	6	99.6245	-0.0202	0.1695	0.0003
4	5.90	Bromide	XA0QOff	6	99.9459	-0.0006	0.0520	0.0007
5	6.69	Nitrate	XA0QOff	6	99.7349	-0.0118	0.3309	0.0044
6	7.83	Phosphate	XA0QOff	6	99.9169	-0.0099	0.1663	0.0008
7	9.29	Sulfate	XA0QOff	6	99.5774	-0.0251	0.1178	0.0001
Average:					99.7984	-0.0111	0.1761	0.0011

Raw Data From Instrument IC5

Raw Data - Calibration Standards

2 standard 0

Sample Name:	**standard 0**	*Injection Volume:*	**20.0**
Vial Number:	**17**	*Channel:*	**IC5**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC5**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC5 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**2/6/2017 12:11**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.08	Chloride	0.054	0.006	100.00	0.200	BMB
Total:			0.054	0.006	100.00	0.200	

modified on: n.a. By: OLH/EMW/JSW

* = Manual integrations due to peak, rider or baseline error.
B = Baseline with direct contact on the left or right side of peak.
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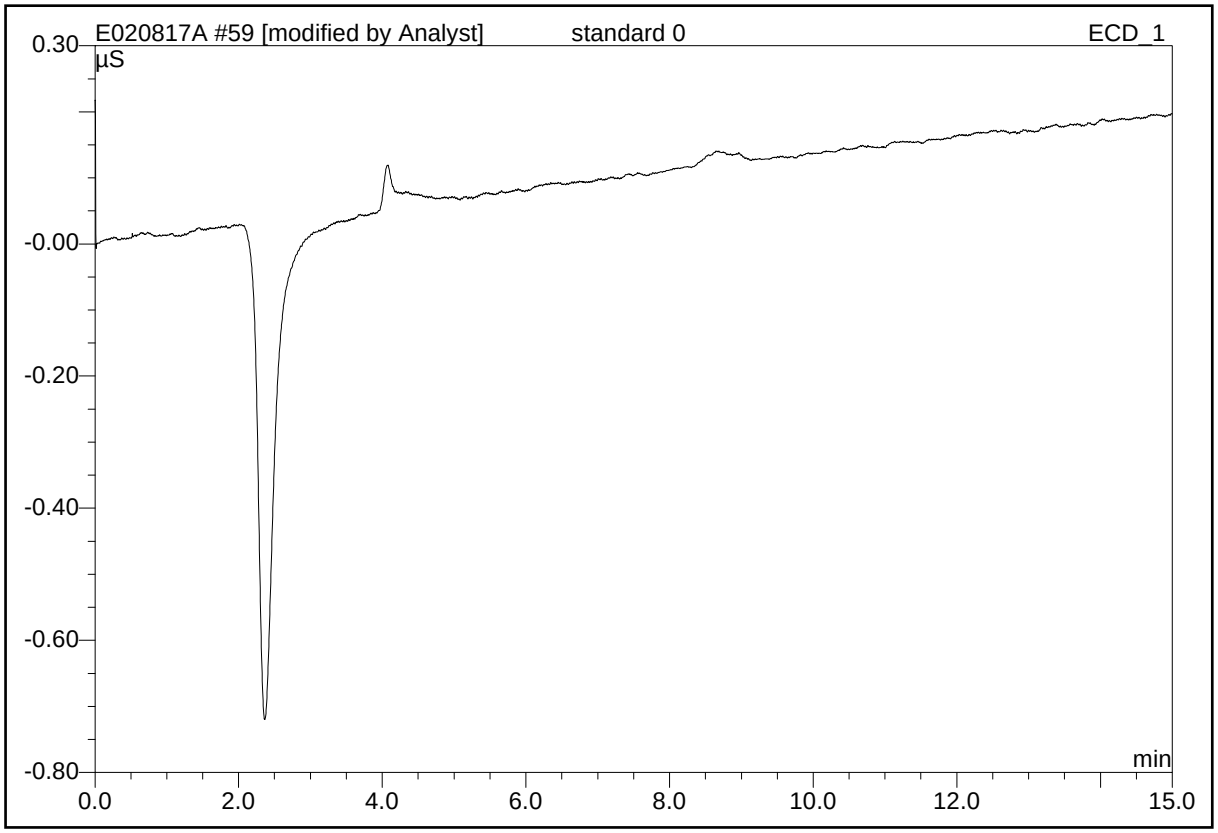
M = Main
R= Rider
BMB = This peak type is for resolved peaks.

59 standard 0

Sample Name:	**standard 0**	*Injection Volume:*	**20.0**
Vial Number:	**17**	*Channel:*	**IC5**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC5**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC5 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**2/6/2017 12:11**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



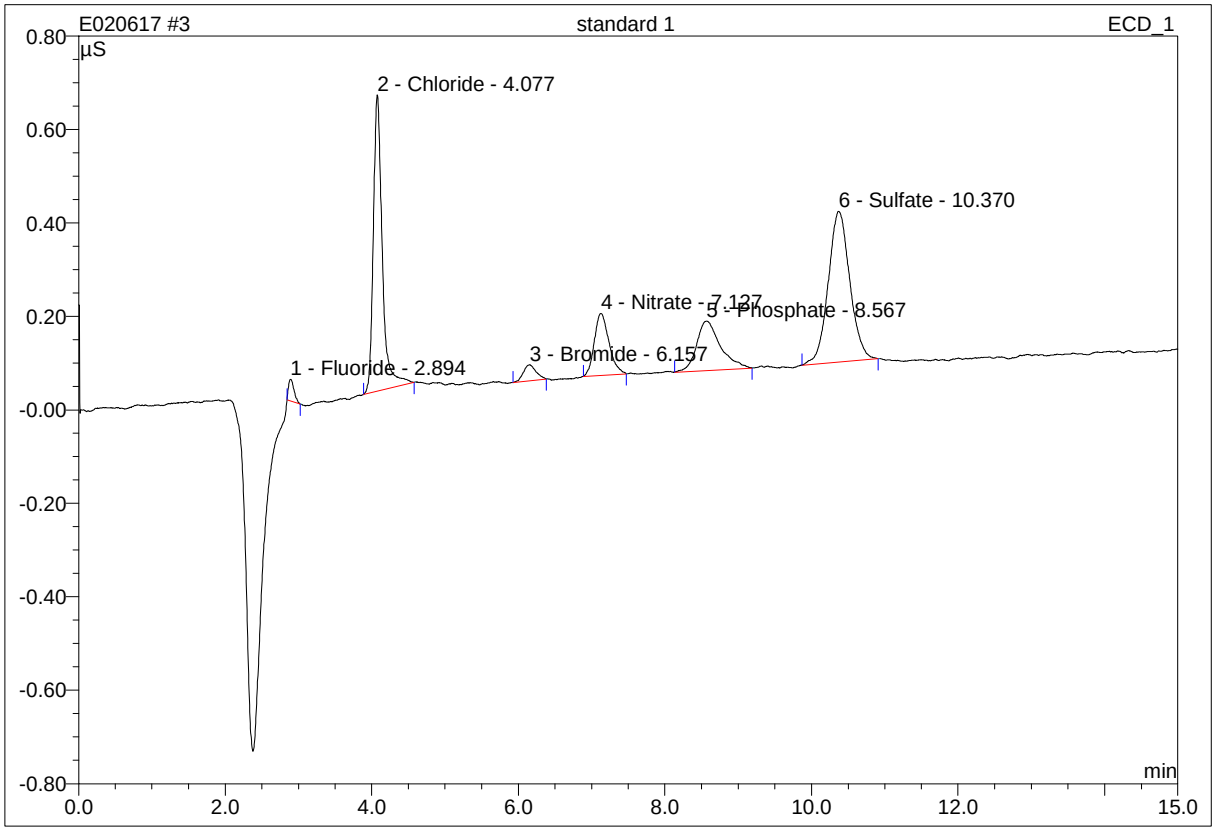
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: 02.06.17 15:03 By: OLH/EMW/JSW

* = Manual integrations due to peak, rider, or baseline errors.
B = Baseline with direct contact on the left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

3 standard 1

Sample Name:	**standard 1**	*Injection Volume:*	**20.0**
Vial Number:	**18**	*Channel:*	**IC5**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC5**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC5 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**2/6/2017 12:28**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.89	Fluoride	0.047	0.004	1.43	0.042	BMB
2	4.08	Chloride	0.634	0.090	31.96	0.539	BMB
3	6.16	Bromide	0.034	0.007	2.44	0.107	BMB
4	7.13	Nitrate	0.132	0.031	10.92	0.097	BMB
5	8.57	Phosphate	0.106	0.040	14.16	0.226	BMB
6	10.37	Sulfate	0.322	0.110	39.10	1.013	BMB
Total:			1.275	0.281	100.00	2.025	

modified on: n.a. By: OLH/EMW/JSW

* = Manual integrations due to peak, rider or baseline error.

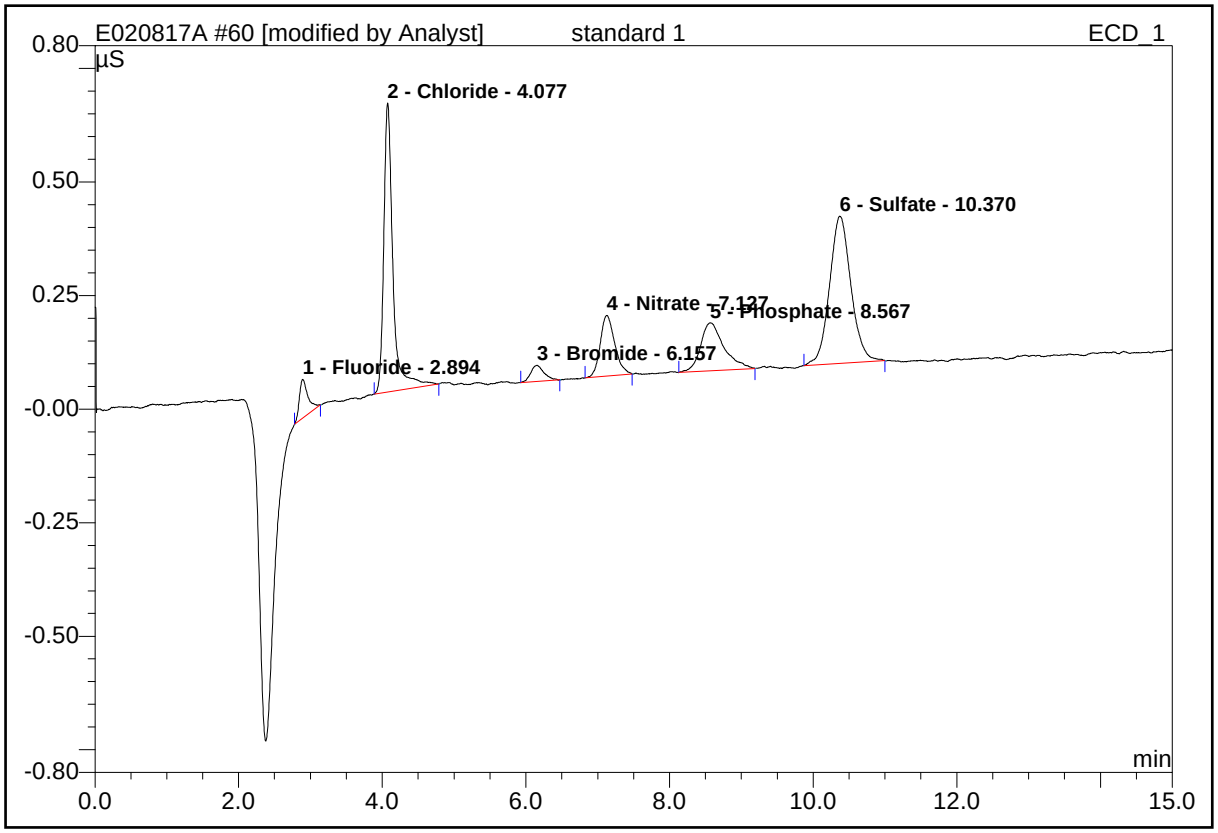
Chromeleon (c) Dionex 1996-2006
Version 6.80 SR15 Build 4656 (243203)

close up/Integration

B = Baseline with direct contact on the left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R= Rider
BMB = This peak type is for resolved peaks.

60 standard 1

Sample Name:	**standard 1**	*Injection Volume:*	**20.0**
Vial Number:	**18**	*Channel:*	**IC5**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC5**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC5 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**2/6/2017 12:28**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.89	Fluoride	0.085	0.012	3.94	0.049	BMB*
2	4.08	Chloride	0.636	0.094	31.74	0.545	BMB*
3	6.16	Bromide	0.036	0.008	2.56	0.111	BMB*
4	7.13	Nitrate	0.133	0.031	10.53	0.097	BMB*
5	8.57	Phosphate	0.106	0.040	13.44	0.226	BMB
6	10.37	Sulfate	0.324	0.112	37.79	1.020	BMB*
Total:			1.320	0.296	100.00	2.049	

modified on: 02.06.17 15:05 By: OLH/EMW/JSW

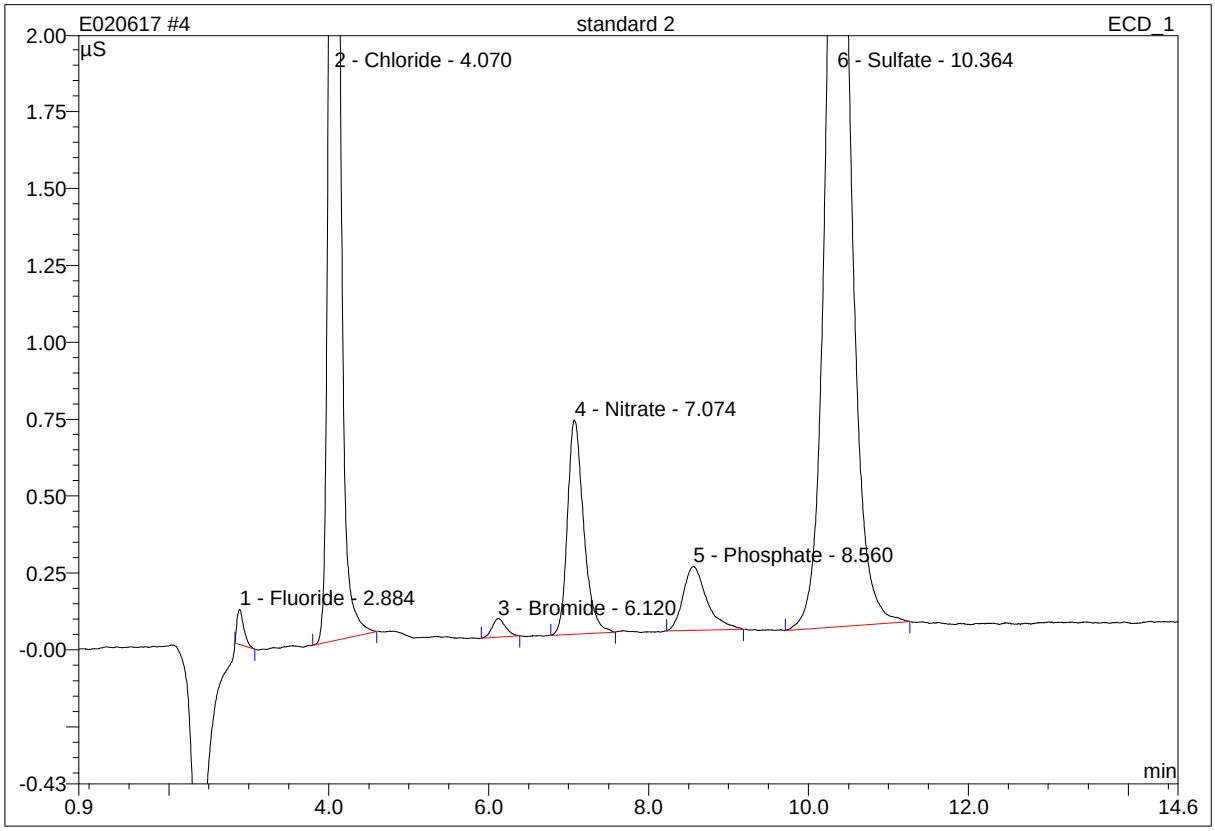
* = Manual integrations due to peak, rider, or baseline errors.

B = Baseline with direct contact on the left or right side of peak.

b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

4 standard 2

Sample Name:	**standard 2**	*Injection Volume:*	**20.0**
Vial Number:	**18**	*Channel:*	**IC5**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC5**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC5 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**2/6/2017 12:46**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.88	Fluoride	0.114	0.011	0.53	0.063	BMB
2	4.07	Chloride	5.702	0.764	35.90	3.778	BMB
3	6.12	Bromide	0.061	0.012	0.56	0.179	BMB
4	7.07	Nitrate	0.697	0.163	7.66	0.428	BMB
5	8.56	Phosphate	0.208	0.071	3.34	0.422	BMB
6	10.36	Sulfate	3.180	1.107	52.01	7.921	BMB
Total:			9.961	2.127	100.00	12.791	

modified on: n.a. By: OLH/EMW/JSW

* = Manual integrations due to peak, rider or baseline error.

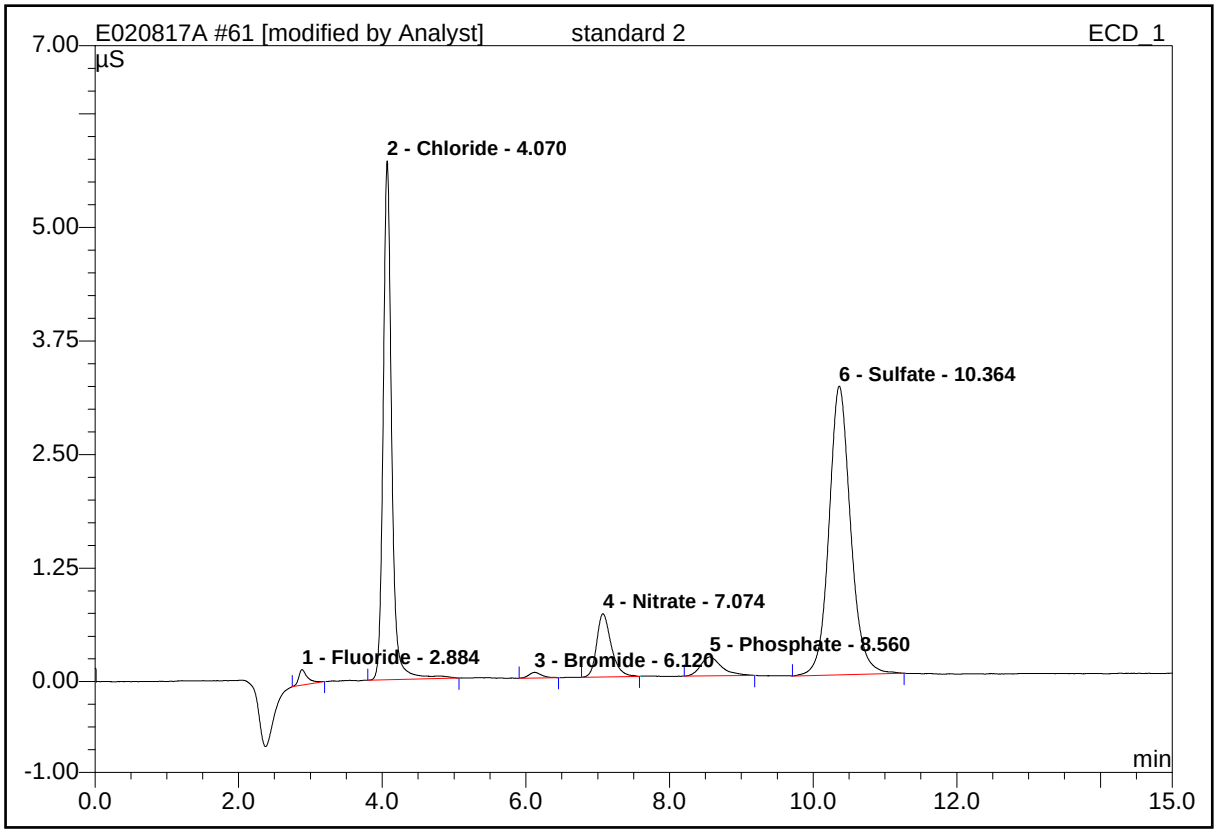
close up/Integration

Chromeleon (c) Dionex 1996-2006
Version 6.80 SR15 Build 4656 (243203)

B = Baseline with direct contact on the left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R= Rider
BMB = This peak type is for resolved peaks.

61 standard 2

Sample Name:	**standard 2**	*Injection Volume:*	**20.0**
Vial Number:	**18**	*Channel:*	**IC5**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC5**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC5 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**2/6/2017 12:46**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.88	Fluoride	0.170	0.024	1.11	0.101	BMB*
2	4.07	Chloride	5.712	0.785	36.30	3.868	BMB*
3	6.12	Bromide	0.062	0.013	0.59	0.190	BMB*
4	7.07	Nitrate	0.697	0.163	7.54	0.427	BMB
5	8.56	Phosphate	0.208	0.071	3.29	0.423	BMB*
6	10.36	Sulfate	3.180	1.107	51.17	7.908	BMB
Total:			10.029	2.162	100.00	12.917	

modified on: 02.06.17 15:04 By: OLH/EMW/JSW

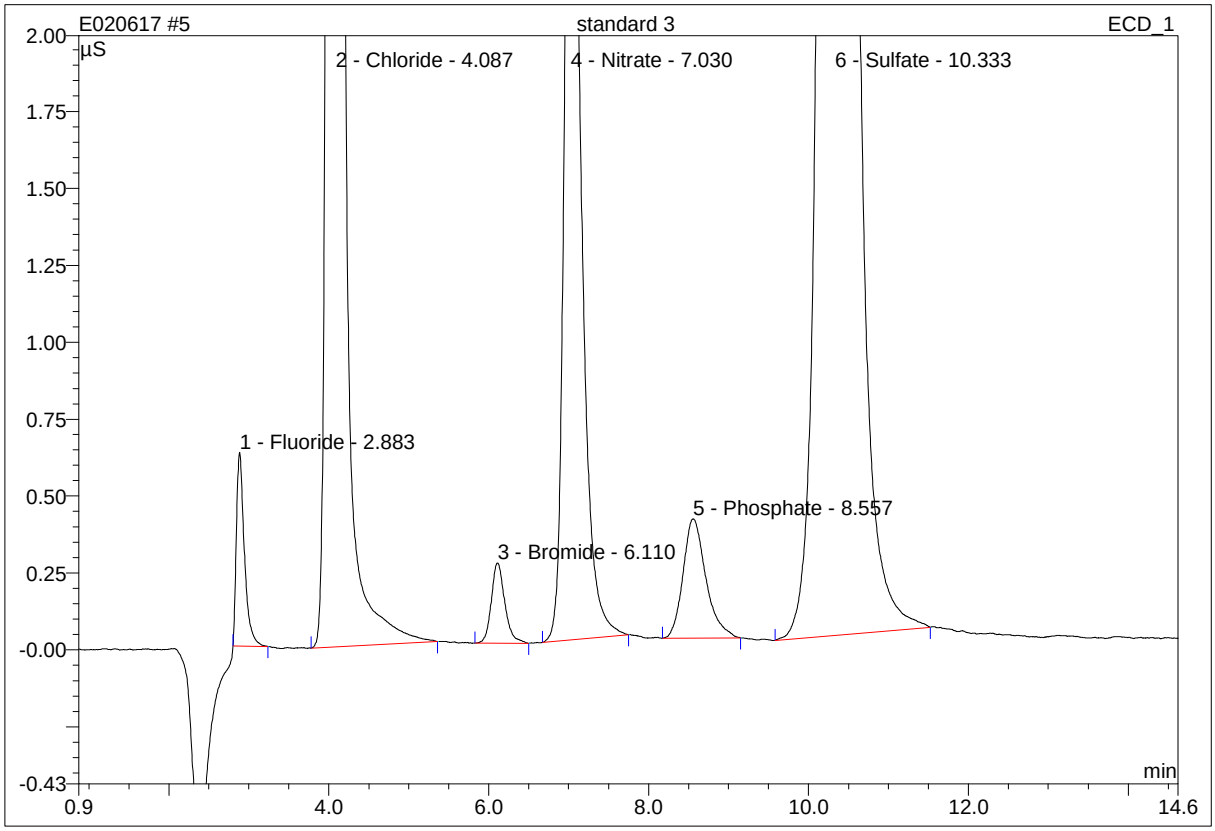
* = Manual integrations due to peak, rider, or baseline errors.

B = Baseline with direct contact on the left or right side of peak.

b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

5 standard 3

Sample Name:	**standard 3**	*Injection Volume:*	**20.0**
Vial Number:	**18**	*Channel:*	**IC5**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC5**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC5 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**2/6/2017 13:03**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.88	Fluoride	0.629	0.073	0.73	0.335	BMB
2	4.09	Chloride	26.607	3.759	37.56	17.924	BMB
3	6.11	Bromide	0.260	0.051	0.51	0.755	BMB
4	7.03	Nitrate	3.260	0.764	7.63	1.896	BMB
5	8.56	Phosphate	0.388	0.128	1.28	0.783	BMB
6	10.33	Sulfate	15.505	5.232	52.28	35.908	BMB
Total:			46.649	10.007	100.00	57.602	

modified on: n.a. By: OLH/EMW/JSW

* = Manual integrations due to peak, rider or baseline error.

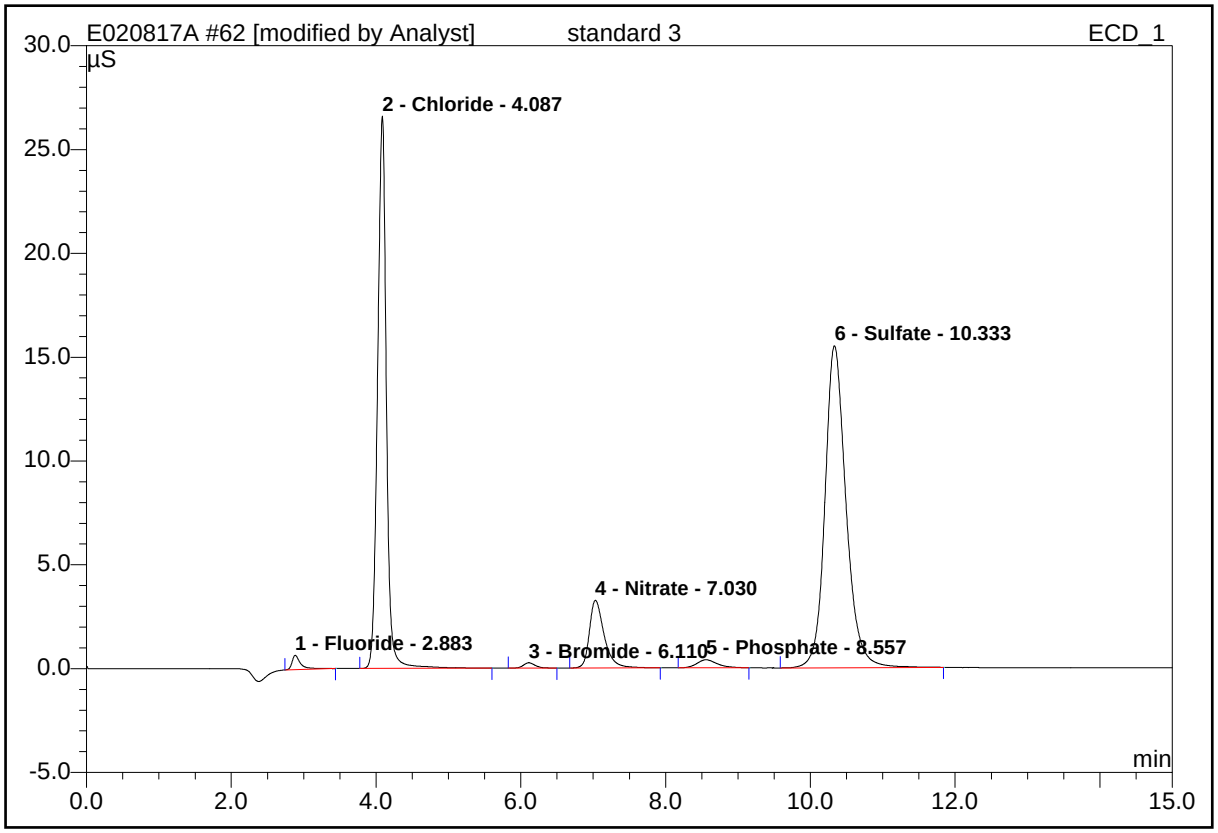
close up/Integration

Chromeleon (c) Dionex 1996-2006
Version 6.80 SR15 Build 4656 (243203)

B = Baseline with direct contact on the left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R= Rider
BMB = This peak type is for resolved peaks.

62 standard 3

Sample Name:	**standard 3**	*Injection Volume:*	**20.0**
Vial Number:	**18**	*Channel:*	**IC5**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC5**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC5 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**2/6/2017 13:03**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.88	Fluoride	0.688	0.096	0.96	0.405	BMB*
2	4.09	Chloride	26.608	3.765	37.41	17.936	BMB*
3	6.11	Bromide	0.260	0.051	0.51	0.762	BMB
4	7.03	Nitrate	3.264	0.771	7.67	1.911	BMB*
5	8.56	Phosphate	0.388	0.128	1.28	0.784	BMB
6	10.33	Sulfate	15.512	5.251	52.18	35.981	BMB*
Total:			46.719	10.063	100.00	57.779	

modified on: 02.06.17 15:04 By: OLH/EMW/JSW

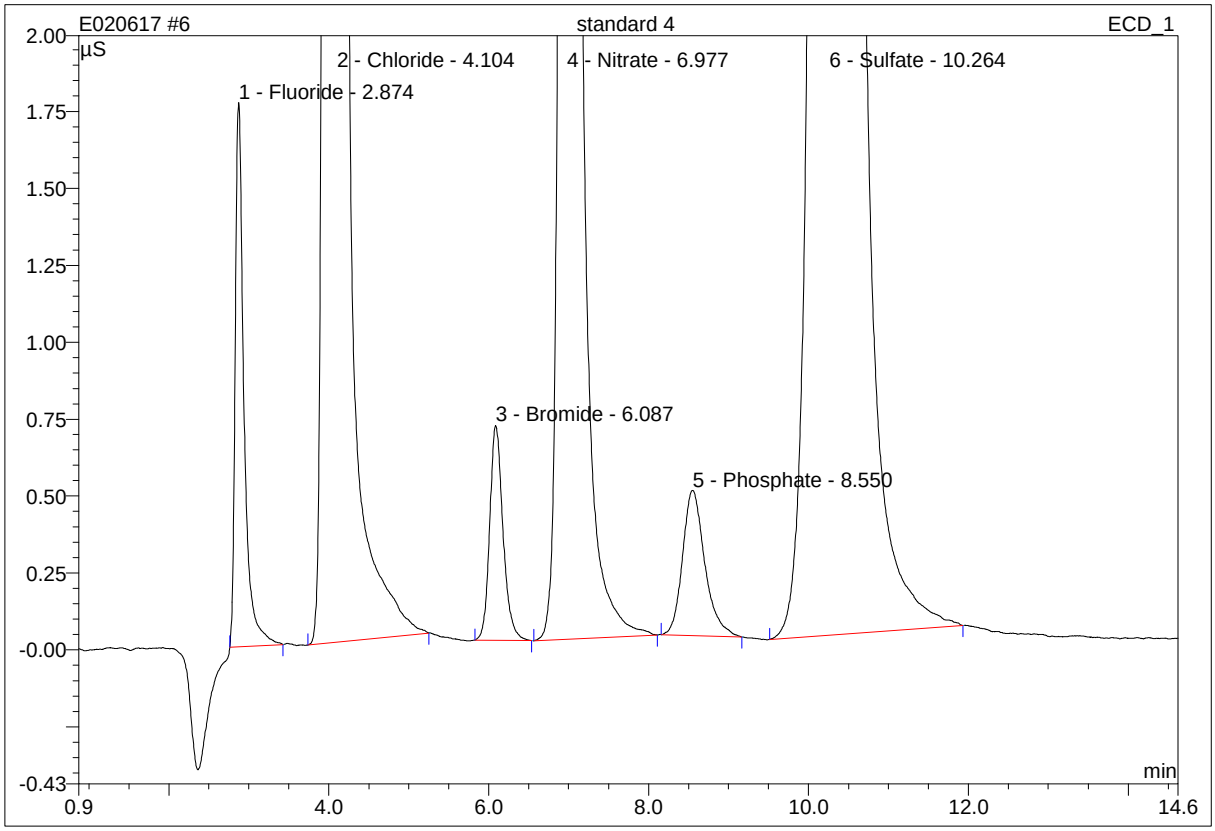
* = Manual integrations due to peak, rider, or baseline errors.

B = Baseline with direct contact on the left or right side of peak.

b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

6 standard 4

Sample Name:	**standard 4**	*Injection Volume:*	**20.0**
Vial Number:	**18**	*Channel:*	**IC5**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC5**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC5 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**2/6/2017 13:20**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.87	Fluoride	1.768	0.225	0.76	0.955	BMB
2	4.10	Chloride	66.932	11.293	38.15	51.791	BMB
3	6.09	Bromide	0.699	0.135	0.46	1.990	BMB
4	6.98	Nitrate	9.256	2.166	7.32	5.105	BMB
5	8.55	Phosphate	0.471	0.152	0.51	0.932	BMB
6	10.26	Sulfate	46.106	15.628	52.80	102.415	BMB
Total:			125.232	29.600	100.00	163.188	

modified on: n.a. By: OLH/EMW/JSW

* = Manual integrations due to peak, rider or baseline error.

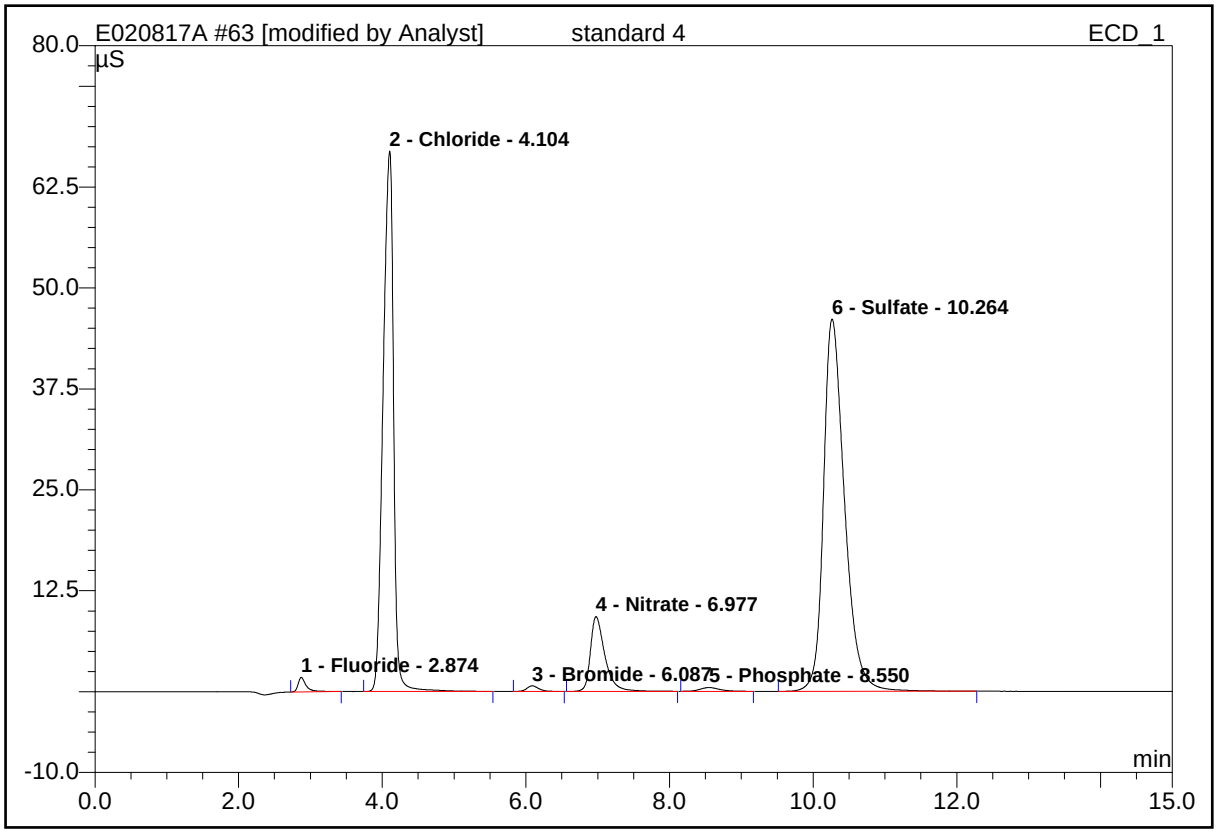
close up/Integration

Chromeleon (c) Dionex 1996-2006
Version 6.80 SR15 Build 4656 (243203)

B = Baseline with direct contact on the left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R= Rider
BMB = This peak type is for resolved peaks.

63 standard 4

Sample Name:	**standard 4**	*Injection Volume:*	**20.0**
Vial Number:	**18**	*Channel:*	**IC5**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC5**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC5 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**2/6/2017 13:20**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.87	Fluoride	1.800	0.238	0.80	0.992	BMB*
2	4.10	Chloride	66.937	11.312	38.14	51.869	BMB*
3	6.09	Bromide	0.699	0.135	0.46	2.018	BMB
4	6.98	Nitrate	9.256	2.166	7.30	5.109	BMB
5	8.55	Phosphate	0.471	0.152	0.51	0.934	BMB
6	10.26	Sulfate	46.113	15.659	52.79	102.533	BMB*
Total:			125.275	29.663	100.00	163.455	

modified on: 02.06.17 15:04 By: OLH/EMW/JSW

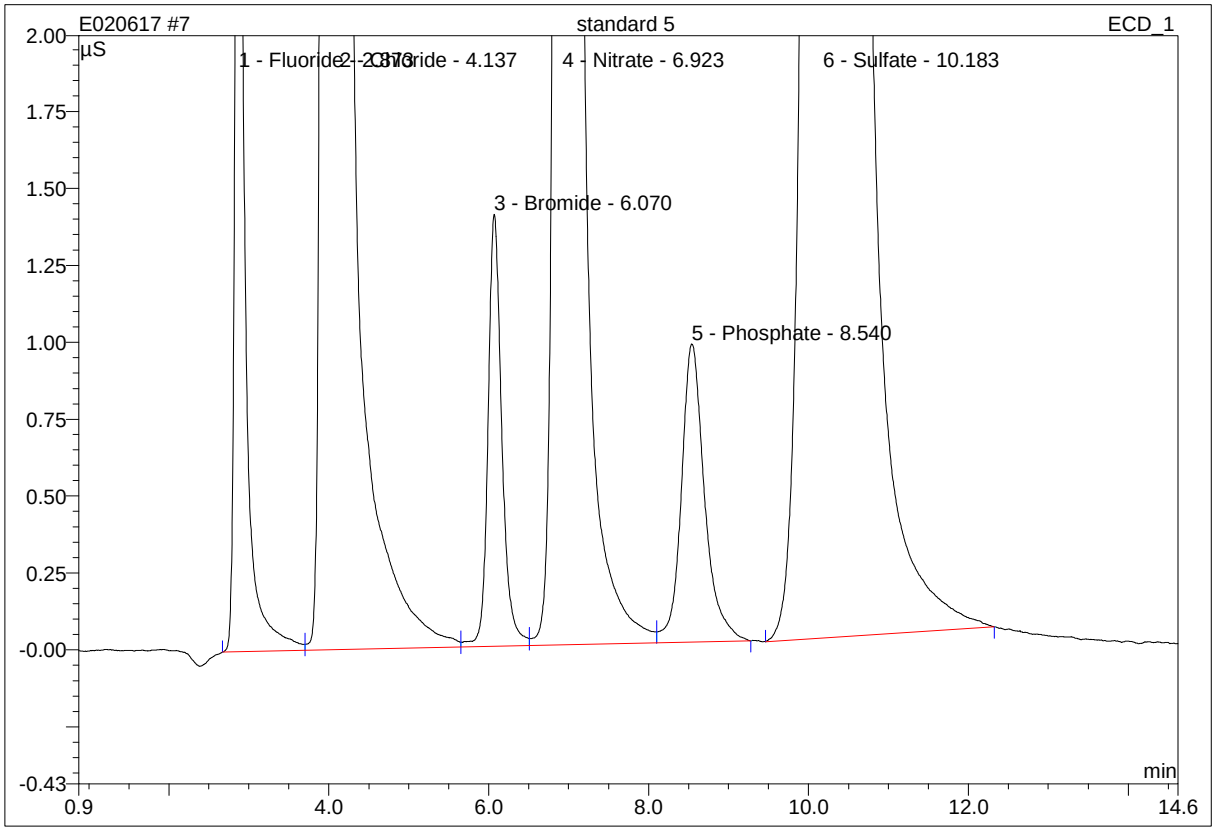
* = Manual integrations due to peak, rider, or baseline errors.

B = Baseline with direct contact on the left or right side of peak.

b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

7 standard 5

Sample Name:	**standard 5**	*Injection Volume:*	**20.0**
Vial Number:	**18**	*Channel:*	**IC5**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC5**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC5 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**2/6/2017 13:38**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.87	Fluoride	3.627	0.499	0.80	2.007	BM
2	4.14	Chloride	108.428	23.522	37.54	102.424	M
3	6.07	Bromide	1.404	0.282	0.45	4.091	M
4	6.92	Nitrate	19.731	4.582	7.31	10.109	M
5	8.54	Phosphate	0.969	0.327	0.52	2.040	MB
6	10.18	Sulfate	92.918	33.439	53.37	205.872	BMB
Total:			227.079	62.651	100.00	326.544	

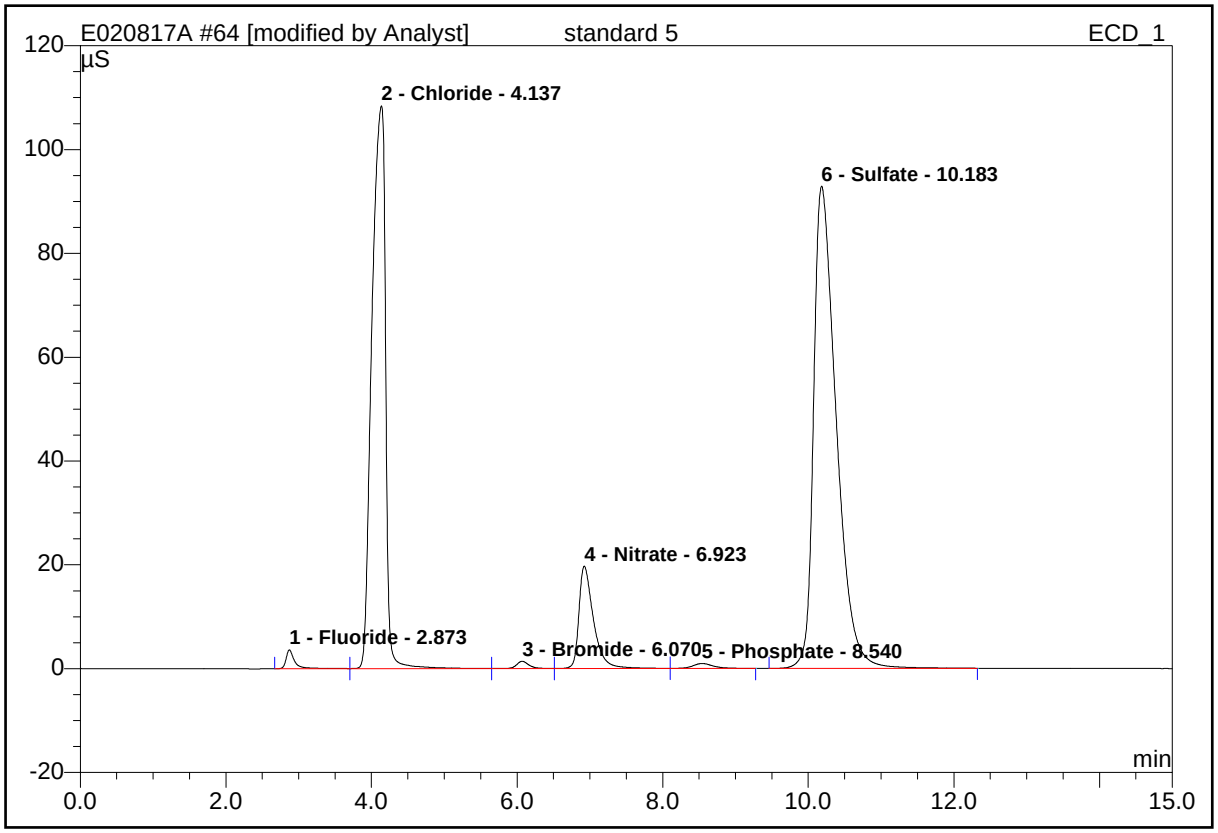
modified on: n.a. By: OLH/EMW/JSW

* = Manual integrations due to peak, rider or baseline error.

B = Baseline with direct contact on the left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R= Rider
BMB = This peak type is for resolved peaks.

64 standard 5

Sample Name:	**standard 5**	*Injection Volume:*	**20.0**
Vial Number:	**18**	*Channel:*	**IC5**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC5**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC5 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**2/6/2017 13:38**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.87	Fluoride	3.624	0.489	0.78	2.003	BMb*
2	4.14	Chloride	108.411	23.491	37.53	102.381	bM *
3	6.07	Bromide	1.393	0.273	0.44	4.038	M *
4	6.92	Nitrate	19.723	4.571	7.30	10.102	M *
5	8.54	Phosphate	0.967	0.325	0.52	2.034	MB*
6	10.18	Sulfate	92.918	33.439	53.43	205.849	BMB
Total:			227.036	62.588	100.00	326.407	

modified on: 02.06.17 15:05 By: OLH/EMW/JSW

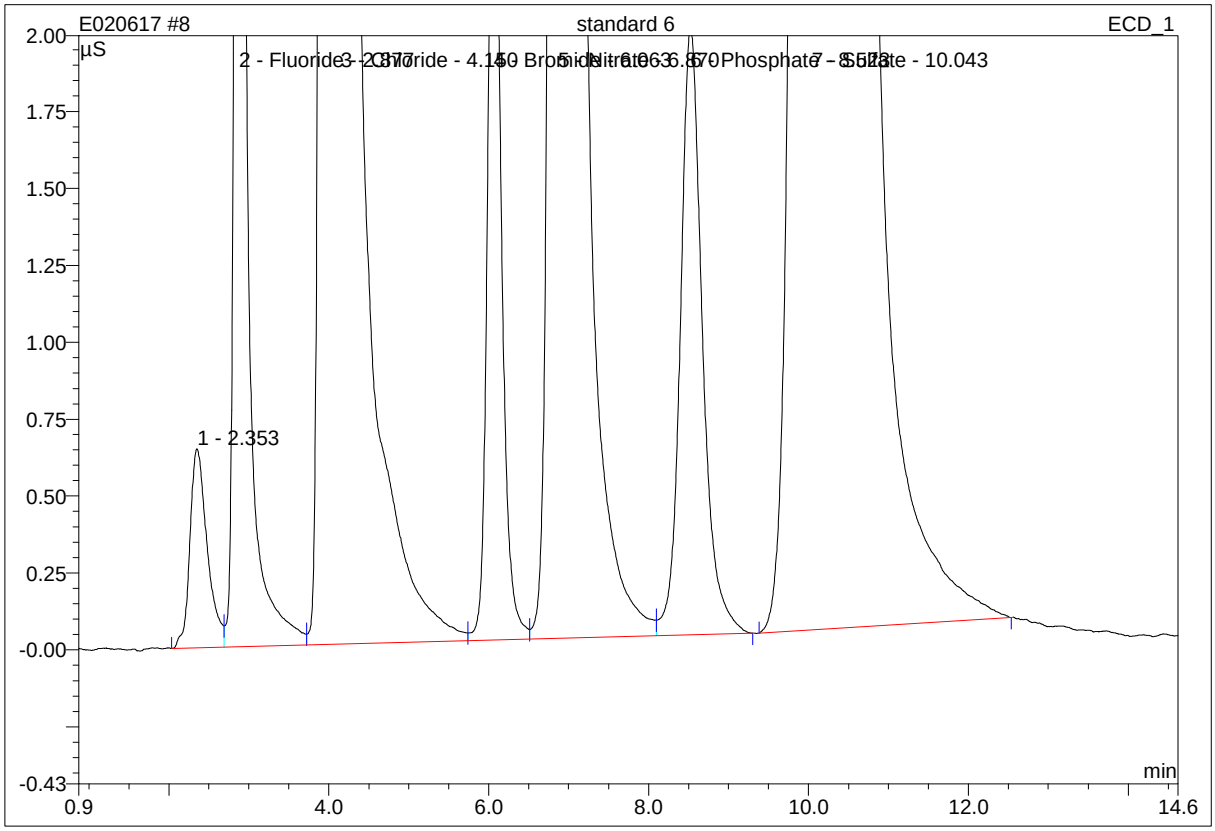
* = Manual integrations due to peak, rider, or baseline errors.

B = Baseline with direct contact on the left or right side of peak.

b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

8 standard 6

Sample Name:	**standard 6**	*Injection Volume:*	**20.0**
Vial Number:	**19**	*Channel:*	**IC5**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC5**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC5 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**2/6/2017 13:55**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.35	n.a.	0.646	0.163	0.12	n.a.	BM
2	2.88	Fluoride	7.402	1.050	0.78	4.007	M
3	4.15	Chloride	167.108	49.935	37.24	198.806	M
4	6.06	Bromide	2.897	0.564	0.42	7.992	M
5	6.87	Nitrate	43.322	10.151	7.57	19.947	M
6	8.52	Phosphate	1.971	0.632	0.47	4.001	MB
7	10.04	Sulfate	176.196	71.599	53.39	397.394	BMB
Total:			399.543	134.094	100.00	632.147	

modified on: n.a. By: OLH/EMW/JSW

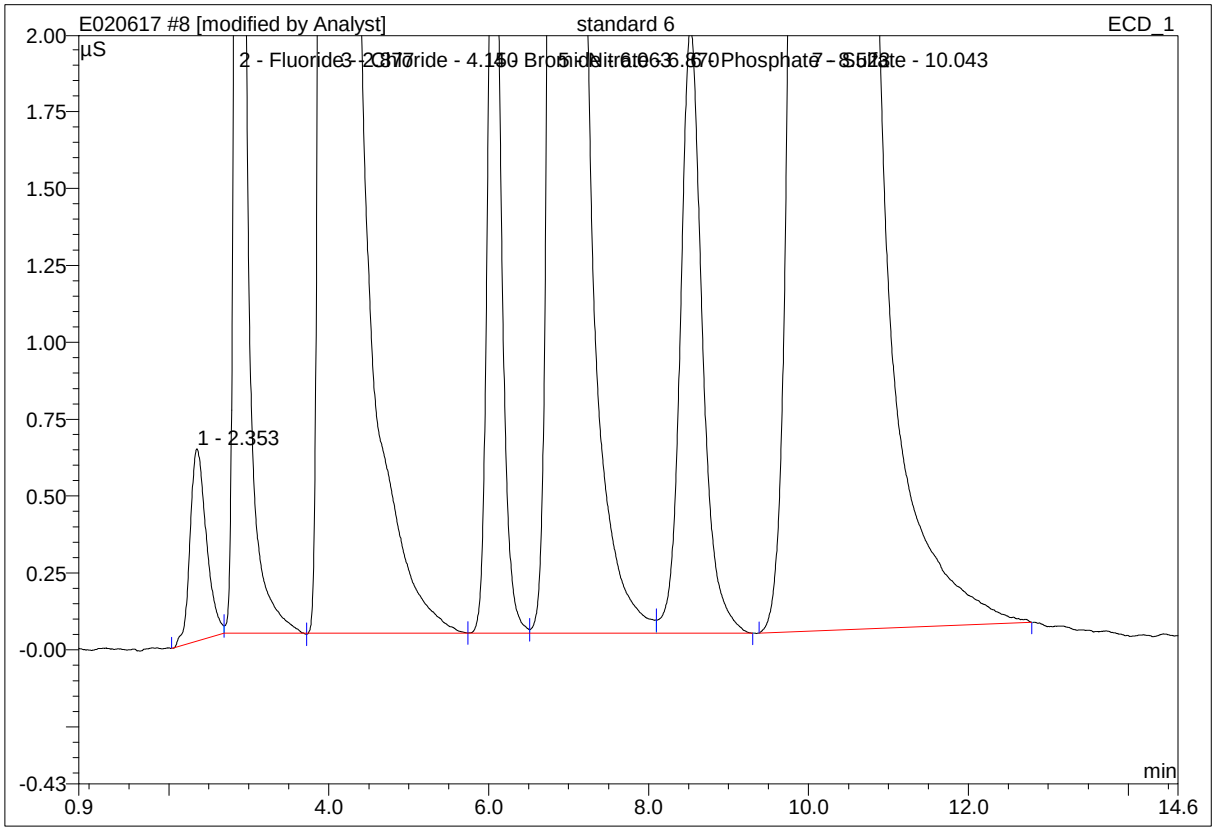
close up/Integration

Chromeleon (c) Dionex 1996-2006
Version 6.80 SR15 Build 4656 (243203)

* = Manual integrations due to peak, rider or baseline error.
B = Baseline with direct contact on the left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R= Rider
BMB = This peak type is for resolved peaks.

8 standard 6

Sample Name:	**standard 6**	*Injection Volume:*	**20.0**
Vial Number:	**19**	*Channel:*	**IC5**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC5**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC5 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**2/6/2017 13:55**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.35	n.a.	0.624	0.148	0.11	n.a.	BM *
2	2.88	Fluoride	7.358	1.007	0.75	4.000	M *
3	4.15	Chloride	167.073	49.872	37.23	198.792	M *
4	6.06	Bromide	2.875	0.547	0.41	7.981	M *
5	6.87	Nitrate	43.305	10.129	7.56	19.945	M *
6	8.52	Phosphate	1.966	0.627	0.47	3.999	MB*
7	10.04	Sulfate	176.200	71.631	53.47	397.403	BMB*
Total:			399.402	133.961	100.00	632.121	

modified on: 02.06.17 15:05 By: OLH/EMW/JSW

* = Manual integrations due to peak, rider or baseline error.
B = Baseline with direct contact on the left or right side of peak.
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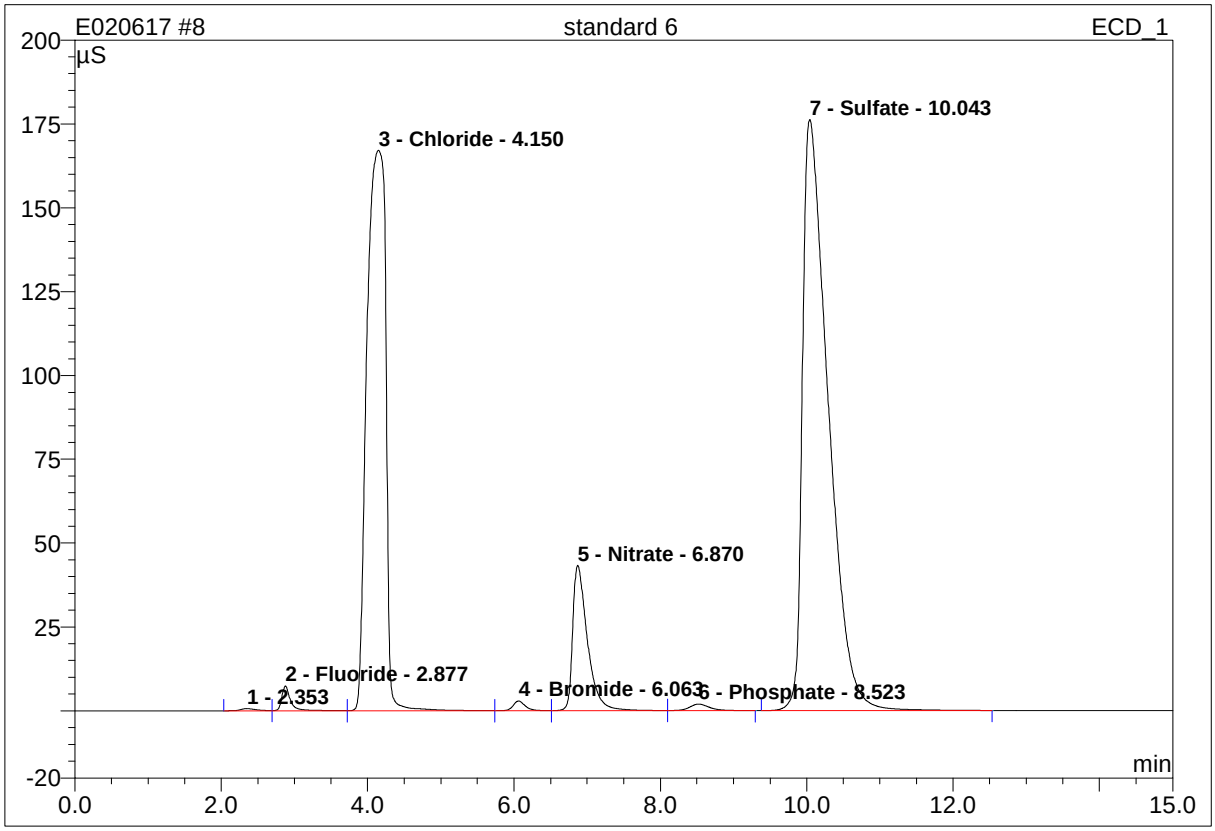
M = Main
R= Rider
BMB = This peak type is for resolved peaks.

8 standard 6

Sample Name:	**standard 6**	*Injection Volume:*	**20.0**
Vial Number:	**19**	*Channel:*	**IC5**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC5**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC5 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**2/6/2017 13:55**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.35	n.a.	0.646	0.163	0.12	n.a.	BM
2	2.88	Fluoride	7.402	1.050	0.78	3.962	M
3	4.15	Chloride	167.108	49.935	37.24	198.793	M
4	6.06	Bromide	2.897	0.564	0.42	7.961	M
5	6.87	Nitrate	43.322	10.151	7.57	19.940	M
6	8.52	Phosphate	1.971	0.632	0.47	3.997	MB
7	10.04	Sulfate	176.196	71.599	53.39	397.354	BMB
Total:			399.543	134.094	100.00	632.006	

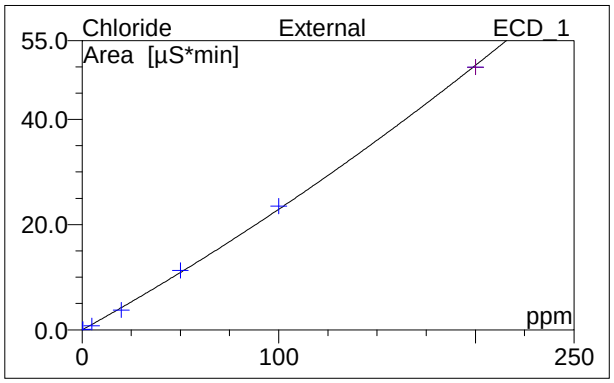
modified on: n.a. By: OLH/EMW/JSW

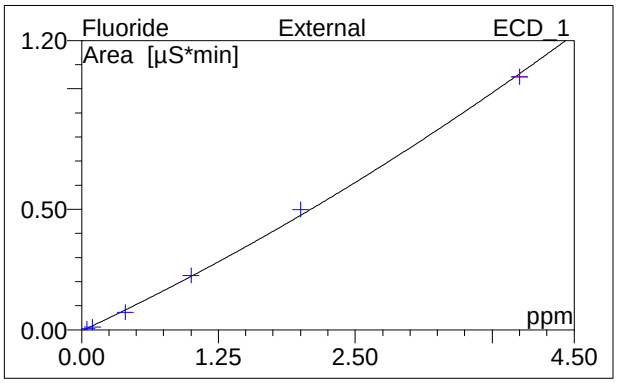
* = Manual integrations due to peak, rider, or baseline errors.

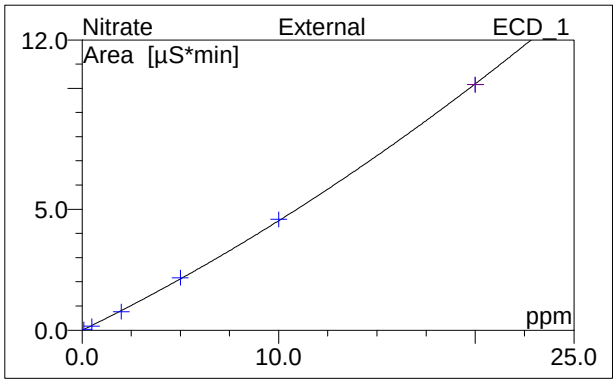
B = Baseline with direct contact on the left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

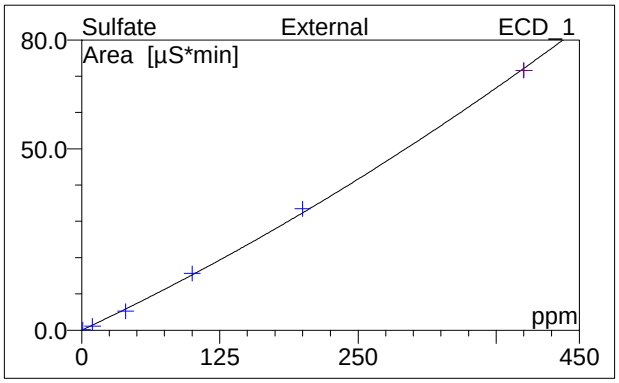
8 standard 6

Sample Name:	**standard 6**	*Injection Volume:*	**20.0**
Vial Number:	**19**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC5**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC5 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**2/6/2017 13:55**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**





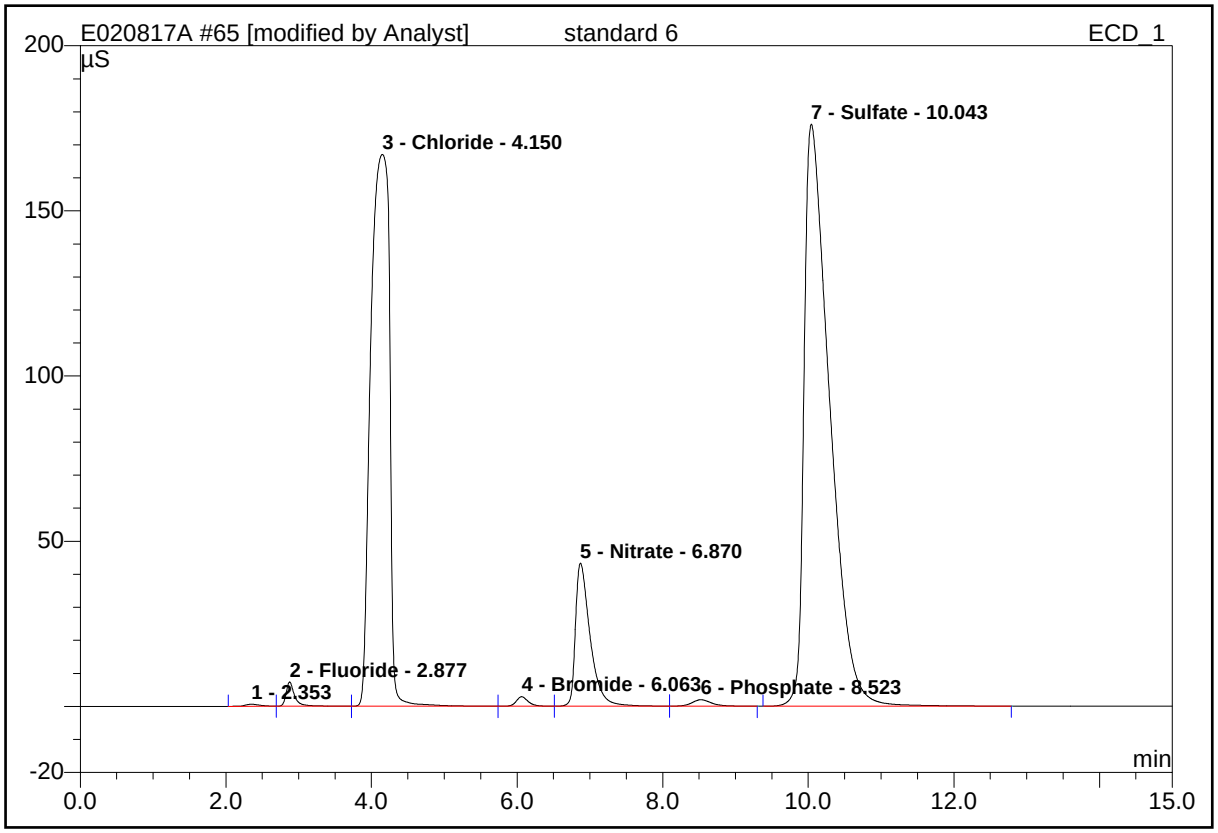




No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	2.35	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	2.88	Fluoride	XA0QOff	6	99.6835	-0.0049	0.2126	0.0135
3	4.15	Chloride	XA0QOff	7	99.8526	-0.0356	0.2073	0.0002
4	6.06	Bromide	XA0QOff	6	99.9545	-0.0003	0.0669	0.0005
5	6.87	Nitrate	XA0QOff	6	99.9500	-0.0077	0.3961	0.0057
6	8.52	Phosphate	XA0QOff	6	99.7808	0.0037	0.1598	-0.0007
7	10.04	Sulfate	XA0QOff	6	99.8682	-0.0355	0.1433	0.0001
Average:					99.8482	-0.0134	0.1977	0.0032

65 standard 6

Sample Name:	**standard 6**	*Injection Volume:*	**20.0**
Vial Number:	**19**	*Channel:*	**IC5**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC5**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC5 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**2/6/2017 13:55**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.35	n.a.	0.624	0.148	0.11	n.a.	BM *
2	2.88	Fluoride	7.358	1.007	0.75	4.000	M *
3	4.15	Chloride	167.073	49.872	37.23	198.792	M *
4	6.06	Bromide	2.875	0.547	0.41	7.981	M *
5	6.87	Nitrate	43.305	10.129	7.56	19.945	M *
6	8.52	Phosphate	1.966	0.627	0.47	3.999	MB*
7	10.04	Sulfate	176.200	71.631	53.47	397.403	BMB*
Total:			399.402	133.961	100.00	632.121	

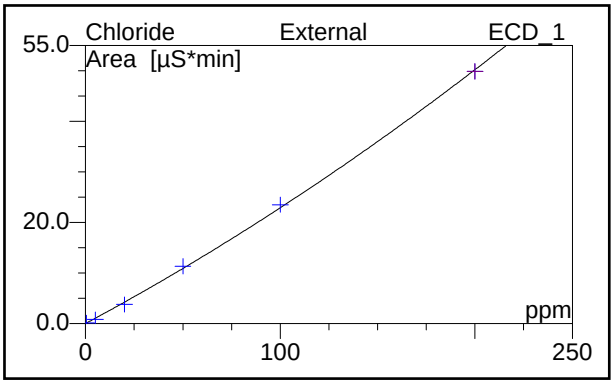
modified on: 02.06.17 15:05 By: OLH/EMW/JSW

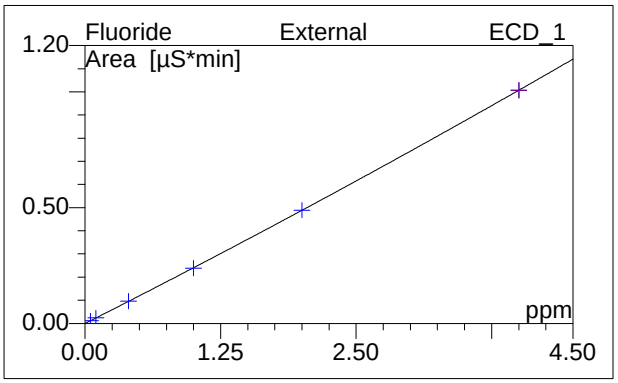
* = Manual integrations due to peak, rider, or baseline errors.

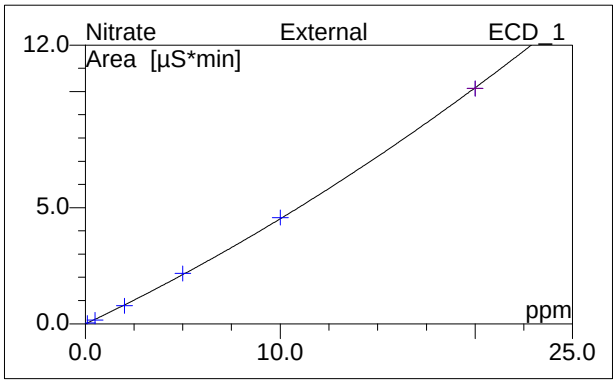
B = Baseline with direct contact on the left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

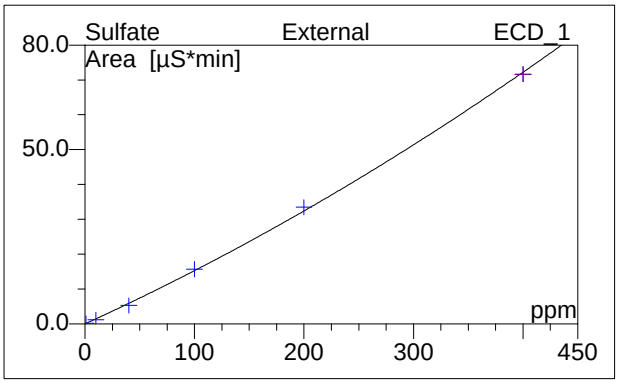
65 standard 6

Sample Name:	**standard 6**	*Injection Volume:*	**20.0**
Vial Number:	**19**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC5**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC5 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**2/6/2017 13:55**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**









No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	2.35	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	2.88	Fluoride	XA0QOff	6	99.9980	0.0000	0.2366	0.0038
3	4.15	Chloride	XA0QOff	6	99.8577	-0.0190	0.2070	0.0002
4	6.06	Bromide	XA0QOff	6	99.9702	0.0002	0.0663	0.0003
5	6.87	Nitrate	XA0QOff	6	99.9541	-0.0075	0.3969	0.0056
6	8.52	Phosphate	XA0QOff	6	99.7856	0.0038	0.1598	-0.0010
7	10.04	Sulfate	XA0QOff	6	99.8703	-0.0347	0.1436	0.0001
Average:					99.9060	-0.0095	0.2017	0.0015

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Phone: 661-327-4911

SDG: **17-03197**
Class: **WET**
Method: **EPA-310.1**

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSES DATA PACKAGE COVER PAGE

EPA-310.1

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
27EW-12_170203	1703197-02
SMLS-01_170203	1703197-11
SMLS-07_170203	1703197-12
26MW08_170203	1703197-13
26MW03_170203	1703197-25
26PZ01_170203	1703197-26
26PZ03_170203	1703197-27
27MW06_170203	1703197-28

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Sara Guron
Name: Sara Guron

Date: 03-07-2017
Title: QA/QC Manager

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD DETECTION AND REPORTING LIMITS

EPA-310.1

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Instrument: MET-1

Analyte	DL	LOD	LOQ	Units
Total Alkalinity as CaCO3	4.1	4.1	4.1	mg/L

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-310.1

27EW-12_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-02
File ID: Tiamo020617-115
Sampled: 02/03/17 09:55
Prepared: 02/06/17 09:00
Analyzed: 02/06/17 20:31
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[B0493
Sequence: 1702087
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	540	8.2	8.2	8.2	2	D	EPA-310.1

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-310.1

SMLS-01_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-11
File ID: Tiamo020617-117
Sampled: 02/03/17 08:55
Prepared: 02/06/17 09:00
Analyzed: 02/06/17 20:41
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[B0493
Sequence: 1702087
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	670	8.2	8.2	8.2	2	D	EPA-310.1

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-310.1

SMLS-07_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-12
File ID: Tiamo020617-119
Sampled: 02/03/17 08:09
Prepared: 02/06/17 09:00
Analyzed: 02/06/17 20:50
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[B0493
Sequence: 1702087
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	410	8.2	8.2	8.2	2	D	EPA-310.1

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-310.1

26MW08_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-13
File ID: Tiamo020617-121
Sampled: 02/03/17 11:25
Prepared: 02/06/17 09:00
Analyzed: 02/06/17 20:59
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[B0493
Sequence: 1702087
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	640	8.2	8.2	8.2	2	D	EPA-310.1

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-310.1

26MW03_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-25
File ID: Tiamo020617-123
Sampled: 02/03/17 12:30
Prepared: 02/06/17 09:00
Analyzed: 02/06/17 21:08
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[B0493
Sequence: 1702087
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	340	8.2	8.2	8.2	2	D	EPA-310.1

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-310.1

26PZ01_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-26
File ID: Tiamo020617-104
Sampled: 02/03/17 13:36
Prepared: 02/06/17 09:00
Analyzed: 02/06/17 19:41
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[B0493
Sequence: 1702087
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	660	8.2	8.2	8.2	2	D	EPA-310.1

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-310.1

26PZ03_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-27
File ID: Tiamo020717-019
Sampled: 02/03/17 13:01
Prepared: 02/07/17 08:00
Analyzed: 02/07/17 10:34
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[B0494
Sequence: 1702231
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	1500	8.2	8.2	8.2	2	D	EPA-310.1

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-310.1

27MW06_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-28
File ID: Tiamo020717-017
Sampled: 02/03/17 13:24
Prepared: 02/07/17 08:00
Analyzed: 02/07/17 10:26
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[B0494
Sequence: 1702231
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	100	4.1	4.1	4.1	1		EPA-310.1

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

PREPARATION BATCH SUMMARY

EPA-310.1

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Batch: B[B0493
Batch Matrix: Water
Preparation: No Prep

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
27EW-12_170203	1703197-02	Tiamo020617-115	02/06/17 09:00	
SMLS-01_170203	1703197-11	Tiamo020617-117	02/06/17 09:00	
SMLS-07_170203	1703197-12	Tiamo020617-119	02/06/17 09:00	
26MW08_170203	1703197-13	Tiamo020617-121	02/06/17 09:00	
26MW03_170203	1703197-25	Tiamo020617-123	02/06/17 09:00	
26PZ01_170203	1703197-26	Tiamo020617-104	02/06/17 09:00	
Blank	B[B0493-BLK1	Tiamo020617-103	02/06/17 09:00	
LCS	B[B0493-BS3	Tiamo020617-102	02/06/17 09:00	
26PZ01_170203	B[B0493-DUP1	Tiamo020617-105	02/06/17 09:00	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

PREPARATION BATCH SUMMARY

EPA-310.1

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Batch: B[B0494
Batch Matrix: Water
Preparation: No Prep

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
26PZ03_170203	1703197-27	Tiamo020717-019	02/07/17 08:00	
27MW06_170203	1703197-28	Tiamo020717-017	02/07/17 08:00	
Blank	B[B0494-BLK1	Tiamo020717-007	02/07/17 08:00	
LCS	B[B0494-BS3	Tiamo020717-006	02/07/17 08:00	
Duplicate	B[B0494-DUP1	Tiamo020717-010	02/07/17 08:00	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-310.1

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[B0493-BLK1	File ID:	Tiamo020617-103
Prepared:	02/06/17 09:00	Preparation:	No Prep	Initial/Final:	50 ml / 50 ml
Analyzed:	02/06/17 19:36	Instrument:	MET-1		
Batch:	B[B0493	Sequence:	1702087	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
---	Total Alkalinity as CaCO3	4.1	4.1	4.1	4.1	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-310.1

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[B0494-BLK1	File ID:	Tiamo020717-007
Prepared:	02/07/17 08:00	Preparation:	No Prep	Initial/Final:	50 ml / 50 ml
Analyzed:	02/07/17 08:46	Instrument:	MET-1		
Batch:	B[B0494	Sequence:	1702231	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
---	Total Alkalinity as CaCO3	4.1	4.1	4.1	4.1	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

26PZ01_170203

DUPLICATES

EPA-310.1

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Matrix: Water
Batch: B[B0493
Preparation: No Prep
Source Sample Name: 26PZ01_170203

SDG: 17-03197
Project: Alameda
Laboratory ID: B[B0493-DUP1
Lab Source ID: 1703197-26
Initial/Final: 50 ml / 50 ml
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Total Alkalinity as CaCO3	10	663.91		663.30		0.0919		EPA-310.1

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

Duplicate

DUPLICATES

EPA-310.1

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Matrix: Water
Batch: B[B0494
Preparation: No Prep
Source Sample Name: Duplicate

SDG: 17-03197
Project: Alameda
Laboratory ID: B[B0494-DUP1
Lab Source ID: 1702866-01
Initial/Final: 50 ml / 50 ml
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Total Alkalinity as CaCO3	10	13.840		14.000		1.15		EPA-310.1

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-310.1

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0493
Laboratory ID: B[B0493-BS3
Preparation: No Prep
Initial/Final: 50 ml / 50 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Total Alkalinity as CaCO3	100.00	101.32	101	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-310.1

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Matrix:	Water		
Batch:	B[B0494	Laboratory ID:	B[B0494-BS3
Preparation:	No Prep	Initial/Final:	50 ml / 50 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Total Alkalinity as CaCO3	100.00	105.43	105	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-310.1

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Sequence:	1702087	Instrument:	MET-1
Matrix:	Water	Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	B[B0493-BS3	Tiamo020617-102	02/06/17 19:29
Blank	B[B0493-BLK1	Tiamo020617-103	02/06/17 19:36
26PZ01_170203	1703197-26	Tiamo020617-104	02/06/17 19:41
26PZ01_170203	B[B0493-DUP1	Tiamo020617-105	02/06/17 19:50
27EW-12_170203	1703197-02	Tiamo020617-115	02/06/17 20:31
SMLS-01_170203	1703197-11	Tiamo020617-117	02/06/17 20:41
SMLS-07_170203	1703197-12	Tiamo020617-119	02/06/17 20:50
26MW08_170203	1703197-13	Tiamo020617-121	02/06/17 20:59
26MW03_170203	1703197-25	Tiamo020617-123	02/06/17 21:08

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-310.1

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Sequence:	1702231	Instrument:	MET-1
Matrix:	Water	Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	B[B0494-BS3	Tiamo020717-006	02/07/17 08:39
Blank	B[B0494-BLK1	Tiamo020717-007	02/07/17 08:46
Duplicate	B[B0494-DUP1	Tiamo020717-010	02/07/17 09:45
27MW06_170203	1703197-28	Tiamo020717-017	02/07/17 10:26
26PZ03_170203	1703197-27	Tiamo020717-019	02/07/17 10:34

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

HOLDING TIME SUMMARY
EPA-310.1

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
27EW-12_170203	02/03/17 09:55	02/03/17 20:08	02/06/17 09:00	3.00	14.00	02/06/17 20:31	3.00	14.00	
SMLS-01_170203	02/03/17 08:55	02/03/17 20:08	02/06/17 09:00	3.00	14.00	02/06/17 20:41	3.00	14.00	
SMLS-07_170203	02/03/17 08:09	02/03/17 20:08	02/06/17 09:00	3.00	14.00	02/06/17 20:50	3.00	14.00	
26MW08_170203	02/03/17 11:25	02/03/17 20:08	02/06/17 09:00	3.00	14.00	02/06/17 20:59	3.00	14.00	
26MW03_170203	02/03/17 12:30	02/03/17 20:08	02/06/17 09:00	3.00	14.00	02/06/17 21:08	3.00	14.00	
26PZ01_170203	02/03/17 13:36	02/03/17 20:08	02/06/17 09:00	3.00	14.00	02/06/17 19:41	3.00	14.00	
26PZ03_170203	02/03/17 13:01	02/03/17 20:08	02/07/17 08:00	4.00	14.00	02/07/17 10:34	4.00	14.00	
27MW06_170203	02/03/17 13:24	02/03/17 20:08	02/07/17 08:00	4.00	14.00	02/07/17 10:26	4.00	14.00	

* Holding time not met

Note: If Prep or Analysis are performed within the hour (if holding time is based on hours) or within the day (if holding time is based on days), then the sample is not flagged as outside holding times. Calculated number of days are based on date received or date prepared depending on the test.

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Phone: 661-327-4911

SDG: **17-03197**
Class: **WET**
Method: **EPA-353.2**

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSES DATA PACKAGE COVER PAGE

EPA-353.2

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
27EW-12_170203	1703197-02
SMLS-01_170203	1703197-11
SMLS-07_170203	1703197-12
26MW08_170203	1703197-13
26MW03_170203	1703197-25
26PZ01_170203	1703197-26
26PZ03_170203	1703197-27
27MW06_170203	1703197-28

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Sara Guron
Name: Sara Guron

Date: 03-07-2017
Title: QA/QC Manager

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD DETECTION AND REPORTING LIMITS

EPA-353.2

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Instrument: KONE-1

Analyte	DL	LOD	LOQ	Units
Nitrite as N	0.01	0.03	0.05	mg/L
Nitrite as NO2	0.04	0.1	0.17	mg/L

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

27EW-12_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-02
File ID: 170203 2241 NO2-005
Sampled: 02/03/17 09:55
Prepared: 02/03/17 22:41
Analyzed: 02/03/17 22:41
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[B0478
Sequence: 1702355
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	1	U	EPA-353.2

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

SMLS-01_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-11
File ID: 170203 2241 NO2-006
Sampled: 02/03/17 08:55
Prepared: 02/03/17 22:41
Analyzed: 02/03/17 22:41
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[B0478
Sequence: 1702355
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	1	U	EPA-353.2

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

SMLS-07_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-12
File ID: 170203 2241 NO2-007
Sampled: 02/03/17 08:09
Prepared: 02/03/17 22:41
Analyzed: 02/03/17 22:41
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[B0478
Sequence: 1702355
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	1	U	EPA-353.2

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

26MW08_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-13
File ID: 170203 2241 NO2-008
Sampled: 02/03/17 11:25
Prepared: 02/03/17 22:41
Analyzed: 02/03/17 22:41
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[B0478
Sequence: 1702355
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	1	U	EPA-353.2

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

26MW03_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-25
File ID: 170203 2241 NO2-009
Sampled: 02/03/17 12:30
Prepared: 02/03/17 22:41
Analyzed: 02/03/17 22:41
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[B0478
Sequence: 1702355
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	1	U	EPA-353.2

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

26PZ01_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-26
File ID: 170203 2241 NO2-010
Sampled: 02/03/17 13:36
Prepared: 02/03/17 22:41
Analyzed: 02/03/17 22:41
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[B0478
Sequence: 1702355
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	1	U	EPA-353.2

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

26PZ03_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-27
File ID: 170203 2241 NO2-016
Sampled: 02/03/17 13:01
Prepared: 02/03/17 22:41
Analyzed: 02/03/17 22:44
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[B0478
Sequence: 1702355
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	1	U	EPA-353.2

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

27MW06_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-28
File ID: 170203 2241 NO2-027
Sampled: 02/03/17 13:24
Prepared: 02/03/17 22:41
Analyzed: 02/03/17 23:15
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[B0478
Sequence: 1702355
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	1	U	EPA-353.2

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

PREPARATION BATCH SUMMARY

EPA-353.2

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Batch: B[B0478
Batch Matrix: Water
Preparation: No Prep

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
27EW-12_170203	1703197-02	170203 2241 NO2-005	02/03/17 22:41	
SMLS-01_170203	1703197-11	170203 2241 NO2-006	02/03/17 22:41	
SMLS-07_170203	1703197-12	170203 2241 NO2-007	02/03/17 22:41	
26MW08_170203	1703197-13	170203 2241 NO2-008	02/03/17 22:41	
26MW03_170203	1703197-25	170203 2241 NO2-009	02/03/17 22:41	
26PZ01_170203	1703197-26	170203 2241 NO2-010	02/03/17 22:41	
26PZ03_170203	1703197-27	170203 2241 NO2-016	02/03/17 22:41	
27MW06_170203	1703197-28	170203 2241 NO2-027	02/03/17 22:41	
Blank	B[B0478-BLK1	170203 2241 NO2-003	02/03/17 22:41	
LCS	B[B0478-BS1	170203 2241 NO2-004	02/03/17 22:41	
26PZ01_170203	B[B0478-DUP1	170203 2241 NO2-011	02/03/17 22:41	
26PZ01_170203	B[B0478-MS1	170203 2241 NO2-012	02/03/17 22:41	
26PZ01_170203	B[B0478-MSD1	170203 2241 NO2-015	02/03/17 22:41	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-353.2

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[B0478-BLK1	File ID:	170203 2241 NO2-003
Prepared:	02/03/17 22:41	Preparation:	No Prep	Initial/Final:	20 ml / 20 ml
Analyzed:	02/03/17 22:41	Instrument:	KONE-1		
Batch:	B[B0478	Sequence:	1702355	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
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Project Manager: Kelli Miller

26PZ01_170203

DUPLICATES
EPA-353.2

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Matrix: Water
Batch: B[B0478
Preparation: No Prep
Source Sample Name: 26PZ01_170203

SDG: 17-03197
Project: Alameda
Laboratory ID: B[B0478-DUP1
Lab Source ID: 1703197-26
Initial/Final: 20 ml / 20 ml
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Nitrite as N	10	0.013682		0.013427		1.88		EPA-353.2
Nitrite as NO2	10	0.044939		0.044101		1.88		EPA-353.2

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-353.2

26PZ01_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0478
Laboratory ID: B[B0478-MS1
Preparation: No Prep
Initial/Final: 19 ml / 20 ml
Source Sample Number: 1703197-26

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC. #	QC LIMITS REC.
Nitrite as N	0.52632	0.013682	0.53734	99.5	90 - 110
Nitrite as NO2	1.7289	0.044939	1.7649	99.5	90 - 110

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Nitrite as N	0.52632	0.54598	101	1.59	10	90 - 110
Nitrite as NO2	1.7289	1.7933	101	1.59	10	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-353.2

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0478
Laboratory ID: B[B0478-BS1
Preparation: No Prep
Initial/Final: 20 ml / 20 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Nitrite as N	0.50000	0.49285	98.6	90 - 110
Nitrite as NO2	1.6425	1.6188	98.6	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-353.2

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Sequence:	1702355	Instrument:	KONE-1
Matrix:	Water	Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1702355-CCV1	170203 2241 NO2-001	02/03/17 22:41
Calibration Blank	1702355-CCB1	170203 2241 NO2-002	02/03/17 22:41
Blank	B[B0478-BLK1	170203 2241 NO2-003	02/03/17 22:41
LCS	B[B0478-BS1	170203 2241 NO2-004	02/03/17 22:41
27EW-12_170203	1703197-02	170203 2241 NO2-005	02/03/17 22:41
SMLS-01_170203	1703197-11	170203 2241 NO2-006	02/03/17 22:41
SMLS-07_170203	1703197-12	170203 2241 NO2-007	02/03/17 22:41
26MW08_170203	1703197-13	170203 2241 NO2-008	02/03/17 22:41
26MW03_170203	1703197-25	170203 2241 NO2-009	02/03/17 22:41
26PZ01_170203	1703197-26	170203 2241 NO2-010	02/03/17 22:41
26PZ01_170203	B[B0478-DUP1	170203 2241 NO2-011	02/03/17 22:41
26PZ01_170203	B[B0478-MS1	170203 2241 NO2-012	02/03/17 22:41
Calibration Check	1702355-CCV2	170203 2241 NO2-013	02/03/17 22:44
Calibration Blank	1702355-CCB2	170203 2241 NO2-014	02/03/17 22:44
26PZ01_170203	B[B0478-MSD1	170203 2241 NO2-015	02/03/17 22:44
26PZ03_170203	1703197-27	170203 2241 NO2-016	02/03/17 22:44
Calibration Check	1702355-CCV3	170203 2241 NO2-018	02/03/17 22:47
Calibration Blank	1702355-CCB3	170203 2241 NO2-019	02/03/17 22:47
Calibration Check	1702355-CCV4	170203 2241 NO2-022	02/03/17 22:53
Calibration Blank	1702355-CCB4	170203 2241 NO2-023	02/03/17 22:53
Calibration Check	1702355-CCV5	170203 2241 NO2-024	02/03/17 23:15
Calibration Blank	1702355-CCB5	170203 2241 NO2-025	02/03/17 23:15
27MW06_170203	1703197-28	170203 2241 NO2-027	02/03/17 23:15
Calibration Check	1702355-CCV6	170203 2241 NO2-028	02/03/17 23:17
Calibration Blank	1702355-CCB6	170203 2241 NO2-029	02/03/17 23:17

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

BLANKS
EPA-353.2

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Instrument ID: KONE-1
Project: Alameda
Sequence: 1702355
Calibration: UNASSIGNED

Lab Sample ID	Analyte	Found	DL	LOD	LOQ	Units	C	Method
1702355-CCB1	Nitrite as N	0.0076440	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.025107	0.040		0.17	mg/L	U	EPA-353.2
1702355-CCB2	Nitrite as N	0.0078220	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.025691	0.040		0.17	mg/L	U	EPA-353.2
1702355-CCB3	Nitrite as N	0.0075850	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.024913	0.040		0.17	mg/L	U	EPA-353.2
1702355-CCB4	Nitrite as N	0.011472	0.010		0.050	mg/L	J	EPA-353.2
	Nitrite as NO2	0.037680	0.040		0.17	mg/L	U	EPA-353.2
1702355-CCB5	Nitrite as N	0.0068950	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.022647	0.040		0.17	mg/L	U	EPA-353.2
1702355-CCB6	Nitrite as N	0.0070020	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.022998	0.040		0.17	mg/L	U	EPA-353.2

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL AND CONTINUING CALIBRATION CHECK

EPA-353.2

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Instrument ID: KONE-1
Control Limt: +/- 10.00%

SDG: 17-03197
Project: Alameda
Calibration: UNASSIGNED
Sequence: 1702355

Lab Sample ID	Analyte	True	Found	%R	Units	Method
1702355-CCV1	Nitrite as N	0.50000	0.50294	101	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6519	101	mg/L	EPA-353.2
1702355-CCV2	Nitrite as N	0.50000	0.49998	100	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6422	100	mg/L	EPA-353.2
1702355-CCV3	Nitrite as N	0.50000	0.49908	99.8	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6392	99.8	mg/L	EPA-353.2
1702355-CCV4	Nitrite as N	0.50000	0.49992	100	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6420	100	mg/L	EPA-353.2
1702355-CCV5	Nitrite as N	0.50000	0.50162	100	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6476	100	mg/L	EPA-353.2
1702355-CCV6	Nitrite as N	0.50000	0.50007	100	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6425	100	mg/L	EPA-353.2

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

HOLDING TIME SUMMARY
EPA-353.2

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
27EW-12_170203	02/03/17 09:55	02/03/17 20:08	02/03/17 22:41	0.53	2.00	02/03/17 22:41	0.53	2.00	
SMLS-01_170203	02/03/17 08:55	02/03/17 20:08	02/03/17 22:41	0.57	2.00	02/03/17 22:41	0.57	2.00	
SMLS-07_170203	02/03/17 08:09	02/03/17 20:08	02/03/17 22:41	0.61	2.00	02/03/17 22:41	0.61	2.00	
26MW08_170203	02/03/17 11:25	02/03/17 20:08	02/03/17 22:41	0.47	2.00	02/03/17 22:41	0.47	2.00	
26MW03_170203	02/03/17 12:30	02/03/17 20:08	02/03/17 22:41	0.42	2.00	02/03/17 22:41	0.42	2.00	
26PZ01_170203	02/03/17 13:36	02/03/17 20:08	02/03/17 22:41	0.38	2.00	02/03/17 22:41	0.38	2.00	
26PZ03_170203	02/03/17 13:01	02/03/17 20:08	02/03/17 22:41	0.41	2.00	02/03/17 22:44	0.41	2.00	
27MW06_170203	02/03/17 13:24	02/03/17 20:08	02/03/17 22:41	0.41	2.00	02/03/17 23:15	0.41	2.00	

* Holding time not met

Note: If Prep or Analysis are performed within the hour (if holding time is based on hours) or within the day (if holding time is based on days), then the sample is not flagged as outside holding times. Calculated number of days are based on date received or date prepared depending on the test.

Raw Data From Instrument KONE-1

Raw Data - Calibration Summary

Laboratory
Analyzer User

01.02.2017 09:00

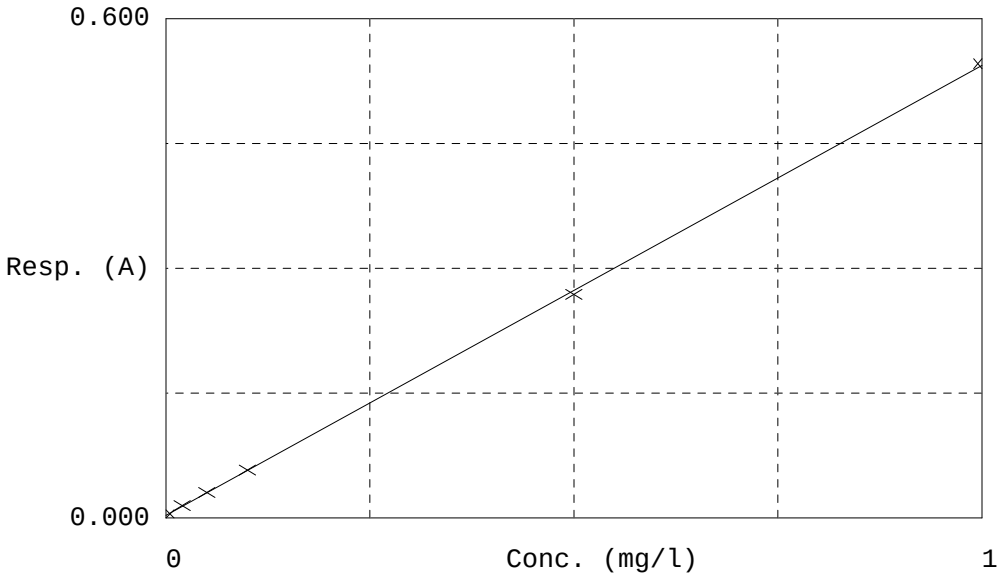
Test NO2

Accepted 01.02.2017 08:54

Factor 1.84952
Bias 0.00325

Coeff. of det. 0.999876

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	NO2-0	0.00393	0.00126	0.00000	
2	NO2-0.02	0.01508	0.02188	0.02000	
3	NO2-0.05	0.03072	0.05081	0.05000	
4	NO2-0.10	0.05760	0.10052	0.10000	
5	NO2-0.50	0.26889	0.49131	0.50000	
6	NO2-1.00	0.54620	1.00421	1.00000	
7	ICB-NO2(control	0.00553	0.00422	0.00000	
8	ICV-NO2(control	0.26982	0.49303	0.50000	

NO2 Laboratory
Analyzer User
Date : 01.02.2017
Time : 09:00

Last change date 04.02.2016 12:17
Tick length (sec) 7.0

Full name	Nitrite as N				
Online Name		Test In Use	YES		
Test type	Photometric		LOW	HIGH	
		Test limit	*	5.00000 mg/l	
Result unit	mg/l	Initial absorbance	-0.050	*	A
Number of Decim.	5	Dilution limit	*	1.000000 mg/l	
		Secondary dil 1+	0.0	4.0	
		Critical limit	*	*	mg/l
		Reflex test limit	*	*	mg/l
		Reflex test			

Acceptance	Manual	Reference class	LOW	HIGH	In Use
Dilution 1+	0.0				
Sample type	Water	Correction factor	1.00		
	Raw water	Correction bias	0.00	mg/l	
	Sewage				
Calibration type	Linear				
Curve direction	Ascending				
Repeat time (d)	0	Abs error (mA)	*		
Points/cal.	Single	Rel error (%)	*		
Acceptance	Manual				
Response limit (mA)	MIN	MAX			
	*	*			
Bias correction in use	NO				
Cd reduction	NO				
Type of Calibrators	Separate				
Calibrator	Conc.	Dil. ratio			
NO2-0	0.000	1+0.0			
NO2-0.02	0.020	1+0.0			
NO2-0.05	0.050	1+0.0			
NO2-0.10	0.100	1+0.0			
NO2-0.50	0.500	1+0.0			
NO2-1.00	1.000	1+0.0			
Manual QC in Use	YES	Routine QC in Use	YES		
Acceptance	Manual	Interval Requests	10		
		Additional condition	NO		

Control	Mean	SD	Control	Mean	SD
ICB-NO2	0.00	0.01	CCB-NO2	0.00	0.01
ICV-NO2	0.50	0.05	CCV-NO2	0.50	0.05

Rules in Use	1:1.0*SD	Rules in Use	1:1.0*SD
Blank	YES		
		Normal cuvette	
Sample		Volume (ul)	32
Disp. with	Extra	Add. Volume (ul)	30
Dilution with	Water	Wash reagent	None

NO2 Laboratory
Analyzer User
Date : 01.02.2017
Time : 09:00

Reagent	NO2 Buffer	Volume (ul)	120
Disp. with	Extra	Add. Volume (ul)	30
Wash reagent	None		
Syringe speed	Normal		
Measurement	End point	Blank	
Resp. Min(A)	*	Resp. Max(A)	*
Reagent	NO2 color	Volume (ul)	32
Disp. with	Extra	Add. Volume (ul)	30
Wash reagent	None		
Syringe speed	Normal		
Incubation		Time (sec)	360
Measurement	End point		
Wavelength (nm)	540 nm	Side wavel. (nm)	None
Meas. type	Fixed timing		

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported:	3/7/2017 3:44:03PM
Project:	Alameda
Project Number:	5023146096
Project Manager:	Kelli Miller

BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Phone: 661-327-4911

SDG:	**17-03197**
Class:	**WET**
Method:	**EPA-415.1**

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSES DATA PACKAGE COVER PAGE

EPA-415.1

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
27EW-12_170203	1703197-02
27MW06_170203	1703197-28

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Sara Guron
Name: Sara Guron

Date: 03-07-2017
Title: QA/QC Manager

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD DETECTION AND REPORTING LIMITS

EPA-415.1

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Instrument: TOC2

Analyte	DL	LOD	LOQ	Units
Non-Volatile Organic Carbon	0.3	0.3	1	mg/L

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

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Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-415.1

27EW-12_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-02
File ID: 20170207_0822-033
Sampled: 02/03/17 09:55
Prepared: 02/07/17 07:00
Analyzed: 02/07/17 16:27
Solids: 0.00
Preparation: General Preparation
Initial/Final: 100 ml / 100 ml
Batch: B[B0520
Sequence: 1702200
Calibration: UNASSIGNED
Instrument: TOC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Non-Volatile Organic Carbon	3.9	0.30	0.30	1.0	1		EPA-415.1

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-415.1

27MW06_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-28
File ID: 20170207_0822-034
Sampled: 02/03/17 13:24
Prepared: 02/07/17 07:00
Analyzed: 02/07/17 16:42
Solids: 0.00
Preparation: General Preparation
Initial/Final: 100 ml / 100 ml
Batch: B[B0520
Sequence: 1702200
Calibration: UNASSIGNED
Instrument: TOC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Non-Volatile Organic Carbon	1.0	0.30	0.30	1.0	1		EPA-415.1

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

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Project Manager: Kelli Miller

PREPARATION BATCH SUMMARY

EPA-415.1

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Batch: B[B0520
Batch Matrix: Water
Preparation: General Preparation

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
27EW-12_170203	1703197-02	20170207_0822-033	02/07/17 07:00	
27MW06_170203	1703197-28	20170207_0822-034	02/07/17 07:00	
Blank	B[B0520-BLK1	20170207_0822-024	02/07/17 07:00	
LCS	B[B0520-BS1	20170207_0822-025	02/07/17 07:00	
Duplicate	B[B0520-DUP1	20170208_0743-005	02/07/17 07:00	
Matrix Spike	B[B0520-MS1	20170208_0743-006	02/07/17 07:00	
Matrix Spike Dup	B[B0520-MSD1	20170208_0743-007	02/07/17 07:00	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-415.1

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[B0520-BLK1	File ID:	20170207_0822-024
Prepared:	02/07/17 07:00	Preparation:	General Preparation	Initial/Final:	100 ml / 100 ml
Analyzed:	02/07/17 14:17	Instrument:	TOC2		
Batch:	B[B0520	Sequence:	1702200	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
---	Non-Volatile Organic Carbon	0.30	0.30	0.30	1.0	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
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Reported: 3/7/2017 3:44:03PM
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Project Number: 5023146096
Project Manager: Kelli Miller

Duplicate

DUPLICATES

EPA-415.1

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Matrix: Water
Batch: B[B0520
Preparation: General Preparation
Source Sample Name: Duplicate

SDG: 17-03197
Project: Alameda
Laboratory ID: B[B0520-DUP1
Lab Source ID: 1703174-02
Initial/Final: 100 ml / 100 ml
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Non-Volatile Organic Carbon	10	15.130		14.700		2.88		EPA-415.1

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-415.1

Matrix Spike

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0520
Laboratory ID: B[B0520-MS1
Preparation: General Preparation
Initial/Final: 99.5 ml / 100 ml
Source Sample Number: 1703174-02

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC. #	QC LIMITS REC.
Non-Volatile Organic Carbon	25.126	15.130	39.990	98.9	80 - 120

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Non-Volatile Organic Carbon	25.126	39.945	98.8	0.113	10	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-415.1

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0520
Laboratory ID: B[B0520-BS1
Preparation: General Preparation
Initial/Final: 100 ml / 100 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Non-Volatile Organic Carbon	5.0000	5.0560	101	85 - 115

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-415.1

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Sequence: 1702200
Instrument: TOC2
Matrix: Water
Calibration: UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	1702200-ICV1	20170207_0822-003	02/07/17 09:16
Initial Cal Blank	1702200-ICB1	20170207_0822-004	02/07/17 09:30
MRL Check	1702200-CRL1	20170207_0822-005	02/07/17 09:44
Calibration Check	1702200-CCV1	20170207_0822-015	02/07/17 12:08
Calibration Blank	1702200-CCB1	20170207_0822-016	02/07/17 12:22
Blank	B[B0520-BLK1	20170207_0822-024	02/07/17 14:17
LCS	B[B0520-BS1	20170207_0822-025	02/07/17 14:32
Calibration Check	1702200-CCV2	20170207_0822-027	02/07/17 15:01
Calibration Blank	1702200-CCB2	20170207_0822-028	02/07/17 15:15
27EW-12_170203	1703197-02	20170207_0822-033	02/07/17 16:27
27MW06_170203	1703197-28	20170207_0822-034	02/07/17 16:42
Calibration Check	1702200-CCV3	20170207_0822-038	02/07/17 17:39
Calibration Blank	1702200-CCB3	20170207_0822-039	02/07/17 17:53
Calibration Check	1702200-CCV4	20170207_0822-048	02/07/17 20:02
Calibration Blank	1702200-CCB4	20170207_0822-049	02/07/17 20:16
Calibration Check	1702200-CCV5	20170208_0743-001	02/08/17 07:49
Calibration Blank	1702200-CCB5	20170208_0743-002	02/08/17 08:03
Duplicate	B[B0520-DUP1	20170208_0743-005	02/08/17 08:46
Matrix Spike	B[B0520-MS1	20170208_0743-006	02/08/17 09:00
Matrix Spike Dup	B[B0520-MSD1	20170208_0743-007	02/08/17 09:14
Calibration Check	1702200-CCV6	20170208_0743-009	02/08/17 09:42
Calibration Blank	1702200-CCB6	20170208_0743-010	02/08/17 09:56

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
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Reported: 3/7/2017 3:44:03PM
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Project Number: 5023146096
Project Manager: Kelli Miller

BLANKS
EPA-415.1

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Instrument ID: TOC2
Project: Alameda
Sequence: 1702200
Calibration: UNASSIGNED

Lab Sample ID	Analyte	Found	DL	LOD	LOQ	Units	C	Method
1702200-ICB1	Non-Volatile Organic Carbon	0.0000	0.30		1.0	mg/L	U	EPA-415.1
1702200-CCB1	Non-Volatile Organic Carbon	0.0000	0.30		1.0	mg/L	U	EPA-415.1
1702200-CCB2	Non-Volatile Organic Carbon	0.0000	0.30		1.0	mg/L	U	EPA-415.1
1702200-CCB3	Non-Volatile Organic Carbon	0.052000	0.30		1.0	mg/L	U	EPA-415.1
1702200-CCB4	Non-Volatile Organic Carbon	0.052000	0.30		1.0	mg/L	U	EPA-415.1
1702200-CCB5	Non-Volatile Organic Carbon	0.0000	0.30		1.0	mg/L	U	EPA-415.1
1702200-CCB6	Non-Volatile Organic Carbon	0.0000	0.30		1.0	mg/L	U	EPA-415.1

AMEC Environmental & Infrastructure
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Project Manager: Kelli Miller

INITIAL AND CONTINUING CALIBRATION CHECK

EPA-415.1

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Instrument ID: TOC2
Control Limt: +/- 10.00%

SDG: 17-03197
Project: Alameda
Calibration: UNASSIGNED
Sequence: 1702200

Lab Sample ID	Analyte	True	Found	%R	Units	Method
1702200-ICV1	Non-Volatile Organic Carbon	5.0000	4.9710	99.4	mg/L	EPA-415.1
1702200-CCV1	Non-Volatile Organic Carbon	5.0000	5.0640	101	mg/L	EPA-415.1
1702200-CCV2	Non-Volatile Organic Carbon	5.0000	5.0500	101	mg/L	EPA-415.1
1702200-CCV3	Non-Volatile Organic Carbon	5.0000	5.2170	104	mg/L	EPA-415.1
1702200-CCV4	Non-Volatile Organic Carbon	5.0000	5.2450	105	mg/L	EPA-415.1
1702200-CCV5	Non-Volatile Organic Carbon	5.0000	5.2340	105	mg/L	EPA-415.1
1702200-CCV6	Non-Volatile Organic Carbon	5.0000	5.0070	100	mg/L	EPA-415.1

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

HOLDING TIME SUMMARY
EPA-415.1

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
27EW-12_170203	02/03/17 09:55	02/03/17 20:08	02/07/17 07:00	4.00	28.00	02/07/17 16:27	4.00	28.00	
27MW06_170203	02/03/17 13:24	02/03/17 20:08	02/07/17 07:00	4.00	28.00	02/07/17 16:42	4.00	28.00	

* Holding time not met

Note: If Prep or Analysis are performed within the hour (if holding time is based on hours) or within the day (if holding time is based on days), then the sample is not flagged as outside holding times. Calculated number of days are based on date received or date prepared depending on the test.

Raw Data From Instrument TOC2

Raw Data - Calibration Summary

O·I·CORPORATION

Date Prepared: 02/03/2017 **By:**

Date Approved: **By:**

TOC

OI Corporation
College Station, TX 77845 USA

No Customer
None, None - None

Sample Results Summary

Spl #	Vial #	Sample ID	Num Rep	Act Rep	Method	Type	Dil	Customer ID	Mode	Avg. Area (cts)	Avg. Mass (ug)	Avg. Conc (PPM)	Std. Dev	% RSD	Notes
1	-	Clean Up	6	6	DefaultCleanUpMethod	Clean Up	1 : 1	00000000	TIC	391	0.000	0.000	105	26.81	
									TOC	4,296	0.000	0.000	774	18.01	
3	1	TOC-RW	4	4	170202 - 5 mls - Feb 02, 2017; 12-32-00 PM	Standard	1 : 1	00000000	TOC	3,437	0.000	0.000	37	1.09	
4	2	TOC-Std#1-1.000 PPM	4	4	170202 - 5 mls - Feb 02, 2017; 12-32-00 PM	Standard	1 : 1	00000000	TOC	23,927	5.000	1.000	359	1.50	
5	3	TOC-Std#2-5.000 PPM	4	4	170202 - 5 mls - Feb 02, 2017; 12-32-00 PM	Standard	1 : 1	00000000	TOC	104,376	25.000	5.000	1,072	1.03	
6	4	TOC-Std#3-10.000 PPM	4	4	170202 - 5 mls - Feb 02, 2017; 12-32-00 PM	Standard	1 : 1	00000000	TOC	204,913	50.000	10.000	3,090	1.51	

O·I·CORPORATION

Date Prepared: 02/03/2017 **By:**

Date Approved: **By:**

TOC

OI Corporation
College Station, TX 77845 USA

No Customer
None, None - None

Sample Results

Spl #: 1 **Sample ID :** Clean Up **Type :** Clean Up **Date:** 02/02/2017 **Status:** Passed
Vial #: - **Method :** DefaultCleanUpMethod **Dilution** 1 : 1 **Customer ID:** 00000000

Rep #	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	12:44 pm	580	0.000	0.000	5,241	0.000	0.000
2	12:52 pm	276	0.000	0.000	5,339	0.000	0.000
3	1:00 pm	377	0.000	0.000	3,785	0.000	0.000
4	1:07 pm	392	0.000	0.000	3,861	0.000	0.000
5	1:15 pm	317	0.000	0.000	3,681	0.000	0.000
6	1:23 pm	405	0.000	0.000	3,868	0.000	0.000
	Avg.	391	0.000	0.000	4,296	0.000	0.000
	Std.Dev.	105			774		
	% RSD.	26.81			18.01		

Spl #: 3 **Sample ID :** TOC-RW **Type :** Standard **Date:** 02/02/2017 **Status:** Passed
Vial #: 1 **Method :** 170202 - 5 mls - Feb 02, 2017 **Dilution** 1 : 1 **Customer ID:** 00000000

Rep #	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	1:52 pm	-	-	-	3,450	0.000	0.000
2	1:57 pm	-	-	-	3,484	0.000	0.000
3	2:03 pm	-	-	-	3,405	0.000	0.000
4	2:09 pm	-	-	-	3,409	0.000	0.000
	Avg.	-	-	-	3,437	0.000	0.000
	Std.Dev.				37		
	% RSD.				1.09		

O·I·CORPORATION

Date Prepared: 02/03/2017 **By:**

Date Approved: **By:**

TOC

OI Corporation
College Station, TX 77845 USA

No Customer
None, None - None

Spl #:	4	**Sample ID :**	TOC-Std#1-1.000 PPM	**Type :**	Standard	**Date:**	02/02/2017	**Status:**	Passed
Vial #:	2	**Method :**	170202 - 5 mls - Feb 02, 2017	**Dilution**	1 : 1	**Customer ID:**	00000000		

Rep #	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	2:18 pm	-	-	-	24,253	5.000	1.000
2	2:23 pm	-	-	-	23,431	5.000	1.000
3	2:30 pm	-	-	-	24,113	5.000	1.000
4	2:35 pm	-	-	-	23,912	5.000	1.000
	Avg.	-	-	-	23,927	5.000	1.000
	Std.Dev.				359		
	% RSD.				1.50		

Spl #:	5	**Sample ID :**	TOC-Std#2-5.000 PPM	**Type :**	Standard	**Date:**	02/02/2017	**Status:**	Passed
Vial #:	3	**Method :**	170202 - 5 mls - Feb 02, 2017	**Dilution**	1 : 1	**Customer ID:**	00000000		

Rep #	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	2:44 pm	-	-	-	105,158	25.000	5.000
2	2:49 pm	-	-	-	103,461	25.000	5.000
3	2:56 pm	-	-	-	105,440	25.000	5.000
4	3:01 pm	-	-	-	103,446	25.000	5.000
	Avg.	-	-	-	104,376	25.000	5.000
	Std.Dev.				1,072		
	% RSD.				1.03		

O·I·CORPORATION

Date Prepared: 02/03/2017 **By:**

Date Approved: **By:**

TOC

OI Corporation
College Station, TX 77845 USA

No Customer
None, None - None

Spl #:	6	**Sample ID :**	TOC-Std#3-10.000 PPM	**Type :**	Standard	**Date:**	02/02/2017	**Status:**	Passed
Vial #:	4	**Method :**	170202 - 5 mls - Feb 02, 2017	**Dilution**	1 : 1	**Customer ID:**	00000000		

Rep #	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	3:10 pm	-	-	-	207,672	50.000	10.000
2	3:15 pm	-	-	-	202,531	50.000	10.000
3	3:22 pm	-	-	-	207,489	50.000	10.000
4	3:27 pm	-	-	-	201,960	50.000	10.000
	Avg.	-	-	-	204,913	50.000	10.000
	Std.Dev.				3,090		
	% RSD.				1.51		

O·I·CORPORATION

Date Prepared: 02/03/2017 **By:**

Date Approved: **By:**

TOC

OI Corporation
College Station, TX 77845 USA

No Customer
None, None - None

Method Summary

Method Details

Method Name:	170202 - 5 mls - Feb 02, 2017
Date Created:	02/02/2017
Time Created:	12:32
Created By:	ALW

Pre-Processing

Sample Dilution:	Disabled
Dilution Mode:	Automatic
Dilution Factor:	1 : 1
Sample Stirring in A/S:	Enabled

Times

	React	Detect
TIC	01:30	03:00
TOC	02:00	03:15

Temp

	React	Detect
TIC	70	70
TOC	98	98

Analysis Mode: NPOC Only

Sparging Mode:	Internal
Pre-Acid Volume (mL):	1.000
Sparge Time (mm:ss):	02:00

Outlier Removal Criteria

Additional Replicates:	0
Max. % RSD.	3.00

Peak Detection Parameters

Signal-to-Noise Ratio:	3
Minimum Peak Width (min:sec):	00:30
Peak Resolution to BaseLine(%):	99

Volumes

Sample Volume (mL):	5.000
Acid Volume (mL):	0.500
Persulfate Volume(mL):	1.000

Rinses

Rinse Volume (mL):	10.000
Rinses Per Sample:	1
Rinses Per Replicate:	0

Other

SysPressure:	20.00

Calibration Summary

Calibration Generation

Generation Mode:	Manual
# of Stds:	5
Dilution Factor:	10 : 1
Dilution Volume (mL):	1.000
Add Zero as Std #1:	No

Calibration Pass/Fail Criteria

Parameter	Low	High	Failure
RF (ugC/K-cts)	-	-	-
R2	0.995	1.000	Abort
Offset (area) (cts)	-	-	-
Offset (mass) (ugC)	-	-	-

Calibration Mode

Primary Mode:	TOC
User for ALL Modes:	Enabled

Checks, QC's and Actions

Type	Target (PPM)	Tolerance (+/- %)	1st Failure	2nd Failure
CK Std	n/a	10,000.00	Continue	Continue
QC #1	5.000	10,000.00	Continue	Continue
QC #2	5.000	15,000.00	Continue	Continue
QC #3	1.000	50,000.00	Continue	Continue
QC #4	0.001	100,000.00	Continue	Continue
SST	0.000	0.00	Continue	Continue

O·I·CORPORATION

Date Prepared: 02/03/2017 **By:**

Date Approved: **By:**

TOC

OI Corporation
College Station, TX 77845 USA

No Customer
None, None - None

Calibration Details

Calibration Mode:	TOC	
Date Calibrated:	02/02/2017	
Time Calibrated:	3:27 pm	
Calibrated By:	ALW	
RF (ugC/k-cts):		0.2483
R2:		0.9997
Offset (area)(cts):		3626
Offset (mass)(ugC):		-0.901
Reagent Blank (cts):		1,744

Calibration Settings

Stock Conc. For Dilutions: (PPM)	1,000.000
# of Reagent Blanks:	2
Total Flowrate w/EFC:	50 ml/min
Check Standards:	Subtract Offset
Regression type:	Unweighted

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Phone: 661-327-4911

SDG: **17-03197**
Class: **WET**
Method: **SM-4500SD**

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSES DATA PACKAGE COVER PAGE

SM-4500SD

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
27EW-12_170203	1703197-02
SMLS-01_170203	1703197-11
SMLS-07_170203	1703197-12
26MW08_170203	1703197-13
26MW03_170203	1703197-25
26PZ01_170203	1703197-26
26PZ03_170203	1703197-27
27MW06_170203	1703197-28

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Sara Guron
Name: Sara Guron

Date: 03-07-2017
Title: QA/QC Manager

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD DETECTION AND REPORTING LIMITS

SM-4500SD

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Instrument: SPEC06

Analyte	DL	LOD	LOQ	Units
Total Sulfide	0.05	0.1	0.1	mg/L

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

27EW-12_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-02
File ID:
Sampled: 02/03/17 09:55
Prepared: 02/07/17 13:30
Analyzed: 02/07/17 13:30
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[B0621
Sequence: 1702142
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	0.10	0.050	0.10	0.10	1	U	SM-4500SD

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

SMLS-01_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-11
File ID:
Sampled: 02/03/17 08:55
Prepared: 02/06/17 10:30
Analyzed: 02/06/17 10:30
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[B0496
Sequence: 1702027
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	0.10	0.050	0.10	0.10	1	U	SM-4500SD

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

SMLS-07_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-12
File ID:
Sampled: 02/03/17 08:09
Prepared: 02/06/17 10:30
Analyzed: 02/06/17 10:30
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[B0496
Sequence: 1702027
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	0.10	0.050	0.10	0.10	1	U	SM-4500SD

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

26MW08_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-13
File ID:
Sampled: 02/03/17 11:25
Prepared: 02/07/17 13:30
Analyzed: 02/07/17 13:30
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[B0621
Sequence: 1702142
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	0.10	0.050	0.10	0.10	1	U	SM-4500SD

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

26MW03_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-25
File ID:
Sampled: 02/03/17 12:30
Prepared: 02/07/17 13:30
Analyzed: 02/07/17 13:30
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[B0621
Sequence: 1702142
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	1.0	0.50	1.0	1.0	10	UD	SM-4500SD

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

26PZ01_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-26
File ID:
Sampled: 02/03/17 13:36
Prepared: 02/07/17 13:30
Analyzed: 02/07/17 13:30
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[B0621
Sequence: 1702142
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	0.50	0.25	0.50	0.50	5	UD	SM-4500SD

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

26PZ03_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-27
File ID:
Sampled: 02/03/17 13:01
Prepared: 02/07/17 13:30
Analyzed: 02/07/17 13:30
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[B0621
Sequence: 1702142
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	0.50	0.25	0.50	0.50	5	UD	SM-4500SD

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

27MW06_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703197-28
File ID:
Sampled: 02/03/17 13:24
Prepared: 02/07/17 13:30
Analyzed: 02/07/17 13:30
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[B0621
Sequence: 1702142
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	0.10	0.050	0.10	0.10	1	U	SM-4500SD

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

PREPARATION BATCH SUMMARY

SM-4500SD

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Batch: B[B0496
Batch Matrix: Water
Preparation: No Prep

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
SMLS-01_170203	1703197-11		02/06/17 10:30	
SMLS-07_170203	1703197-12		02/06/17 10:30	
Blank	B[B0496-BLK1		02/06/17 10:30	
LCS	B[B0496-BS1		02/06/17 10:30	
Duplicate	B[B0496-DUP1		02/06/17 10:30	
Matrix Spike	B[B0496-MS1		02/06/17 10:30	
Matrix Spike Dup	B[B0496-MSD1		02/06/17 10:30	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

PREPARATION BATCH SUMMARY

SM-4500SD

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Batch: B[B0621
Batch Matrix: Water
Preparation: No Prep

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
27EW-12_170203	1703197-02		02/07/17 13:30	
26MW08_170203	1703197-13		02/07/17 13:30	
26MW03_170203	1703197-25		02/07/17 13:30	
26PZ01_170203	1703197-26		02/07/17 13:30	
26PZ03_170203	1703197-27		02/07/17 13:30	
27MW06_170203	1703197-28		02/07/17 13:30	
Blank	B[B0621-BLK1		02/07/17 13:30	
LCS	B[B0621-BS1		02/07/17 13:30	
26PZ01_170203	B[B0621-DUP1		02/07/17 13:30	
26PZ01_170203	B[B0621-MS1		02/07/17 13:30	
26PZ01_170203	B[B0621-MSD1		02/07/17 13:30	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
SM-4500SD

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[B0496-BLK1	File ID:	
Prepared:	02/06/17 10:30	Preparation:	No Prep	Initial/Final:	25 ml / 25 ml
Analyzed:	02/06/17 10:30	Instrument:	SPEC06		
Batch:	B[B0496	Sequence:	1702027	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
18496-25-8	Total Sulfide	0.10	0.050	0.10	0.10	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
SM-4500SD

Laboratory:	BC Laboratories			SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[B0621-BLK1	File ID:	
Prepared:	02/07/17 13:30	Preparation:	No Prep	Initial/Final:	25 ml / 25 ml
Analyzed:	02/07/17 13:30	Instrument:	SPEC06		
Batch:	B[B0621	Sequence:	1702142	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
18496-25-8	Total Sulfide	0.10	0.050	0.10	0.10	U

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
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Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

Duplicate

DUPLICATES

SM-4500SD

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Matrix: Water
Batch: B[B0496
Preparation: No Prep
Source Sample Name: Duplicate

SDG: 17-03197
Project: Alameda
Laboratory ID: B[B0496-DUP1
Lab Source ID: 1702918-10
Initial/Final: 25 ml / 25 ml
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Total Sulfide	10	ND		ND				SM-4500SD

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

26PZ01_170203

DUPLICATES
SM-4500SD

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Matrix: Water
Batch: B[B0621
Preparation: No Prep
Source Sample Name: 26PZ01_170203

SDG: 17-03197
Project: Alameda
Laboratory ID: B[B0621-DUP1
Lab Source ID: 1703197-26
Initial/Final: 25 ml / 25 ml
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Total Sulfide	10	ND		ND				SM-4500SD

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM-4500SD

Matrix Spike

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0496
Laboratory ID: B[B0496-MS1
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1702918-10

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC. #	QC LIMITS REC.
Total Sulfide	0.50000	ND	0.38029	76.1 *	80 - 120

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Total Sulfide	0.50000	0.38197	76.4 *	0.441	10	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM-4500SD

26PZ01_170203

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0621
Laboratory ID: B[B0621-MS1
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1703197-26

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC. #	QC LIMITS REC.
Total Sulfide	2.5000	ND	2.3902	95.6	80 - 120

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Total Sulfide	2.5000	2.3642	94.6	1.10	10	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
SM-4500SD

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Matrix:	Water		
Batch:	B[B0496	Laboratory ID:	B[B0496-BS1
Preparation:	No Prep	Initial/Final:	25 ml / 25 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Total Sulfide	0.50000	0.52476	105	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
SM-4500SD

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Matrix:	Water		
Batch:	B[B0621	Laboratory ID:	B[B0621-BS1
Preparation:	No Prep	Initial/Final:	25 ml / 25 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Total Sulfide	0.50000	0.51620	103	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

SM-4500SD

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Sequence:	1702027	Instrument:	SPEC06
Matrix:	Water	Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	1702027-ICV1		02/06/17 10:30
Initial Cal Blank	1702027-ICB1		02/06/17 10:30
LCS	B[B0496-BS1		02/06/17 10:30
Blank	B[B0496-BLK1		02/06/17 10:30
Duplicate	B[B0496-DUP1		02/06/17 10:30
Matrix Spike	B[B0496-MS1		02/06/17 10:30
Matrix Spike Dup	B[B0496-MSD1		02/06/17 10:30
Calibration Check	1702027-CCV1		02/06/17 10:30
Calibration Blank	1702027-CCB1		02/06/17 10:30
SMLS-01_170203	1703197-11		02/06/17 10:30
SMLS-07_170203	1703197-12		02/06/17 10:30
Calibration Check	1702027-CCV2		02/06/17 10:30
Calibration Blank	1702027-CCB2		02/06/17 10:30
Calibration Check	1702027-CCV3		02/06/17 10:30
Calibration Blank	1702027-CCB3		02/06/17 10:30

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

SM-4500SD

Laboratory:	BC Laboratories	SDG:	17-03197
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Sequence:	1702142	Instrument:	SPEC06
Matrix:	Water	Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	1702142-ICV1		02/07/17 13:30
Initial Cal Blank	1702142-ICB1		02/07/17 13:30
LCS	B[B0621-BS1		02/07/17 13:30
Blank	B[B0621-BLK1		02/07/17 13:30
26PZ01_170203	1703197-26		02/07/17 13:30
26PZ01_170203	B[B0621-DUP1		02/07/17 13:30
26PZ01_170203	B[B0621-MS1		02/07/17 13:30
26PZ01_170203	B[B0621-MSD1		02/07/17 13:30
26PZ03_170203	1703197-27		02/07/17 13:30
27MW06_170203	1703197-28		02/07/17 13:30
27EW-12_170203	1703197-02		02/07/17 13:30
26MW08_170203	1703197-13		02/07/17 13:30
Calibration Check	1702142-CCV1		02/07/17 13:30
Calibration Blank	1702142-CCB1		02/07/17 13:30
26MW03_170203	1703197-25		02/07/17 13:30
Calibration Check	1702142-CCV2		02/07/17 13:30
Calibration Blank	1702142-CCB2		02/07/17 13:30

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

BLANKS
SM-4500SD

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Instrument ID: SPEC06
Project: Alameda
Sequence: 1702027
Calibration: UNASSIGNED

Lab Sample ID	Analyte	Found	DL	LOD	LOQ	Units	C	Method
1702027-CCB1	Total Sulfide	0.0000	0.050		0.10	mg/L	U	SM-4500SD
1702027-CCB2	Total Sulfide	0.0000	0.050		0.10	mg/L	U	SM-4500SD
1702027-CCB3	Total Sulfide	0.0000	0.050		0.10	mg/L	U	SM-4500SD
1702027-ICB1	Total Sulfide	0.0000	0.050		0.10	mg/L	U	SM-4500SD

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

BLANKS
SM-4500SD

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Instrument ID: SPEC06
Project: Alameda
Sequence: 1702142
Calibration: UNASSIGNED

Lab Sample ID	Analyte	Found	DL	LOD	LOQ	Units	C	Method
1702142-CCB1	Total Sulfide	0.0000	0.050		0.10	mg/L	U	SM-4500SD
1702142-CCB2	Total Sulfide	0.0000	0.050		0.10	mg/L	U	SM-4500SD
1702142-ICB1	Total Sulfide	0.0000	0.050		0.10	mg/L	U	SM-4500SD

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL AND CONTINUING CALIBRATION CHECK

SM-4500SD

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Instrument ID: SPEC06
Control Limt: +/- %

SDG: 17-03197
Project: Alameda
Calibration: UNASSIGNED
Sequence: 1702027

Lab Sample ID	Analyte	True	Found	%R	Units	Method
1702027-CCV1	Total Sulfide	0.50000	0.52476	105	mg/L	SM-4500SD
1702027-CCV2	Total Sulfide	0.50000	0.52476	105	mg/L	SM-4500SD
1702027-CCV3	Total Sulfide	0.50000	0.52476	105	mg/L	SM-4500SD
1702027-ICV1	Total Sulfide	0.50000	0.51636	103	mg/L	SM-4500SD

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL AND CONTINUING CALIBRATION CHECK

SM-4500SD

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Instrument ID: SPEC06
Control Limt: +/- %

SDG: 17-03197
Project: Alameda
Calibration: UNASSIGNED
Sequence: 1702142

Lab Sample ID	Analyte	True	Found	%R	Units	Method
1702142-CCV1	Total Sulfide	0.50000	0.51620	103	mg/L	SM-4500SD
1702142-CCV2	Total Sulfide	0.50000	0.51446	103	mg/L	SM-4500SD
1702142-ICV1	Total Sulfide	0.50000	0.51793	104	mg/L	SM-4500SD

* Values outside of QC limits

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:44:03PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

HOLDING TIME SUMMARY
SM-4500SD

Laboratory: BC Laboratories
SDG: 17-03197
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
27EW-12_170203	02/03/17 09:55	02/03/17 20:08	02/07/17 13:30	4.00	7.00	02/07/17 13:30	4.00	7.00	
SMLS-01_170203	02/03/17 08:55	02/03/17 20:08	02/06/17 10:30	3.00	7.00	02/06/17 10:30	3.00	7.00	
SMLS-07_170203	02/03/17 08:09	02/03/17 20:08	02/06/17 10:30	3.00	7.00	02/06/17 10:30	3.00	7.00	
26MW08_170203	02/03/17 11:25	02/03/17 20:08	02/07/17 13:30	4.00	7.00	02/07/17 13:30	4.00	7.00	
26MW03_170203	02/03/17 12:30	02/03/17 20:08	02/07/17 13:30	4.00	7.00	02/07/17 13:30	4.00	7.00	
26PZ01_170203	02/03/17 13:36	02/03/17 20:08	02/07/17 13:30	4.00	7.00	02/07/17 13:30	4.00	7.00	
26PZ03_170203	02/03/17 13:01	02/03/17 20:08	02/07/17 13:30	4.00	7.00	02/07/17 13:30	4.00	7.00	
27MW06_170203	02/03/17 13:24	02/03/17 20:08	02/07/17 13:30	4.00	7.00	02/07/17 13:30	4.00	7.00	

* Holding time not met

Note: If Prep or Analysis are performed within the hour (if holding time is based on hours) or within the day (if holding time is based on days), then the sample is not flagged as outside holding times. Calculated number of days are based on date received or date prepared depending on the test.

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Notes and Definitions

B	Blank contamination. The analyte is greater than 1/2 the PQL/LOQ/CRQL in the associated method blank.
D	The reported value is from a dilution.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration.
J	The reported value is an estimated value. Results are between the MDL and PQL/LOQ/CRQL.
U	The analyte was not detected and is reported as less than the LOD/MDL or as defined by the client.