BC LABORATORIES, INC.

Work Order Number: 1703077

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: 17-03077

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.

Chain of Custody and Cooler Receipt Form for 1703077 Page 1 of 7

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 17-03077

DATE: 2/2/2017
COC #: COC170202
PAGE: 1 OF 3

Project Name:	Alameda Basewide	Project Contact:	Marina Mitchell	Bill To:	Amec Foster Wheeler	Disposal Instructions:	LAB
Project Number:	5023140066	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)	Diss. Gases- (RSK175)	Anions- (EPA 300.0)	Alkalinity (EPA 310.2)	Sulfide (EPA 376.2)	TDS (EPA 160.1)	RUSH 24 Hour	48 Hour	72 Hour	5 Days	TOTAL BOTTLES	HOLD All Analyses
1	DUP20_170202	02/02/17 11:05	WG	FD	N	X											
2	M04-06_170202	02/02/17 10:12	WG	N	N	X											
3	MW-360-2_170202	02/02/17 08:45	WG	N	N	X	X	X	X	X	X						
4	MW4-2-10_170202	02/02/17 09:35	WG	N	N	X											
5	MW4-2-16_170202	02/02/17 10:50	WG	N	N	X	X	X	X	X	X						
6	MW4-2-19_170202	02/02/17 10:05	WG	N	Y	X											
7	MW4-2-4_170202	02/02/17 10:05	WG	N	N	X											
8	MW4-2-6_170202	02/02/17 09:05	WG	N	N	X											
9	MW97-3_170202	02/02/17 08:28	WG	N	N	X											
10	S3-TT-MW01_170202	02/02/17 09:17	WG	N	N	X											
11	S4-TT-MW03D_170202	02/02/17 11:35	WG	N	N	X											
12	S4-TT-MW03E_170202	02/02/17 11:00	WG	N	N	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: 2/2/17	Time: 14:30	
Relinquished By/Affiliation:	Date: 2/2/17	Time: 14:40	
Received By:	Date: 2/2/17	Time: 14:40	
Relinquished By/Affiliation:	Date: 2-2-17	Time: 1830	
Received By:	Date: 2/2/17	Time: 18:30	
Relinquished By/Affiliation:	Date: 2/2/17	Time: 2140	
Received By (LAB):	Date: 2/2	Time: 2140	

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:

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

17-03077

DATE: 2/2/2017
COC #: COC170202
PAGE: 2 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)	Diss. Gases- (RSK175)	Anions- (EPA 300.0)	Alkalinity (EPA 310.2)	Sulfide (EPA 376.2)	TDS (EPA 160.1)	24 Hour	48 Hour	72 Hour	5 Days	TOTAL BOTTLES	HOLD All Analyses
1	372-MW-03_170202 -13	02/02/17 12:56	WG	N	N	X	X	X	X	X	X						
2	D03-04_170202 -14	02/02/17 12:15	WG	N	N	X											
3	DUP14_170202 -15	02/02/17 12:20	WG	FD	N	X											
4	DUP17_170202 -16	02/02/17 11:55	WG	FD	N	X											
5	DUP19_170202 -17	02/02/17 12:10	WG	FD	N	X											
6	MW4-2-11_170202 -18	02/02/17 13:10	WG	N	N	X											
7	MW4-2-14_170202 -19	02/02/17 11:50	WG	N	N	X	X	X	X	X	X						
8	S4-TT-MW03A_170202 -20	02/02/17 13:40	WG	N	N	X											
9	S4-TT-MW03B_170202 -21	02/02/17 13:05	WG	N	N	X											
10	S4-TT-MW03C_170202 -22	02/02/17 12:05	WG	N	N	X											
11	TB09_170202 -23	02/02/17 12:00	WQ	TB	N	X											
12	TB10_170202 -24	02/02/17 12:15	WQ	TB	N	X											

Sampler's Signature:		Date: 2/2/17	Time: 14:30
Relinquished By/Affiliation:		Date: 2/2/17	Time: 16:40
Received By:		Date: 2/2/17	Time: 16:40
Relinquished By/Affiliation:		Date: 2-2-17	Time: 1830
Received By:		Date: 2/2/17	Time: 18:30
Relinquished By/Affiliation:		Date: 2/2/17	Time: 2140
Received By (LAB):		Date: 2/2	Time: 2140

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

17-03077

DATE: 2/2/2017
COC #: COC170202
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
Atten:
Lab Phone#

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 / RUSH

No.	Sample ID	Date & Time Sampled	Matrix	Sample Type	MS/MSD	VOCs (EPA 8260B)	Diss. Gases- (RSK175)	Anions- (EPA 300.0)	Alkalinity (EPA 310.2)	Sulfide (EPA 376.2)	TDS (EPA 160.1)	24 Hour	48 Hour	72 Hour	5 Days	TOTAL BOTTLES	HOLD All Analyses
1	EB17_170202 -25	02/02/17 14:00	WQ	EB	N	X											
2	EB18_170202 -26	02/02/17 14:15	WQ	EB	N	X											
3	EB19_170202 -27	02/02/17 14:30	WQ	EB	N	X											
4	M04-07_170202 -28	02/02/17 13:46	WG	N	N	X											
5	MW4-2-12_170202 -29	02/02/17 13:55	WG	N	N	X											
6																	
7																	
8																	
9																	
10																	
11																	
12																	

	Date:	Time:
Sampler's Signature:	2/2/17	14:30
Relinquished By/Affiliation:	2/2/17	14:40
Received By: Gary Bogan	2/2/17	14:40
Relinquished By/Affiliation: Gary Bogan	2-2-17	1830
Received By:	2/2/17	18:30
Relinquished By/Affiliation:	2/2/17	2140
Received By (LAB):	2/2	2140

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 1703077 Page 4 of 7

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 4

Submission #: 17-03077

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 2/2 21:40

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

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	3	5	7	12	13	18	19	20	21
QT PE UNPRES		GH								
4oz / 8oz / 16oz PE UNPRES		GH	GH					G		
2oz Cr+6										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE		I	I					I		
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
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL ~~504~~ RSK		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: AA Date/Time: 2/2/17 2210
A = Actual / C = Corrected

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Chain of Custody and Cooler Receipt Form for 1703077 Page 5 of 7

BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 4

Submission #: 17-03077

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 2/2 21:40
Temperature: (A) 0.1 °C / (C) 0.4 °C Analyst Init GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS 124	25	126	127	128	129	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										
A PHENOLICS										
0ml VOA VIAL TRAVEL BLANK	ABC									
0ml VOA VIAL		ABC	ABC	ABC	ABC	ABC				
PT EPA 1664										
T ODOR										
ADIOLOGICAL										
ACTERIOLOGICAL										
0 ml VOA VIAL- 504										
T EPA 508/608/8080										
T EPA 515.1/8150										
T EPA 525										
T EPA 525 TRAVEL BLANK										
ml EPA 547										
ml EPA 531.1										
EPA 548										
T EPA 549										
T EPA 8015M										
T EPA 8270										
/ 16oz / 32oz AMBER										
/ 16oz / 32oz JAR										
IL SLEEVE										
B VIAL										
ASTIC BAG										
DLAR BAG										
RROUS IRON										
CORE										
ART KIT										
MMA CANISTER										

ments:
ple Numbering Completed By: Date/Time: 2-2-17 2215
Actual / C = Corrected

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Chain of Custody and Cooler Receipt Form for 1703077 Page 6 of 7

BC LABORATORIES INC. COOLER RECEIPT FORM Page 3 Of 4

Submission #: 1708077

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
Temperature: (A) 0.3 °C / (C) 0.6 °C
Date/Time 2/2 21:40
Analyst Init GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	#2	#4	#5	#6	#8	#9	#10	#11	#13	#14
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}									GH	
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE									I	
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	ABC	ABC	ABC	ABC-I	ABC	ABC	ABC	ABC		ABC
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL ~~504~~ RSK			DEP							
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: 2-2-17 2250
A = Actual / C = Corrected

Rev 21 05/23/2016
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Chain of Custody and Cooler Receipt Form for 1703077 Page 7 of 7

BC LABORATORIES INC. COOLER RECEIPT FORM Page 4 Of 4

Submission #: 17-03077

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
Temperature: (A) 0.3 °C / (C) 0.6 °C
Date/Time 2/2 21:40
Analyst Init GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS 15	16	17	18	22	23	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES				H						
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						ABC				
40ml VOA VIAL	ABC	ABC	ABC	ABC	ABC					
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL ~~504~~ RSK				DCB						
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										
4oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
4oz / 16oz / 32oz AMBER										
4oz / 16oz / 32oz JAR										
OIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:
Sample Numbering Completed By: Date/Time: 2/2/17 2234

Rev 21 05/23/2016

AMEC Environmental & Infrastructure 9210 Sky Park Court #200 San Diego, CA 92123	Reported: 3/6/2017 3:58:15PM Project: Alameda Project Number: 5023146096 Project Manager: Kelli Miller

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

SDG:	**17-03077**
Class:	**GC**
Method:	**RSK-175M**

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

Reported: 3/6/2017 3:58:15PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSES DATA PACKAGE COVER PAGE

RSK-175M

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
MW-360-2_170202	1703077-03
MW4-2-16_170202	1703077-05
372-MW-03_170202	1703077-13
MW4-2-14_170202	1703077-19

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: 03-06-2017
Title: QA/QC Manager

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

Reported: 3/6/2017 3:58:15PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD DETECTION AND REPORTING LIMITS

RSK-175M

Laboratory: BC Laboratories
SDG: 17-03077
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
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/6/2017 3:58:15PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
RSK-175M

MW-360-2_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-03	File ID:	10FEB11.D
Sampled:	02/02/17 08:45	Prepared:	02/08/17 12:21	Analyzed:	02/10/17 07:40
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

Reported: 3/6/2017 3:58:15PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
RSK-175M

MW4-2-16_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-05	File ID:	10FEB12.D
Sampled:	02/02/17 10:50	Prepared:	02/08/17 12:21	Analyzed:	02/10/17 07:47
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	0.045	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

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

Reported: 3/6/2017 3:58:15PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
RSK-175M

372-MW-03_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-13	File ID:	10FEB13.D
Sampled:	02/02/17 12:56	Prepared:	02/08/17 12:21	Analyzed:	02/10/17 07:54
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

Reported: 3/6/2017 3:58:15PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
RSK-175M

MW4-2-14_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-19	File ID:	10FEB14.D
Sampled:	02/02/17 11:50	Prepared:	02/08/17 12:21	Analyzed:	02/10/17 08:00
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	0.0020	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

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

PREPARATION BATCH SUMMARY

RSK-175M

Laboratory: BC Laboratories
SDG: 17-03077
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
MW-360-2_170202	1703077-03	10FEB11.D	02/08/17 12:21	
MW4-2-16_170202	1703077-05	10FEB12.D	02/08/17 12:21	
372-MW-03_170202	1703077-13	10FEB13.D	02/08/17 12:21	
MW4-2-14_170202	1703077-19	10FEB14.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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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
RSK-175M

Laboratory:	BC Laboratories			SDG:	17-03077
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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Reported: 3/6/2017 3:58:15PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
RSK-175M

Laboratory: BC Laboratories
SDG: 17-03077
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

AMEC Environmental & Infrastructure
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Reported: 3/6/2017 3:58:15PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

RSK-175M

Laboratory:	BC Laboratories	SDG:	17-03077
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

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

Reported: 3/6/2017 3:58:15PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

RSK-175M

Laboratory: BC Laboratories
SDG: 17-03077
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
MW-360-2_170202	1703077-03	10FEB11.D	02/10/17 07:40
MW4-2-16_170202	1703077-05	10FEB12.D	02/10/17 07:47
372-MW-03_170202	1703077-13	10FEB13.D	02/10/17 07:54
MW4-2-14_170202	1703077-19	10FEB14.D	02/10/17 08:00
Calibration Check	1702341-CCV3	10FEB19.D	02/10/17 08:46
Calibration Blank	1702341-CCB3	10FEB20.D	02/10/17 08:51

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
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Reported: 3/6/2017 3:58:15PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

RSK-175M

Laboratory:	BC Laboratories	SDG:	17-03077
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

AMEC Environmental & Infrastructure
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Reported: 3/6/2017 3:58:15PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

RSK-175M

Laboratory:	BC Laboratories	SDG:	17-03077
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

AMEC Environmental & Infrastructure
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San Diego, CA 92123

Reported: 3/6/2017 3:58:15PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

RSK-175M

Laboratory:	BC Laboratories	SDG:	17-03077
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

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

CONTINUING CALIBRATION CHECK

RSK-175M

Laboratory:	BC Laboratories	SDG:	17-03077
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

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

Reported: 3/6/2017 3:58:15PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

RSK-175M

Laboratory:	BC Laboratories	SDG:	17-03077
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

AMEC Environmental & Infrastructure
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Reported: 3/6/2017 3:58:15PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL CALIBRATION STANDARDS

RSK-175M

Laboratory:	BC Laboratories	SDG:	17-03077
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

AMEC Environmental & Infrastructure
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Reported: 3/6/2017 3:58:15PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL CALIBRATION DATA
RSK-175M

Laboratory:	BC Laboratories	SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Calibration:	1702007	Instrument:	GC-V1
Matrix:	Water	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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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL CALIBRATION DATA (Continued)

RSK-175M

Laboratory: BC Laboratories
SDG: 17-03077
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	

AMEC Environmental & Infrastructure
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Reported: 3/6/2017 3:58:15PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

HOLDING TIME SUMMARY
RSK-175M

Laboratory: BC Laboratories
SDG: 17-03077
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
MW-360-2_170202	02/02/17 08:45	02/02/17 21:40	02/08/17 12:21	8.00	14.00	02/10/17 07:40	8.00	14.00	
MW4-2-16_170202	02/02/17 10:50	02/02/17 21:40	02/08/17 12:21	8.00	14.00	02/10/17 07:47	8.00	14.00	
372-MW-03_170202	02/02/17 12:56	02/02/17 21:40	02/08/17 12:21	8.00	14.00	02/10/17 07:54	8.00	14.00	
MW4-2-14_170202	02/02/17 11:50	02/02/17 21:40	02/08/17 12:21	8.00	14.00	02/10/17 08:00	8.00	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
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Reported: 3/6/2017 3:58:15PM
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: 1703077

Laboratory Documentation Requirements
For Data Validation of
Wet Chemistry Analysis

Prepared By

BC Laboratories

For AMEC Environmental & Infrastructure

5023146096

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Case Narrative

Analyses Requested: **Gen-Chem.**
Submission #: 17-03077

Method 160.1
Instrument ID: Manual
Sample Volume(s): 100ml/100ml

Method 300.0
Instrument ID: 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 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.

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 17-03077

DATE: 2/2/2017
COC #: COC170202
PAGE: 1 OF 3

Project Name:	Alameda Basewide	Project Contact:	Marina Mitchell	Bill To:	Amec Foster Wheeler	Disposal Instructions:	LAB
Project Number:	5023140066	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)	Diss. Gases- (RSK175)	Anions- (EPA 300.0)	Alkalinity (EPA 310.2)	Sulfide (EPA 376.2)	TDS (EPA 160.1)	24 Hour	48 Hour	72 Hour	5 Days	TOTAL BOTTLES	HOLD All Analyses
1	DUP20_170202	02/02/17 11:05	WG	FD	N	X											
2	M04-06_170202	02/02/17 10:12	WG	N	N	X											
3	MW-360-2_170202	02/02/17 08:45	WG	N	N	X	X	X	X	X	X						
4	MW4-2-10_170202	02/02/17 09:35	WG	N	N	X											
5	MW4-2-16_170202	02/02/17 10:50	WG	N	N	X	X	X	X	X	X						
6	MW4-2-19_170202	02/02/17 10:05	WG	N	Y	X											
7	MW4-2-4_170202	02/02/17 10:05	WG	N	N	X											
8	MW4-2-6_170202	02/02/17 09:05	WG	N	N	X											
9	MW97-3_170202	02/02/17 08:28	WG	N	N	X											
10	S3-TT-MW01_170202	02/02/17 09:17	WG	N	N	X											
11	S4-TT-MW03D_170202	02/02/17 11:35	WG	N	N	X											
12	S4-TT-MW03E_170202	02/02/17 11:00	WG	N	N	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: 2/2/17	Time: 14:30	
Relinquished By/Affiliation: Mef Rich	Date: 2/2/17	Time: 14:40	
Received By: Mary Bogan	Date: 2/2/17	Time: 14:40	
Relinquished By/Affiliation: Mary Bogan	Date: 2-2-17	Time: 1830	
Received By:	Date: 2/2/17	Time: 1830	
Relinquished By/Affiliation:	Date: 2/2/17	Time: 2140	
Received By (LAB):	Date: 2/2	Time: 2140	

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:

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

17-03077

DATE: 2/2/2017
COC #: COC170202
PAGE: 2 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)	Diss. Gases- (RSK175)	Anions- (EPA 300.0)	Alkalinity (EPA 310.2)	Sulfide (EPA 376.2)	TDS (EPA 160.1)	24 Hour	48 Hour	72 Hour	5 Days	TOTAL BOTTLES	HOLD All Analyses
1	372-MW-03_170202 -13	02/02/17 12:56	WG	N	N	X	X	X	X	X	X						
2	D03-04_170202 -14	02/02/17 12:15	WG	N	N	X											
3	DUP14_170202 -15	02/02/17 12:20	WG	FD	N	X											
4	DUP17_170202 -16	02/02/17 11:55	WG	FD	N	X											
5	DUP19_170202 -17	02/02/17 12:10	WG	FD	N	X											
6	MW4-2-11_170202 -18	02/02/17 13:10	WG	N	N	X											
7	MW4-2-14_170202 -19	02/02/17 11:50	WG	N	N	X	X	X	X	X	X						
8	S4-TT-MW03A_170202 -20	02/02/17 13:40	WG	N	N	X											
9	S4-TT-MW03B_170202 -21	02/02/17 13:05	WG	N	N	X											
10	S4-TT-MW03C_170202 -22	02/02/17 12:05	WG	N	N	X											
11	TB09_170202 -23	02/02/17 12:00	WQ	TB	N	X											
12	TB10_170202 -24	02/02/17 12:15	WQ	TB	N	X											

Sampler's Signature:	Date: 2/2/17	Time: 14:30
Relinquished By/Affiliation:	Date: 2/2/17	Time: 16:40
Received By:	Date: 2/2/17	Time: 16:40
Relinquished By/Affiliation:	Date: 2-2-17	Time: 1830
Received By:	Date: 2/2/17	Time: 18:30
Relinquished By/Affiliation:	Date: 2/2/17	Time: 2140
Received By (LAB):	Date: 2/2	Time: 2140

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

17-03077

DATE: 2/2/2017
COC #: COC170202
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:	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)	Diss. Gases- (RSK175)	Anions- (EPA 300.0)	Alkalinity (EPA 310.2)	Sulfide (EPA 376.2)	TDS (EPA 160.1)	24 Hour	48 Hour	72 Hour	5 Days	TOTAL BOTTLES	HOLD All Analyses
1	EB17_170202 -25	02/02/17 14:00	WQ	EB	N	X											
2	EB18_170202 -26	02/02/17 14:15	WQ	EB	N	X											
3	EB19_170202 -27	02/02/17 14:30	WQ	EB	N	X											
4	M04-07_170202 -28	02/02/17 13:46	WG	N	N	X											
5	MW4-2-12_170202 -29	02/02/17 13:55	WG	N	N	X											
6																	
7																	
8																	
9																	
10																	
11																	
12																	

	Date:	Time:
Sampler's Signature:	2/2/17	14:30
Relinquished By/Affiliation:	2/2/17	14:40
Received By:	2/2/17	14:40
Relinquished By/Affiliation:	2-2-17	1830
Received By:	2/2/17	18:30
Relinquished By/Affiliation:	2/2/17	2140
Received By (LAB):	2/2	2140

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 1703077 Page 4 of 7

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 4

Submission #: 17-03077

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 2/2 21:40
Temperature: (A) 0.1 °C / (C) 0.4 °C Analyst Init GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	3	5	7	12	13	18	19	20	21
QT PE UNPRES		GH								
4oz / 8oz / 16oz PE UNPRES		GH	GH					G		
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE		I	I					I		
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
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL ~~504~~ RSK		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: AA Date/Time: 2/2/17 2210
A = Actual / C = Corrected

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Chain of Custody and Cooler Receipt Form for 1703077 Page 5 of 7

BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 4

Submission #: 17-03077

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 2/2 21:40
Temperature: (A) 0.1 °C / (C) 0.4 °C Analyst Init GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS 124	25	126	127	128	129	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										
A PHENOLICS										
0ml VOA VIAL TRAVEL BLANK	ABC									
0ml VOA VIAL		ABC	ABC	ABC	ABC	ABC				
PT EPA 1664										
T ODOR										
ADIOLOGICAL										
ACTERIOLOGICAL										
0 ml VOA VIAL- 504										
T EPA 508/608/8080										
T EPA 515.1/8150										
T EPA 525										
T EPA 525 TRAVEL BLANK										
ml EPA 547										
ml EPA 531.1										
EPA 548										
T EPA 549										
T EPA 8015M										
T EPA 8270										
/ 16oz / 32oz AMBER										
/ 16oz / 32oz JAR										
IL SLEEVE										
B VIAL										
ASTIC BAG										
DLAR BAG										
RROUS IRON										
CORE										
ART KIT										
MMA CANISTER										

ments:
ple Numbering Completed By: Date/Time: 2-2-17 2215
Actual / C = Corrected

Rev 21 05/23/2016
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Chain of Custody and Cooler Receipt Form for 1703077 Page 6 of 7

BC LABORATORIES INC. COOLER RECEIPT FORM Page 3 Of 4

Submission #: 1708077

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
Temperature: (A) 0.3 °C / (C) 0.6 °C
Date/Time 2/2 21:40
Analyst Init GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	#2	#4	#5	#6	#8	#9	#10	#11	#13	#14
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}									GH	
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE									I	
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	ABC	ABC	ABC	ABC-I	ABC	ABC	ABC	ABC		ABC
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL ~~504~~ RSK			DEP							
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: 2-2-17 2250
A = Actual / C = Corrected

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Chain of Custody and Cooler Receipt Form for 1703077 Page 7 of 7

BC LABORATORIES INC. COOLER RECEIPT FORM Page 4 Of 4

Submission #: 17-03077

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
Temperature: (A) 0.3 °C / (C) 0.6 °C
Date/Time 2/2 21:40
Analyst Init GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	#15	#16	#17	#19	#22	#23	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES				H						
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						ABC				
40ml VOA VIAL	ABC	ABC	ABC	ABC	ABC					
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL ~~504~~ RSK				DCB						
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										
4oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
4oz / 16oz / 32oz AMBER										
4oz / 16oz / 32oz JAR										
OIL SLEEVE										
TCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:
Sample Numbering Completed By: Date/Time: 2/2/17 2234

Rev 21 05/23/2016

AMEC Environmental & Infrastructure 9210 Sky Park Court #200 San Diego, CA 92123	Reported: 3/7/2017 3:01:25PM Project: Alameda Project Number: 5023146096 Project Manager: Kelli Miller

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

SDG:	**17-03077**
Class:	**WET**
Method:	**EPA-160.1**

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

Reported: 3/7/2017 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSES DATA PACKAGE COVER PAGE

EPA-160.1

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
MW-360-2_170202	1703077-03
MW4-2-16_170202	1703077-05
372-MW-03_170202	1703077-13
MW4-2-14_170202	1703077-19

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 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD DETECTION AND REPORTING LIMITS

EPA-160.1

Laboratory: BC Laboratories
SDG: 17-03077
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 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-160.1

MW-360-2_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-03
File ID:
Sampled: 02/02/17 08:45
Prepared: 02/08/17 13:00
Analyzed: 02/08/17 13:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 100 ml / 100 ml
Batch: B[B0681
Sequence: 1702365
Calibration: UNASSIGNED
Instrument: MANUAL

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Dissolved Solids @ 180 C	1800	100	100	100	10	D	EPA-160.1

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

Reported: 3/7/2017 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-160.1

MW4-2-16_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-05
File ID:
Sampled: 02/02/17 10:50
Prepared: 02/08/17 13:00
Analyzed: 02/08/17 13:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 100 ml / 100 ml
Batch: B[B0681
Sequence: 1702365
Calibration: UNASSIGNED
Instrument: MANUAL

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Dissolved Solids @ 180 C	1400	100	100	100	10	D	EPA-160.1

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

Reported: 3/7/2017 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-160.1

372-MW-03_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-13
File ID:
Sampled: 02/02/17 12:56
Prepared: 02/08/17 13:00
Analyzed: 02/08/17 13:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 100 ml / 100 ml
Batch: B[B0681
Sequence: 1702365
Calibration: UNASSIGNED
Instrument: MANUAL

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Dissolved Solids @ 180 C	57	6.7	6.7	6.7	0.667	D	EPA-160.1

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

Reported: 3/7/2017 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-160.1

MW4-2-14_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-19
File ID:
Sampled: 02/02/17 11:50
Prepared: 02/08/17 13:00
Analyzed: 02/08/17 13:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 100 ml / 100 ml
Batch: B[B0681
Sequence: 1702365
Calibration: UNASSIGNED
Instrument: MANUAL

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Dissolved Solids @ 180 C	680	33	33	33	3.33	D	EPA-160.1

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

Reported: 3/7/2017 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

PREPARATION BATCH SUMMARY

EPA-160.1

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Batch: B[B0681
Batch Matrix: Water
Preparation: No Prep

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
MW-360-2_170202	1703077-03		02/08/17 13:00	
MW4-2-16_170202	1703077-05		02/08/17 13:00	
372-MW-03_170202	1703077-13		02/08/17 13:00	
MW4-2-14_170202	1703077-19		02/08/17 13:00	
Blank	B[B0681-BLK1		02/08/17 13:00	
LCS	B[B0681-BS1		02/08/17 13:00	
MW-360-2_170202	B[B0681-DUP1		02/08/17 13:00	

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

Reported: 3/7/2017 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-160.1

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[B0681-BLK1	File ID:	
Prepared:	02/08/17 13:00	Preparation:	No Prep	Initial/Final:	100 ml / 100 ml
Analyzed:	02/08/17 13:00	Instrument:	MANUAL		
Batch:	B[B0681	Sequence:	1702365	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

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

Reported: 3/7/2017 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MW-360-2_170202

DUPLICATES
EPA-160.1

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Matrix: Water
Batch: B[B0681
Preparation: No Prep
Source Sample Name: MW-360-2_170202

SDG: 17-03077
Project: Alameda
Laboratory ID: B[B0681-DUP1
Lab Source ID: 1703077-03
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	1800.0		1760.0		2.25		EPA-160.1

* Values outside of QC limits

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

Reported: 3/7/2017 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-160.1

Laboratory:	BC Laboratories	SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Matrix:	Water		
Batch:	B[B0681	Laboratory ID:	B[B0681-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

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

Reported: 3/7/2017 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-160.1

Laboratory:	BC Laboratories	SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Sequence:	1702365	Instrument:	MANUAL
Matrix:	Water	Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Blank	B[B0681-BLK1		02/08/17 13:00
LCS	B[B0681-BS1		02/08/17 13:00
MW-360-2_170202	1703077-03		02/08/17 13:00
MW-360-2_170202	B[B0681-DUP1		02/08/17 13:00
MW4-2-16_170202	1703077-05		02/08/17 13:00
372-MW-03_170202	1703077-13		02/08/17 13:00
MW4-2-14_170202	1703077-19		02/08/17 13:00

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

Reported: 3/7/2017 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

HOLDING TIME SUMMARY
EPA-160.1

Laboratory: BC Laboratories
SDG: 17-03077
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
MW-360-2_170202	02/02/17 08:45	02/02/17 21:40	02/08/17 13:00	6.00	7.00	02/08/17 13:00	6.00	7.00	
MW4-2-16_170202	02/02/17 10:50	02/02/17 21:40	02/08/17 13:00	6.00	7.00	02/08/17 13:00	6.00	7.00	
372-MW-03_170202	02/02/17 12:56	02/02/17 21:40	02/08/17 13:00	6.00	7.00	02/08/17 13:00	6.00	7.00	
MW4-2-14_170202	02/02/17 11:50	02/02/17 21:40	02/08/17 13:00	6.00	7.00	02/08/17 13:00	6.00	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.

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

Reported: 3/7/2017 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

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

SDG: **17-03077**
Class: **WET**
Method: **EPA-300.0**

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

Reported: 3/7/2017 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSES DATA PACKAGE COVER PAGE

EPA-300.0

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
MW-360-2_170202	1703077-03
MW-360-2_170202	1703077-03RE1
MW4-2-16_170202	1703077-05
MW4-2-16_170202	1703077-05RE1
372-MW-03_170202	1703077-13
MW4-2-14_170202	1703077-19

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 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD DETECTION AND REPORTING LIMITS

EPA-300.0

Laboratory: BC Laboratories
SDG: 17-03077
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
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

MW-360-2_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-03
File ID: E020417.seq-04
Sampled: 02/02/17 08:45
Prepared: 02/03/17 13:00
Analyzed: 02/04/17 01:08
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[B0380
Sequence: 1702022
Calibration: UNASSIGNED
Instrument: IC5

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-55-8	Nitrate as N	0.10	0.044	0.10	0.20	2	UD	EPA-300.0
14808-79-8	Sulfate	170	0.28	0.40	2.0	2	D	EPA-300.0

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

Reported: 3/7/2017 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

MW-360-2_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-03RE1
File ID: E020417.seq-39
Sampled: 02/02/17 08:45
Prepared: 02/03/17 13:00
Analyzed: 02/04/17 11:17
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[B0380
Sequence: 1702022
Calibration: UNASSIGNED
Instrument: IC5

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	580	0.46	0.50	2.5	5	D	EPA-300.0

AMEC Environmental & Infrastructure
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San Diego, CA 92123

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

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

MW4-2-16_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-05
File ID: E020417.seq-15
Sampled: 02/02/17 10:50
Prepared: 02/03/17 13:00
Analyzed: 02/04/17 04:20
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[B0380
Sequence: 1702022
Calibration: UNASSIGNED
Instrument: IC5

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-55-8	Nitrate as N	0.050	0.022	0.050	0.10	1	U	EPA-300.0
14808-79-8	Sulfate	94	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 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

MW4-2-16_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-05RE1
File ID: E020417.seq-45
Sampled: 02/02/17 10:50
Prepared: 02/03/17 13:00
Analyzed: 02/04/17 13:02
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[B0380
Sequence: 1702022
Calibration: UNASSIGNED
Instrument: IC5

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

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

Reported: 3/7/2017 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

372-MW-03_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-13
File ID: E020417.seq-24
Sampled: 02/02/17 12:56
Prepared: 02/03/17 13:00
Analyzed: 02/04/17 06:56
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[B0380
Sequence: 1702022
Calibration: UNASSIGNED
Instrument: IC5

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	4.8	0.092	0.10	0.50	1		EPA-300.0
14797-55-8	Nitrate as N	0.32	0.022	0.050	0.10	1		EPA-300.0
14808-79-8	Sulfate	4.3	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 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

MW4-2-14_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-19
File ID: E020417.seq-23
Sampled: 02/02/17 11:50
Prepared: 02/03/17 13:00
Analyzed: 02/04/17 06:39
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[B0380
Sequence: 1702022
Calibration: UNASSIGNED
Instrument: IC5

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	79	0.092	0.10	0.50	1		EPA-300.0
14797-55-8	Nitrate as N	2.1	0.022	0.050	0.10	1		EPA-300.0
14808-79-8	Sulfate	88	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 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

PREPARATION BATCH SUMMARY

EPA-300.0

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Batch: B[B0380
Batch Matrix: Water
Preparation: No Prep

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
MW-360-2_170202	1703077-03	E020417.seq-04	02/03/17 13:00	
MW-360-2_170202	1703077-03RE1	E020417.seq-39	02/03/17 13:00	Added 2/6/2017 by EMW
MW4-2-16_170202	1703077-05	E020417.seq-15	02/03/17 13:00	
MW4-2-16_170202	1703077-05RE1	E020417.seq-45	02/03/17 13:00	Added 2/6/2017 by EMW
372-MW-03_170202	1703077-13	E020417.seq-24	02/03/17 13:00	
MW4-2-14_170202	1703077-19	E020417.seq-23	02/03/17 13:00	
Blank	B[B0380-BLK1	E020417.seq-51	02/03/17 13:00	
LCS	B[B0380-BS1	E020417.seq-52	02/03/17 13:00	
MW4-2-16_170202	B[B0380-DUP1	E020417.seq-53	02/03/17 13:00	
MW4-2-16_170202	B[B0380-MS1	E020417.seq-54	02/03/17 13:00	
MW4-2-16_170202	B[B0380-MSD1	E020417.seq-55	02/03/17 13:00	

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

Reported: 3/7/2017 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-300.0

Laboratory:	BC Laboratories		SDG:	17-03077	
Client:	AMEC Environmental & Infrastructure $AMCN		Project:	Alameda	
Matrix:	Water	Laboratory ID:	B[B0380-BLK1	File ID:	E020417.seq-51
Prepared:	02/03/17 13:00	Preparation:	No Prep	Initial/Final:	20 ml / 20 ml
Analyzed:	02/04/17 14:46	Instrument:	IC5		
Batch:	B[B0380	Sequence:	1702022	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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San Diego, CA 92123

Reported: 3/7/2017 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MW4-2-16_170202

DUPLICATES
EPA-300.0

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Matrix: Water
Batch: B[B0380
Preparation: No Prep
Source Sample Name: MW4-2-16_170202

SDG: 17-03077
Project: Alameda
Laboratory ID: B[B0380-DUP1
Lab Source ID: 1703077-05RE1
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	425.87		428.17		0.539		EPA-300.0
Nitrate as NO3	10	ND		ND				EPA-300.0
Nitrate as N	10	ND		ND				EPA-300.0
Sulfate	10	82.660		83.055		0.477		EPA-300.0

* Values outside of QC limits

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

Reported: 3/7/2017 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-300.0

MW4-2-16_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0380
Laboratory ID: B[B0380-MS1
Preparation: No Prep
Initial/Final: 19.8 ml / 20 ml
Source Sample Number: 1703077-05RE1

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC. #	QC LIMITS REC.
Chloride	252.53	425.87	678.21	99.9	80 - 120
Nitrate as NO3	111.79	ND	111.59	99.8	80 - 120
Nitrate as N	25.253	ND	25.207	99.8	80 - 120
Sulfate	505.05	82.660	605.29	103	80 - 120

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Chloride	252.53	678.85	100	0.0945	10	80 - 120
Nitrate as NO3	111.79	111.68	99.9	0.0801	10	80 - 120
Nitrate as N	25.253	25.227	99.9	0.0801	10	80 - 120
Sulfate	505.05	607.24	104	0.322	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 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-300.0

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0380
Laboratory ID: B[B0380-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	51.165	102	90 - 110
Nitrate as NO3	22.134	22.546	102	90 - 110
Nitrate as N	5.0000	5.0930	102	90 - 110
Sulfate	100.00	101.67	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 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-300.0

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Sequence: 1702022
Instrument: IC5
Matrix: Water
Calibration: UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	1702022-ICV1	E020417.seq-01	02/04/17 00:16
Initial Cal Blank	1702022-ICB1	E020417.seq-02	02/04/17 00:33
MW-360-2_170202	1703077-03	E020417.seq-04	02/04/17 01:08
Calibration Check	1702022-CCV1	E020417.seq-13	02/04/17 03:45
Calibration Blank	1702022-CCB1	E020417.seq-14	02/04/17 04:02
MW4-2-16_170202	1703077-05	E020417.seq-15	02/04/17 04:20
MW4-2-14_170202	1703077-19	E020417.seq-23	02/04/17 06:39
372-MW-03_170202	1703077-13	E020417.seq-24	02/04/17 06:56
Calibration Check	1702022-CCV2	E020417.seq-25	02/04/17 07:14
Calibration Blank	1702022-CCB2	E020417.seq-26	02/04/17 07:31
Calibration Check	1702022-CCV3	E020417.seq-37	02/04/17 10:42
Calibration Blank	1702022-CCB3	E020417.seq-38	02/04/17 11:00
MW-360-2_170202	1703077-03RE1	E020417.seq-39	02/04/17 11:17
MW4-2-16_170202	1703077-05RE1	E020417.seq-45	02/04/17 13:02
Calibration Check	1702022-CCV4	E020417.seq-49	02/04/17 14:11
Calibration Blank	1702022-CCB4	E020417.seq-50	02/04/17 14:29
Blank	B[B0380-BLK1	E020417.seq-51	02/04/17 14:46
LCS	B[B0380-BS1	E020417.seq-52	02/04/17 15:03
MW4-2-16_170202	B[B0380-DUP1	E020417.seq-53	02/04/17 15:21
MW4-2-16_170202	B[B0380-MS1	E020417.seq-54	02/04/17 15:38
MW4-2-16_170202	B[B0380-MSD1	E020417.seq-55	02/04/17 15:55
Calibration Check	1702022-CCV5	E020417.seq-61	02/04/17 17:40
Calibration Blank	1702022-CCB5	E020417.seq-62	02/04/17 17:57
Calibration Check	1702022-CCV6	E020417.seq-69	02/04/17 19:59
Calibration Blank	1702022-CCB6	E020417.seq-70	02/04/17 20:16

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

Reported: 3/7/2017 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

BLANKS
EPA-300.0

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Instrument ID: IC5
Project: Alameda
Sequence: 1702022
Calibration: UNASSIGNED

Lab Sample ID	Analyte	Found	DL	LOD	LOQ	Units	C	Method
1702022-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
1702022-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
1702022-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
1702022-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
1702022-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
1702022-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
1702022-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 3:01:25PM
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: 17-03077
Project: Alameda
Calibration: UNASSIGNED
Sequence: 1702022

Lab Sample ID	Analyte	True	Found	%R	Units	Method
1702022-ICV1	Chloride	50.000	52.245	104	mg/L	EPA-300.0
	Nitrate as NO3	22.134	22.856	103	mg/L	EPA-300.0
	Nitrate as N	5.0000	5.1630	103	mg/L	EPA-300.0
	Sulfate	100.00	102.65	103	mg/L	EPA-300.0
1702022-CCV1	Chloride	50.000	49.898	99.8	mg/L	EPA-300.0
	Nitrate as NO3	22.134	21.917	99.0	mg/L	EPA-300.0
	Nitrate as N	5.0000	4.9510	99.0	mg/L	EPA-300.0
	Sulfate	100.00	99.306	99.3	mg/L	EPA-300.0
1702022-CCV2	Chloride	50.000	50.079	100	mg/L	EPA-300.0
	Nitrate as NO3	22.134	21.882	98.9	mg/L	EPA-300.0
	Nitrate as N	5.0000	4.9430	98.9	mg/L	EPA-300.0
	Sulfate	100.00	99.268	99.3	mg/L	EPA-300.0
1702022-CCV3	Chloride	50.000	49.879	99.8	mg/L	EPA-300.0
	Nitrate as NO3	22.134	21.873	98.8	mg/L	EPA-300.0
	Nitrate as N	5.0000	4.9410	98.8	mg/L	EPA-300.0
	Sulfate	100.00	99.210	99.2	mg/L	EPA-300.0
1702022-CCV4	Chloride	50.000	49.013	98.0	mg/L	EPA-300.0
	Nitrate as NO3	22.134	21.523	97.2	mg/L	EPA-300.0
	Nitrate as N	5.0000	4.8620	97.2	mg/L	EPA-300.0
	Sulfate	100.00	97.889	97.9	mg/L	EPA-300.0
1702022-CCV5	Chloride	50.000	51.491	103	mg/L	EPA-300.0
	Nitrate as NO3	22.134	22.262	101	mg/L	EPA-300.0
	Nitrate as N	5.0000	5.0290	101	mg/L	EPA-300.0
	Sulfate	100.00	101.51	102	mg/L	EPA-300.0
1702022-CCV6	Chloride	50.000	50.549	101	mg/L	EPA-300.0
	Nitrate as NO3	22.134	22.183	100	mg/L	EPA-300.0
	Nitrate as N	5.0000	5.0110	100	mg/L	EPA-300.0
	Sulfate	100.00	100.91	101	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 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

HOLDING TIME SUMMARY
EPA-300.0

Laboratory: BC Laboratories
SDG: 17-03077
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
MW-360-2_170202	02/02/17 08:45	02/02/17 21:40	02/03/17 13:00	2.00	28.00	02/04/17 01:08	2.00	28.00	
MW-360-2_170202	02/02/17 08:45	02/02/17 21:40	02/03/17 13:00	1.68	2.00	02/04/17 01:08	1.68	2.00	
MW-360-2_170202	02/02/17 08:45	02/02/17 21:40	02/03/17 13:00	2.00	28.00	02/04/17 11:17	2.00	28.00	
MW4-2-16_170202	02/02/17 10:50	02/02/17 21:40	02/03/17 13:00	2.00	28.00	02/04/17 04:20	2.00	28.00	
MW4-2-16_170202	02/02/17 10:50	02/02/17 21:40	02/03/17 13:00	1.73	2.00	02/04/17 04:20	1.73	2.00	
MW4-2-16_170202	02/02/17 10:50	02/02/17 21:40	02/03/17 13:00	2.00	28.00	02/04/17 13:02	2.00	28.00	
372-MW-03_170202	02/02/17 12:56	02/02/17 21:40	02/03/17 13:00	2.00	28.00	02/04/17 06:56	2.00	28.00	
372-MW-03_170202	02/02/17 12:56	02/02/17 21:40	02/03/17 13:00	1.75	2.00	02/04/17 06:56	1.75	2.00	
MW4-2-14_170202	02/02/17 11:50	02/02/17 21:40	02/03/17 13:00	2.00	28.00	02/04/17 06:39	2.00	28.00	
MW4-2-14_170202	02/02/17 11:50	02/02/17 21:40	02/03/17 13:00	1.78	2.00	02/04/17 06:39	1.78	2.00	

* Holding time not met

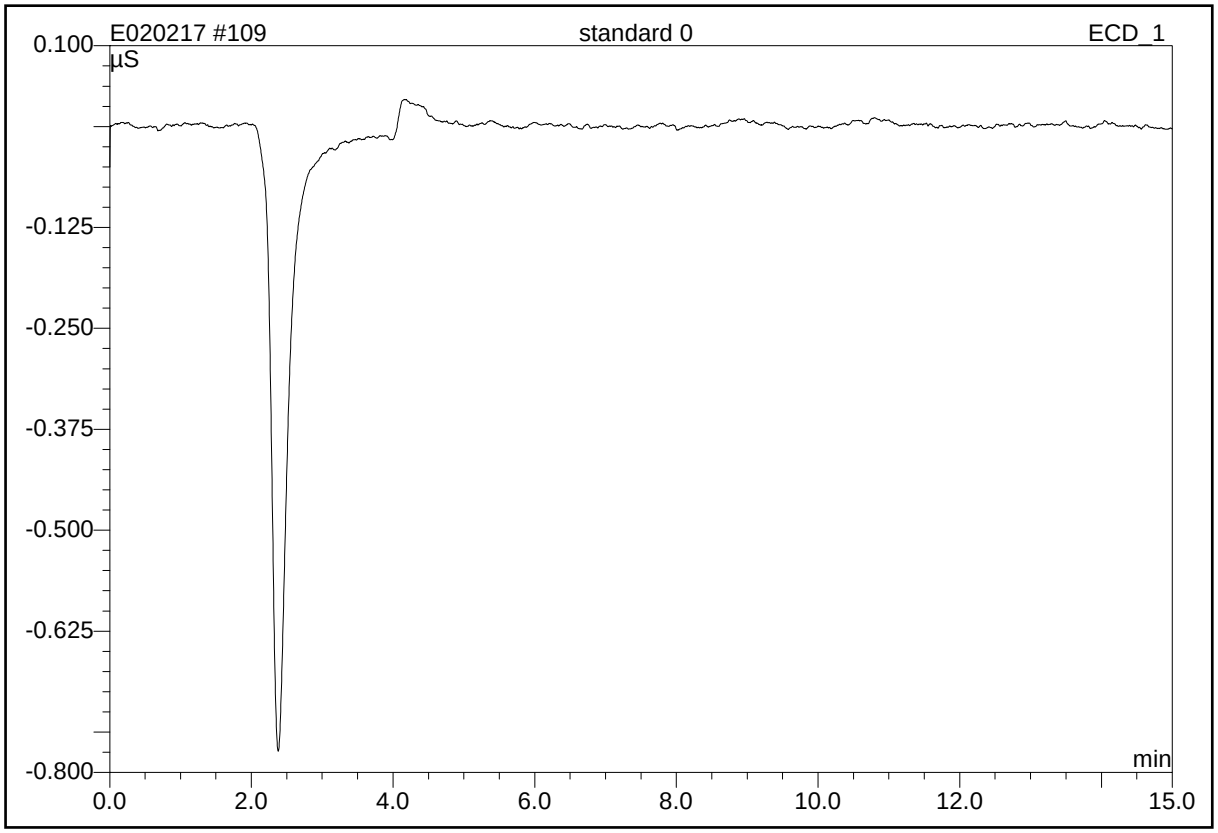
Note: If Prep or Analysis are performed within the hour (if holding time is based on hours) or within the day (if holding time is based on days), then the sample is not flagged as outside holding times. Calculated number of days are based on date received or date prepared depending on the test.

Raw Data From Instrument IC5

Raw Data - Calibration Standards

109 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:	**1/31/2017 20:52**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



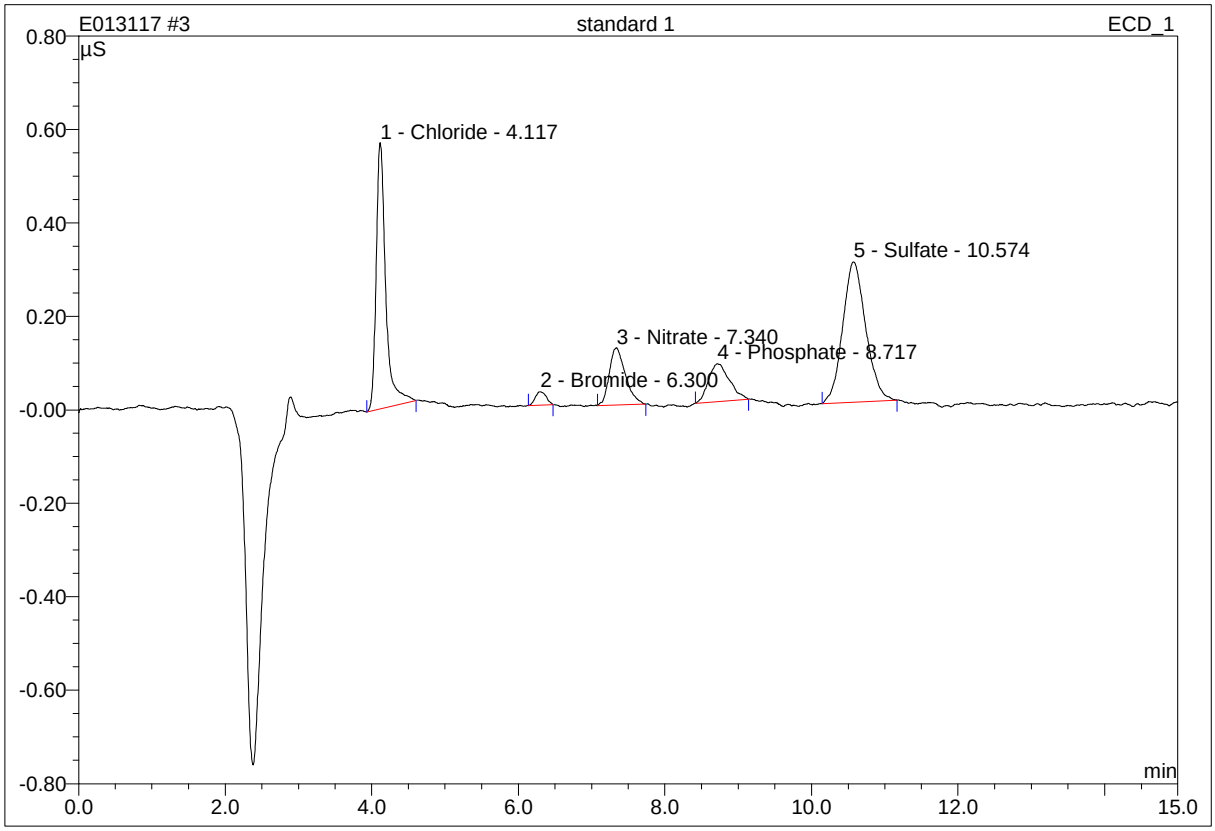
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: 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.

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:	**1/31/2017 21:10**	*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	4.12	Chloride	0.569	0.086	33.22	0.521	BMB
2	6.30	Bromide	0.029	0.005	1.92	0.089	BMB
3	7.34	Nitrate	0.122	0.031	12.09	0.096	BMB
4	8.72	Phosphate	0.081	0.027	10.36	0.177	BMB
5	10.57	Sulfate	0.300	0.109	42.41	1.012	BMB
Total:			1.101	0.258	100.00	1.895	

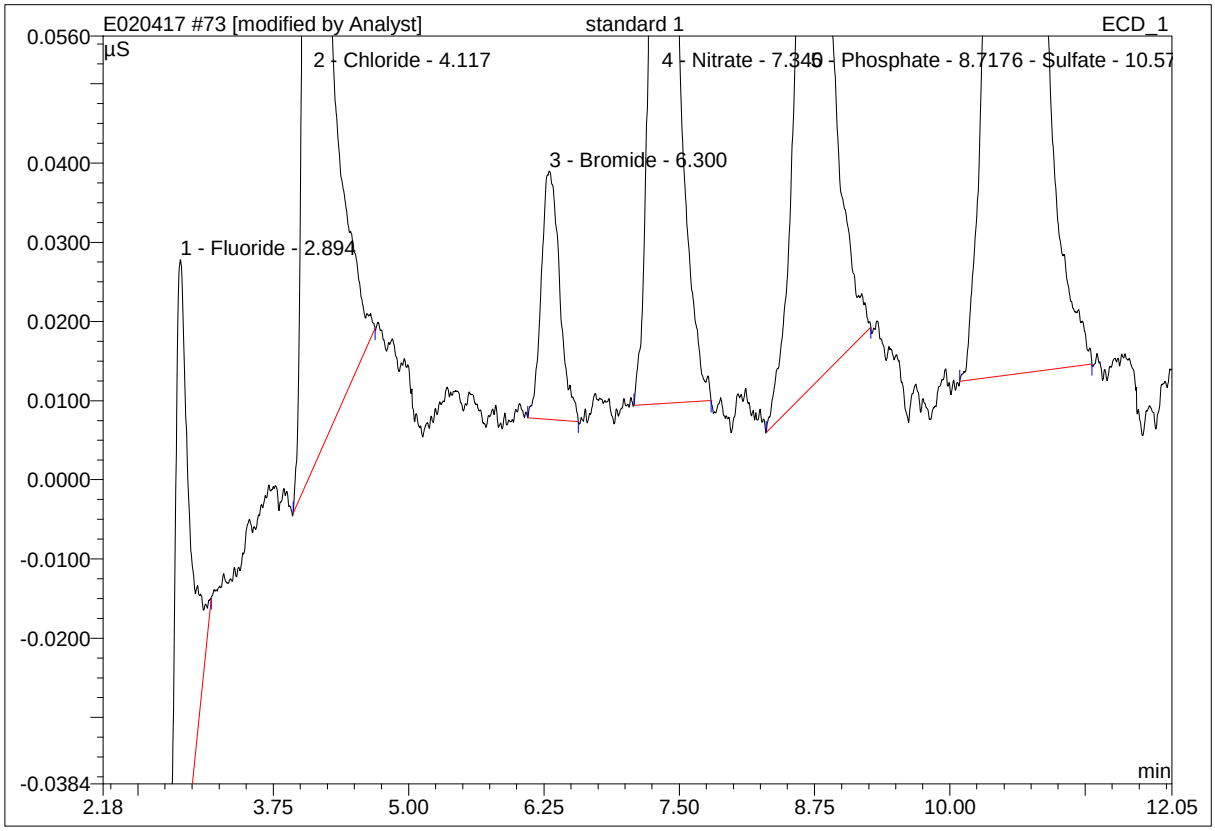
modified on: n.a. By: OLH/EMW/JSW

* = 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.

73 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:	**1/31/2017 21:10**	*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	0.081	0.013	4.58	0.053	BMB*
2	4.12	Chloride	0.570	0.087	30.65	0.525	BMB*
3	6.30	Bromide	0.031	0.006	2.17	0.100	BMB*
4	7.34	Nitrate	0.123	0.032	11.28	0.097	BMB*
5	8.72	Phosphate	0.087	0.032	11.24	0.195	BMB*
6	10.57	Sulfate	0.303	0.114	40.07	1.029	BMB*
Total:			1.197	0.284	100.00	1.999	

modified on: 01.31.17 22:59 By: OLH/EMW/JSW

* = Manual integrations due to peak, rider or baseline error.

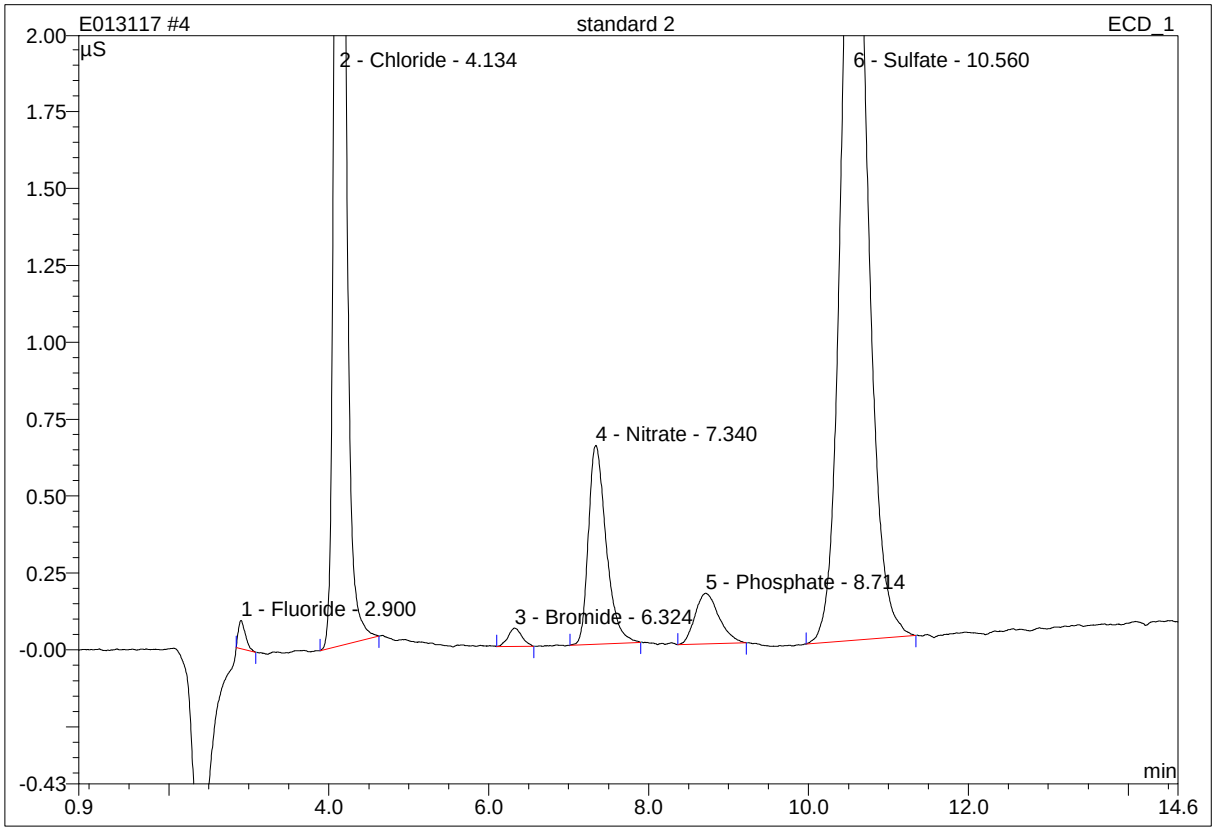
close up/Integration

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.

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:	**1/31/2017 21:27**	*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	2.90	Fluoride	0.092	0.009	0.44	0.047	BMB
2	4.13	Chloride	5.606	0.776	36.53	3.818	BMB
3	6.32	Bromide	0.060	0.012	0.56	0.182	BMB
4	7.34	Nitrate	0.646	0.166	7.82	0.430	BMB
5	8.71	Phosphate	0.165	0.057	2.69	0.333	BMB
6	10.56	Sulfate	3.014	1.105	51.97	7.864	BMB
Total:			9.582	2.125	100.00	12.675	

modified on: n.a. By: OLH/EMW/JSW

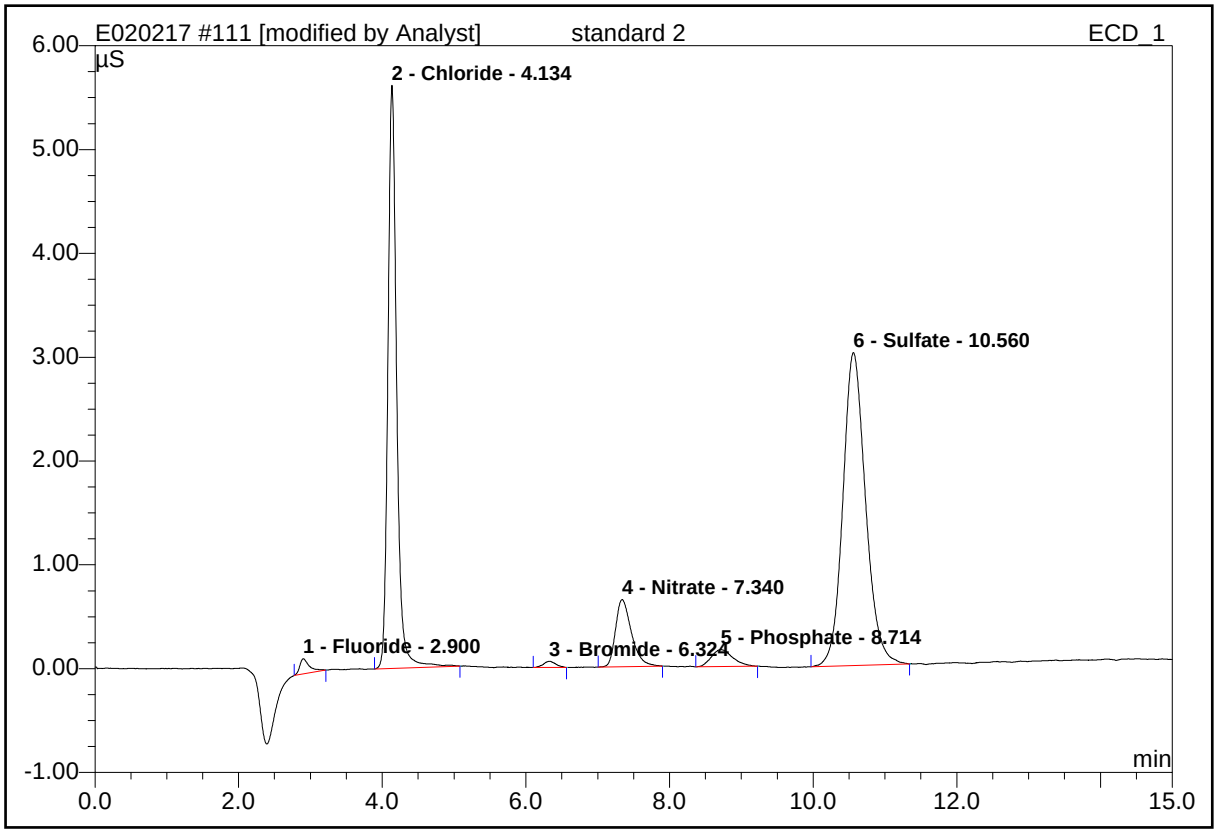
* = Manual integrations due to peak, rider or baseline error.

Chromeleon (c) Dionex 1996-2006
close up/Integration
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.

111 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:	**1/31/2017 21:27**	*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	2.90	Fluoride	0.147	0.023	1.06	0.093	BMB*
2	4.13	Chloride	5.616	0.794	36.83	3.896	BMB*
3	6.32	Bromide	0.060	0.012	0.55	0.182	BMB
4	7.34	Nitrate	0.646	0.166	7.70	0.430	BMB*
5	8.71	Phosphate	0.165	0.057	2.65	0.333	BMB
6	10.56	Sulfate	3.014	1.105	51.21	7.864	BMB
Total:			9.647	2.157	100.00	12.799	

modified on: 01.31.17 23:00 By: OLH/EMW/JSW

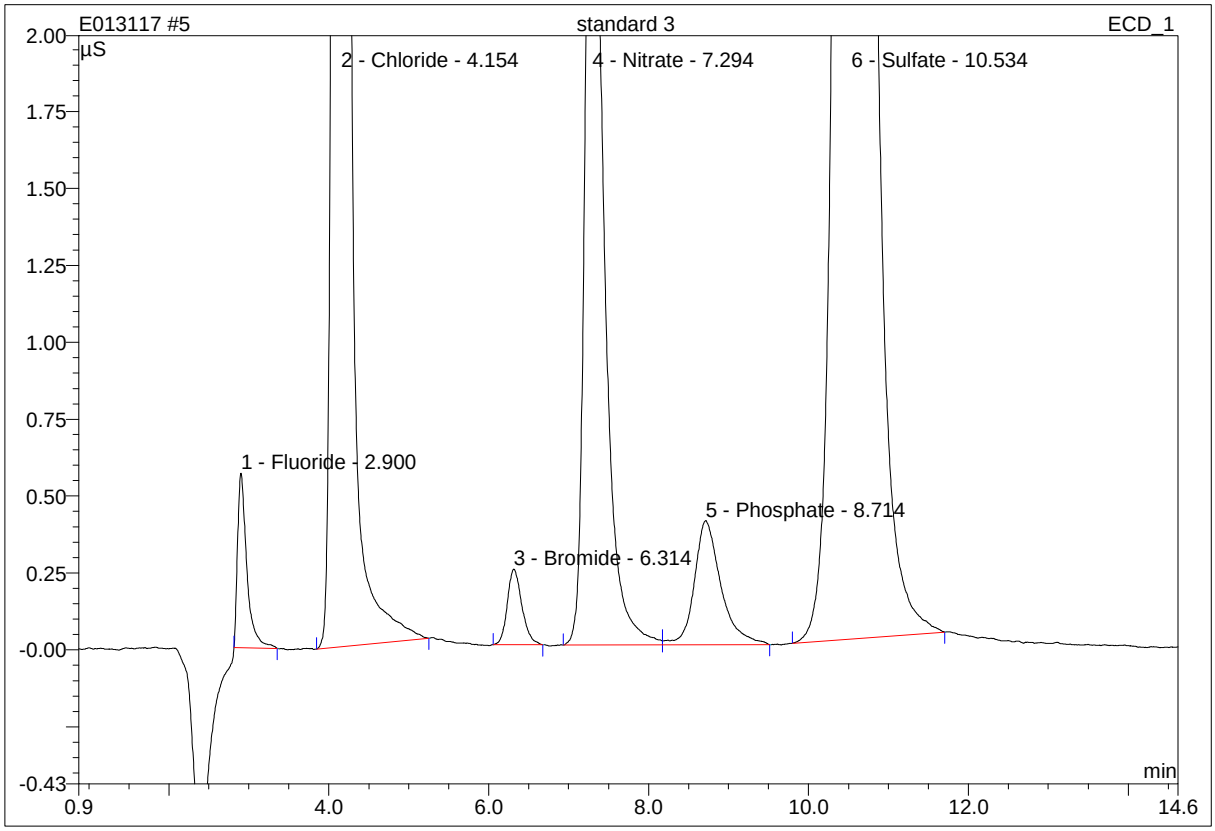
* = Manual integrations due to peak, rider, or baseline errors.

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:	**1/31/2017 21:45**	*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	2.90	Fluoride	0.567	0.077	0.74	0.333	BMB
2	4.15	Chloride	26.713	3.891	37.61	18.343	BMB
3	6.31	Bromide	0.246	0.052	0.50	0.765	BMB
4	7.29	Nitrate	3.067	0.808	7.81	1.976	BM
5	8.71	Phosphate	0.403	0.156	1.50	0.862	MB
6	10.53	Sulfate	14.867	5.361	51.83	36.484	BMB
Total:			45.863	10.343	100.00	58.762	

modified on: n.a. By: OLH/EMW/JSW

* = Manual integrations due to peak, rider or baseline error.

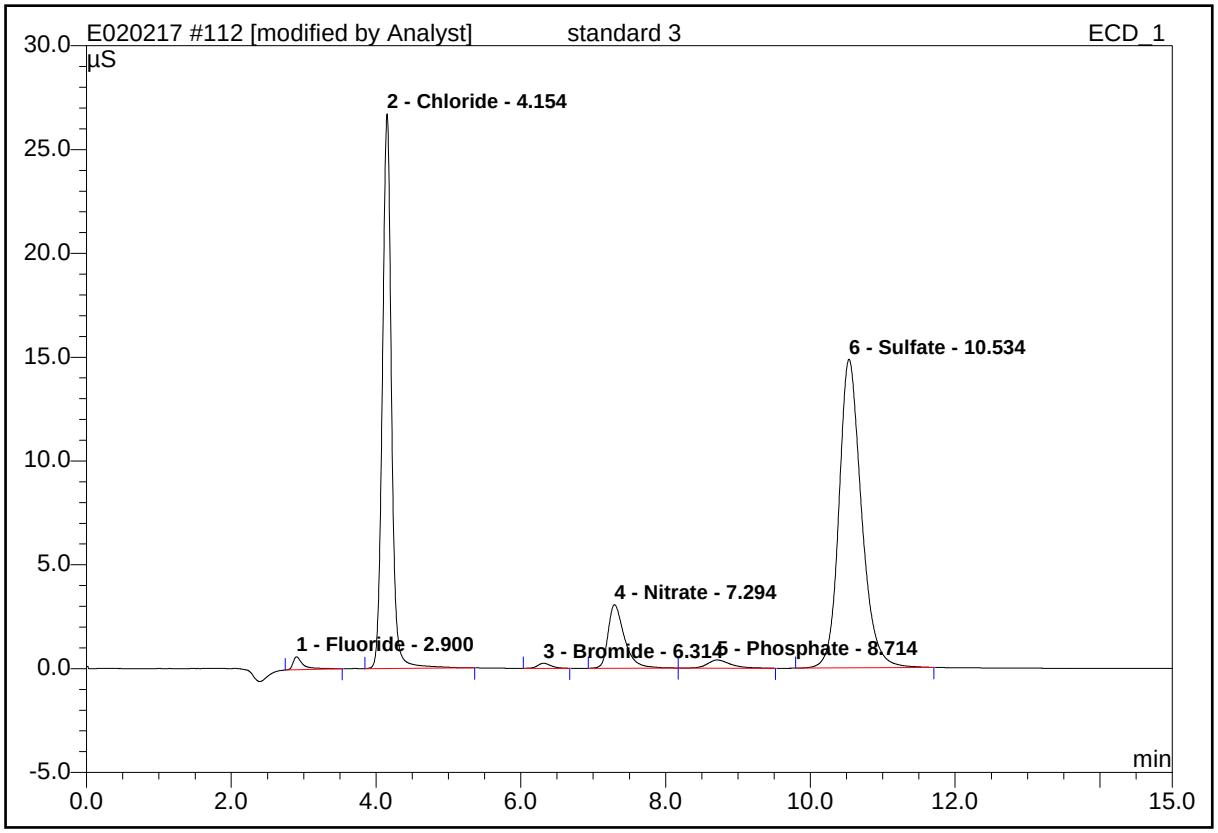
close up/Integration

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.

112 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:	**1/31/2017 21:45**	*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	2.90	Fluoride	0.624	0.102	0.98	0.416	BMB*
2	4.15	Chloride	26.715	3.895	37.61	18.360	BMB*
3	6.31	Bromide	0.246	0.052	0.50	0.768	BMB*
4	7.29	Nitrate	3.063	0.800	7.72	1.961	BMb*
5	8.71	Phosphate	0.395	0.147	1.42	0.826	bMB*
6	10.53	Sulfate	14.867	5.361	51.77	36.484	BMB
Total:			45.910	10.356	100.00	58.815	

modified on: 01.31.17 22:59 By: OLH/EMW/JSW

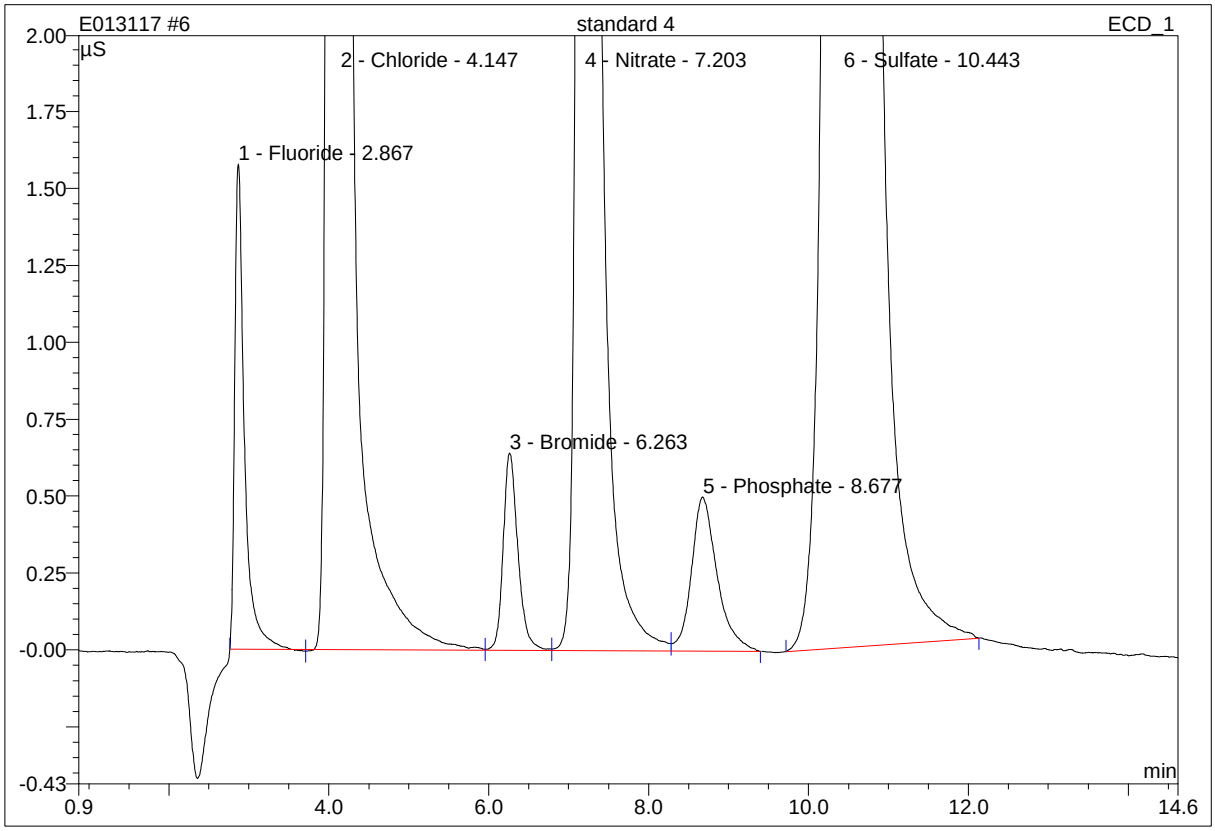
* = Manual integrations due to peak, rider, or baseline errors.

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:	**1/31/2017 22:02**	*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	1.577	0.222	0.76	0.942	BM
2	4.15	Chloride	65.210	11.159	38.05	50.463	M
3	6.26	Bromide	0.641	0.137	0.47	2.001	M
4	7.20	Nitrate	8.248	2.139	7.29	5.001	M
5	8.68	Phosphate	0.501	0.187	0.64	1.049	MB
6	10.44	Sulfate	42.650	15.486	52.80	100.300	BMB
Total:			118.827	29.330	100.00	159.757	

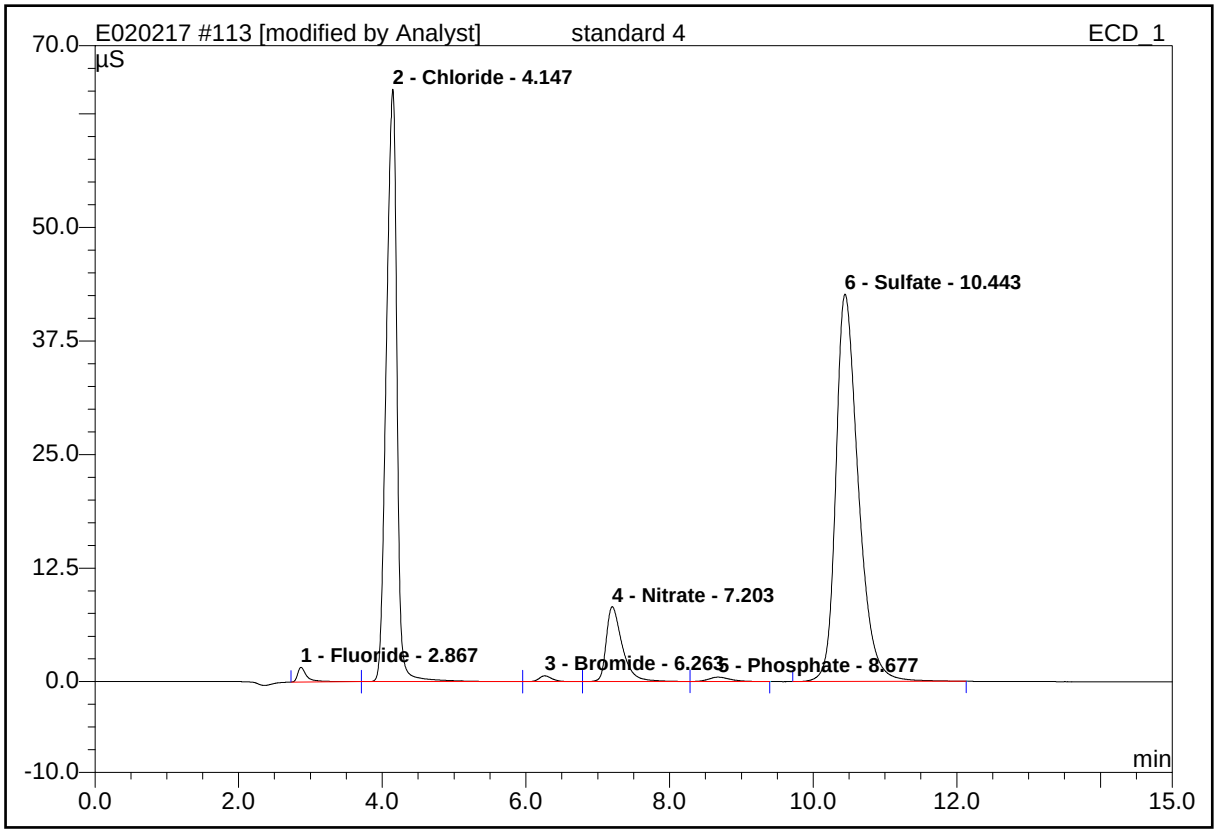
modified on: n.a. By: OLH/EMW/JSW

* = 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.

113 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:	**1/31/2017 22:02**	*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	1.619	0.248	0.84	1.006	BM *
2	4.15	Chloride	65.216	11.171	38.03	50.493	M *
3	6.26	Bromide	0.644	0.139	0.47	2.025	M *
4	7.20	Nitrate	8.251	2.143	7.29	5.005	M *
5	8.68	Phosphate	0.502	0.187	0.64	1.052	MB*
6	10.44	Sulfate	42.650	15.486	52.72	100.300	BMB
Total:			118.882	29.373	100.00	159.882	

modified on: 01.31.17 22:59 By: OLH/EMW/JSW

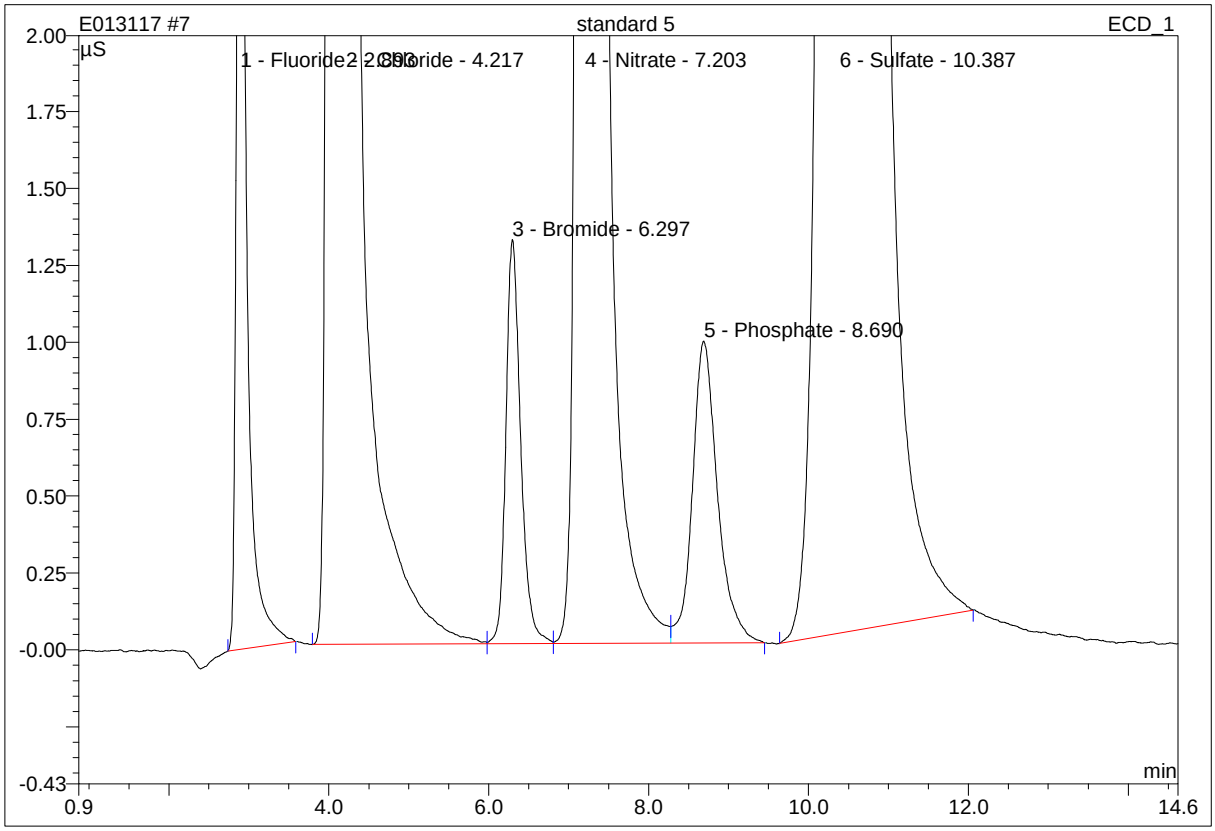
* = Manual integrations due to peak, rider, or baseline errors.

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:	**1/31/2017 22:19**	*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	3.380	0.488	0.76	1.959	BMB
2	4.22	Chloride	109.972	24.337	37.71	103.506	BM
3	6.30	Bromide	1.313	0.282	0.44	4.051	M
4	7.20	Nitrate	18.071	4.668	7.23	10.162	M
5	8.69	Phosphate	0.981	0.357	0.55	2.012	MB
6	10.39	Sulfate	89.992	34.402	53.31	207.460	BMB
Total:			223.710	64.535	100.00	329.151	

modified on: n.a. By: OLH/EMW/JSW

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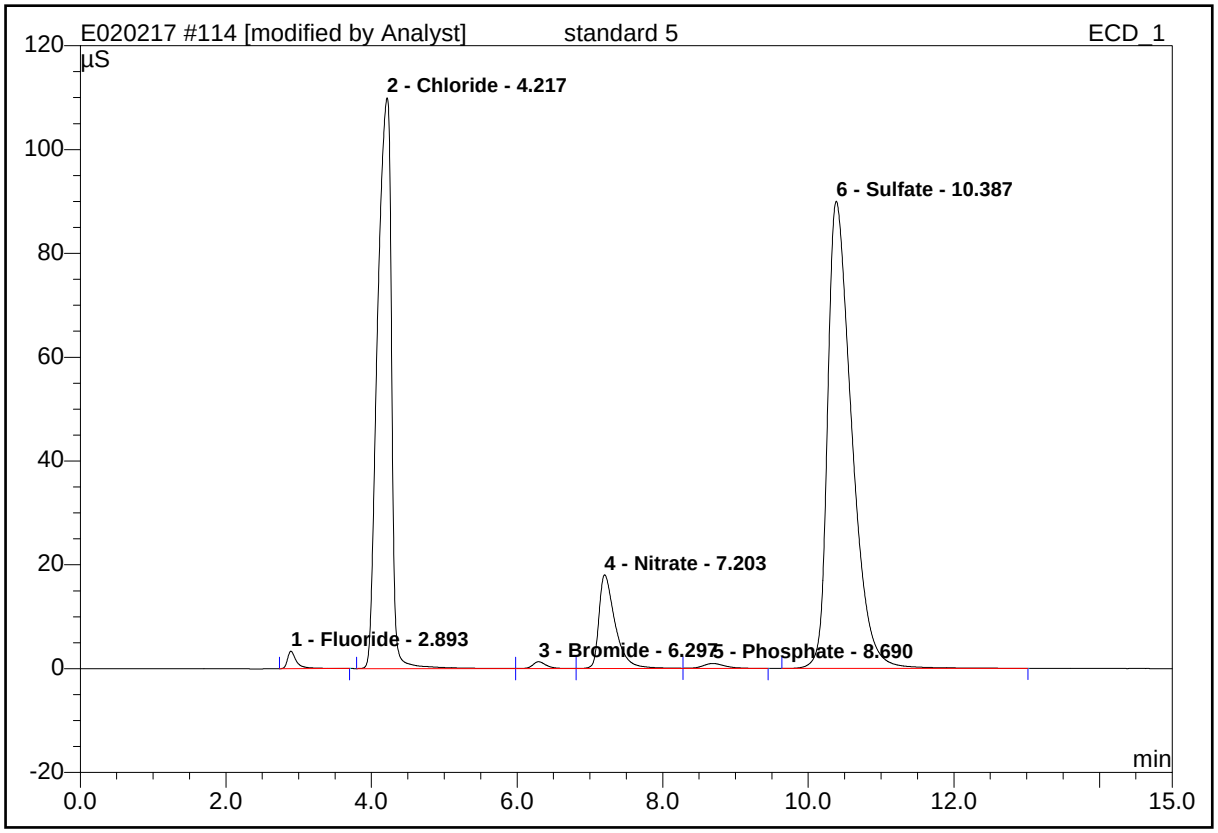
M = Main
R= Rider
BMB = This peak type is for resolved peaks.

114 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:	**1/31/2017 22:19**	*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	3.382	0.492	0.76	1.971	BMB*
2	4.22	Chloride	109.972	24.337	37.63	103.506	BM
3	6.30	Bromide	1.313	0.282	0.44	4.051	M
4	7.20	Nitrate	18.071	4.668	7.22	10.162	M
5	8.69	Phosphate	0.981	0.357	0.55	2.012	MB
6	10.39	Sulfate	90.019	34.543	53.41	207.923	BMB*
Total:			223.739	64.680	100.00	329.625	

modified on: 01.31.17 22:59 By: OLH/EMW/JSW

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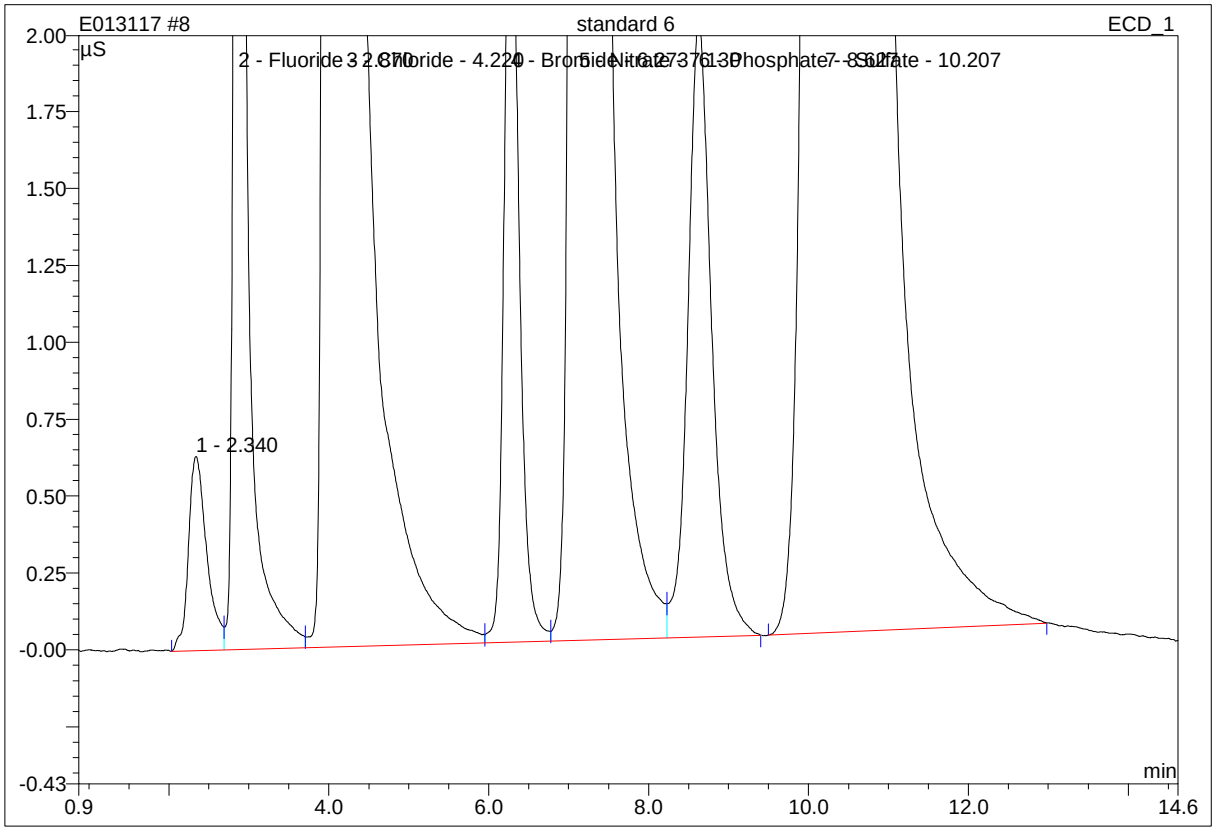
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

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:	**1/31/2017 22:37**	*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	2.34	n.a.	0.631	0.169	0.12	n.a.	BM
2	2.87	Fluoride	7.113	1.073	0.77	4.016	M
3	4.22	Chloride	167.798	51.647	37.27	198.586	M
4	6.27	Bromide	2.730	0.583	0.42	7.986	M
5	7.13	Nitrate	39.432	10.345	7.47	19.939	M
6	8.63	Phosphate	1.999	0.699	0.50	3.983	MB
7	10.21	Sulfate	173.785	74.044	53.44	396.973	BMB
Total:			393.488	138.558	100.00	631.482	

modified on: n.a. By: OLH/EMW/JSW

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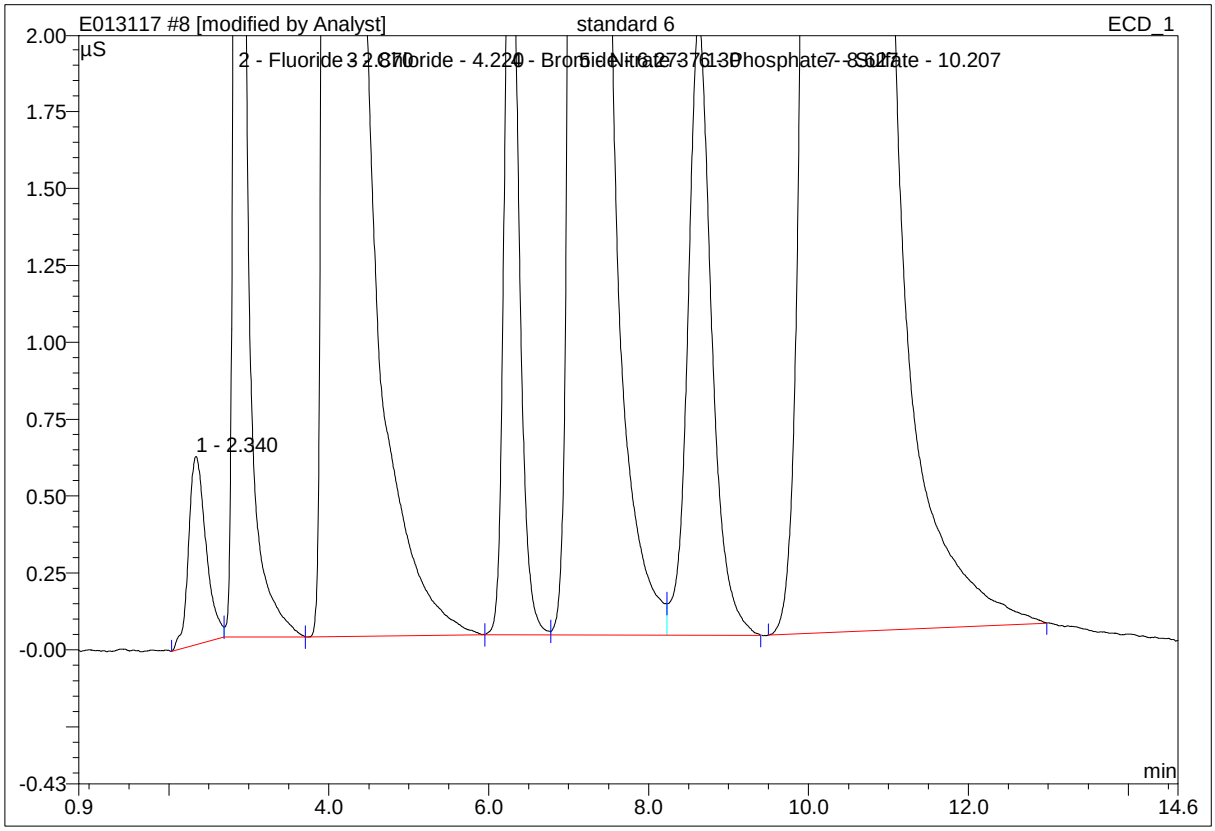
M = Main
R= Rider
BMB = This peak type is for resolved peaks.

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:	**1/31/2017 22:37**	*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	2.34	n.a.	0.612	0.155	0.11	n.a.	BM *
2	2.87	Fluoride	7.072	1.034	0.75	4.011	Mb*
3	4.22	Chloride	167.765	51.578	37.27	198.571	bMb*
4	6.27	Bromide	2.706	0.564	0.41	7.972	bM *
5	7.13	Nitrate	39.415	10.323	7.46	19.937	M *
6	8.63	Phosphate	1.993	0.693	0.50	3.982	MB*
7	10.21	Sulfate	173.785	74.044	53.50	396.973	BMB
Total:			393.347	138.390	100.00	631.446	

modified on: 01.31.17 22:59 By: OLH/EMW/JSW

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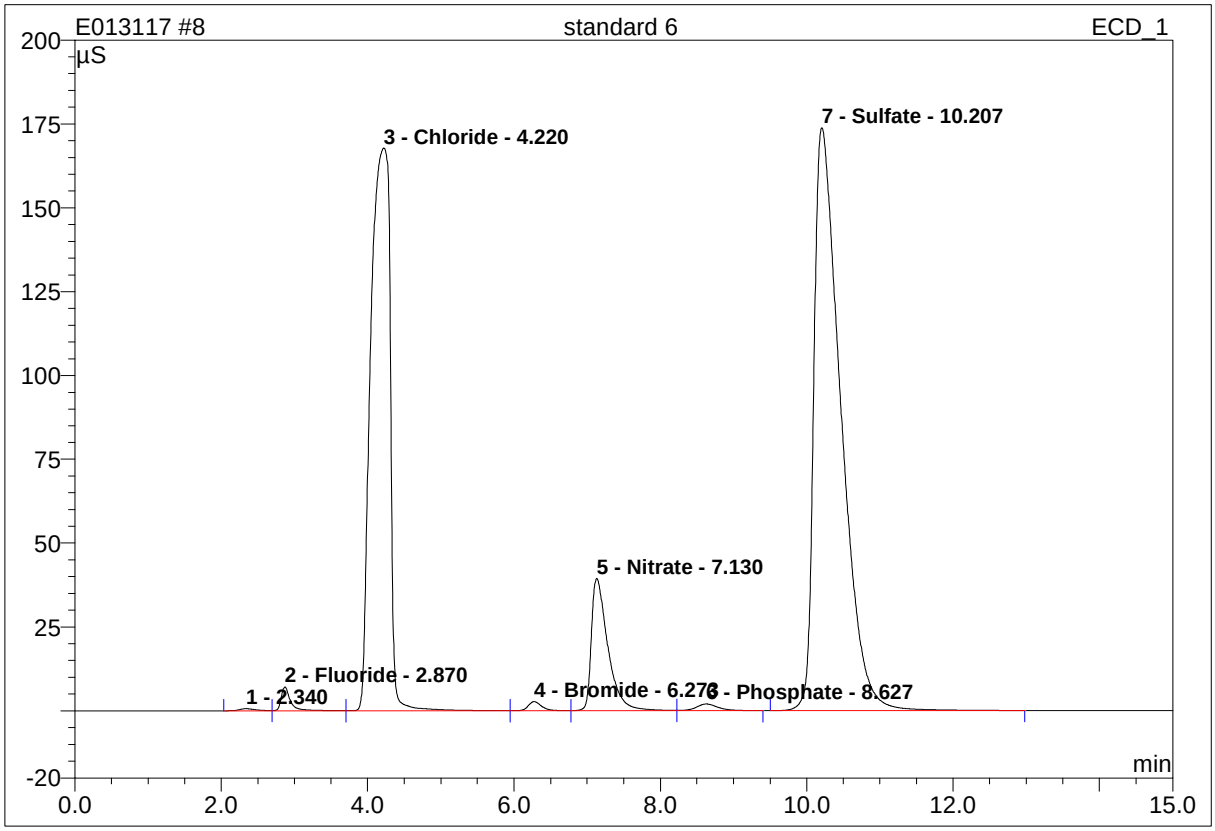
M = Main
R= Rider
BMB = This peak type is for resolved peaks.

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:	**1/31/2017 22:37**	*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	2.34	n.a.	0.631	0.169	0.12	n.a.	BM
2	2.87	Fluoride	7.113	1.073	0.77	3.979	M
3	4.22	Chloride	167.798	51.647	37.27	198.557	M
4	6.27	Bromide	2.730	0.583	0.42	7.980	M
5	7.13	Nitrate	39.432	10.345	7.47	19.942	M
6	8.63	Phosphate	1.999	0.699	0.50	3.987	MB
7	10.21	Sulfate	173.785	74.044	53.44	397.124	BMB
Total:			393.488	138.558	100.00	631.569	

modified on: n.a. By: OLH/EMW/JSW

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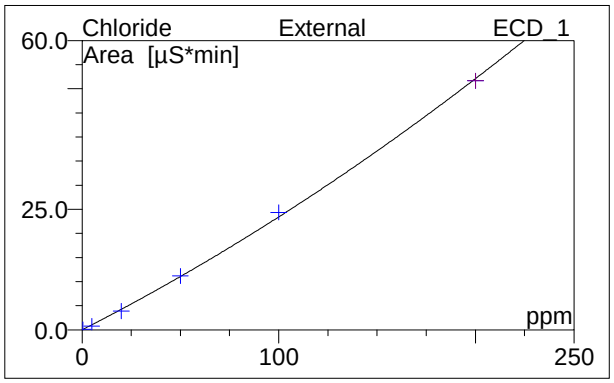
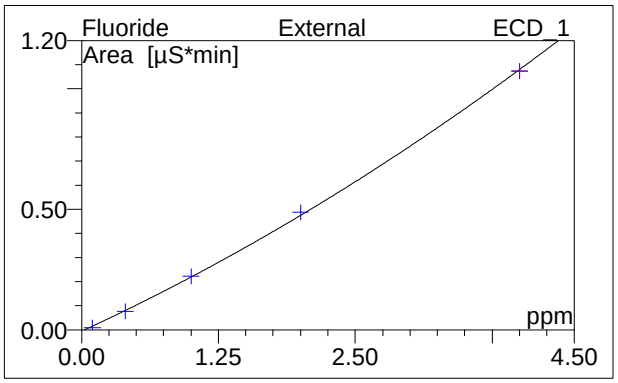
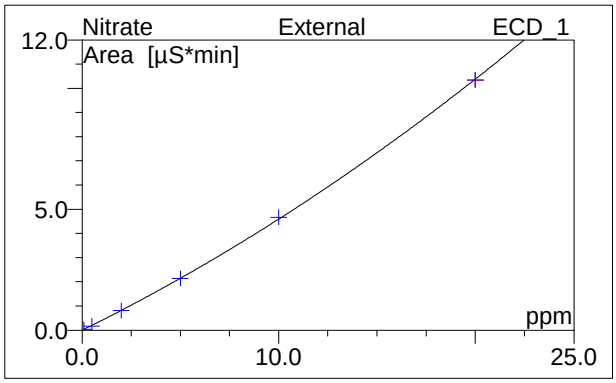
R = Rider
BMB = This peak type is for resolved peaks.

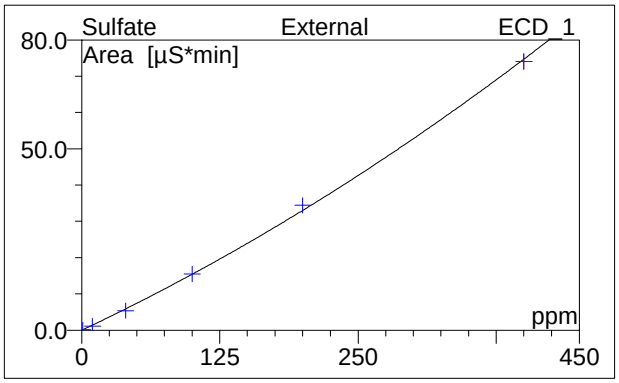
8 standard 6

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:	**1/31/2017 22:37**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**





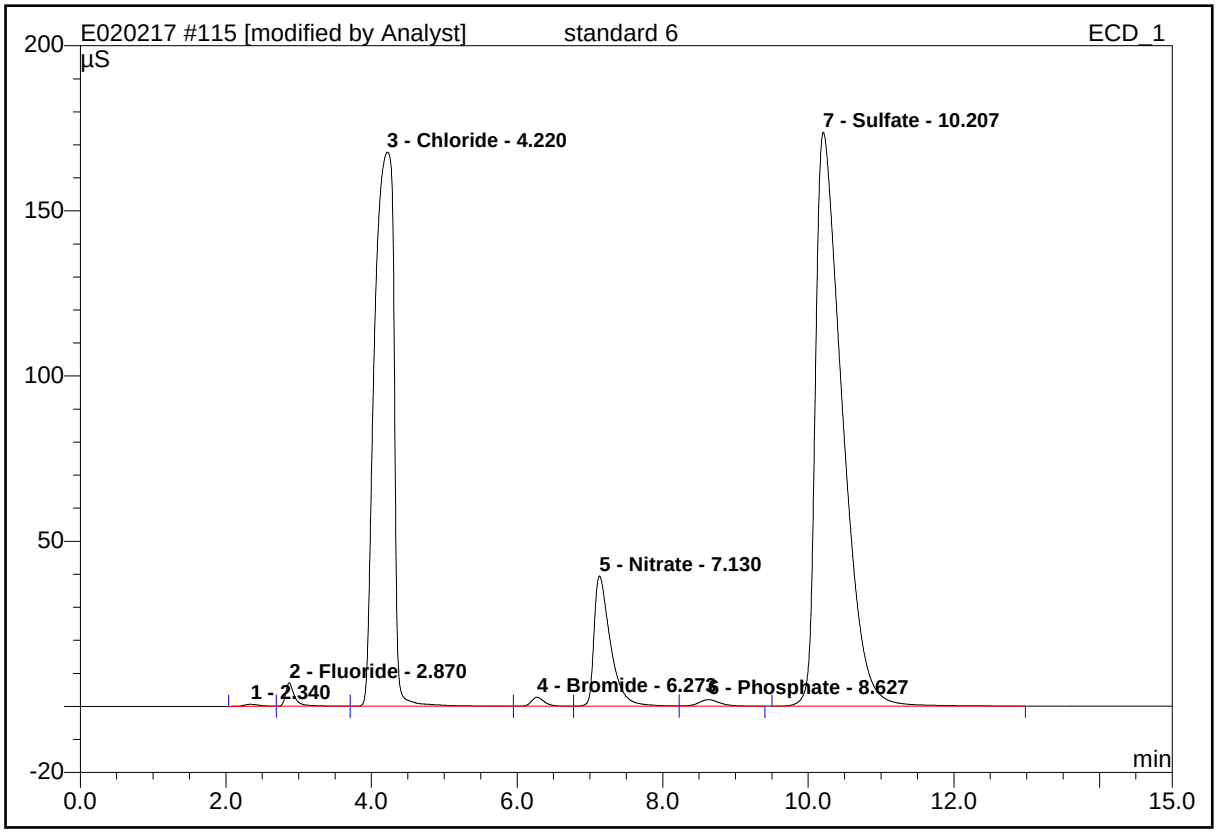




No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	2.34	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	2.87	Fluoride	XA0QOff	5	99.8046	-0.0060	0.2091	0.0156
3	4.22	Chloride	XA0QOff	6	99.8677	-0.0237	0.2081	0.0003
4	6.27	Bromide	XA0QOff	6	99.9699	-0.0010	0.0667	0.0008
5	7.13	Nitrate	XA0QOff	6	99.9667	-0.0072	0.4000	0.0060
6	8.63	Phosphate	XA0QOff	6	99.5449	-0.0061	0.1883	-0.0029
7	10.21	Sulfate	XA0QOff	6	99.8744	-0.0358	0.1435	0.0001
Average:					99.8380	-0.0133	0.2026	0.0033

115 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:	**1/31/2017 22:37**	*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	2.34	n.a.	0.612	0.155	0.11	n.a.	BM *
2	2.87	Fluoride	7.072	1.034	0.75	4.011	Mb*
3	4.22	Chloride	167.765	51.578	37.27	198.571	bMb*
4	6.27	Bromide	2.706	0.564	0.41	7.972	bM *
5	7.13	Nitrate	39.415	10.323	7.46	19.937	M *
6	8.63	Phosphate	1.993	0.693	0.50	3.982	MB*
7	10.21	Sulfate	173.785	74.044	53.50	396.973	BMB
Total:			393.347	138.390	100.00	631.446	

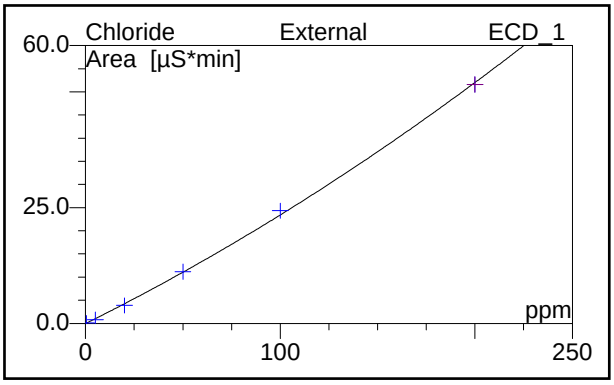
modified on: 01.31.17 22:59 By: OLH/EMW/JSW

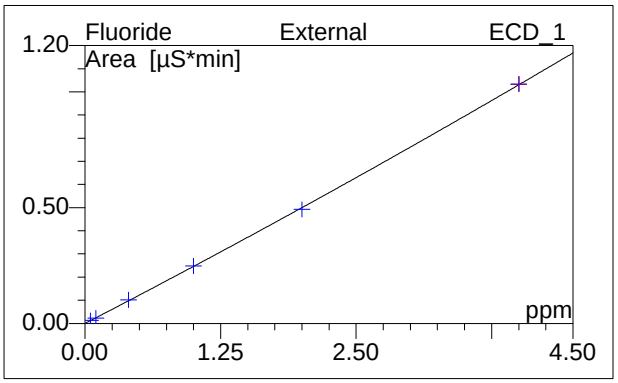
* = Manual integrations due to peak, rider, or baseline errors.

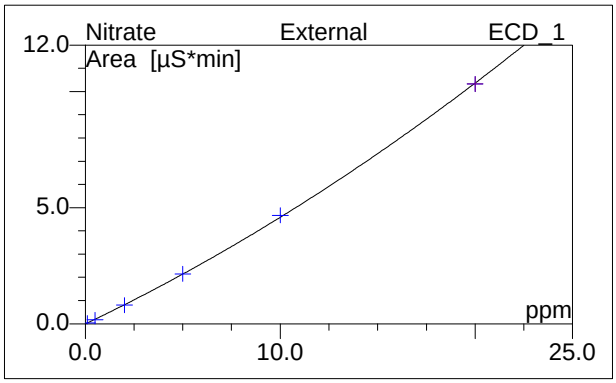
B = Baseline with direct contact on the left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

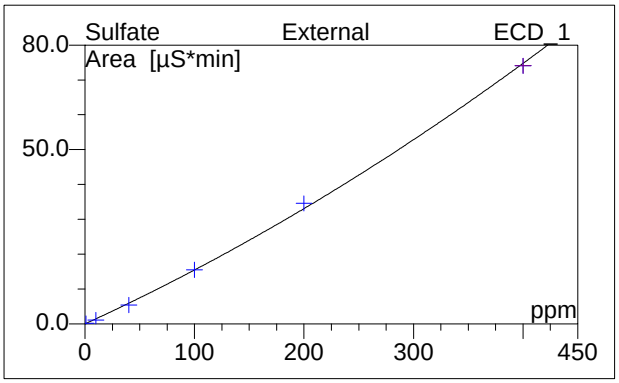
115 standard 6

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:	**1/31/2017 22:37**	*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	2.34	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	2.87	Fluoride	XA0QOff	6	99.9748	0.0002	0.2422	0.0038
3	4.22	Chloride	XA0QOff	6	99.8743	-0.0224	0.2087	0.0003
4	6.27	Bromide	XA0QOff	6	99.9649	-0.0007	0.0686	0.0003
5	7.13	Nitrate	XA0QOff	6	99.9647	-0.0069	0.3997	0.0059
6	8.63	Phosphate	XA0QOff	6	99.7015	-0.0039	0.1840	-0.0022
7	10.21	Sulfate	XA0QOff	6	99.8655	-0.0342	0.1440	0.0001
Average:					99.8909	-0.0113	0.2079	0.0014

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

Reported: 3/7/2017 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

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

SDG: **17-03077**
Class: **WET**
Method: **EPA-310.1**

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

Reported: 3/7/2017 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSES DATA PACKAGE COVER PAGE

EPA-310.1

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
MW-360-2_170202	1703077-03
MW4-2-16_170202	1703077-05
372-MW-03_170202	1703077-13
MW4-2-14_170202	1703077-19

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 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD DETECTION AND REPORTING LIMITS

EPA-310.1

Laboratory: BC Laboratories
SDG: 17-03077
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 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-310.1

MW-360-2_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-03
File ID: Tiamo020317-053
Sampled: 02/02/17 08:45
Prepared: 02/03/17 09:00
Analyzed: 02/03/17 16:51
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[B0321
Sequence: 1702012
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	460	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 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-310.1

MW4-2-16_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-05
File ID: Tiamo020317-055
Sampled: 02/02/17 10:50
Prepared: 02/03/17 09:00
Analyzed: 02/03/17 16:59
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[B0321
Sequence: 1702012
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	380	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 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-310.1

372-MW-03_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-13
File ID: Tiamo020317-057
Sampled: 02/02/17 12:56
Prepared: 02/03/17 09:00
Analyzed: 02/03/17 17:06
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[B0321
Sequence: 1702012
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	24	4.1	4.1	4.1	1		EPA-310.1

AMEC Environmental & Infrastructure
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San Diego, CA 92123

Reported: 3/7/2017 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-310.1

MW4-2-14_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-19
File ID: Tiamo020317-059
Sampled: 02/02/17 11:50
Prepared: 02/03/17 09:00
Analyzed: 02/03/17 17:13
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[B0321
Sequence: 1702012
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	280	8.2	8.2	8.2	2	D	EPA-310.1

AMEC Environmental & Infrastructure
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San Diego, CA 92123

Reported: 3/7/2017 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

PREPARATION BATCH SUMMARY

EPA-310.1

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Batch: B[B0321
Batch Matrix: Water
Preparation: No Prep

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
MW-360-2_170202	1703077-03	Tiamo020317-053	02/03/17 09:00	
MW4-2-16_170202	1703077-05	Tiamo020317-055	02/03/17 09:00	
372-MW-03_170202	1703077-13	Tiamo020317-057	02/03/17 09:00	
MW4-2-14_170202	1703077-19	Tiamo020317-059	02/03/17 09:00	
Blank	B[B0321-BLK1	Tiamo020317-049	02/03/17 09:00	
LCS	B[B0321-BS3	Tiamo020317-048	02/03/17 09:00	
Duplicate	B[B0321-DUP1	Tiamo020317-051	02/03/17 09:00	

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

METHOD BLANK DATA SHEET
EPA-310.1

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[B0321-BLK1	File ID:	Tiamo020317-049
Prepared:	02/03/17 09:00	Preparation:	No Prep	Initial/Final:	50 ml / 50 ml
Analyzed:	02/03/17 16:30	Instrument:	MET-1		
Batch:	B[B0321	Sequence:	1702012	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

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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[B0321
Preparation: No Prep
Source Sample Name: Duplicate

SDG: 17-03077
Project: Alameda
Laboratory ID: B[B0321-DUP1
Lab Source ID: 1703021-01
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	169.78		170.39		0.359		EPA-310.1

* Values outside of QC limits

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San Diego, CA 92123

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

LCS RECOVERY
EPA-310.1

Laboratory:	BC Laboratories	SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Matrix:	Water		
Batch:	B[B0321	Laboratory ID:	B[B0321-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	104.82	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 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-310.1

Laboratory:	BC Laboratories	SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Sequence:	1702012	Instrument:	MET-1
Matrix:	Water	Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	B[B0321-BS3	Tiamo020317-048	02/03/17 16:23
Blank	B[B0321-BLK1	Tiamo020317-049	02/03/17 16:30
Duplicate	B[B0321-DUP1	Tiamo020317-051	02/03/17 16:40
MW-360-2_170202	1703077-03	Tiamo020317-053	02/03/17 16:51
MW4-2-16_170202	1703077-05	Tiamo020317-055	02/03/17 16:59
372-MW-03_170202	1703077-13	Tiamo020317-057	02/03/17 17:06
MW4-2-14_170202	1703077-19	Tiamo020317-059	02/03/17 17:13

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

HOLDING TIME SUMMARY
EPA-310.1

Laboratory: BC Laboratories
SDG: 17-03077
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
MW-360-2_170202	02/02/17 08:45	02/02/17 21:40	02/03/17 09:00	1.00	14.00	02/03/17 16:51	1.00	14.00	
MW4-2-16_170202	02/02/17 10:50	02/02/17 21:40	02/03/17 09:00	1.00	14.00	02/03/17 16:59	1.00	14.00	
372-MW-03_170202	02/02/17 12:56	02/02/17 21:40	02/03/17 09:00	1.00	14.00	02/03/17 17:06	1.00	14.00	
MW4-2-14_170202	02/02/17 11:50	02/02/17 21:40	02/03/17 09:00	1.00	14.00	02/03/17 17:13	1.00	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
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Project Manager: Kelli Miller

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

SDG: **17-03077**
Class: **WET**
Method: **EPA-353.2**

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

Reported: 3/7/2017 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSES DATA PACKAGE COVER PAGE

EPA-353.2

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
MW-360-2_170202	1703077-03
MW4-2-16_170202	1703077-05
372-MW-03_170202	1703077-13
MW4-2-14_170202	1703077-19

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 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD DETECTION AND REPORTING LIMITS

EPA-353.2

Laboratory: BC Laboratories
SDG: 17-03077
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

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

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

MW-360-2_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-03
File ID: 170202 1645 NO2-131
Sampled: 02/02/17 08:45
Prepared: 02/03/17 07:06
Analyzed: 02/03/17 10:58
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[B0486
Sequence: 1702127
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

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Reported: 3/7/2017 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

MW4-2-16_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-05
File ID: 170202 1645 NO2-132
Sampled: 02/02/17 10:50
Prepared: 02/03/17 07:06
Analyzed: 02/03/17 10:58
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[B0486
Sequence: 1702127
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.038	0.010	0.030	0.050	1	J	EPA-353.2

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Reported: 3/7/2017 3:01:25PM
Project: Alameda
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Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

372-MW-03_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-13
File ID: 170202 1645 NO2-139
Sampled: 02/02/17 12:56
Prepared: 02/03/17 07:06
Analyzed: 02/03/17 11:14
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[B0486
Sequence: 1702127
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
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Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

MW4-2-14_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-19
File ID: 170202 1645 NO2-134
Sampled: 02/02/17 11:50
Prepared: 02/03/17 07:06
Analyzed: 02/03/17 10:58
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[B0486
Sequence: 1702127
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
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San Diego, CA 92123

Reported: 3/7/2017 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

PREPARATION BATCH SUMMARY

EPA-353.2

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Batch: B[B0486
Batch Matrix: Water
Preparation: No Prep

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
MW-360-2_170202	1703077-03	170202 1645 NO2-131	02/03/17 07:06	
MW4-2-16_170202	1703077-05	170202 1645 NO2-132	02/03/17 07:06	
372-MW-03_170202	1703077-13	170202 1645 NO2-139	02/03/17 07:06	
MW4-2-14_170202	1703077-19	170202 1645 NO2-134	02/03/17 07:06	
Blank	B[B0486-BLK1	170202 1645 NO2-112	02/03/17 07:06	
LCS	B[B0486-BS1	170202 1645 NO2-111	02/03/17 07:06	
372-MW-03_170202	B[B0486-DUP1	170202 1645 NO2-140	02/03/17 07:06	
372-MW-03_170202	B[B0486-MS1	170202 1645 NO2-141	02/03/17 07:06	
372-MW-03_170202	B[B0486-MSD1	170202 1645 NO2-142	02/03/17 07:06	

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San Diego, CA 92123

Reported: 3/7/2017 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-353.2

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[B0486-BLK1	File ID:	170202 1645 NO2-112
Prepared:	02/03/17 07:06	Preparation:	No Prep	Initial/Final:	20 ml / 20 ml
Analyzed:	02/03/17 10:37	Instrument:	KONE-1		
Batch:	B[B0486	Sequence:	1702127	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

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Project Number: 5023146096
Project Manager: Kelli Miller

372-MW-03_170202

DUPLICATES
EPA-353.2

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Matrix: Water
Batch: B[B0486
Preparation: No Prep
Source Sample Name: 372-MW-03_170202

SDG: 17-03077
Project: Alameda
Laboratory ID: B[B0486-DUP1
Lab Source ID: 1703077-13
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	ND		ND				EPA-353.2
Nitrite as NO2	10	ND		ND				EPA-353.2

* Values outside of QC limits

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

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-353.2

372-MW-03_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0486
Laboratory ID: B[B0486-MS1
Preparation: No Prep
Initial/Final: 19 ml / 20 ml
Source Sample Number: 1703077-13

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC. #	QC LIMITS REC.
Nitrite as N	0.52632	ND	0.51339	97.5	90 - 110
Nitrite as NO2	1.7289	ND	1.6862	97.5	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	0.51681	98.2	0.664	10	90 - 110
Nitrite as NO2	1.7289	1.6975	98.2	0.664	10	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: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-353.2

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0486
Laboratory ID: B[B0486-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	0.49839	99.7	90 - 110
Nitrite as NO2	1.6425	1.6370	99.7	90 - 110

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

* Values outside of QC limits

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San Diego, CA 92123

Reported: 3/7/2017 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-353.2

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Sequence: 1702127
Instrument: KONE-1
Matrix: Water
Calibration: UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1702127-CCV1	170202 1645 NO2-109	02/03/17 10:37
Calibration Blank	1702127-CCB1	170202 1645 NO2-110	02/03/17 10:37
LCS	B[B0486-BS1	170202 1645 NO2-111	02/03/17 10:37
Blank	B[B0486-BLK1	170202 1645 NO2-112	02/03/17 10:37
Calibration Check	1702127-CCV2	170202 1645 NO2-118	02/03/17 10:39
Calibration Blank	1702127-CCB2	170202 1645 NO2-119	02/03/17 10:39
Calibration Check	1702127-CCV3	170202 1645 NO2-120	02/03/17 10:52
Calibration Blank	1702127-CCB3	170202 1645 NO2-121	02/03/17 10:52
Calibration Check	1702127-CCV4	170202 1645 NO2-127	02/03/17 10:55
Calibration Blank	1702127-CCB4	170202 1645 NO2-128	02/03/17 10:55
MW-360-2_170202	1703077-03	170202 1645 NO2-131	02/03/17 10:58
MW4-2-16_170202	1703077-05	170202 1645 NO2-132	02/03/17 10:58
MW4-2-14_170202	1703077-19	170202 1645 NO2-134	02/03/17 10:58
Calibration Check	1702127-CCV5	170202 1645 NO2-135	02/03/17 11:00
Calibration Blank	1702127-CCB5	170202 1645 NO2-136	02/03/17 11:00
Calibration Check	1702127-CCV6	170202 1645 NO2-137	02/03/17 11:14
Calibration Blank	1702127-CCB6	170202 1645 NO2-138	02/03/17 11:14
372-MW-03_170202	1703077-13	170202 1645 NO2-139	02/03/17 11:14
372-MW-03_170202	B[B0486-DUP1	170202 1645 NO2-140	02/03/17 11:15
372-MW-03_170202	B[B0486-MS1	170202 1645 NO2-141	02/03/17 11:15
372-MW-03_170202	B[B0486-MSD1	170202 1645 NO2-142	02/03/17 11:15
Calibration Check	1702127-CCV7	170202 1645 NO2-143	02/03/17 11:16
Calibration Blank	1702127-CCB7	170202 1645 NO2-144	02/03/17 11:16

AMEC Environmental & Infrastructure
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San Diego, CA 92123

Reported: 3/7/2017 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

BLANKS
EPA-353.2

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Instrument ID: KONE-1
Project: Alameda
Sequence: 1702127
Calibration: UNASSIGNED

Lab Sample ID	Analyte	Found	DL	LOD	LOQ	Units	C	Method
1702127-CCB1	Nitrite as N	0.0050700	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.016652	0.040		0.17	mg/L	U	EPA-353.2
1702127-CCB2	Nitrite as N	0.0049840	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.016370	0.040		0.17	mg/L	U	EPA-353.2
1702127-CCB3	Nitrite as N	0.0050310	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.016524	0.040		0.17	mg/L	U	EPA-353.2
1702127-CCB4	Nitrite as N	0.0052440	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.017224	0.040		0.17	mg/L	U	EPA-353.2
1702127-CCB5	Nitrite as N	0.0049680	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.016317	0.040		0.17	mg/L	U	EPA-353.2
1702127-CCB6	Nitrite as N	0.0052520	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.017250	0.040		0.17	mg/L	U	EPA-353.2
1702127-CCB7	Nitrite as N	0.0048310	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.015867	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 3:01:25PM
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: 17-03077
Project: Alameda
Calibration: UNASSIGNED
Sequence: 1702127

Lab Sample ID	Analyte	True	Found	%R	Units	Method
1702127-CCV1	Nitrite as N	0.50000	0.50211	100	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6492	100	mg/L	EPA-353.2
1702127-CCV2	Nitrite as N	0.50000	0.50636	101	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6631	101	mg/L	EPA-353.2
1702127-CCV3	Nitrite as N	0.50000	0.50146	100	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6470	100	mg/L	EPA-353.2
1702127-CCV4	Nitrite as N	0.50000	0.50566	101	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6608	101	mg/L	EPA-353.2
1702127-CCV5	Nitrite as N	0.50000	0.51067	102	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6773	102	mg/L	EPA-353.2
1702127-CCV6	Nitrite as N	0.50000	0.50700	101	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6652	101	mg/L	EPA-353.2
1702127-CCV7	Nitrite as N	0.50000	0.50201	100	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6489	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 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

HOLDING TIME SUMMARY
EPA-353.2

Laboratory: BC Laboratories
SDG: 17-03077
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
MW-360-2_170202	02/02/17 08:45	02/02/17 21:40	02/03/17 07:06	1.09	2.00	02/03/17 10:58	1.09	2.00	
MW4-2-16_170202	02/02/17 10:50	02/02/17 21:40	02/03/17 07:06	1.01	2.00	02/03/17 10:58	1.01	2.00	
372-MW-03_170202	02/02/17 12:56	02/02/17 21:40	02/03/17 07:06	0.93	2.00	02/03/17 11:14	0.93	2.00	
MW4-2-14_170202	02/02/17 11:50	02/02/17 21:40	02/03/17 07:06	0.96	2.00	02/03/17 10:58	0.96	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

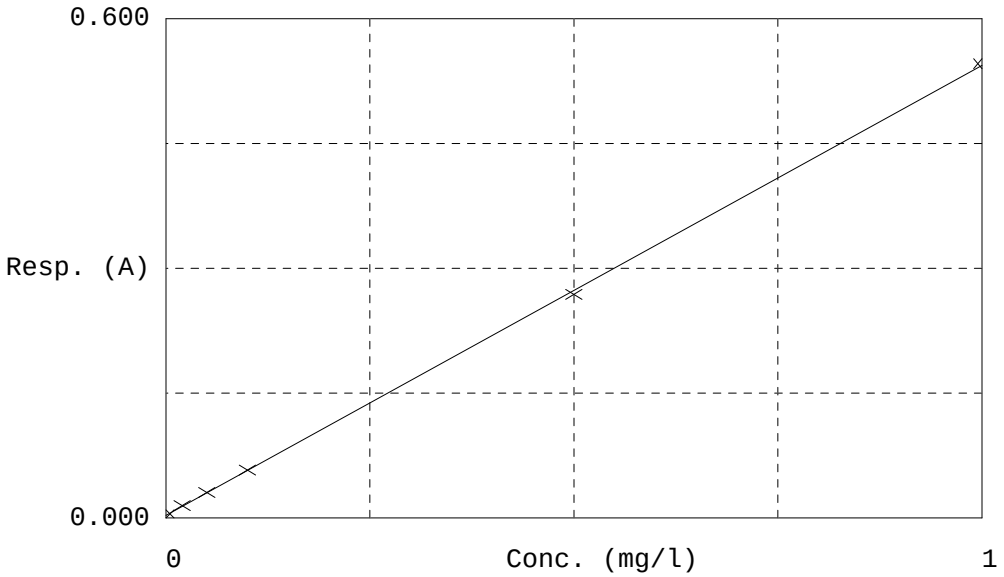
Test NO2

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 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

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

SDG: **17-03077**
Class: **WET**
Method: **SM-4500SD**

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

Reported: 3/7/2017 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSES DATA PACKAGE COVER PAGE

SM-4500SD

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
MW-360-2_170202	1703077-03
MW4-2-16_170202	1703077-05
372-MW-03_170202	1703077-13
MW4-2-14_170202	1703077-19

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 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD DETECTION AND REPORTING LIMITS

SM-4500SD

Laboratory: BC Laboratories
SDG: 17-03077
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 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

MW-360-2_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-03
File ID:
Sampled: 02/02/17 08:45
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
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San Diego, CA 92123

Reported: 3/7/2017 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

MW4-2-16_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-05
File ID:
Sampled: 02/02/17 10:50
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	0.20	0.10	0.20	0.20	2	UD	SM-4500SD

AMEC Environmental & Infrastructure
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San Diego, CA 92123

Reported: 3/7/2017 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

372-MW-03_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-13
File ID:
Sampled: 02/02/17 12:56
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 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

MW4-2-14_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-19
File ID:
Sampled: 02/02/17 11:50
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 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

PREPARATION BATCH SUMMARY

SM-4500SD

Laboratory: BC Laboratories
SDG: 17-03077
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
MW-360-2_170202	1703077-03		02/06/17 10:30	
MW4-2-16_170202	1703077-05		02/06/17 10:30	
372-MW-03_170202	1703077-13		02/06/17 10:30	
MW4-2-14_170202	1703077-19		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
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San Diego, CA 92123

Reported: 3/7/2017 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
SM-4500SD

Laboratory:	BC Laboratories			SDG:	17-03077
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 3:01:25PM
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: 17-03077
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 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM-4500SD

Matrix Spike

Laboratory: BC Laboratories
SDG: 17-03077
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 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
SM-4500SD

Laboratory:	BC Laboratories	SDG:	17-03077
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 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

SM-4500SD

Laboratory:	BC Laboratories	SDG:	17-03077
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
MW-360-2_170202	1703077-03		02/06/17 10:30
MW4-2-16_170202	1703077-05		02/06/17 10:30
372-MW-03_170202	1703077-13		02/06/17 10:30
Calibration Check	1702027-CCV1		02/06/17 10:30
Calibration Blank	1702027-CCB1		02/06/17 10:30
MW4-2-14_170202	1703077-19		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 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

BLANKS
SM-4500SD

Laboratory: BC Laboratories
SDG: 17-03077
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 3:01:25PM
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: 17-03077
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 3:01:25PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

HOLDING TIME SUMMARY
SM-4500SD

Laboratory: BC Laboratories
SDG: 17-03077
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
MW-360-2_170202	02/02/17 08:45	02/02/17 21:40	02/06/17 10:30	4.00	7.00	02/06/17 10:30	4.00	7.00	
MW4-2-16_170202	02/02/17 10:50	02/02/17 21:40	02/06/17 10:30	4.00	7.00	02/06/17 10:30	4.00	7.00	
372-MW-03_170202	02/02/17 12:56	02/02/17 21:40	02/06/17 10:30	4.00	7.00	02/06/17 10:30	4.00	7.00	
MW4-2-14_170202	02/02/17 11:50	02/02/17 21:40	02/06/17 10:30	4.00	7.00	02/06/17 10:30	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.

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

Reported: 3/7/2017 3:01:25PM
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: 1703077

Laboratory Documentation Requirements
For Data Validation of
Volatiles Analysis

Prepared By

BC Laboratories

For AMEC Environmental & Infrastructure

5023146096

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Case Narrative

Analyses Requested: 8260
Submission Number: 17-03077

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 recovery for 1,2,3-Trichlorobenzene in 1702156-CCV1 and the recoveries for Bromomethane in 1702156-CCV1, 1702156-CCV3, 1702254-CCV1, 1702254-CCV3 and 1702340-CCV1 were outside QC limits. Ending CCV criteria of fifty percent were met except the recovery for Bromomethane in 1702156-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 except the recovery for Tetrachloroethene in B[B0714-BS1 was outside QC limits.

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[B0573 the matrix spike duplicate recoveries for Naphthalene and t-Butyl alcohol and in batch B[B0714 the matrix spike and matrix spike duplicate recoveries for cis-1,2-Dichloroethene and Trichloroethene and the matrix spike duplicate recoveries for 1,2-Dichlorobenzene and Vinyl chloride were outside QC limits. The unspiked sample concentration in batch B[B0714 for cis-1,2-Dichloroethene, Trichloroethene and Vinyl chloride exceeded the calibration range of the instrument.
All precision requirements were met.

Chain of Custody and Cooler Receipt Form for 1703077 Page 1 of 7

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 17-03077

DATE: 2/2/2017
COC #: COC170202
PAGE: 1 OF 3

Project Name:	Alameda Basewide	Project Contact:	Marina Mitchell	Bill To:	Amec Foster Wheeler	Disposal Instructions:	LAB
Project Number:	5023140066	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)	Diss. Gases- (RSK175)	Anions- (EPA 300.0)	Alkalinity (EPA 310.2)	Sulfide (EPA 376.2)	TDS (EPA 160.1)	RUSH 24 Hour	48 Hour	72 Hour	5 Days	TOTAL BOTTLES	HOLD All Analyses
1	DUP20_170202	02/02/17 11:05	WG	FD	N	X											
2	M04-06_170202	02/02/17 10:12	WG	N	N	X											
3	MW-360-2_170202	02/02/17 08:45	WG	N	N	X	X	X	X	X	X						
4	MW4-2-10_170202	02/02/17 09:35	WG	N	N	X											
5	MW4-2-16_170202	02/02/17 10:50	WG	N	N	X	X	X	X	X	X						
6	MW4-2-19_170202	02/02/17 10:05	WG	N	Y	X											
7	MW4-2-4_170202	02/02/17 10:05	WG	N	N	X											
8	MW4-2-6_170202	02/02/17 09:05	WG	N	N	X											
9	MW97-3_170202	02/02/17 08:28	WG	N	N	X											
10	S3-TT-MW01_170202	02/02/17 09:17	WG	N	N	X											
11	S4-TT-MW03D_170202	02/02/17 11:35	WG	N	N	X											
12	S4-TT-MW03E_170202	02/02/17 11:00	WG	N	N	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: 2/2/17	Time: 14:30	
Relinquished By/Affiliation:	Date: 2/2/17	Time: 14:40	
Received By:	Date: 2/2/17	Time: 14:40	
Relinquished By/Affiliation:	Date: 2-2-17	Time: 1830	
Received By:	Date: 2/2/17	Time: 18:30	
Relinquished By/Affiliation:	Date: 2/2/17	Time: 2140	
Received By (LAB):	Date: 2/2	Time: 2140	

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:

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

17-03077

DATE: 2/2/2017
COC #: COC170202
PAGE: 2 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)	Diss. Gases- (RSK175)	Anions- (EPA 300.0)	Alkalinity (EPA 310.2)	Sulfide (EPA 376.2)	TDS (EPA 160.1)	24 Hour	48 Hour	72 Hour	5 Days	TOTAL BOTTLES	HOLD All Analyses
1	372-MW-03_170202 -13	02/02/17 12:56	WG	N	N	X	X	X	X	X	X						
2	D03-04_170202 -14	02/02/17 12:15	WG	N	N	X											
3	DUP14_170202 -15	02/02/17 12:20	WG	FD	N	X											
4	DUP17_170202 -16	02/02/17 11:55	WG	FD	N	X											
5	DUP19_170202 -17	02/02/17 12:10	WG	FD	N	X											
6	MW4-2-11_170202 -18	02/02/17 13:10	WG	N	N	X											
7	MW4-2-14_170202 -19	02/02/17 11:50	WG	N	N	X	X	X	X	X	X						
8	S4-TT-MW03A_170202 -20	02/02/17 13:40	WG	N	N	X											
9	S4-TT-MW03B_170202 -21	02/02/17 13:05	WG	N	N	X											
10	S4-TT-MW03C_170202 -22	02/02/17 12:05	WG	N	N	X											
11	TB09_170202 -23	02/02/17 12:00	WQ	TB	N	X											
12	TB10_170202 -24	02/02/17 12:15	WQ	TB	N	X											

Sampler's Signature:		Date: 2/2/17	Time: 14:30
Relinquished By/Affiliation:		Date: 2/2/17	Time: 16:40
Received By:		Date: 2/2/17	Time: 16:40
Relinquished By/Affiliation:		Date: 2-2-17	Time: 1830
Received By:		Date: 2/2/17	Time: 18:30
Relinquished By/Affiliation:		Date: 2/2/17	Time: 2140
Received By (LAB):		Date: 2/2	Time: 2140

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

17-03077

DATE: 2/2/2017
COC #: COC170202
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:	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)	Diss. Gases- (RSK175)	Anions- (EPA 300.0)	Alkalinity (EPA 310.2)	Sulfide (EPA 376.2)	TDS (EPA 160.1)	24 Hour	48 Hour	72 Hour	5 Days	TOTAL BOTTLES	HOLD All Analyses
1	EB17_170202 -25	02/02/17 14:00	WQ	EB	N	X											
2	EB18_170202 -26	02/02/17 14:15	WQ	EB	N	X											
3	EB19_170202 -27	02/02/17 14:30	WQ	EB	N	X											
4	M04-07_170202 -28	02/02/17 13:46	WG	N	N	X											
5	MW4-2-12_170202 -29	02/02/17 13:55	WG	N	N	X											
6																	
7																	
8																	
9																	
10																	
11																	
12																	

	Date:	Time:
Sampler's Signature:	2/2/17	14:30
Relinquished By/Affiliation:	2/2/17	14:40
Received By:	2/2/17	14:40
Relinquished By/Affiliation:	2-2-17	1830
Received By:	2/2/17	18:30
Relinquished By/Affiliation:	2/2/17	2140
Received By (LAB):	2/2	2140

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 1703077 Page 4 of 7

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 4

Submission #: 17-03077

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 2/2 21:40
Temperature: (A) 0.1 °C / (C) 0.4 °C Analyst Init GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	3	5	7	12	13	18	19	20	21
QT PE UNPRES		GH								
4oz / 8oz / 16oz PE UNPRES		GH	GH					G		
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE		I	I					I		
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
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL ~~504~~ RSK		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: AA Date/Time: 2/2/17 2210
A = Actual / C = Corrected

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Chain of Custody and Cooler Receipt Form for 1703077 Page 5 of 7

BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 4

Submission #: 17-03077

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 2/2 21:40
Temperature: (A) 0.1 °C / (C) 0.4 °C Analyst Init GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS 124	25	126	127	128	129	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										
A PHENOLICS										
0ml VOA VIAL TRAVEL BLANK	ABC									
0ml VOA VIAL		ABC	ABC	ABC	ABC	ABC				
PT EPA 1664										
T ODOR										
ADIOLOGICAL										
ACTERIOLOGICAL										
0 ml VOA VIAL- 504										
T EPA 508/608/8080										
T EPA 515.1/8150										
T EPA 525										
T EPA 525 TRAVEL BLANK										
ml EPA 547										
ml EPA 531.1										
EPA 548										
T EPA 549										
T EPA 8015M										
T EPA 8270										
/ 16oz / 32oz AMBER										
/ 16oz / 32oz JAR										
IL SLEEVE										
B VIAL										
ASTIC BAG										
DLAR BAG										
RROUS IRON										
CORE										
ART KIT										
MMA CANISTER										

ments:
ple Numbering Completed By: Date/Time: 2-2-17 2215
Actual / C = Corrected

Rev 21 05/23/2016
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Chain of Custody and Cooler Receipt Form for 1703077 Page 6 of 7

BC LABORATORIES INC. COOLER RECEIPT FORM Page 3 Of 4

Submission #: 1708077

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
Temperature: (A) 0.3 °C / (C) 0.6 °C
Date/Time 2/2 21:40
Analyst Init GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	#2	#4	#5	#6	#8	#9	#10	#11	#13	#14
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}									GH	
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE									I	
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	ABC	ABC	ABC	ABC-I	ABC	ABC	ABC	ABC		ABC
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL ~~504~~ RSK			DEP							
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: 2-2-17 2250
A = Actual / C = Corrected

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Chain of Custody and Cooler Receipt Form for 1703077 Page 7 of 7

BC LABORATORIES INC. COOLER RECEIPT FORM Page 4 Of 4

Submission #: 17-03077

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
Temperature: (A) 0.3 °C / (C) 0.6 °C
Date/Time 2/2 21:40
Analyst Init GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	#15	#16	#17	#19	#22	#23	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES				H						
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						ABC				
40ml VOA VIAL	ABC	ABC	ABC	ABC	ABC					
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL ~~504~~ RSK				DCR						
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										
40oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
4oz / 16oz / 32oz AMBER										
4oz / 16oz / 32oz JAR										
OIL SLEEVE										
TCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:
Sample Numbering Completed By: Date/Time: 2/2/17 2234

Rev 21 05/23/2016

AMEC Environmental & Infrastructure 9210 Sky Park Court #200 San Diego, CA 92123	Reported: 3/7/2017 3:19:09PM Project: Alameda Project Number: 5023146096 Project Manager: Kelli Miller

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

SDG:	**17-03077**
Class:	**VOA**
Method:	**EPA-8260B**

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSES DATA PACKAGE COVER PAGE

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
DUP20_170202	1703077-01
M04-06_170202	1703077-02
MW-360-2_170202	1703077-03
MW4-2-10_170202	1703077-04
MW4-2-10_170202	1703077-04RE1
MW4-2-16_170202	1703077-05
MW4-2-16_170202	1703077-05RE1
MW4-2-19_170202	1703077-06
MW4-2-4_170202	1703077-07
MW4-2-4_170202	1703077-07RE1
MW4-2-6_170202	1703077-08
MW97-3_170202	1703077-09
S3-TT-MW01_170202	1703077-10
S4-TT-MW03D_170202	1703077-11
S4-TT-MW03E_170202	1703077-12
372-MW-03_170202	1703077-13
D03-04_170202	1703077-14
DUP14_170202	1703077-15
DUP17_170202	1703077-16
DUP19_170202	1703077-17
DUP19_170202	1703077-17RE1
MW4-2-11_170202	1703077-18
MW4-2-14_170202	1703077-19
S4-TT-MW03A_170202	1703077-20
S4-TT-MW03A_170202	1703077-20RE1
S4-TT-MW03A_170202	1703077-20RE2
S4-TT-MW03B_170202	1703077-21
S4-TT-MW03B_170202	1703077-21RE1
S4-TT-MW03C_170202	1703077-22
S4-TT-MW03C_170202	1703077-22RE1
TB09_170202	1703077-23
TB10_170202	1703077-24
EB17_170202	1703077-25
EB18_170202	1703077-26

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

EB19_170202	1703077-27
M04-07_170202	1703077-28
MW4-2-12_170202	1703077-29

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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD DETECTION AND REPORTING LIMITS

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
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
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD DETECTION AND REPORTING LIMITS

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
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
9210 Sky Park Court #200
San Diego, CA 92123

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

METHOD DETECTION AND REPORTING LIMITS

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
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
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

DUP20_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-01	File ID:	09FEB16.D
Sampled:	02/02/17 11:05	Prepared:	02/09/17 07:00	Analyzed:	02/09/17 11:07
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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	28	0.18	0.20	0.50	
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

DUP20_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-01	File ID:	09FEB16.D
Sampled:	02/02/17 11:05	Prepared:	02/09/17 07:00	Analyzed:	02/09/17 11:07
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

DUP20_170202

Laboratory:	BC Laboratories			SDG:	17-03077		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703077-01			File ID:	09FEB16.D
Sampled:	02/02/17 11:05	Prepared:	02/09/17 07:00			Analyzed:	02/09/17 11:07
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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	11.790	118	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.9000	99.0	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.7000	97.0	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	204567	6.59	199913	6.58	
Chlorobenzene-d5 (IS)	71930	9.62	70233	9.62	
1,4-Difluorobenzene (IS)	286432	7.39	264847	7.39	

* Values outside of QC limits

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M04-06_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-02
File ID: 09FEB17.D
Sampled: 02/02/17 10:12
Prepared: 02/09/17 07:00
Analyzed: 02/09/17 11:30
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[B0764
Sequence: 1702254
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M04-06_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-02
File ID: 09FEB17.D
Sampled: 02/02/17 10:12
Prepared: 02/09/17 07:00
Analyzed: 02/09/17 11:30
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[B0764
Sequence: 1702254
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M04-06_170202

Laboratory:	BC Laboratories			SDG:	17-03077		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703077-02	File ID:	09FEB17.D		
Sampled:	02/02/17 10:12	Prepared:	02/09/17 07:00	Analyzed:	02/09/17 11:30		
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml		
Batch:	B[B0764	Sequence:	1702254	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	10.480	105	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.7900	97.9	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	10.200	102	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	181814	6.58	199913	6.58	
Chlorobenzene-d5 (IS)	58145	9.62	70233	9.62	
1,4-Difluorobenzene (IS)	250556	7.39	264847	7.39	

* Values outside of QC limits

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW-360-2_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-03	File ID:	09FEB18.D
Sampled:	02/02/17 08:45	Prepared:	02/09/17 07:00	Analyzed:	02/09/17 11:53
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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	0.55	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	0.52	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	4.5	0.11	0.16	0.50	
107-06-2	1,2-Dichloroethane	1	0.50	0.17	0.20	0.50	
75-35-4	1,1-Dichloroethene	1	21	0.18	0.20	0.50	
156-59-2	cis-1,2-Dichloroethene	1	0.54	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW-360-2_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-03	File ID:	09FEB18.D
Sampled:	02/02/17 08:45	Prepared:	02/09/17 07:00	Analyzed:	02/09/17 11:53
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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	0.26	0.11	0.16	0.50	J
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	4.0	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	0.27	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	2.0	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

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW-360-2_170202

Laboratory:	BC Laboratories			SDG:	17-03077		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703077-03		File ID:	09FEB18.D	
Sampled:	02/02/17 08:45	Prepared:	02/09/17 07:00		Analyzed:	02/09/17 11:53	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[B0764	Sequence:	1702254	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	10.360	104	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.060	101	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	10.060	101	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	206018	6.59	199913	6.58	
Chlorobenzene-d5 (IS)	66433	9.62	70233	9.62	
1,4-Difluorobenzene (IS)	275427	7.39	264847	7.39	

* Values outside of QC limits

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW4-2-10_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-04
File ID: 09FEB19.D
Sampled: 02/02/17 09:35
Prepared: 02/09/17 07:00
Analyzed: 02/09/17 12:17
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[B0764
Sequence: 1702254
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	0.71	0.12	0.16	0.50	
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	11	0.11	0.16	0.50	
107-06-2	1,2-Dichloroethane	1	6.5	0.17	0.20	0.50	
156-59-2	cis-1,2-Dichloroethene	1	7.9	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	8.2	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	0.16	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW4-2-10_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-04	File ID:	09FEB19.D
Sampled:	02/02/17 09:35	Prepared:	02/09/17 07:00	Analyzed:	02/09/17 12:17
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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	0.16	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	6.6	0.16	0.16	0.50	
79-01-6	Trichloroethene	1	0.79	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	0.31	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
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW4-2-10_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-04	File ID:	09FEB19.D
Sampled:	02/02/17 09:35	Prepared:	02/09/17 07:00	Analyzed:	02/09/17 12:17
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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	10.450	104	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.8000	98.0	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	10.280	103	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	194036	6.58	199913	6.58	
Chlorobenzene-d5 (IS)	63938	9.63	70233	9.62	
1,4-Difluorobenzene (IS)	272597	7.39	264847	7.39	

* Values outside of QC limits

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW4-2-10_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-04RE1	File ID:	09FEB58.D
Sampled:	02/02/17 09:35	Prepared:	02/09/17 07:00	Analyzed:	02/10/17 03:21
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
75-35-4	1,1-Dichloroethene	10	490	1.8	2.0	5.0	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.330	103	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.6800	96.8	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.7500	97.5	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	199177	6.58	202038	6.58	
Chlorobenzene-d5 (IS)	64450	9.62	73786	9.62	
1,4-Difluorobenzene (IS)	271410	7.39	288051	7.39	

* Values outside of QC limits

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW4-2-16_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-05
File ID: 09FEB20.D
Sampled: 02/02/17 10:50
Prepared: 02/09/17 07:00
Analyzed: 02/09/17 12:40
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[B0764
Sequence: 1702254
Calibration: 1702011
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.30	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	66	0.11	0.16	0.50	
107-06-2	1,2-Dichloroethane	1	8.5	0.17	0.20	0.50	
156-59-2	cis-1,2-Dichloroethene	1	10	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	3.8	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW4-2-16_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-05
File ID: 09FEB20.D
Sampled: 02/02/17 10:50
Prepared: 02/09/17 07:00
Analyzed: 02/09/17 12:40
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[B0764
Sequence: 1702254
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	0.16	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	3.4	0.16	0.16	0.50	
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	53	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW4-2-16_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-05	File ID:	09FEB20.D
Sampled:	02/02/17 10:50	Prepared:	02/09/17 07:00	Analyzed:	02/09/17 12:40
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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	11.030	110	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.5200	95.2	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.9700	99.7	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	191827	6.58	199913	6.58	
Chlorobenzene-d5 (IS)	65617	9.62	70233	9.62	
1,4-Difluorobenzene (IS)	273981	7.39	264847	7.39	

* Values outside of QC limits

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW4-2-16_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-05RE1	File ID:	09FEB59.D
Sampled:	02/02/17 10:50	Prepared:	02/09/17 07:00	Analyzed:	02/10/17 03:44
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
75-35-4	1,1-Dichloroethene	5	140	0.90	1.0	2.5	D

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	9.5500	95.5	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.7600	97.6	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	197179	6.58	202038	6.58	
Chlorobenzene-d5 (IS)	65545	9.62	73786	9.62	
1,4-Difluorobenzene (IS)	274909	7.39	288051	7.39	

* Values outside of QC limits

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW4-2-19_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-06
File ID: 09FEB10.D
Sampled: 02/02/17 10:05
Prepared: 02/09/17 07:00
Analyzed: 02/09/17 08:48
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[B0764
Sequence: 1702254
Calibration: 1702011
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.49	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	12	0.14	0.16	0.50	
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	2.8	0.11	0.16	0.50	
107-06-2	1,2-Dichloroethane	1	1.5	0.17	0.20	0.50	
75-35-4	1,1-Dichloroethene	1	5.6	0.18	0.20	0.50	
156-59-2	cis-1,2-Dichloroethene	1	0.69	0.085	0.16	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

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW4-2-19_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-06	File ID:	09FEB10.D
Sampled:	02/02/17 10:05	Prepared:	02/09/17 07:00	Analyzed:	02/09/17 08:48
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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	0.23	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	0.16	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	10	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW4-2-19_170202

Laboratory:	BC Laboratories			SDG:	17-03077		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703077-06			File ID:	09FEB10.D
Sampled:	02/02/17 10:05	Prepared:	02/09/17 07:00			Analyzed:	02/09/17 08:48
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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	10.480	105	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.7200	97.2	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.5900	95.9	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	186928	6.58	199913	6.58	
Chlorobenzene-d5 (IS)	64664	9.62	70233	9.62	
1,4-Difluorobenzene (IS)	252998	7.39	264847	7.39	

* Values outside of QC limits

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW4-2-4_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-07	File ID:	09FEB22.D
Sampled:	02/02/17 10:05	Prepared:	02/09/17 07:00	Analyzed:	02/09/17 13:26
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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	0.19	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	1.4	0.11	0.16	0.50	
107-06-2	1,2-Dichloroethane	1	1.0	0.17	0.20	0.50	
156-59-2	cis-1,2-Dichloroethene	1	4.4	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	3.0	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
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW4-2-4_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-07	File ID:	09FEB22.D
Sampled:	02/02/17 10:05	Prepared:	02/09/17 07:00	Analyzed:	02/09/17 13:26
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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	0.16	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	0.65	0.16	0.16	0.50	
79-01-6	Trichloroethene	1	0.34	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	0.28	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
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW4-2-4_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-07	File ID:	09FEB22.D
Sampled:	02/02/17 10:05	Prepared:	02/09/17 07:00	Analyzed:	02/09/17 13:26
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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	10.730	107	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.110	101	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.9400	99.4	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	203266	6.58	199913	6.58	
Chlorobenzene-d5 (IS)	67231	9.62	70233	9.62	
1,4-Difluorobenzene (IS)	273668	7.39	264847	7.39	

* Values outside of QC limits

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW4-2-4_170202

Laboratory:	BC Laboratories			SDG:	17-03077		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703077-07RE1	File ID:	09FEB60.D		
Sampled:	02/02/17 10:05	Prepared:	02/09/17 07:00	Analyzed:	02/10/17 04:07		
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml		
Batch:	B[B0764	Sequence:	1702254	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
75-35-4	1,1-Dichloroethene	10	360	1.8	2.0	5.0	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.690	107	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.7700	97.7	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.3400	93.4	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	193233	6.59	202038	6.58	
Chlorobenzene-d5 (IS)	66160	9.62	73786	9.62	
1,4-Difluorobenzene (IS)	265577	7.39	288051	7.39	

* Values outside of QC limits

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW4-2-6_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-08	File ID:	09FEB23.D
Sampled:	02/02/17 09:05	Prepared:	02/09/17 07:00	Analyzed:	02/09/17 13:50
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.18	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	17	0.18	0.20	0.50	
156-59-2	cis-1,2-Dichloroethene	1	0.21	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW4-2-6_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-08	File ID:	09FEB23.D
Sampled:	02/02/17 09:05	Prepared:	02/09/17 07:00	Analyzed:	02/09/17 13:50
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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	0.34	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW4-2-6_170202

Laboratory:	BC Laboratories			SDG:	17-03077		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703077-08			File ID:	09FEB23.D
Sampled:	02/02/17 09:05	Prepared:	02/09/17 07:00			Analyzed:	02/09/17 13:50
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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	10.580	106	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.7500	97.5	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.5800	95.8	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	204193	6.58	199913	6.58	
Chlorobenzene-d5 (IS)	67493	9.62	70233	9.62	
1,4-Difluorobenzene (IS)	277366	7.39	264847	7.39	

* Values outside of QC limits

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW97-3_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-09	File ID:	09FEB24.D
Sampled:	02/02/17 08:28	Prepared:	02/09/17 07:00	Analyzed:	02/09/17 14:13
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW97-3_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-09
File ID: 09FEB24.D
Sampled: 02/02/17 08:28
Prepared: 02/09/17 07:00
Analyzed: 02/09/17 14:13
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[B0764
Sequence: 1702254
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW97-3_170202

Laboratory:	BC Laboratories			SDG:	17-03077		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703077-09			File ID:	09FEB24.D
Sampled:	02/02/17 08:28	Prepared:	02/09/17 07:00			Analyzed:	02/09/17 14:13
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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	10.260	103	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.240	102	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.9900	99.9	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	199086	6.58	199913	6.58	
Chlorobenzene-d5 (IS)	64605	9.62	70233	9.62	
1,4-Difluorobenzene (IS)	263783	7.39	264847	7.39	

* Values outside of QC limits

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S3-TT-MW01_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-10	File ID:	09FEB25.D
Sampled:	02/02/17 09:17	Prepared:	02/09/17 07:00	Analyzed:	02/09/17 14:36
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S3-TT-MW01_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-10	File ID:	09FEB25.D
Sampled:	02/02/17 09:17	Prepared:	02/09/17 07:00	Analyzed:	02/09/17 14:36
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S3-TT-MW01_170202

Laboratory:	BC Laboratories			SDG:	17-03077		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703077-10			File ID:	09FEB25.D
Sampled:	02/02/17 09:17	Prepared:	02/09/17 07:00			Analyzed:	02/09/17 14:36
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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	10.470	105	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.210	102	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.7900	97.9	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	199378	6.58	199913	6.58	
Chlorobenzene-d5 (IS)	69176	9.62	70233	9.62	
1,4-Difluorobenzene (IS)	268751	7.39	264847	7.39	

* Values outside of QC limits

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S4-TT-MW03D_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-11	File ID:	09FEB26.D
Sampled:	02/02/17 11:35	Prepared:	02/09/17 07:00	Analyzed:	02/09/17 14:59
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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	21	0.18	0.20	0.50	
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S4-TT-MW03D_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-11	File ID:	09FEB26.D
Sampled:	02/02/17 11:35	Prepared:	02/09/17 07:00	Analyzed:	02/09/17 14:59
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S4-TT-MW03D_170202

Laboratory:	BC Laboratories			SDG:	17-03077		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703077-11	File ID:	09FEB26.D		
Sampled:	02/02/17 11:35	Prepared:	02/09/17 07:00	Analyzed:	02/09/17 14:59		
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml		
Batch:	B[B0764	Sequence:	1702254	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	10.760	108	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.9300	99.3	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.5600	95.6	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	203460	6.58	199913	6.58	
Chlorobenzene-d5 (IS)	68508	9.62	70233	9.62	
1,4-Difluorobenzene (IS)	278648	7.39	264847	7.39	

* Values outside of QC limits

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S4-TT-MW03E_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-12	File ID:	09FEB27.D
Sampled:	02/02/17 11:00	Prepared:	02/09/17 07:00	Analyzed:	02/09/17 15:22
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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	29	0.18	0.20	0.50	
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S4-TT-MW03E_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-12	File ID:	09FEB27.D
Sampled:	02/02/17 11:00	Prepared:	02/09/17 07:00	Analyzed:	02/09/17 15:22
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S4-TT-MW03E_170202

Laboratory:	BC Laboratories			SDG:	17-03077		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703077-12	File ID:	09FEB27.D		
Sampled:	02/02/17 11:00	Prepared:	02/09/17 07:00	Analyzed:	02/09/17 15:22		
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml		
Batch:	B[B0764	Sequence:	1702254	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	11.560	116	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.9400	99.4	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.3800	93.8	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	200742	6.58	199913	6.58	
Chlorobenzene-d5 (IS)	71256	9.62	70233	9.62	
1,4-Difluorobenzene (IS)	267731	7.39	264847	7.39	

* Values outside of QC limits

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

372-MW-03_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-13
File ID: 09FEB28.D
Sampled: 02/02/17 12:56
Prepared: 02/09/17 07:00
Analyzed: 02/09/17 15:45
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[B0764
Sequence: 1702254
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

372-MW-03_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-13	File ID:	09FEB28.D
Sampled:	02/02/17 12:56	Prepared:	02/09/17 07:00	Analyzed:	02/09/17 15:45
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

372-MW-03_170202

Laboratory:	BC Laboratories			SDG:	17-03077		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703077-13		File ID:	09FEB28.D	
Sampled:	02/02/17 12:56	Prepared:	02/09/17 07:00		Analyzed:	02/09/17 15:45	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[B0764	Sequence:	1702254	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	10.950	110	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.7000	97.0	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.8000	98.0	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	193462	6.58	199913	6.58	
Chlorobenzene-d5 (IS)	64615	9.62	70233	9.62	
1,4-Difluorobenzene (IS)	272458	7.39	264847	7.39	

* Values outside of QC limits

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

D03-04_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-14
File ID: 09FEB43.D
Sampled: 02/02/17 12:15
Prepared: 02/09/17 07:00
Analyzed: 02/09/17 21:33
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[B0764
Sequence: 1702254
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	7.2	0.18	0.20	0.50	
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

D03-04_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-14
File ID: 09FEB43.D
Sampled: 02/02/17 12:15
Prepared: 02/09/17 07:00
Analyzed: 02/09/17 21:33
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[B0764
Sequence: 1702254
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

D03-04_170202

Laboratory:	BC Laboratories			SDG:	17-03077		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703077-14		File ID:	09FEB43.D	
Sampled:	02/02/17 12:15	Prepared:	02/09/17 07:00		Analyzed:	02/09/17 21:33	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[B0764	Sequence:	1702254	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	10.710	107	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.9200	99.2	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.8400	98.4	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	204093	6.59	202038	6.58	
Chlorobenzene-d5 (IS)	72744	9.62	73786	9.62	
1,4-Difluorobenzene (IS)	282319	7.39	288051	7.39	

* Values outside of QC limits

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

DUP14_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-15	File ID:	09FEB44.D
Sampled:	02/02/17 12:20	Prepared:	02/09/17 07:00	Analyzed:	02/09/17 21:56
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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	7.9	0.18	0.20	0.50	
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

DUP14_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-15	File ID:	09FEB44.D
Sampled:	02/02/17 12:20	Prepared:	02/09/17 07:00	Analyzed:	02/09/17 21:56
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

DUP14_170202

Laboratory:	BC Laboratories			SDG:	17-03077		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703077-15			File ID:	09FEB44.D
Sampled:	02/02/17 12:20	Prepared:	02/09/17 07:00			Analyzed:	02/09/17 21:56
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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	10.480	105	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.130	101	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.9100	99.1	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	204605	6.58	202038	6.58	
Chlorobenzene-d5 (IS)	72163	9.62	73786	9.62	
1,4-Difluorobenzene (IS)	283341	7.39	288051	7.39	

* Values outside of QC limits

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

DUP17_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-16	File ID:	09FEB45.D
Sampled:	02/02/17 11:55	Prepared:	02/09/17 07:00	Analyzed:	02/09/17 22:19
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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	0.99	0.14	0.16	0.50	
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	0.69	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
San Diego, CA 92123

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

DUP17_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-16	File ID:	09FEB45.D
Sampled:	02/02/17 11:55	Prepared:	02/09/17 07:00	Analyzed:	02/09/17 22:19
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

DUP17_170202

Laboratory:	BC Laboratories			SDG:	17-03077		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703077-16			File ID:	09FEB45.D
Sampled:	02/02/17 11:55	Prepared:	02/09/17 07:00			Analyzed:	02/09/17 22:19
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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	10.780	108	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.010	100	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	10.040	100	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	193638	6.58	202038	6.58	
Chlorobenzene-d5 (IS)	67929	9.62	73786	9.62	
1,4-Difluorobenzene (IS)	266201	7.39	288051	7.39	

* Values outside of QC limits

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

DUP19_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-17
File ID: 09FEB46.D
Sampled: 02/02/17 12:10
Prepared: 02/09/17 07:00
Analyzed: 02/09/17 22:43
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[B0764
Sequence: 1702254
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	0.18	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	95	0.18	0.20	0.50	
156-59-2	cis-1,2-Dichloroethene	1	8.1	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	3.9	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

DUP19_170202

Laboratory:	BC Laboratories			SDG:	17-03077		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703077-17			File ID:	09FEB46.D
Sampled:	02/02/17 12:10	Prepared:	02/09/17 07:00			Analyzed:	02/09/17 22:43
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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	0.54	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	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
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

DUP19_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-17	File ID:	09FEB46.D
Sampled:	02/02/17 12:10	Prepared:	02/09/17 07:00	Analyzed:	02/09/17 22:43
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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	10.810	108	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.130	101	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.3900	93.9	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	191130	6.58	202038	6.58	
Chlorobenzene-d5 (IS)	68591	9.62	73786	9.62	
1,4-Difluorobenzene (IS)	266268	7.39	288051	7.39	

* Values outside of QC limits

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

DUP19_170202

Laboratory:	BC Laboratories			SDG:	17-03077		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703077-17RE1	File ID:	10FEB12.D		
Sampled:	02/02/17 12:10	Prepared:	02/09/17 07:00	Analyzed:	02/10/17 10:20		
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml		
Batch:	B[B0764	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
75-01-4	Vinyl chloride	10	320	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	10.370	104	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.7700	97.7	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	10.120	101	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	193032	6.58	187920	6.58	
Chlorobenzene-d5 (IS)	62922	9.62	66125	9.62	
1,4-Difluorobenzene (IS)	256515	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW4-2-11_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-18	File ID:	09FEB47.D
Sampled:	02/02/17 13:10	Prepared:	02/09/17 07:00	Analyzed:	02/09/17 23:06
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.25	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	7.0	0.14	0.16	0.50	
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW4-2-11_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-18	File ID:	09FEB47.D
Sampled:	02/02/17 13:10	Prepared:	02/09/17 07:00	Analyzed:	02/09/17 23:06
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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	0.66	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	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	0.18	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	0.16	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	0.24	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW4-2-11_170202

Laboratory:	BC Laboratories			SDG:	17-03077		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703077-18			File ID:	09FEB47.D
Sampled:	02/02/17 13:10	Prepared:	02/09/17 07:00			Analyzed:	02/09/17 23:06
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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	11.360	114	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.9300	99.3	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.7800	97.8	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	188899	6.58	202038	6.58	
Chlorobenzene-d5 (IS)	67641	9.62	73786	9.62	
1,4-Difluorobenzene (IS)	258797	7.39	288051	7.39	

* Values outside of QC limits

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW4-2-14_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-19
File ID: 09FEB48.D
Sampled: 02/02/17 11:50
Prepared: 02/09/17 07:00
Analyzed: 02/09/17 23:29
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[B0764
Sequence: 1702254
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	0.98	0.14	0.16	0.50	
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	0.63	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
San Diego, CA 92123

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW4-2-14_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-19
File ID: 09FEB48.D
Sampled: 02/02/17 11:50
Prepared: 02/09/17 07:00
Analyzed: 02/09/17 23:29
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[B0764
Sequence: 1702254
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW4-2-14_170202

Laboratory:	BC Laboratories			SDG:	17-03077		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703077-19		File ID:	09FEB48.D	
Sampled:	02/02/17 11:50	Prepared:	02/09/17 07:00		Analyzed:	02/09/17 23:29	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[B0764	Sequence:	1702254	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	10.850	108	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.300	103	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.5200	95.2	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	189577	6.59	202038	6.58	
Chlorobenzene-d5 (IS)	66084	9.62	73786	9.62	
1,4-Difluorobenzene (IS)	260408	7.39	288051	7.39	

* Values outside of QC limits

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S4-TT-MW03A_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-20	File ID:	09FEB49.D
Sampled:	02/02/17 13:40	Prepared:	02/09/17 07:00	Analyzed:	02/09/17 23:52
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	1.1	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	0.83	0.11	0.16	0.50	
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	31	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	11	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S4-TT-MW03A_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-20	File ID:	09FEB49.D
Sampled:	02/02/17 13:40	Prepared:	02/09/17 07:00	Analyzed:	02/09/17 23:52
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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	0.29	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	0.57	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
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S4-TT-MW03A_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-20	File ID:	09FEB49.D
Sampled:	02/02/17 13:40	Prepared:	02/09/17 07:00	Analyzed:	02/09/17 23:52
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0764	Sequence:	1702254	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	10.810	108	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.8700	98.7	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.3800	93.8	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	192116	6.58	202038	6.58	
Chlorobenzene-d5 (IS)	69700	9.62	73786	9.62	
1,4-Difluorobenzene (IS)	267410	7.39	288051	7.39	

* Values outside of QC limits

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S4-TT-MW03A_170202

Laboratory:	BC Laboratories			SDG:	17-03077		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703077-20RE1	File ID:	10FEB13.D		
Sampled:	02/02/17 13:40	Prepared:	02/09/17 07:00	Analyzed:	02/10/17 10:43		
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml		
Batch:	B[B0764	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
75-01-4	Vinyl chloride	10	340	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	10.630	106	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.8700	98.7	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.7600	97.6	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	171272	6.58	187920	6.58	
Chlorobenzene-d5 (IS)	54839	9.62	66125	9.62	
1,4-Difluorobenzene (IS)	232510	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S4-TT-MW03A_170202

Laboratory:	BC Laboratories			SDG:	17-03077		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703077-20RE2	File ID:	10FEB29.D		
Sampled:	02/02/17 13:40	Prepared:	02/09/17 07:00	Analyzed:	02/10/17 17:12		
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml		
Batch:	B[B0764	Sequence:	1702340	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
75-35-4	1,1-Dichloroethene	50	2100	9.0	10	25	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.8200	98.2	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.9300	99.3	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.6800	96.8	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	216505	6.58	187920	6.58	
Chlorobenzene-d5 (IS)	68522	9.62	66125	9.62	
1,4-Difluorobenzene (IS)	285559	7.39	261715	7.39	

* Values outside of QC limits

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ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S4-TT-MW03B_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-21RE1	File ID:	09FEB56.D
Sampled:	02/02/17 13:05	Prepared:	02/08/17 07:00	Analyzed:	02/10/17 02:34
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0573	Sequence:	1702254	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
75-35-4	1,1-Dichloroethene	10	920	1.8	2.0	5.0	D
75-01-4	Vinyl chloride	10	540	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	10.330	103	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.050	100	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.8100	98.1	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	196965	6.59	202038	6.58	
Chlorobenzene-d5 (IS)	66187	9.62	73786	9.62	
1,4-Difluorobenzene (IS)	269727	7.39	288051	7.39	

* Values outside of QC limits

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ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S4-TT-MW03B_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-21	File ID:	10FEB05.D
Sampled:	02/02/17 13:05	Prepared:	02/08/17 07:00	Analyzed:	02/10/17 07:37
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0573	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	1.3	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	0.55	0.11	0.16	0.50	
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	38	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	8.4	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
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U

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ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S4-TT-MW03B_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-21	File ID:	10FEB05.D
Sampled:	02/02/17 13:05	Prepared:	02/08/17 07:00	Analyzed:	02/10/17 07:37
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0573	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	0.34	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	0.27	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
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

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EPA-8260B

S4-TT-MW03B_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-21	File ID:	10FEB05.D
Sampled:	02/02/17 13:05	Prepared:	02/08/17 07:00	Analyzed:	02/10/17 07:37
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0573	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	10.630	106	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.9500	99.5	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.6800	96.8	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	193862	6.58	187920	6.58	
Chlorobenzene-d5 (IS)	66125	9.62	66125	9.62	
1,4-Difluorobenzene (IS)	261165	7.39	261715	7.39	

* Values outside of QC limits

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ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S4-TT-MW03C_170202

Laboratory:	BC Laboratories			SDG:	17-03077		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703077-22RE1	File ID:	09FEB57.D		
Sampled:	02/02/17 12:05	Prepared:	02/08/17 07:00	Analyzed:	02/10/17 02:57		
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml		
Batch:	B[B0573	Sequence:	1702254	Calibration:	1702011	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
75-01-4	Vinyl chloride	10	450	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	10.090	101	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.8200	98.2	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.4700	94.7	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	200991	6.58	202038	6.58	
Chlorobenzene-d5 (IS)	65823	9.62	73786	9.62	
1,4-Difluorobenzene (IS)	273481	7.39	288051	7.39	

* Values outside of QC limits

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ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S4-TT-MW03C_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-22	File ID:	10FEB06.D
Sampled:	02/02/17 12:05	Prepared:	02/08/17 07:00	Analyzed:	02/10/17 08:00
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0573	Sequence:	1702340	Calibration:	1702011
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	1.4	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	0.17	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	95	0.18	0.20	0.50	
156-59-2	cis-1,2-Dichloroethene	1	7.3	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	3.8	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

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ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S4-TT-MW03C_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-22	File ID:	10FEB06.D
Sampled:	02/02/17 12:05	Prepared:	02/08/17 07:00	Analyzed:	02/10/17 08:00
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0573	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	0.60	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	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
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

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Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

S4-TT-MW03C_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-22	File ID:	10FEB06.D
Sampled:	02/02/17 12:05	Prepared:	02/08/17 07:00	Analyzed:	02/10/17 08:00
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0573	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	10.970	110	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.000	100	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.7300	97.3	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	188421	6.58	187920	6.58	
Chlorobenzene-d5 (IS)	66381	9.62	66125	9.62	
1,4-Difluorobenzene (IS)	258091	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

TB09_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-23
File ID: 09FEB39.D
Sampled: 02/02/17 12:00
Prepared: 02/08/17 07:00
Analyzed: 02/09/17 20:00
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[B0573
Sequence: 1702254
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

TB09_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-23
File ID: 09FEB39.D
Sampled: 02/02/17 12:00
Prepared: 02/08/17 07:00
Analyzed: 02/09/17 20:00
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[B0573
Sequence: 1702254
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

TB09_170202

Laboratory:	BC Laboratories			SDG:	17-03077		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703077-23		File ID:	09FEB39.D	
Sampled:	02/02/17 12:00	Prepared:	02/08/17 07:00		Analyzed:	02/09/17 20:00	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[B0573	Sequence:	1702254	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	10.270	103	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.390	104	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.4100	94.1	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	200795	6.58	202038	6.58	
Chlorobenzene-d5 (IS)	71228	9.62	73786	9.62	
1,4-Difluorobenzene (IS)	277227	7.39	288051	7.39	

* Values outside of QC limits

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

TB10_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-24
File ID: 08FEB53.D
Sampled: 02/02/17 12:15
Prepared: 02/08/17 07:00
Analyzed: 02/09/17 01:45
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[B0573
Sequence: 1702156
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

TB10_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-24
File ID: 08FEB53.D
Sampled: 02/02/17 12:15
Prepared: 02/08/17 07:00
Analyzed: 02/09/17 01:45
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[B0573
Sequence: 1702156
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

TB10_170202

Laboratory:	BC Laboratories			SDG:	17-03077		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703077-24		File ID:	08FEB53.D	
Sampled:	02/02/17 12:15	Prepared:	02/08/17 07:00		Analyzed:	02/09/17 01:45	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[B0573	Sequence:	1702156	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	9.6500	96.5	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.7500	97.5	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.4400	94.4	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	199906	6.59	176929	6.58	
Chlorobenzene-d5 (IS)	64646	9.63	60035	9.62	
1,4-Difluorobenzene (IS)	274192	7.39	251715	7.39	

* Values outside of QC limits

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB17_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-25
File ID: 08FEB54.D
Sampled: 02/02/17 14:00
Prepared: 02/08/17 07:00
Analyzed: 02/09/17 02:08
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[B0573
Sequence: 1702156
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB17_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-25
File ID: 08FEB54.D
Sampled: 02/02/17 14:00
Prepared: 02/08/17 07:00
Analyzed: 02/09/17 02:08
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[B0573
Sequence: 1702156
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB17_170202

Laboratory:	BC Laboratories			SDG:	17-03077		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703077-25		File ID:	08FEB54.D	
Sampled:	02/02/17 14:00	Prepared:	02/08/17 07:00		Analyzed:	02/09/17 02:08	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[B0573	Sequence:	1702156	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	10.390	104	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.7300	97.3	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.5300	95.3	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	201272	6.58	176929	6.58	
Chlorobenzene-d5 (IS)	68262	9.62	60035	9.62	
1,4-Difluorobenzene (IS)	269796	7.39	251715	7.39	

* Values outside of QC limits

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB18_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-26
File ID: 08FEB55.D
Sampled: 02/02/17 14:15
Prepared: 02/08/17 07:00
Analyzed: 02/09/17 02:31
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[B0573
Sequence: 1702156
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB18_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-26
File ID: 08FEB55.D
Sampled: 02/02/17 14:15
Prepared: 02/08/17 07:00
Analyzed: 02/09/17 02:31
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[B0573
Sequence: 1702156
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB18_170202

Laboratory:	BC Laboratories			SDG:	17-03077		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703077-26		File ID:	08FEB55.D	
Sampled:	02/02/17 14:15	Prepared:	02/08/17 07:00		Analyzed:	02/09/17 02:31	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[B0573	Sequence:	1702156	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	10.940	109	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.020	100	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.6600	96.6	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	197311	6.58	176929	6.58	
Chlorobenzene-d5 (IS)	66341	9.62	60035	9.62	
1,4-Difluorobenzene (IS)	261811	7.39	251715	7.39	

* Values outside of QC limits

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB19_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-27
File ID: 08FEB56.D
Sampled: 02/02/17 14:30
Prepared: 02/08/17 07:00
Analyzed: 02/09/17 02:55
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[B0573
Sequence: 1702156
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB19_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-27
File ID: 08FEB56.D
Sampled: 02/02/17 14:30
Prepared: 02/08/17 07:00
Analyzed: 02/09/17 02:55
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[B0573
Sequence: 1702156
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB19_170202

Laboratory:	BC Laboratories			SDG:	17-03077		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703077-27		File ID:	08FEB56.D	
Sampled:	02/02/17 14:30	Prepared:	02/08/17 07:00		Analyzed:	02/09/17 02:55	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[B0573	Sequence:	1702156	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	10.480	105	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.4100	94.1	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.5000	95.0	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	198175	6.58	176929	6.58	
Chlorobenzene-d5 (IS)	65152	9.63	60035	9.62	
1,4-Difluorobenzene (IS)	272191	7.39	251715	7.39	

* Values outside of QC limits

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M04-07_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-28
File ID: 08FEB57.D
Sampled: 02/02/17 13:46
Prepared: 02/08/17 07:15
Analyzed: 02/09/17 03:18
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[B0714
Sequence: 1702156
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M04-07_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1703077-28
File ID: 08FEB57.D
Sampled: 02/02/17 13:46
Prepared: 02/08/17 07:15
Analyzed: 02/09/17 03:18
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[B0714
Sequence: 1702156
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M04-07_170202

Laboratory:	BC Laboratories			SDG:	17-03077		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703077-28	File ID:	08FEB57.D		
Sampled:	02/02/17 13:46	Prepared:	02/08/17 07:15	Analyzed:	02/09/17 03:18		
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml		
Batch:	B[B0714	Sequence:	1702156	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	11.230	112	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.7600	97.6	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.6500	96.5	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	187988	6.58	176929	6.58	
Chlorobenzene-d5 (IS)	65560	9.62	60035	9.62	
1,4-Difluorobenzene (IS)	264420	7.39	251715	7.39	

* Values outside of QC limits

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW4-2-12_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-29	File ID:	08FEB58.D
Sampled:	02/02/17 13:55	Prepared:	02/08/17 07:15	Analyzed:	02/09/17 03:41
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0714	Sequence:	1702156	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	16	0.11	0.16	0.50	
107-06-2	1,2-Dichloroethane	1	0.29	0.17	0.20	0.50	J
75-35-4	1,1-Dichloroethene	1	13	0.18	0.20	0.50	
156-59-2	cis-1,2-Dichloroethene	1	0.84	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW4-2-12_170202

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1703077-29	File ID:	08FEB58.D
Sampled:	02/02/17 13:55	Prepared:	02/08/17 07:15	Analyzed:	02/09/17 03:41
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[B0714	Sequence:	1702156	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

MW4-2-12_170202

Laboratory:	BC Laboratories			SDG:	17-03077		
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1703077-29	File ID:	08FEB58.D		
Sampled:	02/02/17 13:55	Prepared:	02/08/17 07:15	Analyzed:	02/09/17 03:41		
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml		
Batch:	B[B0714	Sequence:	1702156	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	11.470	115	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.020	100	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.6800	96.8	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	186594	6.58	176929	6.58	
Chlorobenzene-d5 (IS)	61937	9.62	60035	9.62	
1,4-Difluorobenzene (IS)	256702	7.39	251715	7.39	

* Values outside of QC limits

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

PREPARATION BATCH SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Batch: B[B0573
Batch Matrix: Water
Preparation: EPA 5030 Water MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
S4-TT-MW03B_170202	1703077-21	10FEB05.D	02/08/17 07:00	Full SAP LIST
S4-TT-MW03B_170202	1703077-21RE1	09FEB56.D	02/08/17 07:00	Full SAP LIST
S4-TT-MW03C_170202	1703077-22	10FEB06.D	02/08/17 07:00	Full SAP LIST
S4-TT-MW03C_170202	1703077-22RE1	09FEB57.D	02/08/17 07:00	Full SAP LIST
TB09_170202	1703077-23	09FEB39.D	02/08/17 07:00	Full SAP LIST
TB10_170202	1703077-24	08FEB53.D	02/08/17 07:00	Full SAP LIST
EB17_170202	1703077-25	08FEB54.D	02/08/17 07:00	Full SAP LIST
EB18_170202	1703077-26	08FEB55.D	02/08/17 07:00	Full SAP LIST
EB19_170202	1703077-27	08FEB56.D	02/08/17 07:00	Full SAP LIST
Blank	B[B0573-BLK1	08FEB06.D	02/08/17 07:00	
LCS	B[B0573-BS1	08FEB12.D	02/08/17 07:00	
Matrix Spike	B[B0573-MS1	08FEB13.D	02/08/17 07:00	
Matrix Spike Dup	B[B0573-MSD1	08FEB14.D	02/08/17 07:00	

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

PREPARATION BATCH SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Batch: B[B0714
Batch Matrix: Water
Preparation: EPA 5030 Water MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
M04-07_170202	1703077-28	08FEB57.D	02/08/17 07:15	Full SAP LIST
MW4-2-12_170202	1703077-29	08FEB58.D	02/08/17 07:15	Full SAP LIST
Blank	B[B0714-BLK1	08FEB16.D	02/08/17 07:15	
LCS	B[B0714-BS1	08FEB27.D	02/08/17 07:15	
Matrix Spike	B[B0714-MS1	08FEB28.D	02/08/17 07:15	
Matrix Spike Dup	B[B0714-MSD1	08FEB29.D	02/08/17 07:15	

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

PREPARATION BATCH SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Batch: B[B0764
Batch Matrix: Water
Preparation: EPA 5030 Water MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
DUP20_170202	1703077-01	09FEB16.D	02/09/17 07:00	Full SAP LIST
M04-06_170202	1703077-02	09FEB17.D	02/09/17 07:00	Full SAP LIST
MW-360-2_170202	1703077-03	09FEB18.D	02/09/17 07:00	Full SAP LIST
MW4-2-10_170202	1703077-04	09FEB19.D	02/09/17 07:00	Full SAP LIST
MW4-2-10_170202	1703077-04RE1	09FEB58.D	02/09/17 07:00	Full SAP LIST
MW4-2-16_170202	1703077-05	09FEB20.D	02/09/17 07:00	Full SAP LIST
MW4-2-16_170202	1703077-05RE1	09FEB59.D	02/09/17 07:00	Full SAP LIST
MW4-2-19_170202	1703077-06	09FEB10.D	02/09/17 07:00	Full SAP LIST
MW4-2-4_170202	1703077-07	09FEB22.D	02/09/17 07:00	Full SAP LIST
MW4-2-4_170202	1703077-07RE1	09FEB60.D	02/09/17 07:00	Full SAP LIST
MW4-2-6_170202	1703077-08	09FEB23.D	02/09/17 07:00	Full SAP LIST
MW97-3_170202	1703077-09	09FEB24.D	02/09/17 07:00	Full SAP LIST
S3-TT-MW01_170202	1703077-10	09FEB25.D	02/09/17 07:00	Full SAP LIST
S4-TT-MW03D_170202	1703077-11	09FEB26.D	02/09/17 07:00	Full SAP LIST
S4-TT-MW03E_170202	1703077-12	09FEB27.D	02/09/17 07:00	Full SAP LIST
372-MW-03_170202	1703077-13	09FEB28.D	02/09/17 07:00	Full SAP LIST
D03-04_170202	1703077-14	09FEB43.D	02/09/17 07:00	Full SAP LIST
DUP14_170202	1703077-15	09FEB44.D	02/09/17 07:00	Full SAP LIST
DUP17_170202	1703077-16	09FEB45.D	02/09/17 07:00	Full SAP LIST
DUP19_170202	1703077-17	09FEB46.D	02/09/17 07:00	Full SAP LIST
DUP19_170202	1703077-17RE1	10FEB12.D	02/09/17 07:00	Full SAP LIST
MW4-2-11_170202	1703077-18	09FEB47.D	02/09/17 07:00	Full SAP LIST
MW4-2-14_170202	1703077-19	09FEB48.D	02/09/17 07:00	Full SAP LIST
S4-TT-MW03A_170202	1703077-20	09FEB49.D	02/09/17 07:00	Full SAP LIST
S4-TT-MW03A_170202	1703077-20RE1	10FEB13.D	02/09/17 07:00	Full SAP LIST
S4-TT-MW03A_170202	1703077-20RE2	10FEB29.D	02/09/17 07:00	Full SAP LIST
Blank	B[B0764-BLK1	09FEB09.D	02/09/17 07:00	

AMEC Environmental & Infrastructure
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San Diego, CA 92123

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

PREPARATION BATCH SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Batch: B[B0764
Batch Matrix: Water
Preparation: EPA 5030 Water MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LCS	B[B0764-BS1	09FEB11.D	02/09/17 07:00	
MW4-2-19_170202	B[B0764-MS1	09FEB12.D	02/09/17 07:00	
MW4-2-19_170202	B[B0764-MSD1	09FEB13.D	02/09/17 07:00	

AMEC Environmental & Infrastructure
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San Diego, CA 92123

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-8260B

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[B0573-BLK1	File ID:	08FEB06.D
Prepared:	02/08/17 07:00	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	02/08/17 07:21	Instrument:	MS-V5		
Batch:	B[B0573	Sequence:	1702156	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-8260B

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[B0573-BLK1	File ID:	08FEB06.D
Prepared:	02/08/17 07:00	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	02/08/17 07:21	Instrument:	MS-V5		
Batch:	B[B0573	Sequence:	1702156	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

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

METHOD BLANK DATA SHEET
EPA-8260B

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[B0573-BLK1	File ID:	08FEB06.D
Prepared:	02/08/17 07:00	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	02/08/17 07:21	Instrument:	MS-V5		
Batch:	B[B0573	Sequence:	1702156	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	10.770	108	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.4900	94.9	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.6100	96.1	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	193258	6.59	190650	6.58	

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

METHOD BLANK DATA SHEET
EPA-8260B

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[B0573-BLK1	File ID:	08FEB06.D
Prepared:	02/08/17 07:00	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	02/08/17 07:21	Instrument:	MS-V5		
Batch:	B[B0573	Sequence:	1702156	Calibration:	1702011

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Chlorobenzene-d5 (IS)	64268	9.62	66125	9.63	
1,4-Difluorobenzene (IS)	265090	7.39	266176	7.39	

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Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-8260B

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[B0714-BLK1	File ID:	08FEB16.D
Prepared:	02/08/17 07:15	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	02/08/17 11:25	Instrument:	MS-V5		
Batch:	B[B0714	Sequence:	1702156	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-8260B

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[B0714-BLK1	File ID:	08FEB16.D
Prepared:	02/08/17 07:15	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	02/08/17 11:25	Instrument:	MS-V5		
Batch:	B[B0714	Sequence:	1702156	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-8260B

Laboratory:	BC Laboratories		SDG:	17-03077	
Client:	AMEC Environmental & Infrastructure $AMCN		Project:	Alameda	
Matrix:	Water	Laboratory ID:	B[B0714-BLK1	File ID:	08FEB16.D
Prepared:	02/08/17 07:15	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	02/08/17 11:25	Instrument:	MS-V5		
Batch:	B[B0714	Sequence:	1702156	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	10.350	104	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.9600	99.6	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.4100	94.1	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	197055	6.58	190650	6.58	

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-8260B

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[B0714-BLK1	File ID:	08FEB16.D
Prepared:	02/08/17 07:15	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	02/08/17 11:25	Instrument:	MS-V5		
Batch:	B[B0714	Sequence:	1702156	Calibration:	1702011

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Chlorobenzene-d5 (IS)	67275	9.63	66125	9.63	
1,4-Difluorobenzene (IS)	268062	7.39	266176	7.39	

AMEC Environmental & Infrastructure
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San Diego, CA 92123

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

METHOD BLANK DATA SHEET
EPA-8260B

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[B0764-BLK1	File ID:	09FEB09.D
Prepared:	02/09/17 07:00	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	02/09/17 08:16	Instrument:	MS-V5		
Batch:	B[B0764	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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Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-8260B

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[B0764-BLK1	File ID:	09FEB09.D
Prepared:	02/09/17 07:00	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	02/09/17 08:16	Instrument:	MS-V5		
Batch:	B[B0764	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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San Diego, CA 92123

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-8260B

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[B0764-BLK1	File ID:	09FEB09.D
Prepared:	02/09/17 07:00	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	02/09/17 08:16	Instrument:	MS-V5		
Batch:	B[B0764	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	10.560	106	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.090	101	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	10.180	102	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	202784	6.59	199913	6.58	

AMEC Environmental & Infrastructure
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Reported: 3/7/2017 3:19:09PM
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Project Number: 5023146096
Project Manager: Kelli Miller

METHOD BLANK DATA SHEET
EPA-8260B

Laboratory:	BC Laboratories			SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[B0764-BLK1	File ID:	09FEB09.D
Prepared:	02/09/17 07:00	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	02/09/17 08:16	Instrument:	MS-V5		
Batch:	B[B0764	Sequence:	1702254	Calibration:	1702011

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Chlorobenzene-d5 (IS)	66464	9.63	70233	9.62	
1,4-Difluorobenzene (IS)	270852	7.39	264847	7.39	

AMEC Environmental & Infrastructure
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San Diego, CA 92123

Reported: 3/7/2017 3:19:09PM
Project: Alameda
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Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

Matrix Spike

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0573
Laboratory ID: B[B0573-MS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1702917-07

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Benzene	25.000	ND	25.430	102	79 - 120
Bromobenzene	25.000	ND	25.440	102	80 - 120
Bromochloromethane	25.000	ND	25.650	103	78 - 123
Bromodichloromethane	25.000	ND	26.710	107	79 - 125
Bromoform	25.000	ND	24.470	97.9	66 - 130
Bromomethane	25.000	ND	21.780	87.1	53 - 141
n-Butylbenzene	25.000	ND	24.890	99.6	75 - 128
sec-Butylbenzene	25.000	ND	23.600	94.4	77 - 126
tert-Butylbenzene	25.000	ND	23.940	95.8	78 - 124
Carbon tetrachloride	25.000	ND	27.800	111	72 - 136
Chlorobenzene	25.000	ND	24.920	99.7	82 - 118
Chloroethane	25.000	ND	26.140	105	60 - 138
Chloroform	25.000	ND	25.520	102	79 - 124
Chloromethane	25.000	ND	26.940	108	50 - 139
2-Chlorotoluene	25.000	ND	24.620	98.5	79 - 122
4-Chlorotoluene	25.000	ND	24.620	98.5	78 - 122
Dibromochloromethane	25.000	ND	27.850	111	74 - 126
1,2-Dibromo-3-chloropropane	25.000	ND	24.270	97.1	62 - 128
1,2-Dibromoethane	25.000	ND	26.900	108	77 - 121
Dibromomethane	25.000	ND	24.090	96.4	79 - 123
1,2-Dichlorobenzene	25.000	ND	23.450	93.8	80 - 119
1,3-Dichlorobenzene	25.000	ND	22.700	90.8	80 - 119
1,4-Dichlorobenzene	25.000	ND	24.170	96.7	79 - 118
Dichlorodifluoromethane	25.000	ND	23.160	92.6	32 - 152
1,1-Dichloroethane	25.000	ND	23.450	93.8	77 - 125

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
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Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

Matrix Spike

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0573
Laboratory ID: B[B0573-MS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1702917-07

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
1,2-Dichloroethane	25.000	ND	25.140	101	73 - 128
1,1-Dichloroethene	25.000	ND	26.810	107	71 - 131
cis-1,2-Dichloroethene	25.000	0.35000	25.910	102	78 - 123
trans-1,2-Dichloroethene	25.000	ND	25.390	102	75 - 124
1,2-Dichloropropane	25.000	ND	25.460	102	78 - 122
1,3-Dichloropropane	25.000	ND	24.910	99.6	80 - 119
2,2-Dichloropropane	25.000	ND	28.160	113	60 - 139
1,1-Dichloropropene	25.000	ND	27.040	108	79 - 125
cis-1,3-Dichloropropene	25.000	ND	25.760	103	75 - 124
trans-1,3-Dichloropropene	25.000	ND	26.070	104	73 - 127
Ethylbenzene	25.000	ND	25.400	102	79 - 121
Hexachlorobutadiene	25.000	ND	26.980	108	66 - 134
Isopropylbenzene	25.000	ND	24.390	97.6	72 - 131
p-Isopropyltoluene	25.000	ND	23.890	95.6	77 - 127
Methylene chloride	25.000	ND	25.400	102	74 - 124
Methyl t-butyl ether	25.000	ND	26.520	106	71 - 124
Naphthalene	25.000	ND	28.950	116	61 - 128
n-Propylbenzene	25.000	ND	23.920	95.7	76 - 126
Styrene	25.000	ND	25.610	102	78 - 123
1,1,1,2-Tetrachloroethane	25.000	ND	24.000	96.0	78 - 124
1,1,2,2-Tetrachloroethane	25.000	ND	24.880	99.5	71 - 121
Tetrachloroethene	25.000	ND	29.250	117	74 - 129
Toluene	25.000	ND	26.850	107	80 - 121
1,2,3-Trichlorobenzene	25.000	ND	29.280	117	69 - 129
1,2,4-Trichlorobenzene	25.000	ND	27.590	110	69 - 130

AMEC Environmental & Infrastructure
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Reported: 3/7/2017 3:19:09PM
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Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

Matrix Spike

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0573
Laboratory ID: B[B0573-MS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1702917-07

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	26.640	107	74 - 131
1,1,2-Trichloroethane	25.000	ND	26.440	106	80 - 119
Trichloroethene	25.000	ND	27.090	108	79 - 123
Trichlorofluoromethane	25.000	ND	27.870	111	65 - 141
1,2,3-Trichloropropane	25.000	ND	25.530	102	73 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.000	ND	25.680	103	70 - 136
1,2,4-Trimethylbenzene	25.000	ND	24.130	96.5	76 - 124
1,3,5-Trimethylbenzene	25.000	ND	23.790	95.2	75 - 124
Vinyl chloride	25.000	ND	28.470	114	58 - 137
Total Xylenes	75.000	ND	76.070	101	79 - 121
Acetone	320.00	ND	325.93	102	39 - 160
Acetonitrile	160.00	ND	233.81	146 *	50 - 142
Allyl chloride	32.000	ND	35.220	110	68 - 130
t-Amyl Methyl ether	16.000	ND	16.920	106	68 - 128
Benzyl chloride	32.000	ND	33.850	106	42 - 138
t-Butyl alcohol	800.00	ND	934.17	117	68 - 129
Carbon disulfide	32.000	ND	36.130	113	64 - 133
Chloroprene	32.000	ND	35.950	112	65 - 135
Diisopropyl ether	16.000	ND	16.650	104	67 - 128
Ethyl t-butyl ether	16.000	ND	16.430	103	70 - 127
2-Hexanone	320.00	ND	340.70	106	57 - 139
Methyl ethyl ketone	160.00	ND	159.26	99.5	56 - 143
Methyl isobutyl ketone	160.00	ND	170.23	106	67 - 130
Vinyl acetate	160.00	ND	159.41	99.6	54 - 146

AMEC Environmental & Infrastructure
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San Diego, CA 92123

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Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

Matrix Spike Dup

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0573
Laboratory ID: B[B0573-MSD1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1702917-07

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	25.000	27.590	110	8.15	30	79 - 120
Bromobenzene	25.000	28.120	112	10.0	30	80 - 120
Bromochloromethane	25.000	28.100	112	9.12	30	78 - 123
Bromodichloromethane	25.000	27.560	110	3.13	30	79 - 125
Bromoform	25.000	28.400	114	14.9	30	66 - 130
Bromomethane	25.000	24.970	99.9	13.6	30	53 - 141
n-Butylbenzene	25.000	28.080	112	12.0	30	75 - 128
sec-Butylbenzene	25.000	26.300	105	10.8	30	77 - 126
tert-Butylbenzene	25.000	26.170	105	8.90	30	78 - 124
Carbon tetrachloride	25.000	30.300	121	8.61	30	72 - 136
Chlorobenzene	25.000	28.220	113	12.4	30	82 - 118
Chloroethane	25.000	28.190	113	7.55	30	60 - 138
Chloroform	25.000	28.200	113	9.98	30	79 - 124
Chloromethane	25.000	27.680	111	2.71	30	50 - 139
2-Chlorotoluene	25.000	27.340	109	10.5	30	79 - 122
4-Chlorotoluene	25.000	27.520	110	11.1	30	78 - 122
Dibromochloromethane	25.000	28.140	113	1.04	30	74 - 126
1,2-Dibromo-3-chloropropane	25.000	27.460	110	12.3	30	62 - 128
1,2-Dibromoethane	25.000	27.840	111	3.43	30	77 - 121
Dibromomethane	25.000	25.460	102	5.53	30	79 - 123
1,2-Dichlorobenzene	25.000	26.070	104	10.6	30	80 - 119
1,3-Dichlorobenzene	25.000	25.030	100	9.76	30	80 - 119
1,4-Dichlorobenzene	25.000	27.190	109	11.8	30	79 - 118
Dichlorodifluoromethane	25.000	24.460	97.8	5.46	30	32 - 152
1,1-Dichloroethane	25.000	26.160	105	10.9	30	77 - 125
1,2-Dichloroethane	25.000	27.720	111	9.76	30	73 - 128

AMEC Environmental & Infrastructure
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Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

Matrix Spike Dup

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0573
Laboratory ID: B[B0573-MSD1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1702917-07

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	25.000	29.620	118	9.96	30	71 - 131
cis-1,2-Dichloroethene	25.000	28.520	113	9.59	30	78 - 123
trans-1,2-Dichloroethene	25.000	28.350	113	11.0	30	75 - 124
1,2-Dichloropropane	25.000	27.150	109	6.42	30	78 - 122
1,3-Dichloropropane	25.000	27.240	109	8.94	30	80 - 119
2,2-Dichloropropane	25.000	30.970	124	9.50	30	60 - 139
1,1-Dichloropropene	25.000	29.240	117	7.82	30	79 - 125
cis-1,3-Dichloropropene	25.000	27.110	108	5.11	30	75 - 124
trans-1,3-Dichloropropene	25.000	27.890	112	6.75	30	73 - 127
Ethylbenzene	25.000	28.280	113	10.7	30	79 - 121
Hexachlorobutadiene	25.000	29.400	118	8.58	30	66 - 134
Isopropylbenzene	25.000	27.320	109	11.3	30	72 - 131
p-Isopropyltoluene	25.000	26.430	106	10.1	30	77 - 127
Methylene chloride	25.000	27.770	111	8.91	30	74 - 124
Methyl t-butyl ether	25.000	28.990	116	8.90	30	71 - 124
Naphthalene	25.000	33.710	135 *	15.2	30	61 - 128
n-Propylbenzene	25.000	26.520	106	10.3	30	76 - 126
Styrene	25.000	29.050	116	12.6	30	78 - 123
1,1,1,2-Tetrachloroethane	25.000	27.140	109	12.3	30	78 - 124
1,1,2,2-Tetrachloroethane	25.000	28.710	115	14.3	30	71 - 121
Tetrachloroethene	25.000	30.050	120	2.70	30	74 - 129
Toluene	25.000	27.670	111	3.01	30	80 - 121
1,2,3-Trichlorobenzene	25.000	32.290	129	9.78	30	69 - 129
1,2,4-Trichlorobenzene	25.000	32.340	129	15.9	30	69 - 130
1,1,1-Trichloroethane	25.000	29.490	118	10.2	30	74 - 131
1,1,2-Trichloroethane	25.000	27.540	110	4.08	30	80 - 119

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

Matrix Spike Dup

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0573
Laboratory ID: B[B0573-MSD1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1702917-07

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Trichloroethene	25.000	29.570	118	8.75	30	79 - 123
Trichlorofluoromethane	25.000	30.410	122	8.72	30	65 - 141
1,2,3-Trichloropropane	25.000	29.300	117	13.8	30	73 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.000	28.380	114	9.99	30	70 - 136
1,2,4-Trimethylbenzene	25.000	26.870	107	10.7	30	76 - 124
1,3,5-Trimethylbenzene	25.000	26.400	106	10.4	30	75 - 124
Vinyl chloride	25.000	30.840	123	7.99	30	58 - 137
Total Xylenes	75.000	82.250	110	7.81	30	79 - 121
Acetone	320.00	359.35	112	9.75	30	39 - 160
Acetonitrile	160.00	254.41	159 *	8.44	30	50 - 142
Allyl chloride	32.000	38.070	119	7.78	30	68 - 130
t-Amyl Methyl ether	16.000	18.400	115	8.38	30	68 - 128
Benzyl chloride	32.000	38.540	120	13.0	30	42 - 138
t-Butyl alcohol	800.00	1051.8	131 *	11.8	30	68 - 129
Carbon disulfide	32.000	39.130	122	7.97	30	64 - 133
Chloroprene	32.000	38.180	119	6.02	30	65 - 135
Diisopropyl ether	16.000	19.790	124	17.2	30	67 - 128
Ethyl t-butyl ether	16.000	18.320	114	10.9	30	70 - 127
2-Hexanone	320.00	372.16	116	8.83	30	57 - 139
Methyl ethyl ketone	160.00	175.63	110	9.78	30	56 - 143
Methyl isobutyl ketone	160.00	174.08	109	2.24	30	67 - 130
Vinyl acetate	160.00	177.76	111	10.9	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

Matrix Spike

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0714
Laboratory ID: B[B0714-MS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1702918-10

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Benzene	25.000	0.16000	23.780	94.5	79 - 120
Bromobenzene	25.000	ND	25.460	102	80 - 120
Bromochloromethane	25.000	ND	23.520	94.1	78 - 123
Bromodichloromethane	25.000	ND	25.850	103	79 - 125
Bromoform	25.000	ND	23.200	92.8	66 - 130
Bromomethane	25.000	ND	17.830	71.3	53 - 141
n-Butylbenzene	25.000	ND	25.470	102	75 - 128
sec-Butylbenzene	25.000	ND	24.110	96.4	77 - 126
tert-Butylbenzene	25.000	ND	24.460	97.8	78 - 124
Carbon tetrachloride	25.000	ND	26.760	107	72 - 136
Chlorobenzene	25.000	1.3800	26.020	98.6	82 - 118
Chloroethane	25.000	ND	24.980	99.9	60 - 138
Chloroform	25.000	ND	24.520	98.1	79 - 124
Chloromethane	25.000	ND	26.680	107	50 - 139
2-Chlorotoluene	25.000	ND	24.920	99.7	79 - 122
4-Chlorotoluene	25.000	ND	24.130	96.5	78 - 122
Dibromochloromethane	25.000	ND	25.680	103	74 - 126
1,2-Dibromo-3-chloropropane	25.000	ND	23.510	94.0	62 - 128
1,2-Dibromoethane	25.000	ND	26.160	105	77 - 121
Dibromomethane	25.000	ND	23.590	94.4	79 - 123
1,2-Dichlorobenzene	25.000	23.510	44.230	82.9	80 - 119
1,3-Dichlorobenzene	25.000	0.73000	23.070	89.4	80 - 119
1,4-Dichlorobenzene	25.000	6.0900	29.080	92.0	79 - 118
Dichlorodifluoromethane	25.000	ND	22.710	90.8	32 - 152
1,1-Dichloroethane	25.000	2.2500	25.770	94.1	77 - 125

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

Matrix Spike

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0714
Laboratory ID: B[B0714-MS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1702918-10

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
1,2-Dichloroethane	25.000	0.38000	24.370	96.0	73 - 128
1,1-Dichloroethene	25.000	10.010	34.220	96.8	71 - 131
cis-1,2-Dichloroethene	25.000	485.38	489.41	16.1 *	78 - 123
trans-1,2-Dichloroethene	25.000	42.450	64.410	87.8	75 - 124
1,2-Dichloropropane	25.000	ND	23.250	93.0	78 - 122
1,3-Dichloropropane	25.000	ND	24.430	97.7	80 - 119
2,2-Dichloropropane	25.000	ND	19.470	77.9	60 - 139
1,1-Dichloropropene	25.000	ND	25.570	102	79 - 125
cis-1,3-Dichloropropene	25.000	ND	24.160	96.6	75 - 124
trans-1,3-Dichloropropene	25.000	ND	24.610	98.4	73 - 127
Ethylbenzene	25.000	ND	25.880	104	79 - 121
Hexachlorobutadiene	25.000	ND	26.390	106	66 - 134
Isopropylbenzene	25.000	ND	24.360	97.4	72 - 131
p-Isopropyltoluene	25.000	ND	24.530	98.1	77 - 127
Methylene chloride	25.000	ND	23.800	95.2	74 - 124
Methyl t-butyl ether	25.000	ND	23.220	92.9	71 - 124
Naphthalene	25.000	ND	27.420	110	61 - 128
n-Propylbenzene	25.000	ND	24.050	96.2	76 - 126
Styrene	25.000	ND	25.180	101	78 - 123
1,1,1,2-Tetrachloroethane	25.000	ND	23.900	95.6	78 - 124
1,1,2,2-Tetrachloroethane	25.000	ND	24.500	98.0	71 - 121
Tetrachloroethene	25.000	0.24000	30.090	119	74 - 129
Toluene	25.000	0.11000	25.700	102	80 - 121
1,2,3-Trichlorobenzene	25.000	ND	27.610	110	69 - 129
1,2,4-Trichlorobenzene	25.000	ND	27.300	109	69 - 130

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

Matrix Spike

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0714
Laboratory ID: B[B0714-MS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1702918-10

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	26.950	108	74 - 131
1,1,2-Trichloroethane	25.000	ND	24.780	99.1	80 - 119
Trichloroethene	25.000	397.52	391.20	-25.3 *	79 - 123
Trichlorofluoromethane	25.000	ND	27.200	109	65 - 141
1,2,3-Trichloropropane	25.000	ND	23.840	95.4	73 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.000	ND	25.260	101	70 - 136
1,2,4-Trimethylbenzene	25.000	ND	24.470	97.9	76 - 124
1,3,5-Trimethylbenzene	25.000	ND	23.830	95.3	75 - 124
Vinyl chloride	25.000	166.26	185.56	77.2	58 - 137
Total Xylenes	75.000	ND	75.920	101	79 - 121
Acetone	320.00	ND	288.69	90.2	39 - 160
Acetonitrile	160.00	ND	200.66	125	50 - 142
Allyl chloride	32.000	ND	31.430	98.2	68 - 130
t-Amyl Methyl ether	16.000	ND	15.320	95.8	68 - 128
Benzyl chloride	32.000	ND	30.170	94.3	42 - 138
t-Butyl alcohol	800.00	ND	844.36	106	68 - 129
Carbon disulfide	32.000	ND	32.890	103	64 - 133
Chloroprene	32.000	ND	33.460	105	65 - 135
Diisopropyl ether	16.000	0.42000	18.130	111	67 - 128
Ethyl t-butyl ether	16.000	ND	15.690	98.1	70 - 127
2-Hexanone	320.00	ND	306.86	95.9	57 - 139
Methyl ethyl ketone	160.00	ND	97.290	60.8	56 - 143
Methyl isobutyl ketone	160.00	ND	151.18	94.5	67 - 130
Vinyl acetate	160.00	ND	149.19	93.2	54 - 146

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

Matrix Spike Dup

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0714
Laboratory ID: B[B0714-MSD1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1702918-10

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	25.000	24.690	98.1	3.75	30	79 - 120
Bromobenzene	25.000	25.550	102	0.353	30	80 - 120
Bromochloromethane	25.000	22.050	88.2	6.45	30	78 - 123
Bromodichloromethane	25.000	25.120	100	2.86	30	79 - 125
Bromoform	25.000	21.870	87.5	5.90	30	66 - 130
Bromomethane	25.000	17.160	68.6	3.83	30	53 - 141
n-Butylbenzene	25.000	24.940	99.8	2.10	30	75 - 128
sec-Butylbenzene	25.000	23.250	93.0	3.63	30	77 - 126
tert-Butylbenzene	25.000	23.020	92.1	6.07	30	78 - 124
Carbon tetrachloride	25.000	25.930	104	3.15	30	72 - 136
Chlorobenzene	25.000	26.100	98.9	0.307	30	82 - 118
Chloroethane	25.000	25.660	103	2.69	30	60 - 138
Chloroform	25.000	25.060	100	2.18	30	79 - 124
Chloromethane	25.000	24.820	99.3	7.22	30	50 - 139
2-Chlorotoluene	25.000	24.050	96.2	3.55	30	79 - 122
4-Chlorotoluene	25.000	23.740	95.0	1.63	30	78 - 122
Dibromochloromethane	25.000	25.290	101	1.53	30	74 - 126
1,2-Dibromo-3-chloropropane	25.000	23.140	92.6	1.59	30	62 - 128
1,2-Dibromoethane	25.000	26.240	105	0.305	30	77 - 121
Dibromomethane	25.000	22.960	91.8	2.71	30	79 - 123
1,2-Dichlorobenzene	25.000	43.400	79.6 *	1.89	30	80 - 119
1,3-Dichlorobenzene	25.000	22.190	85.8	3.89	30	80 - 119
1,4-Dichlorobenzene	25.000	28.450	89.4	2.19	30	79 - 118
Dichlorodifluoromethane	25.000	21.940	87.8	3.45	30	32 - 152
1,1-Dichloroethane	25.000	25.010	91.0	2.99	30	77 - 125
1,2-Dichloroethane	25.000	23.680	93.2	2.87	30	73 - 128

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

Matrix Spike Dup

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0714
Laboratory ID: B[B0714-MSD1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1702918-10

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	25.000	33.470	93.8	2.22	30	71 - 131
cis-1,2-Dichloroethene	25.000	470.25	-60.5 *	3.99	30	78 - 123
trans-1,2-Dichloroethene	25.000	64.480	88.1	0.109	30	75 - 124
1,2-Dichloropropane	25.000	24.370	97.5	4.70	30	78 - 122
1,3-Dichloropropane	25.000	24.930	99.7	2.03	30	80 - 119
2,2-Dichloropropane	25.000	18.570	74.3	4.73	30	60 - 139
1,1-Dichloropropene	25.000	25.440	102	0.510	30	79 - 125
cis-1,3-Dichloropropene	25.000	24.580	98.3	1.72	30	75 - 124
trans-1,3-Dichloropropene	25.000	24.100	96.4	2.09	30	73 - 127
Ethylbenzene	25.000	25.080	100	3.14	30	79 - 121
Hexachlorobutadiene	25.000	26.360	105	0.114	30	66 - 134
Isopropylbenzene	25.000	24.080	96.3	1.16	30	72 - 131
p-Isopropyltoluene	25.000	23.520	94.1	4.20	30	77 - 127
Methylene chloride	25.000	23.220	92.9	2.47	30	74 - 124
Methyl t-butyl ether	25.000	23.880	95.5	2.80	30	71 - 124
Naphthalene	25.000	28.130	113	2.56	30	61 - 128
n-Propylbenzene	25.000	22.910	91.6	4.86	30	76 - 126
Styrene	25.000	24.790	99.2	1.56	30	78 - 123
1,1,1,2-Tetrachloroethane	25.000	23.910	95.6	0.0418	30	78 - 124
1,1,2,2-Tetrachloroethane	25.000	24.370	97.5	0.532	30	71 - 121
Tetrachloroethene	25.000	30.890	123	2.62	30	74 - 129
Toluene	25.000	26.490	106	3.03	30	80 - 121
1,2,3-Trichlorobenzene	25.000	27.330	109	1.02	30	69 - 129
1,2,4-Trichlorobenzene	25.000	27.340	109	0.146	30	69 - 130
1,1,1-Trichloroethane	25.000	26.090	104	3.24	30	74 - 131
1,1,2-Trichloroethane	25.000	25.890	104	4.38	30	80 - 119

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

Matrix Spike Dup

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0714
Laboratory ID: B[B0714-MSD1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1702918-10

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Trichloroethene	25.000	379.67	-71.4 *	2.99	30	79 - 123
Trichlorofluoromethane	25.000	26.560	106	2.38	30	65 - 141
1,2,3-Trichloropropane	25.000	25.770	103	7.78	30	73 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.000	25.170	101	0.357	30	70 - 136
1,2,4-Trimethylbenzene	25.000	22.980	91.9	6.28	30	76 - 124
1,3,5-Trimethylbenzene	25.000	22.440	89.8	6.01	30	75 - 124
Vinyl chloride	25.000	177.19	43.7 *	4.61	30	58 - 137
Total Xylenes	75.000	74.980	100	1.25	30	79 - 121
Acetone	320.00	296.41	92.6	2.64	30	39 - 160
Acetonitrile	160.00	221.71	139	9.97	30	50 - 142
Allyl chloride	32.000	31.540	98.6	0.349	30	68 - 130
t-Amyl Methyl ether	16.000	16.040	100	4.59	30	68 - 128
Benzyl chloride	32.000	30.960	96.8	2.58	30	42 - 138
t-Butyl alcohol	800.00	885.20	111	4.72	30	68 - 129
Carbon disulfide	32.000	32.820	103	0.213	30	64 - 133
Chloroprene	32.000	32.870	103	1.78	30	65 - 135
Diisopropyl ether	16.000	17.340	106	4.45	30	67 - 128
Ethyl t-butyl ether	16.000	15.790	98.7	0.635	30	70 - 127
2-Hexanone	320.00	323.05	101	5.14	30	57 - 139
Methyl ethyl ketone	160.00	93.100	58.2	4.40	30	56 - 143
Methyl isobutyl ketone	160.00	153.91	96.2	1.79	30	67 - 130
Vinyl acetate	160.00	145.99	91.2	2.17	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

MW4-2-19_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0764
Laboratory ID: B[B0764-MS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1703077-06

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Benzene	25.000	0.49000	26.800	105	79 - 120
Bromobenzene	25.000	ND	25.860	103	80 - 120
Bromochloromethane	25.000	ND	27.830	111	78 - 123
Bromodichloromethane	25.000	ND	27.410	110	79 - 125
Bromoform	25.000	ND	27.420	110	66 - 130
Bromomethane	25.000	ND	23.860	95.4	53 - 141
n-Butylbenzene	25.000	ND	26.120	104	75 - 128
sec-Butylbenzene	25.000	ND	24.480	97.9	77 - 126
tert-Butylbenzene	25.000	ND	24.330	97.3	78 - 124
Carbon tetrachloride	25.000	ND	28.980	116	72 - 136
Chlorobenzene	25.000	ND	25.990	104	82 - 118
Chloroethane	25.000	12.180	35.340	92.6	60 - 138
Chloroform	25.000	ND	26.710	107	79 - 124
Chloromethane	25.000	ND	25.140	101	50 - 139
2-Chlorotoluene	25.000	ND	25.700	103	79 - 122
4-Chlorotoluene	25.000	ND	24.880	99.5	78 - 122
Dibromochloromethane	25.000	ND	28.110	112	74 - 126
1,2-Dibromo-3-chloropropane	25.000	ND	25.070	100	62 - 128
1,2-Dibromoethane	25.000	ND	28.030	112	77 - 121
Dibromomethane	25.000	ND	25.140	101	79 - 123
1,2-Dichlorobenzene	25.000	ND	24.390	97.6	80 - 119
1,3-Dichlorobenzene	25.000	ND	22.810	91.2	80 - 119
1,4-Dichlorobenzene	25.000	ND	25.480	102	79 - 118
Dichlorodifluoromethane	25.000	ND	23.590	94.4	32 - 152
1,1-Dichloroethane	25.000	2.8200	26.570	95.0	77 - 125

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

MW4-2-19_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0764
Laboratory ID: B[B0764-MS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1703077-06

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
1,2-Dichloroethane	25.000	1.5000	27.750	105	73 - 128
1,1-Dichloroethene	25.000	5.6000	30.880	101	71 - 131
cis-1,2-Dichloroethene	25.000	0.69000	26.180	102	78 - 123
trans-1,2-Dichloroethene	25.000	1.0700	27.250	105	75 - 124
1,2-Dichloropropane	25.000	ND	25.510	102	78 - 122
1,3-Dichloropropane	25.000	ND	27.100	108	80 - 119
2,2-Dichloropropane	25.000	ND	28.570	114	60 - 139
1,1-Dichloropropene	25.000	ND	28.020	112	79 - 125
cis-1,3-Dichloropropene	25.000	ND	26.900	108	75 - 124
trans-1,3-Dichloropropene	25.000	ND	27.770	111	73 - 127
Ethylbenzene	25.000	ND	26.060	104	79 - 121
Hexachlorobutadiene	25.000	ND	26.680	107	66 - 134
Isopropylbenzene	25.000	ND	24.960	99.8	72 - 131
p-Isopropyltoluene	25.000	ND	24.250	97.0	77 - 127
Methylene chloride	25.000	ND	26.330	105	74 - 124
Methyl t-butyl ether	25.000	ND	27.760	111	71 - 124
Naphthalene	25.000	ND	29.830	119	61 - 128
n-Propylbenzene	25.000	ND	23.950	95.8	76 - 126
Styrene	25.000	ND	26.390	106	78 - 123
1,1,1,2-Tetrachloroethane	25.000	ND	24.810	99.2	78 - 124
1,1,2,2-Tetrachloroethane	25.000	ND	26.750	107	71 - 121
Tetrachloroethene	25.000	ND	29.450	118	74 - 129
Toluene	25.000	0.23000	27.070	107	80 - 121
1,2,3-Trichlorobenzene	25.000	ND	29.720	119	69 - 129
1,2,4-Trichlorobenzene	25.000	ND	29.130	117	69 - 130

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

MW4-2-19_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0764
Laboratory ID: B[B0764-MS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1703077-06

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	28.020	112	74 - 131
1,1,2-Trichloroethane	25.000	ND	27.390	110	80 - 119
Trichloroethene	25.000	ND	28.820	115	79 - 123
Trichlorofluoromethane	25.000	ND	28.330	113	65 - 141
1,2,3-Trichloropropane	25.000	ND	27.620	110	73 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.000	ND	27.310	109	70 - 136
1,2,4-Trimethylbenzene	25.000	ND	24.570	98.3	76 - 124
1,3,5-Trimethylbenzene	25.000	ND	24.230	96.9	75 - 124
Vinyl chloride	25.000	10.260	35.700	102	58 - 137
Total Xylenes	75.000	ND	79.270	106	79 - 121
Acetone	320.00	ND	331.97	104	39 - 160
Acetonitrile	160.00	ND	232.39	145 *	50 - 142
Allyl chloride	32.000	ND	34.070	106	68 - 130
t-Amyl Methyl ether	16.000	ND	16.920	106	68 - 128
Benzyl chloride	32.000	ND	34.470	108	42 - 138
t-Butyl alcohol	800.00	ND	956.35	120	68 - 129
Carbon disulfide	32.000	ND	35.170	110	64 - 133
Chloroprene	32.000	ND	34.080	106	65 - 135
Diisopropyl ether	16.000	ND	18.330	115	67 - 128
Ethyl t-butyl ether	16.000	ND	16.700	104	70 - 127
2-Hexanone	320.00	ND	349.61	109	57 - 139
Methyl ethyl ketone	160.00	ND	157.95	98.7	56 - 143
Methyl isobutyl ketone	160.00	ND	168.75	105	67 - 130
Vinyl acetate	160.00	ND	161.00	101	54 - 146

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

MW4-2-19_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0764
Laboratory ID: B[B0764-MSD1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1703077-06

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	25.000	26.090	102	2.68	30	79 - 120
Bromobenzene	25.000	25.140	101	2.82	30	80 - 120
Bromochloromethane	25.000	26.210	105	6.00	30	78 - 123
Bromodichloromethane	25.000	23.940	95.8	13.5	30	79 - 125
Bromoform	25.000	24.510	98.0	11.2	30	66 - 130
Bromomethane	25.000	25.160	101	5.30	30	53 - 141
n-Butylbenzene	25.000	24.480	97.9	6.48	30	75 - 128
sec-Butylbenzene	25.000	23.600	94.4	3.66	30	77 - 126
tert-Butylbenzene	25.000	23.250	93.0	4.54	30	78 - 124
Carbon tetrachloride	25.000	27.220	109	6.26	30	72 - 136
Chlorobenzene	25.000	23.750	95.0	9.01	30	82 - 118
Chloroethane	25.000	34.790	90.4	1.57	30	60 - 138
Chloroform	25.000	25.480	102	4.71	30	79 - 124
Chloromethane	25.000	22.910	91.6	9.28	30	50 - 139
2-Chlorotoluene	25.000	24.460	97.8	4.94	30	79 - 122
4-Chlorotoluene	25.000	24.050	96.2	3.39	30	78 - 122
Dibromochloromethane	25.000	25.550	102	9.54	30	74 - 126
1,2-Dibromo-3-chloropropane	25.000	24.450	97.8	2.50	30	62 - 128
1,2-Dibromoethane	25.000	25.970	104	7.63	30	77 - 121
Dibromomethane	25.000	22.960	91.8	9.06	30	79 - 123
1,2-Dichlorobenzene	25.000	22.500	90.0	8.06	30	80 - 119
1,3-Dichlorobenzene	25.000	21.870	87.5	4.21	30	80 - 119
1,4-Dichlorobenzene	25.000	24.210	96.8	5.11	30	79 - 118
Dichlorodifluoromethane	25.000	21.780	87.1	7.98	30	32 - 152
1,1-Dichloroethane	25.000	25.820	92.0	2.86	30	77 - 125
1,2-Dichloroethane	25.000	26.190	98.8	5.78	30	73 - 128

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

MW4-2-19_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0764
Laboratory ID: B[B0764-MSD1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1703077-06

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	25.000	30.630	100	0.813	30	71 - 131
cis-1,2-Dichloroethene	25.000	25.840	101	1.31	30	78 - 123
trans-1,2-Dichloroethene	25.000	27.160	104	0.331	30	75 - 124
1,2-Dichloropropane	25.000	23.580	94.3	7.86	30	78 - 122
1,3-Dichloropropane	25.000	24.420	97.7	10.4	30	80 - 119
2,2-Dichloropropane	25.000	27.620	110	3.38	30	60 - 139
1,1-Dichloropropene	25.000	27.470	110	1.98	30	79 - 125
cis-1,3-Dichloropropene	25.000	24.950	99.8	7.52	30	75 - 124
trans-1,3-Dichloropropene	25.000	25.470	102	8.64	30	73 - 127
Ethylbenzene	25.000	24.250	97.0	7.20	30	79 - 121
Hexachlorobutadiene	25.000	26.190	105	1.85	30	66 - 134
Isopropylbenzene	25.000	24.340	97.4	2.52	30	72 - 131
p-Isopropyltoluene	25.000	23.630	94.5	2.59	30	77 - 127
Methylene chloride	25.000	25.400	102	3.60	30	74 - 124
Methyl t-butyl ether	25.000	26.820	107	3.44	30	71 - 124
Naphthalene	25.000	27.850	111	6.87	30	61 - 128
n-Propylbenzene	25.000	23.570	94.3	1.60	30	76 - 126
Styrene	25.000	25.210	101	4.57	30	78 - 123
1,1,1,2-Tetrachloroethane	25.000	23.090	92.4	7.18	30	78 - 124
1,1,2,2-Tetrachloroethane	25.000	24.890	99.6	7.20	30	71 - 121
Tetrachloroethene	25.000	26.180	105	11.8	30	74 - 129
Toluene	25.000	25.380	101	6.44	30	80 - 121
1,2,3-Trichlorobenzene	25.000	28.090	112	5.64	30	69 - 129
1,2,4-Trichlorobenzene	25.000	28.390	114	2.57	30	69 - 130
1,1,1-Trichloroethane	25.000	27.380	110	2.31	30	74 - 131
1,1,2-Trichloroethane	25.000	24.320	97.3	11.9	30	80 - 119

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

MW4-2-19_170202

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0764
Laboratory ID: B[B0764-MSD1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1703077-06

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Trichloroethene	25.000	26.250	105	9.33	30	79 - 123
Trichlorofluoromethane	25.000	27.080	108	4.51	30	65 - 141
1,2,3-Trichloropropane	25.000	26.220	105	5.20	30	73 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.000	25.440	102	7.09	30	70 - 136
1,2,4-Trimethylbenzene	25.000	23.970	95.9	2.47	30	76 - 124
1,3,5-Trimethylbenzene	25.000	23.020	92.1	5.12	30	75 - 124
Vinyl chloride	25.000	35.370	100	0.929	30	58 - 137
Total Xylenes	75.000	74.000	98.7	6.88	30	79 - 121
Acetone	320.00	317.93	99.4	4.32	30	39 - 160
Acetonitrile	160.00	213.68	134	8.39	30	50 - 142
Allyl chloride	32.000	33.910	106	0.471	30	68 - 130
t-Amyl Methyl ether	16.000	17.120	107	1.18	30	68 - 128
Benzyl chloride	32.000	33.020	103	4.30	30	42 - 138
t-Butyl alcohol	800.00	845.37	106	12.3	30	68 - 129
Carbon disulfide	32.000	35.270	110	0.284	30	64 - 133
Chloroprene	32.000	34.310	107	0.673	30	65 - 135
Diisopropyl ether	16.000	17.960	112	2.04	30	67 - 128
Ethyl t-butyl ether	16.000	16.190	101	3.10	30	70 - 127
2-Hexanone	320.00	311.17	97.2	11.6	30	57 - 139
Methyl ethyl ketone	160.00	151.75	94.8	4.00	30	56 - 143
Methyl isobutyl ketone	160.00	155.53	97.2	8.15	30	67 - 130
Vinyl acetate	160.00	154.84	96.8	3.90	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0573
Laboratory ID: B[B0573-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	22.510	90.0	79 - 120
Bromobenzene	25.000	23.540	94.2	80 - 120
Bromochloromethane	25.000	22.720	90.9	78 - 123
Bromodichloromethane	25.000	22.160	88.6	79 - 125
Bromoform	25.000	21.330	85.3	66 - 130
Bromomethane	25.000	17.220	68.9	53 - 141
n-Butylbenzene	25.000	23.580	94.3	75 - 128
sec-Butylbenzene	25.000	21.730	86.9	77 - 126
tert-Butylbenzene	25.000	22.400	89.6	78 - 124
Carbon tetrachloride	25.000	24.290	97.2	72 - 136
Chlorobenzene	25.000	23.320	93.3	82 - 118
Chloroethane	25.000	22.140	88.6	60 - 138
Chloroform	25.000	22.790	91.2	79 - 124
Chloromethane	25.000	23.520	94.1	50 - 139
2-Chlorotoluene	25.000	23.030	92.1	79 - 122
4-Chlorotoluene	25.000	22.650	90.6	78 - 122
Dibromochloromethane	25.000	23.160	92.6	74 - 126
1,2-Dibromo-3-chloropropane	25.000	22.790	91.2	62 - 128
1,2-Dibromoethane	25.000	23.550	94.2	77 - 121
Dibromomethane	25.000	21.160	84.6	79 - 123
1,2-Dichlorobenzene	25.000	21.930	87.7	80 - 119
1,3-Dichlorobenzene	25.000	21.230	84.9	80 - 119
1,4-Dichlorobenzene	25.000	22.650	90.6	79 - 118
Dichlorodifluoromethane	25.000	22.220	88.9	32 - 152

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0573
Laboratory ID: B[B0573-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	21.380	85.5	77 - 125
1,2-Dichloroethane	25.000	23.180	92.7	73 - 128
1,1-Dichloroethene	25.000	23.490	94.0	71 - 131
cis-1,2-Dichloroethene	25.000	22.110	88.4	78 - 123
trans-1,2-Dichloroethene	25.000	23.050	92.2	75 - 124
1,2-Dichloropropane	25.000	21.560	86.2	78 - 122
1,3-Dichloropropane	25.000	22.640	90.6	80 - 119
2,2-Dichloropropane	25.000	24.820	99.3	60 - 139
1,1-Dichloropropene	25.000	23.590	94.4	79 - 125
cis-1,3-Dichloropropene	25.000	21.050	84.2	75 - 124
trans-1,3-Dichloropropene	25.000	22.740	91.0	73 - 127
Ethylbenzene	25.000	23.640	94.6	79 - 121
Hexachlorobutadiene	25.000	25.150	101	66 - 134
Isopropylbenzene	25.000	23.090	92.4	72 - 131
p-Isopropyltoluene	25.000	22.620	90.5	77 - 127
Methylene chloride	25.000	21.240	85.0	74 - 124
Methyl t-butyl ether	25.000	23.000	92.0	71 - 124
Naphthalene	25.000	26.420	106	61 - 128
n-Propylbenzene	25.000	21.980	87.9	76 - 126
Styrene	25.000	23.280	93.1	78 - 123
1,1,1,2-Tetrachloroethane	25.000	22.170	88.7	78 - 124
1,1,2,2-Tetrachloroethane	25.000	23.250	93.0	71 - 121
Tetrachloroethene	25.000	25.490	102	74 - 129
Toluene	25.000	22.080	88.3	80 - 121

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0573
Laboratory ID: B[B0573-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	26.740	107	69 - 129
1,2,4-Trichlorobenzene	25.000	26.440	106	69 - 130
1,1,1-Trichloroethane	25.000	24.510	98.0	74 - 131
1,1,2-Trichloroethane	25.000	22.980	91.9	80 - 119
Trichloroethene	25.000	24.300	97.2	79 - 123
Trichlorofluoromethane	25.000	24.750	99.0	65 - 141
1,2,3-Trichloropropane	25.000	24.110	96.4	73 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.000	22.110	88.4	70 - 136
1,2,4-Trimethylbenzene	25.000	22.170	88.7	76 - 124
1,3,5-Trimethylbenzene	25.000	21.490	86.0	75 - 124
Vinyl chloride	25.000	25.290	101	58 - 137
Total Xylenes	75.000	70.610	94.1	79 - 121
Acetone	320.00	296.57	92.7	39 - 160
Acetonitrile	160.00	192.25	120	50 - 142
Allyl chloride	32.000	28.630	89.5	68 - 130
t-Amyl Methyl ether	16.000	14.370	89.8	68 - 128
Benzyl chloride	32.000	31.080	97.1	42 - 138
t-Butyl alcohol	800.00	782.79	97.8	68 - 129
Carbon disulfide	32.000	30.090	94.0	64 - 133
Chloroprene	32.000	28.860	90.2	65 - 135
Diisopropyl ether	16.000	15.140	94.6	67 - 128
Ethyl t-butyl ether	16.000	14.210	88.8	70 - 127
2-Hexanone	320.00	284.42	88.9	57 - 139
Methyl ethyl ketone	160.00	142.94	89.3	56 - 143

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0573
Laboratory ID: B[B0573-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	139.21	87.0	67 - 130
Vinyl acetate	160.00	143.37	89.6	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0714
Laboratory ID: B[B0714-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	25.410	102	79 - 120
Bromobenzene	25.000	25.550	102	80 - 120
Bromochloromethane	25.000	24.090	96.4	78 - 123
Bromodichloromethane	25.000	24.920	99.7	79 - 125
Bromoform	25.000	22.650	90.6	66 - 130
Bromomethane	25.000	18.960	75.8	53 - 141
n-Butylbenzene	25.000	26.250	105	75 - 128
sec-Butylbenzene	25.000	24.820	99.3	77 - 126
tert-Butylbenzene	25.000	25.410	102	78 - 124
Carbon tetrachloride	25.000	28.820	115	72 - 136
Chlorobenzene	25.000	24.790	99.2	82 - 118
Chloroethane	25.000	25.510	102	60 - 138
Chloroform	25.000	24.980	99.9	79 - 124
Chloromethane	25.000	26.340	105	50 - 139
2-Chlorotoluene	25.000	25.930	104	79 - 122
4-Chlorotoluene	25.000	24.910	99.6	78 - 122
Dibromochloromethane	25.000	24.720	98.9	74 - 126
1,2-Dibromo-3-chloropropane	25.000	23.030	92.1	62 - 128
1,2-Dibromoethane	25.000	23.530	94.1	77 - 121
Dibromomethane	25.000	20.810	83.2	79 - 123
1,2-Dichlorobenzene	25.000	22.890	91.6	80 - 119
1,3-Dichlorobenzene	25.000	22.540	90.2	80 - 119
1,4-Dichlorobenzene	25.000	24.580	98.3	79 - 118
Dichlorodifluoromethane	25.000	25.970	104	32 - 152

AMEC Environmental & Infrastructure
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Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0714
Laboratory ID: B[B0714-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	23.480	93.9	77 - 125
1,2-Dichloroethane	25.000	24.530	98.1	73 - 128
1,1-Dichloroethene	25.000	26.870	107	71 - 131
cis-1,2-Dichloroethene	25.000	27.270	109	78 - 123
trans-1,2-Dichloroethene	25.000	25.700	103	75 - 124
1,2-Dichloropropane	25.000	23.930	95.7	78 - 122
1,3-Dichloropropane	25.000	23.110	92.4	80 - 119
2,2-Dichloropropane	25.000	28.530	114	60 - 139
1,1-Dichloropropene	25.000	27.500	110	79 - 125
cis-1,3-Dichloropropene	25.000	24.030	96.1	75 - 124
trans-1,3-Dichloropropene	25.000	24.240	97.0	73 - 127
Ethylbenzene	25.000	26.060	104	79 - 121
Hexachlorobutadiene	25.000	29.220	117	66 - 134
Isopropylbenzene	25.000	25.390	102	72 - 131
p-Isopropyltoluene	25.000	25.140	101	77 - 127
Methylene chloride	25.000	24.030	96.1	74 - 124
Methyl t-butyl ether	25.000	22.690	90.8	71 - 124
Naphthalene	25.000	24.710	98.8	61 - 128
n-Propylbenzene	25.000	25.040	100	76 - 126
Styrene	25.000	25.720	103	78 - 123
1,1,1,2-Tetrachloroethane	25.000	24.450	97.8	78 - 124
1,1,2,2-Tetrachloroethane	25.000	23.210	92.8	71 - 121
Tetrachloroethene	25.000	32.780	131 *	74 - 129
Toluene	25.000	25.650	103	80 - 121

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0714
Laboratory ID: B[B0714-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	26.300	105	69 - 129
1,2,4-Trichlorobenzene	25.000	26.880	108	69 - 130
1,1,1-Trichloroethane	25.000	27.310	109	74 - 131
1,1,2-Trichloroethane	25.000	23.460	93.8	80 - 119
Trichloroethene	25.000	29.250	117	79 - 123
Trichlorofluoromethane	25.000	28.120	112	65 - 141
1,2,3-Trichloropropane	25.000	25.250	101	73 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.000	26.600	106	70 - 136
1,2,4-Trimethylbenzene	25.000	25.760	103	76 - 124
1,3,5-Trimethylbenzene	25.000	24.290	97.2	75 - 124
Vinyl chloride	25.000	27.910	112	58 - 137
Total Xylenes	75.000	78.740	105	79 - 121
Acetone	320.00	267.25	83.5	39 - 160
Acetonitrile	160.00	183.91	115	50 - 142
Allyl chloride	32.000	33.390	104	68 - 130
t-Amyl Methyl ether	16.000	15.120	94.5	68 - 128
Benzyl chloride	32.000	29.180	91.2	42 - 138
t-Butyl alcohol	800.00	719.71	90.0	68 - 129
Carbon disulfide	32.000	35.440	111	64 - 133
Chloroprene	32.000	33.700	105	65 - 135
Diisopropyl ether	16.000	17.030	106	67 - 128
Ethyl t-butyl ether	16.000	14.890	93.1	70 - 127
2-Hexanone	320.00	262.36	82.0	57 - 139
Methyl ethyl ketone	160.00	130.76	81.7	56 - 143

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0714
Laboratory ID: B[B0714-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	135.03	84.4	67 - 130
Vinyl acetate	160.00	133.33	83.3	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0764
Laboratory ID: B[B0764-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	25.200	101	79 - 120
Bromobenzene	25.000	24.590	98.4	80 - 120
Bromochloromethane	25.000	25.120	100	78 - 123
Bromodichloromethane	25.000	25.810	103	79 - 125
Bromoform	25.000	23.180	92.7	66 - 130
Bromomethane	25.000	21.470	85.9	53 - 141
n-Butylbenzene	25.000	25.550	102	75 - 128
sec-Butylbenzene	25.000	23.860	95.4	77 - 126
tert-Butylbenzene	25.000	23.850	95.4	78 - 124
Carbon tetrachloride	25.000	28.750	115	72 - 136
Chlorobenzene	25.000	24.540	98.2	82 - 118
Chloroethane	25.000	25.620	102	60 - 138
Chloroform	25.000	25.700	103	79 - 124
Chloromethane	25.000	25.720	103	50 - 139
2-Chlorotoluene	25.000	24.830	99.3	79 - 122
4-Chlorotoluene	25.000	24.390	97.6	78 - 122
Dibromochloromethane	25.000	25.470	102	74 - 126
1,2-Dibromo-3-chloropropane	25.000	21.370	85.5	62 - 128
1,2-Dibromoethane	25.000	24.950	99.8	77 - 121
Dibromomethane	25.000	23.060	92.2	79 - 123
1,2-Dichlorobenzene	25.000	22.510	90.0	80 - 119
1,3-Dichlorobenzene	25.000	22.320	89.3	80 - 119
1,4-Dichlorobenzene	25.000	24.290	97.2	79 - 118
Dichlorodifluoromethane	25.000	25.510	102	32 - 152

AMEC Environmental & Infrastructure
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San Diego, CA 92123

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0764
Laboratory ID: B[B0764-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	24.030	96.1	77 - 125
1,2-Dichloroethane	25.000	24.490	98.0	73 - 128
1,1-Dichloroethene	25.000	27.390	110	71 - 131
cis-1,2-Dichloroethene	25.000	26.310	105	78 - 123
trans-1,2-Dichloroethene	25.000	25.250	101	75 - 124
1,2-Dichloropropane	25.000	24.810	99.2	78 - 122
1,3-Dichloropropane	25.000	23.820	95.3	80 - 119
2,2-Dichloropropane	25.000	29.060	116	60 - 139
1,1-Dichloropropene	25.000	27.550	110	79 - 125
cis-1,3-Dichloropropene	25.000	24.760	99.0	75 - 124
trans-1,3-Dichloropropene	25.000	25.180	101	73 - 127
Ethylbenzene	25.000	25.640	103	79 - 121
Hexachlorobutadiene	25.000	27.960	112	66 - 134
Isopropylbenzene	25.000	24.650	98.6	72 - 131
p-Isopropyltoluene	25.000	24.760	99.0	77 - 127
Methylene chloride	25.000	24.370	97.5	74 - 124
Methyl t-butyl ether	25.000	24.330	97.3	71 - 124
Naphthalene	25.000	25.360	101	61 - 128
n-Propylbenzene	25.000	24.050	96.2	76 - 126
Styrene	25.000	25.170	101	78 - 123
1,1,1,2-Tetrachloroethane	25.000	24.130	96.5	78 - 124
1,1,2,2-Tetrachloroethane	25.000	22.950	91.8	71 - 121
Tetrachloroethene	25.000	28.740	115	74 - 129
Toluene	25.000	26.470	106	80 - 121

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0764
Laboratory ID: B[B0764-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	26.910	108	69 - 129
1,2,4-Trichlorobenzene	25.000	27.910	112	69 - 130
1,1,1-Trichloroethane	25.000	28.260	113	74 - 131
1,1,2-Trichloroethane	25.000	23.530	94.1	80 - 119
Trichloroethene	25.000	26.940	108	79 - 123
Trichlorofluoromethane	25.000	29.270	117	65 - 141
1,2,3-Trichloropropane	25.000	23.210	92.8	73 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.000	27.760	111	70 - 136
1,2,4-Trimethylbenzene	25.000	24.280	97.1	76 - 124
1,3,5-Trimethylbenzene	25.000	23.700	94.8	75 - 124
Vinyl chloride	25.000	29.060	116	58 - 137
Total Xylenes	75.000	76.030	101	79 - 121
Acetone	320.00	304.39	95.1	39 - 160
Acetonitrile	160.00	215.24	135	50 - 142
Allyl chloride	32.000	34.230	107	68 - 130
t-Amyl Methyl ether	16.000	15.460	96.6	68 - 128
Benzyl chloride	32.000	30.130	94.2	42 - 138
t-Butyl alcohol	800.00	822.24	103	68 - 129
Carbon disulfide	32.000	36.310	113	64 - 133
Chloroprene	32.000	35.460	111	65 - 135
Diisopropyl ether	16.000	17.560	110	67 - 128
Ethyl t-butyl ether	16.000	15.680	98.0	70 - 127
2-Hexanone	320.00	294.78	92.1	57 - 139
Methyl ethyl ketone	160.00	142.74	89.2	56 - 143

AMEC Environmental & Infrastructure
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San Diego, CA 92123

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Matrix: Water
Batch: B[B0764
Laboratory ID: B[B0764-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	145.95	91.2	67 - 130
Vinyl acetate	160.00	145.75	91.1	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Sequence: 1702156
Instrument: MS-V5
Matrix: Water
Calibration: 1702011

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	1702156-ICV1	26JAN15.D	01/26/17 19:35
Initial Cal Blank	1702156-ICB1	26JAN17.D	01/26/17 20:23
Initial Cal Check	1702156-ICV2	07FEB15.D	02/07/17 12:46
Initial Cal Blank	1702156-ICB2	07FEB17.D	02/07/17 13:33
MS Tune	1702156-TUN1	08FEB01.D	02/08/17 05:22
Calibration Check	1702156-CCV1	08FEB02.D	02/08/17 05:47
Calibration Check	1702156-CCV2	08FEB03.D	02/08/17 06:11
Calibration Blank	1702156-CCB1	08FEB05.D	02/08/17 06:58
Blank	B[B0573-BLK1	08FEB06.D	02/08/17 07:21
LCS	B[B0573-BS1	08FEB12.D	02/08/17 09:52
Matrix Spike	B[B0573-MS1	08FEB13.D	02/08/17 10:16
Matrix Spike Dup	B[B0573-MSD1	08FEB14.D	02/08/17 10:39
Blank	B[B0714-BLK1	08FEB16.D	02/08/17 11:25
LCS	B[B0714-BS1	08FEB27.D	02/08/17 15:40
Matrix Spike	B[B0714-MS1	08FEB28.D	02/08/17 16:03
Matrix Spike Dup	B[B0714-MSD1	08FEB29.D	02/08/17 16:26
MS Tune	1702156-TUN2	08FEB31.D	02/08/17 17:13
Calibration Check	1702156-CCV3	08FEB32.D	02/08/17 17:36
Calibration Check	1702156-CCV4	08FEB33.D	02/08/17 17:59
Calibration Blank	1702156-CCB2	08FEB34.D	02/08/17 18:22
TB10_170202	1703077-24	08FEB53.D	02/09/17 01:45
EB17_170202	1703077-25	08FEB54.D	02/09/17 02:08
EB18_170202	1703077-26	08FEB55.D	02/09/17 02:31
EB19_170202	1703077-27	08FEB56.D	02/09/17 02:55
M04-07_170202	1703077-28	08FEB57.D	02/09/17 03:18
MW4-2-12_170202	1703077-29	08FEB58.D	02/09/17 03:41

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Sequence:	1702156	Instrument:	MS-V5
Matrix:	Water	Calibration:	1702011

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1702156-TUN3	09FEB01.D	02/09/17 04:51
Calibration Check	1702156-CCV5	09FEB02.D	02/09/17 05:14
Calibration Check	1702156-CCV6	09FEB03.D	02/09/17 05:37
Calibration Blank	1702156-CCB3	09FEB04.D	02/09/17 06:12

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
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[B0764-BLK1	09FEB09.D	02/09/17 08:16
MW4-2-19_170202	1703077-06	09FEB10.D	02/09/17 08:48
LCS	B[B0764-BS1	09FEB11.D	02/09/17 09:11
MW4-2-19_170202	B[B0764-MS1	09FEB12.D	02/09/17 09:34
MW4-2-19_170202	B[B0764-MSD1	09FEB13.D	02/09/17 09:57
DUP20_170202	1703077-01	09FEB16.D	02/09/17 11:07
M04-06_170202	1703077-02	09FEB17.D	02/09/17 11:30
MW-360-2_170202	1703077-03	09FEB18.D	02/09/17 11:53
MW4-2-10_170202	1703077-04	09FEB19.D	02/09/17 12:17
MW4-2-16_170202	1703077-05	09FEB20.D	02/09/17 12:40
MW4-2-4_170202	1703077-07	09FEB22.D	02/09/17 13:26
MW4-2-6_170202	1703077-08	09FEB23.D	02/09/17 13:50
MW97-3_170202	1703077-09	09FEB24.D	02/09/17 14:13
S3-TT-MW01_170202	1703077-10	09FEB25.D	02/09/17 14:36
S4-TT-MW03D_170202	1703077-11	09FEB26.D	02/09/17 14:59
S4-TT-MW03E_170202	1703077-12	09FEB27.D	02/09/17 15:22
372-MW-03_170202	1703077-13	09FEB28.D	02/09/17 15:45
MS Tune	1702254-TUN2	09FEB35.D	02/09/17 18:28

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
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
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
TB09_170202	1703077-23	09FEB39.D	02/09/17 20:00
D03-04_170202	1703077-14	09FEB43.D	02/09/17 21:33
DUP14_170202	1703077-15	09FEB44.D	02/09/17 21:56
DUP17_170202	1703077-16	09FEB45.D	02/09/17 22:19
DUP19_170202	1703077-17	09FEB46.D	02/09/17 22:43
MW4-2-11_170202	1703077-18	09FEB47.D	02/09/17 23:06
MW4-2-14_170202	1703077-19	09FEB48.D	02/09/17 23:29
S4-TT-MW03A_170202	1703077-20	09FEB49.D	02/09/17 23:52
S4-TT-MW03B_170202	1703077-21RE1	09FEB56.D	02/10/17 02:34
S4-TT-MW03C_170202	1703077-22RE1	09FEB57.D	02/10/17 02:57
MW4-2-10_170202	1703077-04RE1	09FEB58.D	02/10/17 03:21
MW4-2-16_170202	1703077-05RE1	09FEB59.D	02/10/17 03:44
MW4-2-4_170202	1703077-07RE1	09FEB60.D	02/10/17 04:07
MS Tune	1702254-TUN3	10FEB01.D	02/10/17 06:04
Calibration Check	1702254-CCV5	10FEB02.D	02/10/17 06:27
Calibration Check	1702254-CCV6	10FEB03.D	02/10/17 06:50
Calibration Blank	1702254-CCB3	10FEB04.D	02/10/17 07:14

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
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
S4-TT-MW03B_170202	1703077-21	10FEB05.D	02/10/17 07:37
S4-TT-MW03C_170202	1703077-22	10FEB06.D	02/10/17 08:00
DUP19_170202	1703077-17RE1	10FEB12.D	02/10/17 10:20
S4-TT-MW03A_170202	1703077-20RE1	10FEB13.D	02/10/17 10:43
S4-TT-MW03A_170202	1703077-20RE2	10FEB29.D	02/10/17 17:12
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

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MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
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:	17-03077
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:	17-03077
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:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Lab File ID:	08FEB01.D	Injection Date:	02/08/17
Instrument ID:	MS-V5	Injection Time:	05:22
Sequence:	1702156	Lab Sample ID:	1702156-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	25.5	PASS
Mass 75	30 - 60% of Mass 95	49.8	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	6.83	PASS
Mass 173	Less than 2% of Mass 174	0	PASS
Mass 174	50 - 100% of Mass 95	98.2	PASS
Mass 175	5 - 9% of Mass 174	6.62	PASS
Mass 176	95 - 101% of Mass 174	96.8	PASS
Mass 177	5 - 9% of Mass 176	7.16	PASS

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MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Lab File ID:	08FEB31.D	Injection Date:	02/08/17
Instrument ID:	MS-V5	Injection Time:	17:13
Sequence:	1702156	Lab Sample ID:	1702156-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	24.2	PASS
Mass 75	30 - 60% of Mass 95	44.3	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	5.99	PASS
Mass 173	Less than 2% of Mass 174	0	PASS
Mass 174	50 - 100% of Mass 95	72.8	PASS
Mass 175	5 - 9% of Mass 174	8.27	PASS
Mass 176	95 - 101% of Mass 174	101	PASS
Mass 177	5 - 9% of Mass 176	6.61	PASS

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MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Lab File ID:	09FEB01.D	Injection Date:	02/09/17
Instrument ID:	MS-V5	Injection Time:	04:51
Sequence:	1702156	Lab Sample ID:	1702156-TUN3

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	30	PASS
Mass 75	30 - 60% of Mass 95	43.6	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	7.99	PASS
Mass 173	Less than 2% of Mass 174	1.03	PASS
Mass 174	50 - 100% of Mass 95	94.6	PASS
Mass 175	5 - 9% of Mass 174	5.62	PASS
Mass 176	95 - 101% of Mass 174	100	PASS
Mass 177	5 - 9% of Mass 176	8.81	PASS

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MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
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:	17-03077
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:	17-03077
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:	1702254	Lab Sample ID:	1702254-TUN3

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:	17-03077
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:	17-03077
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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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
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:	1702156	Injection Date:	01/26/17
Lab Sample ID:	1702156-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:	17-03077
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:	1702156	Injection Date:	01/26/17
Lab Sample ID:	1702156-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:	17-03077
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:	1702156	Injection Date:	01/26/17
Lab Sample ID:	1702156-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
Hexachloroethane	A	25.000	25.960	0.7041294	0.7312332		3.8	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
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:	1702156	Injection Date:	02/07/17
Lab Sample ID:	1702156-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 *
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
trans-1,4-Dichloro-2-butene	A	80.000	76.690	0.1551532	0.1487324		-4.1	20
Diethyl ether	A	25.000	24.130	0.2602638	0.2512119		-3.5	20
Diisopropyl ether	A	16.000	15.550	0.3174881	0.3085884		-2.8	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
Methacrylonitrile	A	160.00	158.40	6.173201E-02	6.111602E-02		-1.0	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
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
Pentachloroethane	A	16.000	15.870	0.5366092	0.5321011		-0.8	20
Propionitrile	A	400.00	409.66	2.300947E-02	2.356491E-02		2.4	20
Tetrahydrofuran	A	320.00	306.99	5.139228E-02	4.930284E-02		-4.1	20

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
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:	1702156	Injection Date:	02/07/17
Lab Sample ID:	1702156-ICV2	Injection Time:	12:46

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
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

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	08FEB02.D	Calibration Date:	01/26/17 17:00
Sequence:	1702156	Injection Date:	02/08/17
Lab Sample ID:	1702156-CCV1	Injection Time:	05:47

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	26.170	1.889545	1.977895		4.7	20	
Bromobenzene	A	25.000	25.980	1.179324	1.225374		3.9	20	
Bromochloromethane	A	25.000	28.430	0.1547174	0.1759729		13.7	20	
Bromodichloromethane	A	25.000	27.040	0.3292103	0.3560816		8.2	20	
Bromoform	A	25.000	26.190	0.3506939	0.3673789	0.1	4.8	20	
Bromomethane	A	25.000	17.380	0.3180084	0.2210915		-30.5	20	*
n-Butylbenzene	A	25.000	25.520	3.493597	3.566178		2.1	20	
sec-Butylbenzene	A	25.000	23.620	5.379312	5.082763		-5.5	20	
tert-Butylbenzene	A	25.000	25.920	3.852201	3.993717		3.7	20	
Carbon tetrachloride	A	25.000	28.110	0.4688551	0.5271228		12.4	20	
Chlorobenzene	A	25.000	24.750	2.978027	2.947924	0.3	-1.0	20	
Chloroethane	A	25.000	26.730	0.3902835	0.4172427		6.9	20	
Chloroform	A	25.000	27.270	0.7548469	0.8234639		9.1	20	
Chloromethane	L	25.000	29.500	0.6989857	0.7423963	0.1	18.0	20	
2-Chlorotoluene	A	25.000	22.990	3.666018	3.370803		-8.1	20	
4-Chlorotoluene	A	25.000	25.020	3.285453	3.288064		0.08	20	
Dibromochloromethane	A	25.000	27.390	0.1708407	0.1871549		9.5	20	
1,2-Dibromo-3-chloropropane	L	25.000	25.640	0.0666406	7.739216E-02		2.6	20	
1,2-Dibromoethane	A	25.000	27.770	0.1390115	0.1544111		11.1	20	
Dibromomethane	A	25.000	25.490	0.1132441	0.1154718		2.0	20	
1,2-Dichlorobenzene	A	25.000	24.490	1.693334	1.659104		-2.0	20	
1,3-Dichlorobenzene	A	25.000	22.220	2.068389	1.838708		-11.1	20	
1,4-Dichlorobenzene	A	25.000	24.690	1.916207	1.892123		-1.3	20	

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	08FEB02.D	Calibration Date:	01/26/17 17:00
Sequence:	1702156	Injection Date:	02/08/17
Lab Sample ID:	1702156-CCV1	Injection Time:	05:47

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dichlorodifluoromethane	A	25.000	26.840	0.4765408	0.5116786		7.4	20
1,1-Dichloroethane	A	25.000	26.230	1.030991	1.081569	0.1	4.9	20
1,2-Dichloroethane	A	25.000	28.180	0.438219	0.4940306		12.7	20
1,1-Dichloroethene	A	25.000	26.650	0.7766588	0.8279463		6.6	20
cis-1,2-Dichloroethene	A	25.000	27.020	0.46668	0.5043139		8.1	20
trans-1,2-Dichloroethene	A	25.000	25.950	0.4502706	0.4673558		3.8	20
1,2-Dichloropropane	A	25.000	24.800	0.3723232	0.3692835		-0.8	20
1,3-Dichloropropane	A	25.000	26.450	0.2667047	0.2822134		5.8	20
2,2-Dichloropropane	A	25.000	29.220	0.6461859	0.7553785		16.9	20
1,1-Dichloropropene	A	25.000	27.580	0.61317	0.6765638		10.3	20
cis-1,3-Dichloropropene	A	25.000	25.530	0.436368	0.4456228		2.1	20
trans-1,3-Dichloropropene	A	25.000	25.850	0.3001727	0.3103747		3.4	20
Ethylbenzene	A	25.000	25.500	1.699115	1.733135		2.0	20
Hexachlorobutadiene	A	25.000	26.430	0.8012975	0.8470116		5.7	20
Isopropylbenzene	A	25.000	24.900	5.188549	5.166842		-0.4	20
p-Isopropyltoluene	A	25.000	23.390	4.064913	3.803447		-6.4	20
Methylene chloride	L	25.000	27.090	0.601454	0.4144756		8.4	20
Methyl t-butyl ether	A	25.000	28.650	0.6285989	0.720428		14.6	20
Naphthalene	A	25.000	29.610	1.162765	1.37715		18.4	20
n-Propylbenzene	A	25.000	23.580	5.959786	5.62009		-5.7	20
Styrene	A	25.000	26.190	2.90027	3.038101		4.8	20
1,1,1,2-Tetrachloroethane	A	25.000	25.970	0.9261768	0.9620258		3.9	20
1,1,2,2-Tetrachloroethane	A	25.000	26.270	0.555952	0.5842813	0.3	5.1	20

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	08FEB02.D	Calibration Date:	01/26/17 17:00
Sequence:	1702156	Injection Date:	02/08/17
Lab Sample ID:	1702156-CCV1	Injection Time:	05:47

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	27.780	0.3412463	0.3792314		11.1	20
Toluene	A	25.000	26.310	0.7797766	0.8207332		5.3	20
1,2,3-Trichlorobenzene	A	25.000	30.390	1.02527	1.246388		21.6	20 *
1,2,4-Trichlorobenzene	A	25.000	29.180	1.194842	1.394566		16.7	20
1,1,1-Trichloroethane	A	25.000	27.960	0.6397625	0.7154229		11.8	20
1,1,2-Trichloroethane	A	25.000	27.120	0.1533095	0.1662993		8.5	20
Trichloroethene	A	25.000	27.150	0.3255704	0.3536296		8.6	20
Trichlorofluoromethane	A	25.000	28.950	0.5867905	0.679491		15.8	20
1,2,3-Trichloropropane	L	25.000	26.940	0.105337	0.1176647		7.8	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	26.660	0.4183029	0.4461576		6.7	20
1,2,4-Trimethylbenzene	A	25.000	25.230	3.597754	3.631125		0.9	20
1,3,5-Trimethylbenzene	A	25.000	23.120	3.970515	3.672645		-7.5	20
Vinyl chloride	A	25.000	27.190	0.5958562	0.648114		8.8	20
Total Xylenes	A	75.000	76.280	1.988127	2.022082		1.7	20
Hexachloroethane	A	25.000	22.910	0.7041294	0.6452215		-8.4	20
p- & m-Xylenes	A	50.000	50.880	2.011739	2.047162		1.8	20
o-Xylene	A	25.000	25.400	1.940902	1.971924		1.6	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

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	08FEB03.D	Calibration Date:	01/26/17 17:00
Sequence:	1702156	Injection Date:	02/08/17
Lab Sample ID:	1702156-CCV2	Injection Time:	06:11

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	351.51	0.044841	4.925633E-02		9.8	20	
Acetonitrile	L	160.00	224.77	1.965066E-02	2.287569E-02		40.5	20	*
Acrylonitrile	A	80.000	86.240	6.371868E-02	6.868542E-02		7.8	20	
Allyl chloride	A	32.000	31.970	1.114402	1.113408		-0.09	20	
t-Amyl Methyl ether	A	16.000	15.870	0.7281162	0.7221184		-0.8	20	
Benzyl chloride	A	32.000	34.770	0.8656921	0.9407231		8.7	20	
t-Butyl alcohol	A	800.00	915.14	1.280474E-02	1.464765E-02		14.4	20	
Carbon disulfide	A	32.000	31.490	1.344744	1.323477		-1.6	20	
Chloroprene	A	32.000	32.630	1.000946	1.020514		2.0	20	
trans-1,4-Dichloro-2-butene	A	80.000	77.300	0.1551532	0.149913		-3.4	20	
Diethyl ether	A	25.000	26.370	0.2602638	0.2745156		5.5	20	
Diisopropyl ether	A	16.000	16.840	0.3174881	0.3341267		5.2	20	
Ethyl methacrylate	A	80.000	79.530	0.1775957	0.1765481		-0.6	20	
Ethyl t-butyl ether	A	16.000	16.060	1.311089	1.315968		0.4	20	
2-Hexanone	Q	320.00	334.85	0.0923643	9.116137E-02		4.6	20	
Methacrylonitrile	A	160.00	163.55	6.173201E-02	6.310123E-02		2.2	20	
Methyl ethyl ketone	A	160.00	170.94	0.0879739	9.398735E-02		6.8	20	
Methyl iodide	A	32.000	13.310	0.5848188	0.2431894		-58.4	20	*
Methyl isobutyl ketone	A	160.00	158.55	0.1389299	0.1376671		-0.9	20	
Methyl methacrylate	A	80.000	79.980	8.339718E-02	8.337669E-02		-0.02	20	
Pentachloroethane	A	16.000	18.060	0.5366092	0.6055388		12.8	20	
Propionitrile	A	400.00	433.47	2.300947E-02	2.493457E-02		8.4	20	
Tetrahydrofuran	A	320.00	320.07	5.139228E-02	5.140293E-02		0.02	20	

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EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	08FEB03.D	Calibration Date:	01/26/17 17:00
Sequence:	1702156	Injection Date:	02/08/17
Lab Sample ID:	1702156-CCV2	Injection Time:	06:11

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Vinyl acetate	A	160.00	158.75	0.6344058	0.6294348		-0.8	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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EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	08FEB32.D	Calibration Date:	01/26/17 17:00
Sequence:	1702156	Injection Date:	02/08/17
Lab Sample ID:	1702156-CCV3	Injection Time:	17:36

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	24.440	1.889545	1.84713		-2.2	20	
Bromobenzene	A	25.000	24.270	1.179324	1.144769		-2.9	20	
Bromochloromethane	A	25.000	26.810	0.1547174	0.1659388		7.3	20	
Bromodichloromethane	A	25.000	25.090	0.3292103	0.3303975		0.4	20	
Bromoform	A	25.000	22.600	0.3506939	0.3170247	0.1	-9.6	20	
Bromomethane	A	25.000	13.420	0.3180084	0.1707542		-46.3	20	*
n-Butylbenzene	A	25.000	23.920	3.493597	3.342363		-4.3	20	
sec-Butylbenzene	A	25.000	22.600	5.379312	4.862085		-9.6	20	
tert-Butylbenzene	A	25.000	22.230	3.852201	3.424796		-11.1	20	
Carbon tetrachloride	A	25.000	25.600	0.4688551	0.4801255		2.4	20	
Chlorobenzene	A	25.000	23.860	2.978027	2.842179	0.3	-4.6	20	
Chloroethane	A	25.000	25.310	0.3902835	0.3951485		1.2	20	
Chloroform	A	25.000	24.750	0.7548469	0.7472747		-1.0	20	
Chloromethane	L	25.000	25.460	0.6989857	0.643157	0.1	1.8	20	
2-Chlorotoluene	A	25.000	21.110	3.666018	3.094864		-15.6	20	
4-Chlorotoluene	A	25.000	22.910	3.285453	3.010759		-8.4	20	
Dibromochloromethane	A	25.000	26.030	0.1708407	0.1778654		4.1	20	
1,2-Dibromo-3-chloropropane	L	25.000	23.020	0.0666406	6.953676E-02		-7.9	20	
1,2-Dibromoethane	A	25.000	25.180	0.1390115	0.1400308		0.7	20	
Dibromomethane	A	25.000	23.860	0.1132441	0.1080611		-4.6	20	
1,2-Dichlorobenzene	A	25.000	22.260	1.693334	1.507844		-11.0	20	
1,3-Dichlorobenzene	A	25.000	21.130	2.068389	1.747896		-15.5	20	
1,4-Dichlorobenzene	A	25.000	23.090	1.916207	1.769621		-7.6	20	

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	08FEB32.D	Calibration Date:	01/26/17 17:00
Sequence:	1702156	Injection Date:	02/08/17
Lab Sample ID:	1702156-CCV3	Injection Time:	17:36

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	24.180	0.4765408	0.4609064		-3.3	20
1,1-Dichloroethane	A	25.000	24.050	1.030991	0.9917687	0.1	-3.8	20
1,2-Dichloroethane	A	25.000	24.750	0.438219	0.4339063		-1.0	20
1,1-Dichloroethene	A	25.000	25.710	0.7766588	0.798673		2.8	20
cis-1,2-Dichloroethene	A	25.000	25.240	0.46668	0.4711643		1.0	20
trans-1,2-Dichloroethene	A	25.000	24.660	0.4502706	0.4441965		-1.3	20
1,2-Dichloropropane	A	25.000	23.740	0.3723232	0.3535067		-5.1	20
1,3-Dichloropropane	A	25.000	24.850	0.2667047	0.2651573		-0.6	20
2,2-Dichloropropane	A	25.000	25.040	0.6461859	0.6472968		0.2	20
1,1-Dichloropropene	A	25.000	25.060	0.61317	0.614639		0.2	20
cis-1,3-Dichloropropene	A	25.000	23.610	0.436368	0.4121106		-5.6	20
trans-1,3-Dichloropropene	A	25.000	24.690	0.3001727	0.2965086		-1.2	20
Ethylbenzene	A	25.000	24.050	1.699115	1.634307		-3.8	20
Hexachlorobutadiene	A	25.000	25.770	0.8012975	0.8260266		3.1	20
Isopropylbenzene	A	25.000	23.470	5.188549	4.871825		-6.1	20
p-Isopropyltoluene	A	25.000	22.650	4.064913	3.682724		-9.4	20
Methylene chloride	L	25.000	26.440	0.601454	0.405324		5.8	20
Methyl t-butyl ether	A	25.000	26.180	0.6285989	0.6583851		4.7	20
Naphthalene	A	25.000	26.800	1.162765	1.246537		7.2	20
n-Propylbenzene	A	25.000	22.050	5.959786	5.255908		-11.8	20
Styrene	A	25.000	24.700	2.90027	2.865598		-1.2	20
1,1,1,2-Tetrachloroethane	A	25.000	23.560	0.9261768	0.8727537		-5.8	20
1,1,2,2-Tetrachloroethane	A	25.000	23.310	0.555952	0.5183954	0.3	-6.8	20

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	08FEB32.D	Calibration Date:	01/26/17 17:00
Sequence:	1702156	Injection Date:	02/08/17
Lab Sample ID:	1702156-CCV3	Injection Time:	17:36

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	28.180	0.3412463	0.3846134		12.7	20
Toluene	A	25.000	25.070	0.7797766	0.7819629		0.3	20
1,2,3-Trichlorobenzene	A	25.000	27.860	1.02527	1.142509		11.4	20
1,2,4-Trichlorobenzene	A	25.000	26.360	1.194842	1.25964		5.4	20
1,1,1-Trichloroethane	A	25.000	26.300	0.6397625	0.6729738		5.2	20
1,1,2-Trichloroethane	A	25.000	25.290	0.1533095	0.1551068		1.2	20
Trichloroethene	A	25.000	26.710	0.3255704	0.3478765		6.9	20
Trichlorofluoromethane	A	25.000	25.800	0.5867905	0.6054788		3.2	20
1,2,3-Trichloropropane	L	25.000	27.360	0.105337	0.1193801		9.4	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	25.630	0.4183029	0.4287975		2.5	20
1,2,4-Trimethylbenzene	A	25.000	23.770	3.597754	3.420963		-4.9	20
1,3,5-Trimethylbenzene	A	25.000	22.050	3.970515	3.501701		-11.8	20
Vinyl chloride	A	25.000	26.850	0.5958562	0.6400084		7.4	20
Total Xylenes	A	75.000	71.830	1.988127	1.90406		-4.2	20
Hexachloroethane	A	25.000	17.750	0.7041294	0.4999608		-29.0	20 *
p- & m-Xylenes	A	50.000	47.990	2.011739	1.930835		-4.0	20
o-Xylene	A	25.000	23.840	1.940902	1.850509		-4.7	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	08FEB33.D	Calibration Date:	01/26/17 17:00
Sequence:	1702156	Injection Date:	02/08/17
Lab Sample ID:	1702156-CCV4	Injection Time:	17:59

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	357.87	0.044841	5.014776E-02		11.8	20	
Acetonitrile	L	160.00	237.06	1.965066E-02	2.404354E-02		48.2	20	*
Acrylonitrile	A	80.000	89.050	6.371868E-02	7.092464E-02		11.3	20	
Allyl chloride	A	32.000	30.690	1.114402	1.06869		-4.1	20	
t-Amyl Methyl ether	A	16.000	17.090	0.7281162	0.7778579		6.8	20	
Benzyl chloride	A	32.000	30.450	0.8656921	0.8237278		-4.8	20	
t-Butyl alcohol	A	800.00	876.68	1.280474E-02	1.403211E-02		9.6	20	
Carbon disulfide	A	32.000	34.130	1.344744	1.434264		6.7	20	
Chloroprene	A	32.000	32.540	1.000946	1.017829		1.7	20	
trans-1,4-Dichloro-2-butene	A	80.000	54.440	0.1551532	0.1055863		-31.9	20	*
Diethyl ether	A	25.000	28.010	0.2602638	0.2916469		12.1	20	
Diisopropyl ether	A	16.000	17.220	0.3174881	0.3417013		7.6	20	
Ethyl methacrylate	A	80.000	80.020	0.1775957	0.1776493		0.03	20	
Ethyl t-butyl ether	A	16.000	16.480	1.311089	1.3508		3.0	20	
2-Hexanone	Q	320.00	323.99	0.0923643	8.870374E-02		1.2	20	
Methacrylonitrile	A	160.00	174.06	6.173201E-02	6.715547E-02		8.8	20	
Methyl ethyl ketone	A	160.00	168.85	0.0879739	9.283844E-02		5.5	20	
Methyl iodide	A	32.000	9.2700	0.5848188	0.1693405		-71.0	20	*
Methyl isobutyl ketone	A	160.00	161.69	0.1389299	0.1403974		1.1	20	
Methyl methacrylate	A	80.000	80.780	8.339718E-02	0.0842133		1.0	20	
Pentachloroethane	A	16.000	5.6500	0.5366092	0.1893583		-64.7	20	*
Propionitrile	A	400.00	460.14	2.300947E-02	2.646895E-02		15.0	20	
Tetrahydrofuran	A	320.00	351.62	5.139228E-02	5.647057E-02		9.9	20	

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	08FEB33.D	Calibration Date:	01/26/17 17:00
Sequence:	1702156	Injection Date:	02/08/17
Lab Sample ID:	1702156-CCV4	Injection Time:	17:59

	(1) CAL	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Vinyl acetate	A	160.00	134.80	0.6344058	0.5345057		-15.7	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	09FEB02.D	Calibration Date:	01/26/17 17:00
Sequence:	1702156	Injection Date:	02/09/17
Lab Sample ID:	1702156-CCV5	Injection Time:	05:14

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 (#)	
Benzene	A	25.000	25.420	1.889545	1.921225		1.7	20	
Bromobenzene	A	25.000	26.230	1.179324	1.237465		4.9	20	
Bromochloromethane	A	25.000	25.920	0.1547174	0.1604067		3.7	20	
Bromodichloromethane	A	25.000	25.910	0.3292103	0.3411718		3.6	20	
Bromoform	A	25.000	21.600	0.3506939	0.3029556	0.1	-13.6	20	
Bromomethane	A	25.000	12.310	0.3180084	0.1566069		-50.8	20	*
n-Butylbenzene	A	25.000	27.130	3.493597	3.79133		8.5	20	
sec-Butylbenzene	A	25.000	24.790	5.379312	5.333477		-0.9	20	
tert-Butylbenzene	A	25.000	24.950	3.852201	3.844924		-0.2	20	
Carbon tetrachloride	A	25.000	27.580	0.4688551	0.5173009		10.3	20	
Chlorobenzene	A	25.000	25.450	2.978027	3.031768	0.3	1.8	20	
Chloroethane	A	25.000	25.380	0.3902835	0.3961557		1.5	20	
Chloroform	A	25.000	25.550	0.7548469	0.7716014		2.2	20	
Chloromethane	L	25.000	27.600	0.6989857	0.6956548	0.1	10.4	20	
2-Chlorotoluene	A	25.000	25.770	3.666018	3.779452		3.1	20	
4-Chlorotoluene	A	25.000	25.590	3.285453	3.362646		2.3	20	
Dibromochloromethane	A	25.000	25.910	0.1708407	0.1770835		3.7	20	
1,2-Dibromo-3-chloropropane	L	25.000	23.940	0.0666406	7.229323E-02		-4.2	20	
1,2-Dibromoethane	A	25.000	26.390	0.1390115	0.1467655		5.6	20	
Dibromomethane	A	25.000	24.180	0.1132441	0.1095429		-3.3	20	
1,2-Dichlorobenzene	A	25.000	24.470	1.693334	1.657318		-2.1	20	
1,3-Dichlorobenzene	A	25.000	23.690	2.068389	1.960206		-5.2	20	
1,4-Dichlorobenzene	A	25.000	25.350	1.916207	1.942712		1.4	20	

AMEC Environmental & Infrastructure
9210 Sky Park Court #200
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Reported: 3/7/2017 3:19:09PM
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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	09FEB02.D	Calibration Date:	01/26/17 17:00
Sequence:	1702156	Injection Date:	02/09/17
Lab Sample ID:	1702156-CCV5	Injection Time:	05:14

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dichlorodifluoromethane	A	25.000	27.080	0.4765408	0.5160987		8.3	20
1,1-Dichloroethane	A	25.000	25.010	1.030991	1.031336	0.1	0.03	20
1,2-Dichloroethane	A	25.000	25.000	0.438219	0.4382373		0.004	20
1,1-Dichloroethene	A	25.000	26.920	0.7766588	0.8362908		7.7	20
cis-1,2-Dichloroethene	A	25.000	25.650	0.46668	0.4787816		2.6	20
trans-1,2-Dichloroethene	A	25.000	25.820	0.4502706	0.4650477		3.3	20
1,2-Dichloropropane	A	25.000	23.990	0.3723232	0.3572301		-4.1	20
1,3-Dichloropropane	A	25.000	25.130	0.2667047	0.2681412		0.5	20
2,2-Dichloropropane	A	25.000	29.110	0.6461859	0.7523905		16.4	20
1,1-Dichloropropene	A	25.000	26.670	0.61317	0.6540863		6.7	20
cis-1,3-Dichloropropene	A	25.000	24.710	0.436368	0.4313101		-1.2	20
trans-1,3-Dichloropropene	A	25.000	25.560	0.3001727	0.3068931		2.2	20
Ethylbenzene	A	25.000	25.690	1.699115	1.746178		2.8	20
Hexachlorobutadiene	A	25.000	29.900	0.8012975	0.9582893		19.6	20
Isopropylbenzene	A	25.000	25.300	5.188549	5.251143		1.2	20
p-Isopropyltoluene	A	25.000	26.230	4.064913	4.265313		4.9	20
Methylene chloride	L	25.000	27.430	0.601454	0.4192321		9.7	20
Methyl t-butyl ether	A	25.000	24.810	0.6285989	0.6238917		-0.7	20
Naphthalene	A	25.000	28.200	1.162765	1.311773		12.8	20
n-Propylbenzene	A	25.000	25.060	5.959786	5.973393		0.2	20
Styrene	A	25.000	25.920	2.90027	3.006876		3.7	20
1,1,1,2-Tetrachloroethane	A	25.000	25.220	0.9261768	0.9343984		0.9	20
1,1,2,2-Tetrachloroethane	A	25.000	24.120	0.555952	0.5364815	0.3	-3.5	20

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

Reported: 3/7/2017 3:19:09PM
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Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	09FEB02.D	Calibration Date:	01/26/17 17:00
Sequence:	1702156	Injection Date:	02/09/17
Lab Sample ID:	1702156-CCV5	Injection Time:	05:14

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 (#)
Tetrachloroethene	A	25.000	32.190	0.3412463	0.4393493		28.7	20 *
Toluene	A	25.000	26.320	0.7797766	0.8209694		5.3	20
1,2,3-Trichlorobenzene	A	25.000	29.670	1.02527	1.216634		18.7	20
1,2,4-Trichlorobenzene	A	25.000	28.660	1.194842	1.36954		14.6	20
1,1,1-Trichloroethane	A	25.000	27.670	0.6397625	0.70811		10.7	20
1,1,2-Trichloroethane	A	25.000	26.240	0.1533095	0.1609123		5.0	20
Trichloroethene	A	25.000	27.450	0.3255704	0.3574979		9.8	20
Trichlorofluoromethane	A	25.000	28.770	0.5867905	0.6752755		15.1	20
1,2,3-Trichloropropane	L	25.000	26.530	0.105337	0.1159764		6.1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	26.740	0.4183029	0.4474696		7.0	20
1,2,4-Trimethylbenzene	A	25.000	25.940	3.597754	3.732911		3.8	20
1,3,5-Trimethylbenzene	A	25.000	24.870	3.970515	3.949822		-0.5	20
Vinyl chloride	A	25.000	28.500	0.5958562	0.6792619		14.0	20
Total Xylenes	A	75.000	78.940	1.988127	2.092567		5.3	20
Hexachloroethane	A	25.000	17.450	0.7041294	0.4915632		-30.2	20 *
p- & m-Xylenes	A	50.000	52.610	2.011739	2.116665		5.2	20
o-Xylene	A	25.000	26.330	1.940902	2.044371		5.3	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

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	09FEB03.D	Calibration Date:	01/26/17 17:00
Sequence:	1702156	Injection Date:	02/09/17
Lab Sample ID:	1702156-CCV6	Injection Time:	05:37

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	333.14	0.044841	4.668183E-02		4.1	20	
Acetonitrile	L	160.00	215.99	1.965066E-02	0.0220413		35.0	20	*
Acrylonitrile	A	80.000	78.540	6.371868E-02	6.255687E-02		-1.8	20	
Allyl chloride	A	32.000	28.660	1.114402	0.9981634		-10.4	20	
t-Amyl Methyl ether	A	16.000	15.120	0.7281162	0.6881143		-5.5	20	
Benzyl chloride	A	32.000	30.370	0.8656921	0.8214662		-5.1	20	
t-Butyl alcohol	A	800.00	805.42	1.280474E-02	1.289152E-02		0.7	20	
Carbon disulfide	A	32.000	32.420	1.344744	1.362327		1.3	20	
Chloroprene	A	32.000	31.670	1.000946	0.9907588		-1.0	20	
trans-1,4-Dichloro-2-butene	A	80.000	39.060	0.1551532	7.574548E-02		-51.2	20	*
Diethyl ether	A	25.000	25.930	0.2602638	0.2699681		3.7	20	
Diisopropyl ether	A	16.000	15.750	0.3174881	0.3125173		-1.6	20	
Ethyl methacrylate	A	80.000	77.360	0.1775957	0.1717243		-3.3	20	
Ethyl t-butyl ether	A	16.000	14.890	1.311089	1.220187		-6.9	20	
2-Hexanone	Q	320.00	307.79	0.0923643	8.498327E-02		-3.8	20	
Methacrylonitrile	A	160.00	154.18	6.173201E-02	5.948537E-02		-3.6	20	
Methyl ethyl ketone	A	160.00	152.86	0.0879739	8.404798E-02		-4.5	20	
Methyl iodide	A	32.000	11.970	0.5848188	0.2187304		-62.6	20	*
Methyl isobutyl ketone	A	160.00	148.88	0.1389299	0.1292719		-7.0	20	
Methyl methacrylate	A	80.000	76.700	8.339718E-02	0.0799549		-4.1	20	
Pentachloroethane	A	16.000	16.770	0.5366092	0.5625019		4.8	20	
Propionitrile	A	400.00	402.60	2.300947E-02	2.315892E-02		0.6	20	
Tetrahydrofuran	A	320.00	301.97	5.139228E-02	4.849724E-02		-5.6	20	

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1702011
Lab File ID:	09FEB03.D	Calibration Date:	01/26/17 17:00
Sequence:	1702156	Injection Date:	02/09/17
Lab Sample ID:	1702156-CCV6	Injection Time:	05:37

	(1) CAL	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Vinyl acetate	A	160.00	150.11	0.6344058	0.5951861		-6.2	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
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

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
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:	17-03077
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
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Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
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

	(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
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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:	17-03077
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:	17-03077
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:	17-03077
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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
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

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
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	

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
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 (#)
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:	17-03077
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
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:	17-03077
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
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:	1702254	Injection Date:	02/10/17
Lab Sample ID:	1702254-CCV5	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:	17-03077
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:	1702254	Injection Date:	02/10/17
Lab Sample ID:	1702254-CCV5	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

AMEC Environmental & Infrastructure
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Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
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:	1702254	Injection Date:	02/10/17
Lab Sample ID:	1702254-CCV5	Injection Time:	06:27

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
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:	1702254	Injection Date:	02/10/17
Lab Sample ID:	1702254-CCV6	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 *
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
Diisopropyl ether	A	16.000	16.780	0.3174881	0.3329841		4.9	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
Methyl ethyl ketone	A	160.00	171.15	0.0879739	9.410188E-02		7.0	20
Methyl isobutyl ketone	A	160.00	156.95	0.1389299	0.136279		-1.9	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

AMEC Environmental & Infrastructure
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San Diego, CA 92123

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
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

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
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:	17-03077
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
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	

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
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

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(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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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
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:	17-03077
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

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
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

	(1)CAL	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	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 *

AMEC Environmental & Infrastructure
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Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
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

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
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	

AMEC Environmental & Infrastructure
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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
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
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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
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 *

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
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 (#)
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

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

SURROGATE STANDARD RECOVERY AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Sequence: 1702048
Matrix: Water

SDG: 17-03077
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
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:19:09PM
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: 1702156
Matrix: Water

SDG: 17-03077
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 (1702156-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 (1702156-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 (1702156-CCV1)			Lab File ID: 08FEB02.D		Analyzed: 02/08/17 05:47			
1,2-Dichloroethane-d4 (Surrogate)	10.000	112	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.5	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	
Calibration Blank (1702156-CCB1)			Lab File ID: 08FEB05.D		Analyzed: 02/08/17 06:58			
1,2-Dichloroethane-d4 (Surrogate)	10.000	108	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	96.6	85 - 114	10.35	10.355	-0.0050	+/-1.0	
Blank (B[B0573-BLK1)			Lab File ID: 08FEB06.D		Analyzed: 02/08/17 07:21			
1,2-Dichloroethane-d4 (Surrogate)	10.000	108	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	94.9	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	
LCS (B[B0573-BS1)			Lab File ID: 08FEB12.D		Analyzed: 02/08/17 09:52			
1,2-Dichloroethane-d4 (Surrogate)	10.000	104	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.7	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	
Matrix Spike (B[B0573-MS1)			Lab File ID: 08FEB13.D		Analyzed: 02/08/17 10:16			
1,2-Dichloroethane-d4 (Surrogate)	10.000	105	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	104	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	

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Sequence: 1702156
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[B0573-MSD1)			Lab File ID: 08FEB14.D		Analyzed: 02/08/17 10:39			
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	106	85 - 114	10.35	10.355	-0.0050	+/-1.0	
Blank (B[B0714-BLK1)			Lab File ID: 08FEB16.D		Analyzed: 02/08/17 11:25			
1,2-Dichloroethane-d4 (Surrogate)	10.000	104	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.6	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	94.1	85 - 114	10.35	10.355	-0.0050	+/-1.0	
LCS (B[B0714-BS1)			Lab File ID: 08FEB27.D		Analyzed: 02/08/17 15:40			
1,2-Dichloroethane-d4 (Surrogate)	10.000	97.9	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.0	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	
Matrix Spike (B[B0714-MS1)			Lab File ID: 08FEB28.D		Analyzed: 02/08/17 16:03			
1,2-Dichloroethane-d4 (Surrogate)	10.000	93.8	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	96.7	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	99.5	85 - 114	10.35	10.355	-0.0050	+/-1.0	
Matrix Spike Dup (B[B0714-MSD1)			Lab File ID: 08FEB29.D		Analyzed: 02/08/17 16:26			
1,2-Dichloroethane-d4 (Surrogate)	10.000	93.4	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	95.1	85 - 114	10.35	10.355	-0.0050	+/-1.0	
Calibration Check (1702156-CCV3)			Lab File ID: 08FEB32.D		Analyzed: 02/08/17 17:36			
1,2-Dichloroethane-d4 (Surrogate)	10.000	95.7	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	95.8	85 - 114	10.35	10.355	-0.0050	+/-1.0	
Calibration Blank (1702156-CCB2)			Lab File ID: 08FEB34.D		Analyzed: 02/08/17 18:22			
1,2-Dichloroethane-d4 (Surrogate)	10.000	103	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.0	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	93.3	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Sequence: 1702156
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
TB10_170202 (1703077-24)			Lab File ID: 08FEB53.D		Analyzed: 02/09/17 01:45			
1,2-Dichloroethane-d4 (Surrogate)	10.000	96.5	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.5	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	
EB17_170202 (1703077-25)			Lab File ID: 08FEB54.D		Analyzed: 02/09/17 02:08			
1,2-Dichloroethane-d4 (Surrogate)	10.000	104	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.3	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	
EB18_170202 (1703077-26)			Lab File ID: 08FEB55.D		Analyzed: 02/09/17 02:31			
1,2-Dichloroethane-d4 (Surrogate)	10.000	109	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	100	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	
EB19_170202 (1703077-27)			Lab File ID: 08FEB56.D		Analyzed: 02/09/17 02:55			
1,2-Dichloroethane-d4 (Surrogate)	10.000	105	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	95.0	85 - 114	10.35	10.355	-0.0050	+/-1.0	
M04-07_170202 (1703077-28)			Lab File ID: 08FEB57.D		Analyzed: 02/09/17 03:18			
1,2-Dichloroethane-d4 (Surrogate)	10.000	112	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.6	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	96.5	85 - 114	10.35	10.355	-0.0050	+/-1.0	
MW4-2-12_170202 (1703077-29)			Lab File ID: 08FEB58.D		Analyzed: 02/09/17 03:41			
1,2-Dichloroethane-d4 (Surrogate)	10.000	115	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	100	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	
Calibration Check (1702156-CCV5)			Lab File ID: 09FEB02.D		Analyzed: 02/09/17 05:14			
1,2-Dichloroethane-d4 (Surrogate)	10.000	99.1	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	99.4	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
Client:	AMEC Environmental & Infrastructure $AMCN	Project:	Alameda
Sequence:	1702156	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 Blank (1702156-CCB3)			Lab File ID: 09FEB04.D		Analyzed: 02/09/17 06:12			
1,2-Dichloroethane-d4 (Surrogate)	10.000	106	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.5	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	92.1	85 - 114	10.35	10.355	-0.0050	+/-1.0	

AMEC Environmental & Infrastructure
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San Diego, CA 92123

Reported: 3/7/2017 3:19:09PM
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: 1702254
Matrix: Water

SDG: 17-03077
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[B0764-BLK1)			Lab File ID: 09FEB09.D		Analyzed: 02/09/17 08:16			
1,2-Dichloroethane-d4 (Surrogate)	10.000	106	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	102	85 - 114	10.36	10.355	0.0050	+/-1.0	
MW4-2-19_170202 (1703077-06)			Lab File ID: 09FEB10.D		Analyzed: 02/09/17 08:48			
1,2-Dichloroethane-d4 (Surrogate)	10.000	105	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	95.9	85 - 114	10.36	10.355	0.0050	+/-1.0	
LCS (B[B0764-BS1)			Lab File ID: 09FEB11.D		Analyzed: 02/09/17 09:11			
1,2-Dichloroethane-d4 (Surrogate)	10.000	96.8	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	95.0	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	

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
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 (B[B0764-MS1)			Lab File ID: 09FEB12.D		Analyzed: 02/09/17 09:34			
1,2-Dichloroethane-d4 (Surrogate)	10.000	101	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	95.0	85 - 114	10.35	10.355	-0.0050	+/-1.0	
Matrix Spike Dup (B[B0764-MSD1)			Lab File ID: 09FEB13.D		Analyzed: 02/09/17 09:57			
1,2-Dichloroethane-d4 (Surrogate)	10.000	106	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.2	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	
DUP20_170202 (1703077-01)			Lab File ID: 09FEB16.D		Analyzed: 02/09/17 11:07			
1,2-Dichloroethane-d4 (Surrogate)	10.000	118	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.0	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	
M04-06_170202 (1703077-02)			Lab File ID: 09FEB17.D		Analyzed: 02/09/17 11:30			
1,2-Dichloroethane-d4 (Surrogate)	10.000	105	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	102	85 - 114	10.35	10.355	-0.0050	+/-1.0	
MW-360-2_170202 (1703077-03)			Lab File ID: 09FEB18.D		Analyzed: 02/09/17 11:53			
1,2-Dichloroethane-d4 (Surrogate)	10.000	104	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	101	85 - 114	10.35	10.355	-0.0050	+/-1.0	
MW4-2-10_170202 (1703077-04)			Lab File ID: 09FEB19.D		Analyzed: 02/09/17 12:17			
1,2-Dichloroethane-d4 (Surrogate)	10.000	104	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.0	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	
MW4-2-16_170202 (1703077-05)			Lab File ID: 09FEB20.D		Analyzed: 02/09/17 12:40			
1,2-Dichloroethane-d4 (Surrogate)	10.000	110	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	95.2	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	99.7	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
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
MW4-2-4_170202 (1703077-07)			Lab File ID: 09FEB22.D		Analyzed: 02/09/17 13:26			
1,2-Dichloroethane-d4 (Surrogate)	10.000	107	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	99.4	85 - 114	10.35	10.355	-0.0050	+/-1.0	
MW4-2-6_170202 (1703077-08)			Lab File ID: 09FEB23.D		Analyzed: 02/09/17 13:50			
1,2-Dichloroethane-d4 (Surrogate)	10.000	106	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.5	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	95.8	85 - 114	10.35	10.355	-0.0050	+/-1.0	
MW97-3_170202 (1703077-09)			Lab File ID: 09FEB24.D		Analyzed: 02/09/17 14:13			
1,2-Dichloroethane-d4 (Surrogate)	10.000	103	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	99.9	85 - 114	10.35	10.355	-0.0050	+/-1.0	
S3-TT-MW01_170202 (1703077-10)			Lab File ID: 09FEB25.D		Analyzed: 02/09/17 14:36			
1,2-Dichloroethane-d4 (Surrogate)	10.000	105	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	
S4-TT-MW03D_170202 (1703077-11)			Lab File ID: 09FEB26.D		Analyzed: 02/09/17 14:59			
1,2-Dichloroethane-d4 (Surrogate)	10.000	108	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	95.6	85 - 114	10.35	10.355	-0.0050	+/-1.0	
S4-TT-MW03E_170202 (1703077-12)			Lab File ID: 09FEB27.D		Analyzed: 02/09/17 15:22			
1,2-Dichloroethane-d4 (Surrogate)	10.000	116	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.4	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	93.8	85 - 114	10.35	10.355	-0.0050	+/-1.0	
372-MW-03_170202 (1703077-13)			Lab File ID: 09FEB28.D		Analyzed: 02/09/17 15:45			
1,2-Dichloroethane-d4 (Surrogate)	10.000	110	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.0	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	98.0	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
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
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	
TB09_170202 (1703077-23)			Lab File ID: 09FEB39.D		Analyzed: 02/09/17 20:00			
1,2-Dichloroethane-d4 (Surrogate)	10.000	103	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	104	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	94.1	85 - 114	10.35	10.355	-0.0050	+/-1.0	
D03-04_170202 (1703077-14)			Lab File ID: 09FEB43.D		Analyzed: 02/09/17 21:33			
1,2-Dichloroethane-d4 (Surrogate)	10.000	107	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.2	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	98.4	85 - 114	10.35	10.355	-0.0050	+/-1.0	
DUP14_170202 (1703077-15)			Lab File ID: 09FEB44.D		Analyzed: 02/09/17 21:56			
1,2-Dichloroethane-d4 (Surrogate)	10.000	105	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	99.1	85 - 114	10.35	10.355	-0.0050	+/-1.0	
DUP17_170202 (1703077-16)			Lab File ID: 09FEB45.D		Analyzed: 02/09/17 22:19			
1,2-Dichloroethane-d4 (Surrogate)	10.000	108	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	100	85 - 114	10.35	10.355	-0.0050	+/-1.0	
DUP19_170202 (1703077-17)			Lab File ID: 09FEB46.D		Analyzed: 02/09/17 22:43			
1,2-Dichloroethane-d4 (Surrogate)	10.000	108	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	93.9	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
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
MW4-2-11_170202 (1703077-18)			Lab File ID: 09FEB47.D		Analyzed: 02/09/17 23:06			
1,2-Dichloroethane-d4 (Surrogate)	10.000	114	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	97.8	85 - 114	10.35	10.355	-0.0050	+/-1.0	
MW4-2-14_170202 (1703077-19)			Lab File ID: 09FEB48.D		Analyzed: 02/09/17 23:29			
1,2-Dichloroethane-d4 (Surrogate)	10.000	108	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	103	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	
S4-TT-MW03A_170202 (1703077-20)			Lab File ID: 09FEB49.D		Analyzed: 02/09/17 23:52			
1,2-Dichloroethane-d4 (Surrogate)	10.000	108	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.7	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	93.8	85 - 114	10.35	10.355	-0.0050	+/-1.0	
S4-TT-MW03B_170202 (1703077-21RE1)			Lab File ID: 09FEB56.D		Analyzed: 02/10/17 02:34			
1,2-Dichloroethane-d4 (Surrogate)	10.000	103	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	100	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	
S4-TT-MW03C_170202 (1703077-22RE1)			Lab File ID: 09FEB57.D		Analyzed: 02/10/17 02:57			
1,2-Dichloroethane-d4 (Surrogate)	10.000	101	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.2	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	94.7	85 - 114	10.35	10.355	-0.0050	+/-1.0	
MW4-2-10_170202 (1703077-04RE1)			Lab File ID: 09FEB58.D		Analyzed: 02/10/17 03:21			
1,2-Dichloroethane-d4 (Surrogate)	10.000	103	81 - 118	6.92	6.921667	-0.0017	+/-1.0	
Toluene-d8 (Surrogate)	10.000	96.8	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	97.5	85 - 114	10.35	10.355	-0.0050	+/-1.0	
MW4-2-16_170202 (1703077-05RE1)			Lab File ID: 09FEB59.D		Analyzed: 02/10/17 03:44			
1,2-Dichloroethane-d4 (Surrogate)	10.000	108	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	97.6	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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
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
MW4-2-4_170202 (1703077-07RE1)			Lab File ID: 09FEB60.D		Analyzed: 02/10/17 04:07			
1,2-Dichloroethane-d4 (Surrogate)	10.000	107	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.7	89 - 112	8.61	8.61	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	93.4	85 - 114	10.35	10.355	-0.0050	+/-1.0	
Calibration Check (1702254-CCV5)			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 (1702254-CCB3)			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	

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

Reported: 3/7/2017 3:19:09PM
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: 1702340
Matrix: Water

SDG: 17-03077
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	
S4-TT-MW03B_170202 (1703077-21)			Lab File ID: 10FEB05.D		Analyzed: 02/10/17 07:37			
1,2-Dichloroethane-d4 (Surrogate)	10.000	106	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.5	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	
S4-TT-MW03C_170202 (1703077-22)			Lab File ID: 10FEB06.D		Analyzed: 02/10/17 08:00			
1,2-Dichloroethane-d4 (Surrogate)	10.000	110	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	97.3	85 - 114	10.35	10.355	-0.0050	+/-1.0	
DUP19_170202 (1703077-17RE1)			Lab File ID: 10FEB12.D		Analyzed: 02/10/17 10:20			
1,2-Dichloroethane-d4 (Surrogate)	10.000	104	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.7	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

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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:	17-03077
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
S4-TT-MW03A_170202 (1703077-20RE1)			Lab File ID: 10FEB13.D		Analyzed: 02/10/17 10:43			
1,2-Dichloroethane-d4 (Surrogate)	10.000	106	81 - 118	6.93	6.921667	0.0083	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.7	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	
S4-TT-MW03A_170202 (1703077-20RE2)			Lab File ID: 10FEB29.D		Analyzed: 02/10/17 17:12			
1,2-Dichloroethane-d4 (Surrogate)	10.000	98.2	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	96.8	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	

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
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

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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:	17-03077
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

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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: 1702156
Matrix: Water

SDG: 17-03077
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 (1702156-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 (1702156-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 (1702156-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 (1702156-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 (1702156-CCV1)			Lab File ID: 08FEB02.D			Analyzed: 02/08/17 05:47			
Pentafluorobenzene (IS)	187488	6.59	210237	6.59	89	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	69268	9.62	76990	9.62	90	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	271294	7.39	296345	7.39	92	50 - 200	0.0000	+/-0.50	
Calibration Check (1702156-CCV2)			Lab File ID: 08FEB03.D			Analyzed: 02/08/17 06:11			
Pentafluorobenzene (IS)	190650	6.58	210237	6.59	91	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	66125	9.63	76990	9.62	86	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	266176	7.39	296345	7.39	90	50 - 200	0.0000	+/-0.50	
Calibration Blank (1702156-CCB1)			Lab File ID: 08FEB05.D			Analyzed: 02/08/17 06:58			
Pentafluorobenzene (IS)	187281	6.58	190650	6.58	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	65302	9.62	66125	9.63	99	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	254348	7.39	266176	7.39	96	50 - 200	0.0000	+/-0.50	

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Sequence: 1702156
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[B0573-BLK1)			Lab File ID: 08FEB06.D			Analyzed: 02/08/17 07:21			
Pentafluorobenzene (IS)	193258	6.59	190650	6.58	101	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	64268	9.62	66125	9.63	97	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	265090	7.39	266176	7.39	100	50 - 200	0.0000	+/-0.50	
LCS (B[B0573-BS1)			Lab File ID: 08FEB12.D			Analyzed: 02/08/17 09:52			
Pentafluorobenzene (IS)	184484	6.59	190650	6.58	97	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	62120	9.62	66125	9.63	94	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	262116	7.39	266176	7.39	98	50 - 200	0.0000	+/-0.50	
Matrix Spike (B[B0573-MS1)			Lab File ID: 08FEB13.D			Analyzed: 02/08/17 10:16			
Pentafluorobenzene (IS)	182881	6.58	190650	6.58	96	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	66129	9.62	66125	9.63	100	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	251715	7.39	266176	7.39	95	50 - 200	0.0000	+/-0.50	
Matrix Spike Dup (B[B0573-MSD1)			Lab File ID: 08FEB14.D			Analyzed: 02/08/17 10:39			
Pentafluorobenzene (IS)	170329	6.59	190650	6.58	89	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	58896	9.62	66125	9.63	89	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	244670	7.39	266176	7.39	92	50 - 200	0.0000	+/-0.50	
Blank (B[B0714-BLK1)			Lab File ID: 08FEB16.D			Analyzed: 02/08/17 11:25			
Pentafluorobenzene (IS)	197055	6.58	190650	6.58	103	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	67275	9.63	66125	9.63	102	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	268062	7.39	266176	7.39	101	50 - 200	0.0000	+/-0.50	
LCS (B[B0714-BS1)			Lab File ID: 08FEB27.D			Analyzed: 02/08/17 15:40			
Pentafluorobenzene (IS)	194083	6.59	190650	6.58	102	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	66248	9.62	66125	9.63	100	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	275638	7.39	266176	7.39	104	50 - 200	0.0000	+/-0.50	
Matrix Spike (B[B0714-MS1)			Lab File ID: 08FEB28.D			Analyzed: 02/08/17 16:03			
Pentafluorobenzene (IS)	196825	6.58	190650	6.58	103	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	67427	9.62	66125	9.63	102	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	270231	7.39	266176	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
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Project Manager: Kelli Miller

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Sequence: 1702156
Instrument: MS-V5
Matrix: Water
Calibration: 1702011

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike Dup (B[B0714-MSD1)			Lab File ID: 08FEB29.D			Analyzed: 02/08/17 16:26			
Pentafluorobenzene (IS)	204071	6.59	190650	6.58	107	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	71370	9.62	66125	9.63	108	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	280015	7.39	266176	7.39	105	50 - 200	0.0000	+/-0.50	
Calibration Check (1702156-CCV3)			Lab File ID: 08FEB32.D			Analyzed: 02/08/17 17:36			
Pentafluorobenzene (IS)	198948	6.58	210237	6.59	95	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	71496	9.62	76990	9.62	93	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	279490	7.39	296345	7.39	94	50 - 200	0.0000	+/-0.50	
Calibration Check (1702156-CCV4)			Lab File ID: 08FEB33.D			Analyzed: 02/08/17 17:59			
Pentafluorobenzene (IS)	176929	6.58	210237	6.59	84	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	60035	9.62	76990	9.62	78	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	251715	7.39	296345	7.39	85	50 - 200	0.0000	+/-0.50	
Calibration Blank (1702156-CCB2)			Lab File ID: 08FEB34.D			Analyzed: 02/08/17 18:22			
Pentafluorobenzene (IS)	211141	6.58	176929	6.58	119	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	72302	9.62	60035	9.62	120	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	287228	7.39	251715	7.39	114	50 - 200	0.0000	+/-0.50	
TB10_170202 (1703077-24)			Lab File ID: 08FEB53.D			Analyzed: 02/09/17 01:45			
Pentafluorobenzene (IS)	199906	6.59	176929	6.58	113	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	64646	9.63	60035	9.62	108	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	274192	7.39	251715	7.39	109	50 - 200	0.0000	+/-0.50	
EB17_170202 (1703077-25)			Lab File ID: 08FEB54.D			Analyzed: 02/09/17 02:08			
Pentafluorobenzene (IS)	201272	6.58	176929	6.58	114	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	68262	9.62	60035	9.62	114	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	269796	7.39	251715	7.39	107	50 - 200	0.0000	+/-0.50	
EB18_170202 (1703077-26)			Lab File ID: 08FEB55.D			Analyzed: 02/09/17 02:31			
Pentafluorobenzene (IS)	197311	6.58	176929	6.58	112	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	66341	9.62	60035	9.62	111	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	261811	7.39	251715	7.39	104	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: 17-03077
Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
Sequence: 1702156
Instrument: MS-V5
Matrix: Water
Calibration: 1702011

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
EB19_170202 (1703077-27)			Lab File ID: 08FEB56.D			Analyzed: 02/09/17 02:55			
Pentafluorobenzene (IS)	198175	6.58	176929	6.58	112	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	65152	9.63	60035	9.62	109	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	272191	7.39	251715	7.39	108	50 - 200	0.0000	+/-0.50	
M04-07_170202 (1703077-28)			Lab File ID: 08FEB57.D			Analyzed: 02/09/17 03:18			
Pentafluorobenzene (IS)	187988	6.58	176929	6.58	106	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	65560	9.62	60035	9.62	109	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	264420	7.39	251715	7.39	105	50 - 200	0.0000	+/-0.50	
MW4-2-12_170202 (1703077-29)			Lab File ID: 08FEB58.D			Analyzed: 02/09/17 03:41			
Pentafluorobenzene (IS)	186594	6.58	176929	6.58	105	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	61937	9.62	60035	9.62	103	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	256702	7.39	251715	7.39	102	50 - 200	0.0000	+/-0.50	
Calibration Check (1702156-CCV5)			Lab File ID: 09FEB02.D			Analyzed: 02/09/17 05:14			
Pentafluorobenzene (IS)	188643	6.59	210237	6.59	90	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	65096	9.62	76990	9.62	85	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	258434	7.39	296345	7.39	87	50 - 200	0.0000	+/-0.50	
Calibration Check (1702156-CCV6)			Lab File ID: 09FEB03.D			Analyzed: 02/09/17 05:37			
Pentafluorobenzene (IS)	198905	6.58	210237	6.59	95	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	66702	9.62	76990	9.62	87	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	271267	7.39	296345	7.39	92	50 - 200	0.0000	+/-0.50	
Calibration Blank (1702156-CCB3)			Lab File ID: 09FEB04.D			Analyzed: 02/09/17 06:12			
Pentafluorobenzene (IS)	194916	6.59	198905	6.58	98	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	66253	9.63	66702	9.62	99	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	261420	7.39	271267	7.39	96	50 - 200	0.0000	+/-0.50	

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

Reported: 3/7/2017 3:19:09PM
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: 17-03077
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
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[B0764-BLK1)			Lab File ID: 09FEB09.D			Analyzed: 02/09/17 08:16			
Pentafluorobenzene (IS)	202784	6.59	199913	6.58	101	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	66464	9.63	70233	9.62	95	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	270852	7.39	264847	7.39	102	50 - 200	0.0000	+/-0.50	
MW4-2-19_170202 (1703077-06)			Lab File ID: 09FEB10.D			Analyzed: 02/09/17 08:48			
Pentafluorobenzene (IS)	186928	6.58	199913	6.58	94	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	64664	9.62	70233	9.62	92	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	252998	7.39	264847	7.39	96	50 - 200	0.0000	+/-0.50	
LCS (B[B0764-BS1)			Lab File ID: 09FEB11.D			Analyzed: 02/09/17 09:11			
Pentafluorobenzene (IS)	189021	6.59	199913	6.58	95	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	68586	9.62	70233	9.62	98	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	267475	7.39	264847	7.39	101	50 - 200	0.0000	+/-0.50	
Matrix Spike (B[B0764-MS1)			Lab File ID: 09FEB12.D			Analyzed: 02/09/17 09:34			
Pentafluorobenzene (IS)	193221	6.58	199913	6.58	97	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	70688	9.62	70233	9.62	101	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	267637	7.39	264847	7.39	101	50 - 200	0.0000	+/-0.50	
Matrix Spike Dup (B[B0764-MSD1)			Lab File ID: 09FEB13.D			Analyzed: 02/09/17 09:57			
Pentafluorobenzene (IS)	188560	6.58	199913	6.58	94	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	69229	9.62	70233	9.62	99	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	276596	7.39	264847	7.39	104	50 - 200	0.0000	+/-0.50	
DUP20_170202 (1703077-01)			Lab File ID: 09FEB16.D			Analyzed: 02/09/17 11:07			
Pentafluorobenzene (IS)	204567	6.59	199913	6.58	102	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	71930	9.62	70233	9.62	102	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	286432	7.39	264847	7.39	108	50 - 200	0.0000	+/-0.50	
M04-06_170202 (1703077-02)			Lab File ID: 09FEB17.D			Analyzed: 02/09/17 11:30			
Pentafluorobenzene (IS)	181814	6.58	199913	6.58	91	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	58145	9.62	70233	9.62	83	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	250556	7.39	264847	7.39	95	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: 17-03077
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
MW-360-2_170202 (1703077-03)			Lab File ID: 09FEB18.D			Analyzed: 02/09/17 11:53			
Pentafluorobenzene (IS)	206018	6.59	199913	6.58	103	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	66433	9.62	70233	9.62	95	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	275427	7.39	264847	7.39	104	50 - 200	0.0000	+/-0.50	
MW4-2-10_170202 (1703077-04)			Lab File ID: 09FEB19.D			Analyzed: 02/09/17 12:17			
Pentafluorobenzene (IS)	194036	6.58	199913	6.58	97	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	63938	9.63	70233	9.62	91	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	272597	7.39	264847	7.39	103	50 - 200	0.0000	+/-0.50	
MW4-2-16_170202 (1703077-05)			Lab File ID: 09FEB20.D			Analyzed: 02/09/17 12:40			
Pentafluorobenzene (IS)	191827	6.58	199913	6.58	96	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	65617	9.62	70233	9.62	93	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	273981	7.39	264847	7.39	103	50 - 200	0.0000	+/-0.50	
MW4-2-4_170202 (1703077-07)			Lab File ID: 09FEB22.D			Analyzed: 02/09/17 13:26			
Pentafluorobenzene (IS)	203266	6.58	199913	6.58	102	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	67231	9.62	70233	9.62	96	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	273668	7.39	264847	7.39	103	50 - 200	0.0000	+/-0.50	
MW4-2-6_170202 (1703077-08)			Lab File ID: 09FEB23.D			Analyzed: 02/09/17 13:50			
Pentafluorobenzene (IS)	204193	6.58	199913	6.58	102	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	67493	9.62	70233	9.62	96	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	277366	7.39	264847	7.39	105	50 - 200	0.0000	+/-0.50	
MW97-3_170202 (1703077-09)			Lab File ID: 09FEB24.D			Analyzed: 02/09/17 14:13			
Pentafluorobenzene (IS)	199086	6.58	199913	6.58	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	64605	9.62	70233	9.62	92	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	263783	7.39	264847	7.39	100	50 - 200	0.0000	+/-0.50	
S3-TT-MW01_170202 (1703077-10)			Lab File ID: 09FEB25.D			Analyzed: 02/09/17 14:36			
Pentafluorobenzene (IS)	199378	6.58	199913	6.58	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	69176	9.62	70233	9.62	98	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	268751	7.39	264847	7.39	101	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: 17-03077
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
S4-TT-MW03D_170202 (1703077-11)			Lab File ID: 09FEB26.D			Analyzed: 02/09/17 14:59			
Pentafluorobenzene (IS)	203460	6.58	199913	6.58	102	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	68508	9.62	70233	9.62	98	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	278648	7.39	264847	7.39	105	50 - 200	0.0000	+/-0.50	
S4-TT-MW03E_170202 (1703077-12)			Lab File ID: 09FEB27.D			Analyzed: 02/09/17 15:22			
Pentafluorobenzene (IS)	200742	6.58	199913	6.58	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	71256	9.62	70233	9.62	101	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	267731	7.39	264847	7.39	101	50 - 200	0.0000	+/-0.50	
372-MW-03_170202 (1703077-13)			Lab File ID: 09FEB28.D			Analyzed: 02/09/17 15:45			
Pentafluorobenzene (IS)	193462	6.58	199913	6.58	97	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	64615	9.62	70233	9.62	92	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	272458	7.39	264847	7.39	103	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	
TB09_170202 (1703077-23)			Lab File ID: 09FEB39.D			Analyzed: 02/09/17 20:00			
Pentafluorobenzene (IS)	200795	6.58	202038	6.58	99	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	71228	9.62	73786	9.62	97	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	277227	7.39	288051	7.39	96	50 - 200	0.0000	+/-0.50	

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

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INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
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
D03-04_170202 (1703077-14)			Lab File ID: 09FEB43.D			Analyzed: 02/09/17 21:33			
Pentafluorobenzene (IS)	204093	6.59	202038	6.58	101	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	72744	9.62	73786	9.62	99	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	282319	7.39	288051	7.39	98	50 - 200	0.0000	+/-0.50	
DUP14_170202 (1703077-15)			Lab File ID: 09FEB44.D			Analyzed: 02/09/17 21:56			
Pentafluorobenzene (IS)	204605	6.58	202038	6.58	101	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	72163	9.62	73786	9.62	98	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	283341	7.39	288051	7.39	98	50 - 200	0.0000	+/-0.50	
DUP17_170202 (1703077-16)			Lab File ID: 09FEB45.D			Analyzed: 02/09/17 22:19			
Pentafluorobenzene (IS)	193638	6.58	202038	6.58	96	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	67929	9.62	73786	9.62	92	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	266201	7.39	288051	7.39	92	50 - 200	0.0000	+/-0.50	
DUP19_170202 (1703077-17)			Lab File ID: 09FEB46.D			Analyzed: 02/09/17 22:43			
Pentafluorobenzene (IS)	191130	6.58	202038	6.58	95	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	68591	9.62	73786	9.62	93	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	266268	7.39	288051	7.39	92	50 - 200	0.0000	+/-0.50	
MW4-2-11_170202 (1703077-18)			Lab File ID: 09FEB47.D			Analyzed: 02/09/17 23:06			
Pentafluorobenzene (IS)	188899	6.58	202038	6.58	93	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	67641	9.62	73786	9.62	92	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	258797	7.39	288051	7.39	90	50 - 200	0.0000	+/-0.50	
MW4-2-14_170202 (1703077-19)			Lab File ID: 09FEB48.D			Analyzed: 02/09/17 23:29			
Pentafluorobenzene (IS)	189577	6.59	202038	6.58	94	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	66084	9.62	73786	9.62	90	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	260408	7.39	288051	7.39	90	50 - 200	0.0000	+/-0.50	
S4-TT-MW03A_170202 (1703077-20)			Lab File ID: 09FEB49.D			Analyzed: 02/09/17 23:52			
Pentafluorobenzene (IS)	192116	6.58	202038	6.58	95	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	69700	9.62	73786	9.62	94	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	267410	7.39	288051	7.39	93	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: 17-03077
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
S4-TT-MW03B_170202 (1703077-21RE1)			Lab File ID: 09FEB56.D			Analyzed: 02/10/17 02:34			
Pentafluorobenzene (IS)	196965	6.59	202038	6.58	97	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	66187	9.62	73786	9.62	90	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	269727	7.39	288051	7.39	94	50 - 200	0.0000	+/-0.50	
S4-TT-MW03C_170202 (1703077-22RE1)			Lab File ID: 09FEB57.D			Analyzed: 02/10/17 02:57			
Pentafluorobenzene (IS)	200991	6.58	202038	6.58	99	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	65823	9.62	73786	9.62	89	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	273481	7.39	288051	7.39	95	50 - 200	0.0000	+/-0.50	
MW4-2-10_170202 (1703077-04RE1)			Lab File ID: 09FEB58.D			Analyzed: 02/10/17 03:21			
Pentafluorobenzene (IS)	199177	6.58	202038	6.58	99	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	64450	9.62	73786	9.62	87	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	271410	7.39	288051	7.39	94	50 - 200	0.0000	+/-0.50	
MW4-2-16_170202 (1703077-05RE1)			Lab File ID: 09FEB59.D			Analyzed: 02/10/17 03:44			
Pentafluorobenzene (IS)	197179	6.58	202038	6.58	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	65545	9.62	73786	9.62	89	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	274909	7.39	288051	7.39	95	50 - 200	0.0000	+/-0.50	
MW4-2-4_170202 (1703077-07RE1)			Lab File ID: 09FEB60.D			Analyzed: 02/10/17 04:07			
Pentafluorobenzene (IS)	193233	6.59	202038	6.58	96	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	66160	9.62	73786	9.62	90	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	265577	7.39	288051	7.39	92	50 - 200	0.0000	+/-0.50	
Calibration Check (1702254-CCV5)			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 (1702254-CCV6)			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	

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

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
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
Calibration Blank (1702254-CCB3)			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
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San Diego, CA 92123

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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: 17-03077
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: 17-03077
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
S4-TT-MW03B_170202 (1703077-21)			Lab File ID: 10FEB05.D			Analyzed: 02/10/17 07:37			
Pentafluorobenzene (IS)	193862	6.58	187920	6.58	103	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	66125	9.62	66125	9.62	100	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	261165	7.39	261715	7.39	100	50 - 200	0.0000	+/-0.50	
S4-TT-MW03C_170202 (1703077-22)			Lab File ID: 10FEB06.D			Analyzed: 02/10/17 08:00			
Pentafluorobenzene (IS)	188421	6.58	187920	6.58	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	66381	9.62	66125	9.62	100	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	258091	7.39	261715	7.39	99	50 - 200	0.0000	+/-0.50	
DUP19_170202 (1703077-17RE1)			Lab File ID: 10FEB12.D			Analyzed: 02/10/17 10:20			
Pentafluorobenzene (IS)	193032	6.58	187920	6.58	103	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	62922	9.62	66125	9.62	95	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	256515	7.39	261715	7.39	98	50 - 200	0.0000	+/-0.50	
S4-TT-MW03A_170202 (1703077-20RE1)			Lab File ID: 10FEB13.D			Analyzed: 02/10/17 10:43			
Pentafluorobenzene (IS)	171272	6.58	187920	6.58	91	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	54839	9.62	66125	9.62	83	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	232510	7.39	261715	7.39	89	50 - 200	0.0000	+/-0.50	
S4-TT-MW03A_170202 (1703077-20RE2)			Lab File ID: 10FEB29.D			Analyzed: 02/10/17 17:12			
Pentafluorobenzene (IS)	216505	6.58	187920	6.58	115	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	68522	9.62	66125	9.62	104	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	285559	7.39	261715	7.39	109	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
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-03077
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	

AMEC Environmental & Infrastructure
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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: 17-03077
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
San Diego, CA 92123

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL CALIBRATION DATA
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
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
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Reported: 3/7/2017 3:19:09PM
Project: Alameda
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Project Manager: Kelli Miller

INITIAL CALIBRATION DATA
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
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 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL CALIBRATION DATA
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
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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San Diego, CA 92123

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INITIAL CALIBRATION DATA
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
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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Client: AMEC Environmental & Infrastructure $AMCN
Project: Alameda
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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

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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
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
SDG: 17-03077
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
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
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San Diego, CA 92123

Reported: 3/7/2017 3:19:09PM
Project: Alameda
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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
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
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
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
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 3:19:09PM
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: 17-03077
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)												

AMEC Environmental & Infrastructure
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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: 17-03077
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												

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EPA-8260B

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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												

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

Reported: 3/7/2017 3:19:09PM
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: 17-03077
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
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
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
9210 Sky Park Court #200
San Diego, CA 92123

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Project Manager: Kelli Miller

INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure $AMCN
Calibration: 1702011
Matrix: Water

SDG: 17-03077
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
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)												

AMEC Environmental & Infrastructure
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San Diego, CA 92123

Reported: 3/7/2017 3:19:09PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kelli Miller

INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
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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Project: Alameda
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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
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	

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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
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	

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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
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: 17-03077
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	

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Project Number: 5023146096
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HOLDING TIME SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-03077
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
DUP20_170202	02/02/17 11:05	02/02/17 21:40	02/09/17 07:00	7.00	14.00	02/09/17 11:07	7.00	14.00	
M04-06_170202	02/02/17 10:12	02/02/17 21:40	02/09/17 07:00	7.00	14.00	02/09/17 11:30	7.00	14.00	
MW-360-2_170202	02/02/17 08:45	02/02/17 21:40	02/09/17 07:00	7.00	14.00	02/09/17 11:53	7.00	14.00	
MW4-2-10_170202	02/02/17 09:35	02/02/17 21:40	02/09/17 07:00	7.00	14.00	02/09/17 12:17	7.00	14.00	
MW4-2-10_170202	02/02/17 09:35	02/02/17 21:40	02/09/17 07:00	8.00	14.00	02/10/17 03:21	8.00	14.00	
MW4-2-16_170202	02/02/17 10:50	02/02/17 21:40	02/09/17 07:00	7.00	14.00	02/09/17 12:40	7.00	14.00	
MW4-2-16_170202	02/02/17 10:50	02/02/17 21:40	02/09/17 07:00	8.00	14.00	02/10/17 03:44	8.00	14.00	
MW4-2-19_170202	02/02/17 10:05	02/02/17 21:40	02/09/17 07:00	7.00	14.00	02/09/17 08:48	7.00	14.00	
MW4-2-4_170202	02/02/17 10:05	02/02/17 21:40	02/09/17 07:00	7.00	14.00	02/09/17 13:26	7.00	14.00	
MW4-2-4_170202	02/02/17 10:05	02/02/17 21:40	02/09/17 07:00	8.00	14.00	02/10/17 04:07	8.00	14.00	
MW4-2-6_170202	02/02/17 09:05	02/02/17 21:40	02/09/17 07:00	7.00	14.00	02/09/17 13:50	7.00	14.00	
MW97-3_170202	02/02/17 08:28	02/02/17 21:40	02/09/17 07:00	7.00	14.00	02/09/17 14:13	7.00	14.00	
S3-TT-MW01_170202	02/02/17 09:17	02/02/17 21:40	02/09/17 07:00	7.00	14.00	02/09/17 14:36	7.00	14.00	
S4-TT-MW03D_170202	02/02/17 11:35	02/02/17 21:40	02/09/17 07:00	7.00	14.00	02/09/17 14:59	7.00	14.00	
S4-TT-MW03E_170202	02/02/17 11:00	02/02/17 21:40	02/09/17 07:00	7.00	14.00	02/09/17 15:22	7.00	14.00	
372-MW-03_170202	02/02/17 12:56	02/02/17 21:40	02/09/17 07:00	7.00	14.00	02/09/17 15:45	7.00	14.00	
D03-04_170202	02/02/17 12:15	02/02/17 21:40	02/09/17 07:00	7.00	14.00	02/09/17 21:33	7.00	14.00	
DUP14_170202	02/02/17 12:20	02/02/17 21:40	02/09/17 07:00	7.00	14.00	02/09/17 21:56	7.00	14.00	
DUP17_170202	02/02/17 11:55	02/02/17 21:40	02/09/17 07:00	7.00	14.00	02/09/17 22:19	7.00	14.00	

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

DUP19_170202	02/02/17 12:10	02/02/17 21:40	02/09/17 07:00	7.00	14.00	02/09/17 22:43	7.00	14.00	
DUP19_170202	02/02/17 12:10	02/02/17 21:40	02/09/17 07:00	8.00	14.00	02/10/17 10:20	8.00	14.00	
MW4-2-11_170202	02/02/17 13:10	02/02/17 21:40	02/09/17 07:00	7.00	14.00	02/09/17 23:06	7.00	14.00	
MW4-2-14_170202	02/02/17 11:50	02/02/17 21:40	02/09/17 07:00	7.00	14.00	02/09/17 23:29	7.00	14.00	
S4-TT-MW03A_170202	02/02/17 13:40	02/02/17 21:40	02/09/17 07:00	7.00	14.00	02/09/17 23:52	7.00	14.00	
S4-TT-MW03A_170202	02/02/17 13:40	02/02/17 21:40	02/09/17 07:00	8.00	14.00	02/10/17 10:43	8.00	14.00	
S4-TT-MW03A_170202	02/02/17 13:40	02/02/17 21:40	02/09/17 07:00	8.00	14.00	02/10/17 17:12	8.00	14.00	
S4-TT-MW03B_170202	02/02/17 13:05	02/02/17 21:40	02/08/17 07:00	8.00	14.00	02/10/17 07:37	8.00	14.00	
S4-TT-MW03B_170202	02/02/17 13:05	02/02/17 21:40	02/08/17 07:00	8.00	14.00	02/10/17 02:34	8.00	14.00	
S4-TT-MW03C_170202	02/02/17 12:05	02/02/17 21:40	02/08/17 07:00	8.00	14.00	02/10/17 08:00	8.00	14.00	
S4-TT-MW03C_170202	02/02/17 12:05	02/02/17 21:40	02/08/17 07:00	8.00	14.00	02/10/17 02:57	8.00	14.00	
TB09_170202	02/02/17 12:00	02/02/17 21:40	02/08/17 07:00	7.00	14.00	02/09/17 20:00	7.00	14.00	
TB10_170202	02/02/17 12:15	02/02/17 21:40	02/08/17 07:00	7.00	14.00	02/09/17 01:45	7.00	14.00	
EB17_170202	02/02/17 14:00	02/02/17 21:40	02/08/17 07:00	7.00	14.00	02/09/17 02:08	7.00	14.00	
EB18_170202	02/02/17 14:15	02/02/17 21:40	02/08/17 07:00	7.00	14.00	02/09/17 02:31	7.00	14.00	
EB19_170202	02/02/17 14:30	02/02/17 21:40	02/08/17 07:00	7.00	14.00	02/09/17 02:55	7.00	14.00	
M04-07_170202	02/02/17 13:46	02/02/17 21:40	02/08/17 07:15	7.00	14.00	02/09/17 03:18	7.00	14.00	
MW4-2-12_170202	02/02/17 13:55	02/02/17 21:40	02/08/17 07:15	7.00	14.00	02/09/17 03:41	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.

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

Reported: 3/7/2017 3:19:09PM
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.