



DEPARTMENT OF THE NAVY
 COMMANDER
 NAVY REGION HAWAII
 850 TICONDEROGA ST STE 110
 JBPHH, HAWAII 96860-5101

JUL 24 2018 MA

5090
 Ser N45/ 0555
 July 19, 2018

CERTIFIED NO: 7016 0910 0001 0891 8991

Ms. Joanna Seto, Chief
 Hawaii State Department of Health
 Environmental Management Division
 Safe Drinking Water Branch
 2385 Waimano Home Road
 Uluakupu Building 4
 Pearl City, HI 96782

Dear Ms. Seto:

SUBJECT: DRINKING WATER MONITORING RESULTS FOR RED HILL, JOINT BASE PEARL HARBOR-HICKAM WATER SYSTEM (PWS NO. 360)

Results for drinking water samples taken at the Red Hill Shaft as required by the Transition Plan for Tank 5 Red Hill Release are enclosed. A summary of the laboratory results that are enclosed is provided in the table below.

Lab Report Number	Sample Location(s)	Sample Date	Laboratory Methods
411627	360-011, TAP OUTSIDE CL2 BLDG	3/20/18	200.8, 524.2, 525.2
411628CN	360-011, TAP OUTSIDE CL2 BLDG	3/20/18	8015B
420117	360-011, TAP OUTSIDE CL2 BLDG	6/19/18	200.8, 524.2, 525.2
420118CN	360-011, TAP OUTSIDE CL2 BLDG	6/19/18	8015B

No contaminants were detected. Should you have any questions regarding this matter, please contact Mr. Brandon Maeda at (808) 471-1171 extension 218.

Sincerely,

AARON Y. POENTIS
 Director
 Regional Environmental Department
 By direction of the
 Commander

- Enclosure: 1. NAVFAC Hawaii Laboratory Lab Numbers 18-03920 and 18-03921 (33 pages)
 2. NAVFAC Hawaii Laboratory Lab Numbers 18-06452 and 18-06453 (35 pages)

5090
Ser N45/0555
July 19, 2018

Copy to:

Department of Health, Solid and Hazardous Waste Branch, Underground Storage Tank Section (Hard copy and CD enclosures)

Mr. John Floyd, NAVSUP Fleet Logistics Center Pearl Harbor Deputy Director, Fuel and Facility Management (CD enclosures)

Mr. Rockne Krill, DLA Energy Pacific (CD enclosures)

MEMORANDUM

12 Apr 18

Packet No: 18-039200412

From: NAVFAC HAWAII, Environmental Services Laboratory, PRP411

To: Kyle Teraoka NAVFACHI OPBP6

Copy To: Ravi Mohandie NAVFAC HI, EV1

Subj: LABORATORY REPORTS
 MISCELLANEOUS CHARGES AND/OR CHAIN(S) OF CUSTODY SHEETS

Encl: Lab Number(s) 18-03920 , 18-03921

1. Thank you for using our laboratory to provide you with quality test results and/or services.
2. Please take a few minutes and check over the enclosures. If you believe anything is missing or in need of correction, let us know immediately and we will send you a correction as soon as possible.
3. Our goal is to better serve all our customers and we are concerned that you are receiving our services in the most efficient and timely manner possible. Please acknowledge receipt by signing below and returning this memo so we will know that you have received the enclosures. Also feel free to include any comments you have concerning our services. You may return this memo to us through the guardmail (NAVFAC HI PRP411) or fax it to 471-4534.
4. After the laboratory reports are archived, additional copies are available with an archival fee of \$72.00/hr. If you have any questions, please contact us at 474-3704 or at the above fax number.
5. ~~Laboratory certifies that the results meet all A2LA requirements unless noted in the "remarks" section of the report.~~

Cn
4/12/18


Duane Morita, Acting Laboratory Manager

TOTAL NO. OF PAGES: 33

To: NAVFAC HI PRP4

Receipt acknowledged. Enclosures appear complete and acceptable.

Comments/discrepancies noted.

Please fax corrections/amendments to Fax#: _____
or guardmail to: _____

Customer's Signature/Date: _____

LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

This report may not be reproduced, except in full, without written approval from EEA.

STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Missouri	880
Alaska	IN00035	Montana	CERT0026
Arizona	AZ0432	Nebraska	NE-OS-05-04
Arkansas	IN00035	Nevada	IN00035
California	2920	New Hampshire*	2124
Colorado	IN035	New Jersey*	IN598
Colorado Radiochemistry	IN035	New Mexico	IN00035
Connecticut	PH-0132	New York*	11398
Delaware	IN035	North Carolina	18700
Florida*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon (Primary AB)*	4074-001
Illinois*	200001	Pennsylvania*	68-00466
Illinois Microbiology	17767	Puerto Rico	IN00035
Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
Iowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187-15-8
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA180008	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
EPA	IN00035		

*NELAP/TNI Recognized Accreditation Bodies

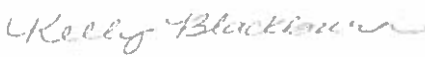
LABORATORY CASE NARRATIVE

Client: NAVFAC Hawaii

Report #: 411628CN

All method QC was within acceptance limits.

Note: This report may not be reproduced, except in full, without written approval from EEA.

	ASA1	03/29/2018
Authorized Signature	Title	Date

Sample Analysis Report

Client: NAVFAC Hawaii
Contact: Duane Morita
 Environmental Lab Code PRJ411
 Building 1423
 Central Ave.
 JBPHH, Hawaii 96860
 Voice: (808)-474-0768

Order No.: 337163
Receipt Batch No.: 411628

Analytical Method Summary:

Headspace analysis GC/FID – The sample was analyzed as received. 15 mL sample was pipetted into a 20 mL headspace vial containing 4 grams of sodium chloride. 10 µL of 5.5% isopropyl alcohol was added to the sample. Isopropyl alcohol was used as an internal standard. The sample was capped and heated to 75 °C for 30 minutes. The headspace was then sampled and analyzed using a modified EPA Method 8015B, a headspace GC/FID technique. The calibration concentration range was 0.05-4 mg/L. A quadratic calibration was used with a correlation coefficient (r^2) of 0.99. The minimum reporting level (MRL) was 0.1 mg/L.


For quantitation of JP-8 Fuel, the analysis included a set of initial calibration standards, an initial continuing calibration check (CCC) at 1.0 mg/L, a laboratory method blank (LMB), a matrix spike (MS) at 1.0 mg/L, and a closing CCC at 0.1 mg/L at the end of the run.

LAB SAMPLE ID: 3895755

SAMPLE SITE: 18-03920,JBPHHRedHill TP001360-011

Analyte	MRL (mg/L)	Sample Result (mg/L)	LMB Result (mg/L)	MS Recovery (%)	Initial CCC Recovery (%)	Closing CCC Recovery (%)
JP-8 Fuel	0.1	< 0.1	< 0.1	109	124	113

 03/28/2018
 Analyst signature Date

 03/28/2018
 Reviewer signature Date



Eaton Analytical

110 S. Hill Street
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order # 337163
Batch # 411628

www.eatonanalytical.com

CHAIN OF CUSTODY RECORD

REPORT TO:		SAMPLER (Signature)		PWS ID #		STATE (sample origin)		PROJECT NAME		# OF CONTAINERS		MATRIX CODE		TURNAROUND TIME	
NAVAFAC Hawaii				H110000360		HI									
BILL TO:		COMPLIANCE MONITORING		POPULATION SERVED		SOURCE WATER		SAMPLE REMARKS		CHLORINATED		PO#			
NAVAFAC Hawaii		Yes No		GW		GW		X		YES NO					
LAB Number		SAMPLING SITE		TEST NAME		SAMPLER (Signature)		RECEIVED BY (Signature)		TIME		DATE		LAB COMMENTS	
3895755		18-03920 BP1111 Red Hill		TPH as Diesel (JP-8) (8015)		TP001-360-011		Fedex		AM PM		DATE		LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT	
		COLLECTION		SAMPLER (Signature)		RECEIVED BY (Signature)		TIME		DATE		DATE			
		DATE TIME AM PM						AM PM		AM PM		AM PM			
1		03/20/18 0725 X		K. P. W.		3-23-18		0830		0830		0830		0.8 °C Upon Receipt N/A	
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
RELINQUISHED BY (Signature)		DATE		RECEIVED BY (Signature)		DATE		RECEIVED FOR LABORATORY BY:		DATE		CONDITIONS UPON RECEIPT (check one):		LAB COMMENTS	
D. Licht		3/21/18		K. P. W.		3-23-18		K. P. W.		3-23-18		Iced: <input checked="" type="checkbox"/> Ambient: <input type="checkbox"/>		LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT	
RELINQUISHED BY (Signature)		DATE		RECEIVED BY (Signature)		DATE		RECEIVED FOR LABORATORY BY:		DATE		STAT*		CALL	
												IV* = Immediate Verbal (3 working days) 100%		SW = Standard Written (15 working days) 0%	
												RW* = Rush Written (5 working days) 75%		RV* = Rush Verbal (5 working days) 50%	
												SP* = Weekend, Holiday		SW-SURFACE WATER	
												STAT* = less than 48 hours		PW-POOL WATER	
												* Please call, expedited service not available for all testing		VW-WASTE WATER	
RELINQUISHED BY (Signature)		DATE		RECEIVED BY (Signature)		DATE		RECEIVED FOR LABORATORY BY:		DATE		TURN-AROUND TIME (TAT) - SURCHARGES		MATRIX CODES:	
												SW = Standard Written (15 working days) 0%		DW-DRINKING WATER	
												RW* = Rush Written (5 working days) 75%		RW-REAGENT WATER	
												RV* = Rush Verbal (5 working days) 50%		GW-GROUND WATER	
												SP* = Weekend, Holiday		EW-EXPOSURE WATER	
												STAT* = less than 48 hours		SW-SURFACE WATER	
												* Please call, expedited service not available for all testing		PW-POOL WATER	
												Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.		VW-WASTE WATER	

VOCs tested (EPA Method 524.2)

Benzene
Carbon tetrachloride
Chlorobenzene
1,2-Dichlorobenzene
1,4-Dichlorobenzene
1,2-Dichloroethane
1,1-Dichloroethylene
cis-1,2-Dichloroethylene
trans-1,2-Dichloroethylene
Dichloromethane
1,2-Dichloropropane
Ethylbenzene
Naphthalene (unregulated)
Styrene
Tetrachloroethylene
Toluene
1,2,4-Trichlorobenzene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethylene
Vinyl chloride
Xylenes, Total

SVOCs tested (EPA Method 525.2)

Benzo(a)pyrene
Di(2-ethylhexyl)adipate
Di(2-ethylhexyl)phthalate
Acenaphthene (unregulated)
Acenaphthylene (unregulated)
Anthracene (unregulated)
Phenanthrene (unregulated)
Fluoranthene (unregulated)
Pyrene (unregulated)

TPH as Diesel (JP-8) (SW846 8015 GCMS)



NAVFAC HAWAII ENVIRONMENTAL SERVICES LABORATORY CHAIN-OF-CUSTODY

Navy Facilities Engineering Command, Hawaii, Pearl Harbor, Hawaii Phone: (808) 474-3704, FAX: (808) 471-4534

JON: 178014602018	ESM:	POC: Kyle Teraoaka	PIH#: 473-3160	FAX#: 473-1545
Report To: Kyle Teraoaka	Copy To: Ravi Mohandic		Copy To:	
NAVFAC HI OBPB6	NAVFAC HI EVI			
kyle.teraoaka@navy.mil	ravi.mohandic@navy.mil			

Sample ID	Sample Description	Matrix Code	Sampling		Container		Analysis Required	Preservative/ Res. Cl (ppm)	pH	FOR LAB USE ONLY		Cond.	
			Date	Time	Vol	Type				Lab Number	FAG		L.ctn.
Joint Base Pearl Harbor- Hickam (360-011)	Red Hill, TP001, Tap outside the C12 Bldg	DW	3/20/2018	0725	2ml	Glass	Volatiles (524.2) Semi-Volatiles (525.2) HPI as Diesel (JP-8) (8015)	Ascorbic, HCl Sulfite, HCl CLO		18-03920	1-3 4-5 6-8	C C C	✓ ✓ ✓
Trip Blank			2/21/2018		125ml 2x40ml	Plastic Glass	Lead (200.8) Volatiles	HNO ₃ , pH=2 Ascorbic, HCl		18-03921	9 1-2	C C	✓ ✓

Sampling Information		Transportation Information		Unused Sample Disposition		Sample Condition	
Location Sampled: Red Hill K. Miyaki	Sampler(s): (Print names clearly)	Transported/Stored in: Cooler with ice Air bill/Carrier ID#:	Cooler Temp: °C	<input type="checkbox"/> Return to customer	<input checked="" type="checkbox"/> Received with CoC	<input type="checkbox"/> Dispose at 60 Days	<input type="checkbox"/> Received with Custody Seals
Remarks: Any EPA approved drinking water method for organic chemicals, 40 CFR 141.24, may be used.		Laboratory must certified by the Hawaii State DOH Drinking Water Program.		<input type="checkbox"/> Archive for _____ Days	<input type="checkbox"/> Seals Required	<input type="checkbox"/> Seals Intact	<input checked="" type="checkbox"/> Labels and CoC agree
				<input type="checkbox"/> Contact before disposal			

Retinquished By: (Print clearly & Sign)		Date	Time	Received By: (Print clearly & Sign)		Date	Time
K. Miyaki		3/20/18	1245	L. Mohandic		3/20/18	1245
				K. DAW		3-23-18	0850

LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

This report may not be reproduced, except in full, without written approval from EEA.

STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Missouri	880
Alaska	IN00035	Montana	CERT0026
Arizona	AZ0432	Nebraska	NE-OS-05-04
Arkansas	IN00035	Nevada	IN00035
California	2920	New Hampshire*	2124
Colorado	IN035	New Jersey*	IN598
Colorado Radiochemistry	IN035	New Mexico	IN00035
Connecticut	PH-0132	New York*	11398
Delaware	IN035	North Carolina	18700
Florida*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon (Primary AB)*	4074-001
Illinois*	200001	Pennsylvania*	68-00466
Illinois Microbiology	17767	Puerto Rico	IN00035
Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
Iowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187-15-8
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA180008	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
EPA	IN00035		

*NELAP/TNI Recognized Accreditation Bodies



Eaton Analytical

110 South Hill Street
South Bend, IN 46617
Tel (574) 233-4777
Fax (574) 233-8207
1 800 332 4345

Laboratory Report

Client: NAVFAC Hawaii
Attn: Duane Morita
Environmental Lab, Code PRJ411
Building 1423, Central Avenue
JBP HH, HI 96860

Report: 411627
Priority: Standard Written
Status: Final
PWS ID: HI0000360

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
3895751	18-03920, JBP HH Red Hill	524.2	03/20/18 07:25	Client	03/23/18 08:30
3895752	18-03920, JBP HH Red Hill	525.2	03/20/18 07:25	Client	03/23/18 08:30
3895753	18-03920, JBP HH Red Hill	200.8	03/20/18 07:25	Client	03/23/18 08:30

Report Summary

Note: This report was amended on 04/12/18 to include batch QC, at the request of the client

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Kelly Blackburn at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

Kelly Blackburn ASM

04/12/2018

Authorized Signature

Title

Date

Client Name: NAVFAC Hawaii

Report #: 411627

Metals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
7439-92-1	Lead	200.8	15!	1.0	< 1.0	ug/L	—	03/26/18 15:05	3895753

Semi-volatile Organic Chemicals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
83-32-9	Acenaphthene S	525.2	---	0.1	< 0.1	ug/L	03/26/18 08:08	03/26/18 20:05	3895752
208-96-8	Acenaphthylene S	525.2	---	0.1	< 0.1	ug/L	03/26/18 08:08	03/26/18 20:05	3895752
120-12-7	Anthracene S	525.2	---	0.1	< 0.1	ug/L	03/26/18 08:08	03/26/18 20:05	3895752
50-32-8	Benzo(a)pyrene	525.2	0.2 *	0.02	< 0.02	ug/L	03/26/18 08:08	03/26/18 20:05	3895752
103-23-1	Di(2-ethylhexyl)adipate	525.2	400 *	0.6	< 0.6	ug/L	03/26/18 08:08	03/26/18 20:05	3895752
117-81-7	Di(2-ethylhexyl)phthalate	525.2	6 *	0.6	< 0.6	ug/L	03/26/18 08:08	03/26/18 20:05	3895752
206-44-0	Fluoranthene S	525.2	---	0.1	< 0.1	ug/L	03/26/18 08:08	03/26/18 20:05	3895752
85-01-8	Phenanthrene S	525.2	---	0.1	< 0.1	ug/L	03/26/18 08:08	03/26/18 20:05	3895752
129-00-0	Pyrene S	525.2	---	0.1	< 0.1	ug/L	03/26/18 08:08	03/26/18 20:05	3895752

Volatile Organic Chemicals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
71-43-2	Benzene	524.2	5 *	0.5	< 0.5	ug/L	---	03/23/18 13:45	3895751
56-23-5	Carbon tetrachloride	524.2	5 *	0.5	< 0.5	ug/L	---	03/23/18 13:45	3895751
108-90-7	Chlorobenzene	524.2	100 *	0.5	< 0.5	ug/L	---	03/23/18 13:45	3895751
95-50-1	1,2-Dichlorobenzene	524.2	600 *	0.5	< 0.5	ug/L	---	03/23/18 13:45	3895751
106-46-7	1,4-Dichlorobenzene	524.2	75 *	0.5	< 0.5	ug/L	---	03/23/18 13:45	3895751
107-06-2	1,2-Dichloroethane	524.2	5 *	0.5	< 0.5	ug/L	---	03/23/18 13:45	3895751
75-35-4	1,1-Dichloroethylene	524.2	7 *	0.5	< 0.5	ug/L	---	03/23/18 13:45	3895751
156-59-2	cis-1,2-Dichloroethylene	524.2	70 *	0.5	< 0.5	ug/L	---	03/23/18 13:45	3895751
156-60-5	trans-1,2-Dichloroethylene	524.2	100 *	0.5	< 0.5	ug/L	---	03/23/18 13:45	3895751
75-09-2	Dichloromethane	524.2	5 *	0.5	< 0.5	ug/L	---	03/23/18 13:45	3895751
78-87-5	1,2-Dichloropropane	524.2	5 *	0.5	< 0.5	ug/L	---	03/23/18 13:45	3895751
100-41-4	Ethylbenzene	524.2	700 *	0.5	< 0.5	ug/L	---	03/23/18 13:45	3895751
91-20-3	Naphthalene	524.2	---	0.5	< 0.5	ug/L	---	03/23/18 13:45	3895751
100-42-5	Styrene	524.2	100 *	0.5	< 0.5	ug/L	---	03/23/18 13:45	3895751
127-18-4	Tetrachloroethylene	524.2	5 *	0.5	< 0.5	ug/L	---	03/23/18 13:45	3895751
108-88-3	Toluene	524.2	1000 *	0.5	< 0.5	ug/L	---	03/23/18 13:45	3895751
120-82-1	1,2,4-Trichlorobenzene	524.2	70 *	0.5	< 0.5	ug/L	---	03/23/18 13:45	3895751
71-55-6	1,1,1-Trichloroethane	524.2	200 *	0.5	< 0.5	ug/L	---	03/23/18 13:45	3895751
79-00-5	1,1,2-Trichloroethane	524.2	5 *	0.5	< 0.5	ug/L	---	03/23/18 13:45	3895751
79-01-6	Trichloroethylene	524.2	5 *	0.5	< 0.5	ug/L	---	03/23/18 13:45	3895751
75-01-4	Vinyl chloride	524.2	2 *	0.2	< 0.2	ug/L	---	03/23/18 13:45	3895751
95-47-6	1,2-Xylene	524.2	---	0.5	< 0.5	ug/L	---	03/23/18 13:45	3895751
179601-23-1	1,3 + 1,4-Xylene	524.2	---	0.5	< 0.5	ug/L	---	03/23/18 13:45	3895751
1330-20-7	Xylenes, Total	524.2	10000 *	0.5	< 0.5	ug/L	---	03/23/18 13:45	3895751

\$ The state of origin does not offer certification for this parameter.

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	•	^	!

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.



Eaton Analytical

110 S. Hill Street
 South Bend, IN 46617
 T: 1.800.332.4345
 F: 1.574.233.8207

Order # 337163
 Batch # 41627

www.eatonanalytical.com

CHAIN OF CUSTODY RECORD

Page 1 of 2

REPORT TO: **NAV FAC Hawaii**

SAMPLER (Signature): _____

STATE (sample origin): **HI**

PROJECT NAME: _____

PWS ID #: **HI0000360**

POPULATION SERVED: _____

CHLORINATED: YES NO

COMPLIANCE MONITORING: Yes No

SOURCE WATER: **GW**

TURNAROUND TIME: _____

NAV FAC Hawaii

LAB Number

LAB Number	COLLECTION		SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED		# OF CONTAINERS	MATRIX CODE
	DATE	TIME				YES	NO		
1 3895751	03/20/18	0725	18-03920, JBP/HI Red Hill	Volatiles (524.2) See attached list		X		3	DW RV
2 3895752			TI001-360-011	Semivolatiles (525.2) See attached list		X		2	DW RV
3 3895753				Lead (200.8)		X		1	DW RV
4									
5									
6									
7									
8									
9 3895754	02/21/18		18-03921 Trip Blank	Volatiles (524.2)		X		2	DW RV
10									
11									
12									
13									
14									

RELINQUISHED BY (Signature): *Dumbat* DATE: 3/21/18 TIME: 1300 AM

RECEIVED BY (Signature): *Fedex* DATE: _____ TIME: _____

RELINQUISHED BY (Signature): _____ DATE: _____ TIME: _____

RECEIVED BY (Signature): *K Duv* DATE: 3-23-18 TIME: 0830 AM

LAB COMMENTS: LAB RESERVES THE RIGHT TO RETURN UNTESTED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT

CONDITIONS UPON RECEIPT (check one):
 * Iced Ambient °C Upon Receipt: _____ N/A

MATRIX CODES:
 DW-DRINKING WATER
 RW-REAGENT WATER
 GW-GROUND WATER
 SW-EXPOSURE WATER
 PW-PHASE WATER
 WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES:
 SW = Standard Written (15 working days) 8%
 RW = Rush Written (5 working days) 50%
 RW* = Rush Written (5 working days) 75%
 * Please call, expedited service not available for all testing

IP* = Immediate Verbal (3 working days) 100%
 IW* = Immediate Written (3 working days) 125%
 SP* = Weekend, Holiday
 STAT* = Less than 48 hours

Other terms proposed by Customer are deemed material alterations and are rejected unless expressly agree to in writing by EEA.

06-LO-F0435 Issue 4.0 Effective Date: 2014-05-01

VOCs tested (EPA Method 524.2)

Benzene
Carbon tetrachloride
Chlorobenzene
1,2-Dichlorobenzene
1,4-Dichlorobenzene
1,2-Dichloroethane
1,1-Dichloroethylene
cis-1,2-Dichloroethylene
trans-1,2-Dichloroethylene
Dichloromethane
1,2-Dichloropropane
Ethylbenzene
Naphthalene (unregulated)
Styrene
Tetrachloroethylene
Toluene
1,2,4-Trichlorobenzene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethylene
Vinyl chloride
Xylenes, Total

SVOCs tested (EPA Method 525.2)

Benzo(a)pyrene
Di(2-ethylhexyl)adipate
Di(2-ethylhexyl)phthalate
Acenaphthene (unregulated)
Acenaphthylene (unregulated)
Anthracene (unregulated)
Phenanthrene (unregulated)
Fluoranthene (unregulated)
Pyrene (unregulated)

TPH as Diesel (JP-8) (SW846 8015 GCMS)

NAVFAC HAWAII ENVIRONMENTAL SERVICES LABORATORY CHAIN-OF-CUSTODY

Navy Facilities Engineering Command, Hawaii, Pearl Harbor, Hawaii Phone: (808) 474-3704, FAX: (808) 471-4534



JON: 178014602018	ESM:	POC: Kyle Teraoka	PIH#: 473-3160	FAN#: 473-1545
Report to: Kyle Teraoka		Copy To: Ravi Mohandic	Copy To:	
NAVFAC HI OPBP6		NAVFAC HI EVI		
kyle.teraoka@navy.mil		ravi.mohandic@navy.mil		

Sample ID	Sample Description	Matrix Code	Sampling		Container Vol	Type	Analysis Required	Preservative/ Res. Cl (ppm)	pH	FOR LAB USE ONLY			Cond.
			Date	Time						Lab Number	Evl.	L. eth.	
Joint Base Pearl Harbor-Hickam (360-011)	Red Hill, TP001, Tap outside the C12 Bldg	DW	3/20/2018	0725	2x1L	Glass	Volatiles (524.2)	Ascorbic, HCl			1-3	C	✓
					2x1L	Glass	Semi-Volatiles (525.2)	Sulfine, HCl			4-5	C	✓
					1x10ml	Glass	IPP as Diesel (JP-8) (8015)	C.C			6-8	C	✓
					125ml	Plastic	Lead (200.8)	INO ₃ , pH-2			9	C	✓
					2x10ml	Glass	Volatiles	Ascorbic, HCl			1-2	C	✓

Sampling Information	Transportation Information	Unused Sample Disposition	Sample Condition
Location Sampled: Red Hill K. Miyaki	Transported/Stored in: Cooler with ice Air bill/Carrier ID#:	<input type="checkbox"/> Return to customer <input checked="" type="checkbox"/> Dispose at 60 Days <input type="checkbox"/> Archive for _____ Days <input type="checkbox"/> Contact before disposal	<input checked="" type="checkbox"/> Received with CoC <input type="checkbox"/> Received with Custody Seals <input type="checkbox"/> Seals Required <input checked="" type="checkbox"/> Seals Intact <input checked="" type="checkbox"/> Labels and CoC agree

Remarks: Any EPA approved drinking water method for organic chemicals, 40 CFR 141.24, may be used.
Laboratory must certified by the Hawaii State DOH Drinking Water Program.

Relinquished By: (Print clearly & Sign)	Date	Time	Received By: (Print clearly & Sign)	Date	Time
K. Miyaki	3/20/18	1245	L. KAMUJ	3/20/18	1245
			K. DAM	3-20-18	0850



Eaton Analytical

Eurofins Eaton Analytical

Run Log

Run ID: 241200 Method: 200.8

<u>Type</u>	<u>Sample Id</u>	<u>Sample Site</u>	<u>Matrix</u>	<u>Instrument ID</u>	<u>Analysis Date</u>	<u>Calibration File</u>
QCS	3895042		RW	DS	03/26/2018 13:21	
ICV	3895115		RW	DS	03/26/2018 13:24	
ICB	3895480		RW	DS	03/26/2018 13:27	
LRB	3897060		RW	DS	03/26/2018 13:34	
LFB	3897061		RW	DS	03/26/2018 13:40	
CCV	3894667		RW	DS	03/26/2018 14:28	
CCB	3894668		RW	DS	03/26/2018 14:31	
FS	3895753	18-03920, JBPHH Red Hill	DW	DS	03/26/2018 15:05	
CCV	3894695		RW	DS	03/26/2018 15:23	
CCB	3894696		RW	DS	03/26/2018 15:26	



QC Summary Report

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	DH Factor	Extracted	Analyzed	EEA ID #
QCS	IS-Bismuth	200.8	N/A	--		0.9555	1.0	N/A	100	60 - 125	--	--	1.0	--	03/26/2018 13:21	3895042
QCS	Lead	200.8	1.0	--		49.5350	50.0	ug/L	99	90 - 110	--	--	1.0	--	03/26/2018 13:21	3895042
QCS	IS-Scandium	200.8	N/A	--		0.9866	1.0	N/A	99	60 - 125	--	--	1.0	--	03/26/2018 13:21	3895042
QCS	IS-Yttrium	200.8	N/A	--		0.9871	1.0	N/A	99	60 - 125	--	--	1.0	--	03/26/2018 13:21	3895042
ICV	IS-Bismuth	200.8	N/A	--		0.8772	1.0	N/A	98	60 - 125	--	--	1.0	--	03/26/2018 13:24	3895115
ICV	Lead	200.8	1.0	--		48.8710	50.0	ug/L	99	90 - 110	--	--	1.0	--	03/26/2018 13:24	3895115
ICV	IS-Scandium	200.8	N/A	--		0.8737	1.0	N/A	97	60 - 125	--	--	1.0	--	03/26/2018 13:24	3895115
ICV	IS-Yttrium	200.8	N/A	--		0.9870	1.0	N/A	97	60 - 125	--	--	1.0	--	03/26/2018 13:24	3895115
ICB	IS-Bismuth	200.8	N/A	--		0.9721	1.0	N/A	97	60 - 125	--	--	1.0	--	03/26/2018 13:27	3895480
ICB	Lead	200.8	1.0	--	<	1.0		ug/L	--	--	--	--	1.0	--	03/26/2018 13:27	3895480
ICB	IS-Scandium	200.8	N/A	--		0.9887	1.0	N/A	99	60 - 125	--	--	1.0	--	03/26/2018 13:27	3895480
ICB	IS-Yttrium	200.8	N/A	--		0.9829	1.0	N/A	98	60 - 125	--	--	1.0	--	03/26/2018 13:27	3895480
LRB	IS-Bismuth	200.8	N/A	--		0.9814	1.0	N/A	98	60 - 125	--	--	1.0	--	03/26/2018 13:34	3897060
LRB	Lead	200.8	1.0	--	<	1.0		ug/L	--	--	--	--	1.0	--	03/26/2018 13:34	3897060
LRB	IS-Scandium	200.8	N/A	--		0.9874	1.0	N/A	99	60 - 125	--	--	1.0	--	03/26/2018 13:34	3897060
LRB	IS-Yttrium	200.8	N/A	--		0.8786	1.0	N/A	98	60 - 125	--	--	1.0	--	03/26/2018 13:34	3897060
LFB	IS-Bismuth	200.8	N/A	--		0.9872	1.0	N/A	99	60 - 125	--	--	1.0	--	03/26/2018 13:40	3897061
LFB	Lead	200.8	1.0	--		50.1020	50.0	ug/L	100	85 - 115	--	--	1.0	--	03/26/2018 13:40	3897061
LFB	IS-Scandium	200.8	N/A	--		0.9869	1.0	N/A	99	60 - 125	--	--	1.0	--	03/26/2018 13:40	3897061
LFB	IS-Yttrium	200.8	N/A	--		0.9846	1.0	N/A	98	60 - 125	--	--	1.0	--	03/26/2018 13:40	3897061
CCV	IS-Bismuth	200.8	N/A	--		0.8725	1.0	N/A	97	60 - 125	--	--	1.0	--	03/26/2018 14:28	3894667
CCV	Lead	200.8	1.0	--		49.7320	50.0	ug/L	99	85 - 115	--	--	1.0	--	03/26/2018 14:28	3894667
CCV	IS-Scandium	200.8	N/A	--		0.8184	1.0	N/A	92	60 - 125	--	--	1.0	--	03/26/2018 14:28	3894667
CCV	IS-Yttrium	200.8	N/A	--		0.8304	1.0	N/A	93	60 - 125	--	--	1.0	--	03/26/2018 14:28	3894667
CCB	IS-Bismuth	200.8	N/A	--		0.9694	1.0	N/A	97	60 - 125	--	--	1.0	--	03/26/2018 14:31	3894668
CCB	Lead	200.8	1.0	--	<	1.0		ug/L	--	--	--	--	1.0	--	03/26/2018 14:31	3894668
CCB	IS-Scandium	200.8	N/A	--		0.9238	1.0	N/A	92	60 - 125	--	--	1.0	--	03/26/2018 14:31	3894668
CCB	IS-Yttrium	200.8	N/A	--		0.9244	1.0	N/A	92	60 - 125	--	--	1.0	--	03/26/2018 14:31	3894668
FS	IS-Bismuth	200.8	N/A	18-03820_8BPH41 Red Hill		0.8480	1.0	N/A	95	60 - 125	--	--	1.0	--	03/26/2018 15:05	3895753
FS	Lead	200.8	1.0	18-03820_8BPH41 Red Hill	<	1.0		ug/L	--	--	--	--	1.0	--	03/26/2018 15:05	3895753
FS	IS-Scandium	200.8	N/A	18-03820_8BPH41 Red Hill		0.8726	1.0	N/A	97	60 - 125	--	--	1.0	--	03/26/2018 15:05	3895753
FS	IS-Yttrium	200.8	N/A	18-03820_8BPH41 Red Hill		0.8684	1.0	N/A	97	60 - 125	--	--	1.0	--	03/26/2018 15:05	3895753
CCV	IS-Bismuth	200.8	N/A	--		1.0348	1.0	N/A	103	60 - 125	--	--	1.0	--	03/26/2018 15:23	3894695
CCV	Lead	200.8	1.0	--		48.7350	50.0	ug/L	97	85 - 115	--	--	1.0	--	03/26/2018 15:23	3894695
CCV	IS-Scandium	200.8	N/A	--		1.0134	1.0	N/A	101	60 - 125	--	--	1.0	--	03/26/2018 15:23	3894695
CCV	IS-Yttrium	200.8	N/A	--		1.0380	1.0	N/A	104	60 - 125	--	--	1.0	--	03/26/2018 15:23	3894695
CCB	IS-Bismuth	200.8	N/A	--		1.0210	1.0	N/A	102	60 - 125	--	--	1.0	--	03/26/2018 15:26	3894696
CCB	Lead	200.8	1.0	--	<	1.0		ug/L	--	--	--	--	1.0	--	03/26/2018 15:26	3894696
CCB	IS-Scandium	200.8	N/A	--		1.0124	1.0	N/A	101	60 - 125	--	--	1.0	--	03/26/2018 15:26	3894696
CCB	IS-Yttrium	200.8	N/A	--		1.0332	1.0	N/A	103	60 - 125	--	--	1.0	--	03/26/2018 15:26	3894696

QC Summary Report (cont.)																
Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	DII Factor	Extracted	Analyzed	EEA ID #



Eaton Analytical

Eurofins Eaton Analytical

Run Log

Run ID: 241186 Method: 524.2

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCC	3895762		RW	PW2	03/23/2018 10:57	524 2-032218-PW2.mth
CCL	3895781		RW	PW2	03/23/2018 11:50	524 2-032218-PW2.mth
LMB	3895785		RW	PW2	03/23/2018 12:38	524 2-032218-PW2.mth
LTB	3895754	LTB 2-21-18	RW	PW2	03/23/2018 13:11	524 2-032218-PW2.mth
FS	3895751	18-03920, JBPHH Red Hill	DW	PW2	03/23/2018 13:45	524 2-032218-PW2.mth
FD	3896131	18-03920, JBPHH Red Hill	DW	PW2	03/23/2018 14:18	524 2-032218-PW2.mth
CCC	3896167		RW	PW2	03/23/2018 19:51	524 2-032218-PW2.mth

QC Summary Report

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	DH Factor	Extracted	Analyzed	EEA ID #
CCC	IS-1,4-Difluorobenzene	524.2	N/A	--		262957	262957	ug/L	100	50 - 150	--	--	1.0	--	03/23/2018 10:57	3895782
CCC	SS-Bromofluorobenzene	524.2	N/A	--		5.0540	5.0	ug/L	101	70 - 130	--	--	1.0	--	03/23/2018 10:57	3895782
CCC	SS-1,2-Dichlorobenzene-d4	524.2	N/A	--		10.1000	10.0	ug/L	101	70 - 130	--	--	1.0	--	03/23/2018 10:57	3895782
CCC	SS-1,2-Dichloroethane-d4	524.2	N/A	--		9.8090	10.0	ug/L	98	70 - 130	--	--	1.0	--	03/23/2018 10:57	3895782
CCC	SS-Toluene-d8	524.2	N/A	--		9.8380	10.0	ug/L	98	70 - 130	--	--	1.0	--	03/23/2018 10:57	3895782
CCC	Benzene	524.2	0.5	--		4.8730	5.0	ug/L	97	70 - 130	--	--	1.0	--	03/23/2018 10:57	3895782
CCC	Carbon tetrachloride	524.2	0.5	--		4.8810	5.0	ug/L	94	70 - 130	--	--	1.0	--	03/23/2018 10:57	3895782
CCC	Chlorobenzene	524.2	0.5	--		5.0400	5.0	ug/L	101	70 - 130	--	--	1.0	--	03/23/2018 10:57	3895782
CCC	1,2-Dichlorobenzene	524.2	0.5	--		5.0660	5.0	ug/L	101	70 - 130	--	--	1.0	--	03/23/2018 10:57	3895782
CCC	1,4-Dichlorobenzene	524.2	0.5	--		5.1270	5.0	ug/L	103	70 - 130	--	--	1.0	--	03/23/2018 10:57	3895782
CCC	1,2-Dichloroethane	524.2	0.5	--		4.8830	5.0	ug/L	98	70 - 130	--	--	1.0	--	03/23/2018 10:57	3895782
CCC	1,1-Dichloroethylene	524.2	0.5	--		4.7220	5.0	ug/L	94	70 - 130	--	--	1.0	--	03/23/2018 10:57	3895782
CCC	cis-1,2-Dichloroethylene	524.2	0.5	--		4.7940	5.0	ug/L	96	70 - 130	--	--	1.0	--	03/23/2018 10:57	3895782
CCC	trans-1,2-Dichloroethylene	524.2	0.5	--		4.7630	5.0	ug/L	96	70 - 130	--	--	1.0	--	03/23/2018 10:57	3895782
CCC	Dichloromethane	524.2	0.5	--		4.8090	5.0	ug/L	96	70 - 130	--	--	1.0	--	03/23/2018 10:57	3895782
CCC	1,2-Dichloropropane	524.2	0.5	--		5.1350	5.0	ug/L	103	70 - 130	--	--	1.0	--	03/23/2018 10:57	3895782
CCC	Ethylbenzene	524.2	0.5	--		5.0720	5.0	ug/L	101	70 - 130	--	--	1.0	--	03/23/2018 10:57	3895782
CCC	Naphthalene	524.2	0.5	--		5.1870	5.0	ug/L	104	70 - 130	--	--	1.0	--	03/23/2018 10:57	3895782
CCC	Styrene	524.2	0.5	--		5.0870	5.0	ug/L	102	70 - 130	--	--	1.0	--	03/23/2018 10:57	3895782
CCC	Tetrachloroethylene	524.2	0.5	--		4.8610	5.0	ug/L	97	70 - 130	--	--	1.0	--	03/23/2018 10:57	3895782
CCC	Toluene	524.2	0.5	--		4.8350	5.0	ug/L	97	70 - 130	--	--	1.0	--	03/23/2018 10:57	3895782
CCC	1,2,4-Trichlorobenzene	524.2	0.5	--		5.2690	5.0	ug/L	105	70 - 130	--	--	1.0	--	03/23/2018 10:57	3895782
CCC	1,1,1-Trichloroethane	524.2	0.5	--		4.7940	5.0	ug/L	96	70 - 130	--	--	1.0	--	03/23/2018 10:57	3895782
CCC	1,1,2-Trichloroethane	524.2	0.5	--		4.8620	5.0	ug/L	97	70 - 130	--	--	1.0	--	03/23/2018 10:57	3895782
CCC	Trichloroethylene	524.2	0.5	--		4.7330	5.0	ug/L	95	70 - 130	--	--	1.0	--	03/23/2018 10:57	3895782
CCC	Vinyl chloride	524.2	0.2	--		4.4490	5.0	ug/L	89	70 - 130	--	--	1.0	--	03/23/2018 10:57	3895782
CCC	1,2-Xylene	524.2	0.5	--		5.0890	5.0	ug/L	101	70 - 130	--	--	1.0	--	03/23/2018 10:57	3895782
CCC	1,3 + 1,4-Xylene	524.2	0.5	--		9.7820	10.0	ug/L	98	70 - 130	--	--	1.0	--	03/23/2018 10:57	3895782
CCL	IS-1,4-Difluorobenzene	524.2	N/A	--		275582	275582	ug/L	100	50 - 150	--	--	1.0	--	03/23/2018 11:50	3895781
CCL	SS-Bromofluorobenzene	524.2	N/A	--		4.8770	5.0	ug/L	98	70 - 130	--	--	1.0	--	03/23/2018 11:50	3895781
CCL	SS-1,2-Dichlorobenzene-d4	524.2	N/A	--		9.8420	10.0	ug/L	98	70 - 130	--	--	1.0	--	03/23/2018 11:50	3895781
CCL	SS-1,2-Dichloroethane-d4	524.2	N/A	--		9.5980	10.0	ug/L	96	70 - 130	--	--	1.0	--	03/23/2018 11:50	3895781
CCL	SS-Toluene-d8	524.2	N/A	--		9.5620	10.0	ug/L	96	70 - 130	--	--	1.0	--	03/23/2018 11:50	3895781
CCL	Benzene	524.2	0.5	--		0.5110	0.5	ug/L	102	68 - 118	--	--	1.0	--	03/23/2018 11:50	3895781
CCL	Carbon tetrachloride	524.2	0.5	--		0.5320	0.5	ug/L	106	61 - 118	--	--	1.0	--	03/23/2018 11:50	3895781
CCL	Chlorobenzene	524.2	0.5	--		0.5590	0.5	ug/L	112	66 - 122	--	--	1.0	--	03/23/2018 11:50	3895781
CCL	1,2-Dichlorobenzene	524.2	0.5	--		0.5120	0.5	ug/L	102	67 - 126	--	--	1.0	--	03/23/2018 11:50	3895781
CCL	1,4-Dichlorobenzene	524.2	0.5	--		0.5130	0.5	ug/L	103	61 - 126	--	--	1.0	--	03/23/2018 11:50	3895781
CCL	1,2-Dichloroethane	524.2	0.5	--		0.4850	0.5	ug/L	97	69 - 119	--	--	1.0	--	03/23/2018 11:50	3895781
CCL	1,1-Dichloroethylene	524.2	0.5	--		0.5040	0.5	ug/L	101	62 - 121	--	--	1.0	--	03/23/2018 11:50	3895781

22

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCL	cis-1,2-Dichloroethylene	524.2	0.5	--		0.5110	0.5	ug/L	102	67 - 117	--	--	1.0	--	03/23/2018 11:50	3695781
CCL	trans-1,2-Dichloroethylene	524.2	0.5	--		0.4940	0.5	ug/L	99	63 - 119	--	--	1.0	--	03/23/2018 11:50	3695781
CCL	Dichloromethane	524.2	0.5	--		0.5920	0.5	ug/L	118	38 - 154	--	--	1.0	--	03/23/2018 11:50	3695781
CCL	1,2-Dichloropropane	524.2	0.5	--		0.5080	0.5	ug/L	102	65 - 121	--	--	1.0	--	03/23/2018 11:50	3695781
CCL	Ethylbenzene	524.2	0.5	--		0.4970	0.5	ug/L	99	63 - 119	--	--	1.0	--	03/23/2018 11:50	3695781
CCL	Styrene	524.2	0.5	--		0.5150	0.5	ug/L	103	54 - 133	--	--	1.0	--	03/23/2018 11:50	3695781
CCL	Tetrachloroethylene	524.2	0.5	--		0.5290	0.5	ug/L	106	59 - 124	--	--	1.0	--	03/23/2018 11:50	3695781
CCL	Toluene	524.2	0.5	--		0.5040	0.5	ug/L	101	65 - 119	--	--	1.0	--	03/23/2018 11:50	3695781
CCL	1,2,4-Trichlorobenzene	524.2	0.5	--		0.5660	0.5	ug/L	113	57 - 150	--	--	1.0	--	03/23/2018 11:50	3695781
CCL	1,1,1-Trichloroethane	524.2	0.5	--		0.5130	0.5	ug/L	103	61 - 116	--	--	1.0	--	03/23/2018 11:50	3695781
CCL	1,1,2-Trichloroethane	524.2	0.5	--		0.5110	0.5	ug/L	102	66 - 118	--	--	1.0	--	03/23/2018 11:50	3695781
CCL	Trichloroethylene	524.2	0.5	--		0.4920	0.5	ug/L	98	64 - 119	--	--	1.0	--	03/23/2018 11:50	3695781
CCL	Vinyl chloride	524.2	0.2	--		0.4610	0.5	ug/L	92	52 - 130	--	--	1.0	--	03/23/2018 11:50	3695781
CCL	1,2-Xylene	524.2	0.5	--		0.5000	0.5	ug/L	100	67 - 119	--	--	1.0	--	03/23/2018 11:50	3695781
CCL	1,3 + 1,4-Xylene	524.2	0.5	--		1.0050	1.0	ug/L	100	65 - 119	--	--	1.0	--	03/23/2018 11:50	3695781
LMB	IS-1,4-Difluorobenzene	524.2	N/A	--		276339	275582	ug/L	100	70 - 130	--	--	1.0	--	03/23/2018 12:38	3695785
LMB	SS-Bromofluorobenzene	524.2	N/A	--		4.8080	5.0	ug/L	96	70 - 130	--	--	1.0	--	03/23/2018 12:38	3695785
LMB	SS-1,2-Dichlorobenzene-d4	524.2	N/A	--		9.9810	10.0	ug/L	100	70 - 130	--	--	1.0	--	03/23/2018 12:38	3695785
LMB	SS-1,2-Dichloroethane-d4	524.2	N/A	--		9.6210	10.0	ug/L	98	70 - 130	--	--	1.0	--	03/23/2018 12:38	3695785
LMB	SS-Toluene-d8	524.2	N/A	--		9.6640	10.0	ug/L	97	70 - 130	--	--	1.0	--	03/23/2018 12:38	3695785
LMB	Benzene	524.2	0.5	--	<	0.5		ug/L	--	--	--	--	1.0	--	03/23/2018 12:38	3695785
LMB	Carbon tetrachloride	524.2	0.5	--	<	0.5		ug/L	--	--	--	--	1.0	--	03/23/2018 12:38	3695785
LMB	Chlorobenzene	524.2	0.5	--	<	0.5		ug/L	--	--	--	--	1.0	--	03/23/2018 12:38	3695785
LMB	1,2-Dichlorobenzene	524.2	0.5	--	<	0.5		ug/L	--	--	--	--	1.0	--	03/23/2018 12:38	3695785
LMB	1,4-Dichlorobenzene	524.2	0.5	--	<	0.5		ug/L	--	--	--	--	1.0	--	03/23/2018 12:38	3695785
LMB	1,2-Dichloroethane	524.2	0.5	--	<	0.5		ug/L	--	--	--	--	1.0	--	03/23/2018 12:38	3695785
LMB	1,1-Dichloroethylene	524.2	0.5	--	<	0.5		ug/L	--	--	--	--	1.0	--	03/23/2018 12:38	3695785
LMB	cis-1,2-Dichloroethylene	524.2	0.5	--	<	0.5		ug/L	--	--	--	--	1.0	--	03/23/2018 12:38	3695785
LMB	trans-1,2-Dichloroethylene	524.2	0.5	--	<	0.5		ug/L	--	--	--	--	1.0	--	03/23/2018 12:38	3695785
LMB	Dichloromethane	524.2	0.5	--	<	0.5		ug/L	--	--	--	--	1.0	--	03/23/2018 12:38	3695785
LMB	1,2-Dichloropropane	524.2	0.5	--	<	0.5		ug/L	--	--	--	--	1.0	--	03/23/2018 12:38	3695785
LMB	Ethylbenzene	524.2	0.5	--	<	0.5		ug/L	--	--	--	--	1.0	--	03/23/2018 12:38	3695785
LMB	Naphthalene	524.2	0.5	--	<	0.5		ug/L	--	--	--	--	1.0	--	03/23/2018 12:38	3695785
LMB	Styrene	524.2	0.5	--	<	0.5		ug/L	--	--	--	--	1.0	--	03/23/2018 12:38	3695785
LMB	Tetrachloroethylene	524.2	0.5	--	<	0.5		ug/L	--	--	--	--	1.0	--	03/23/2018 12:38	3695785
LMB	Toluene	524.2	0.5	--	<	0.5		ug/L	--	--	--	--	1.0	--	03/23/2018 12:38	3695785
LMB	1,2,4-Trichlorobenzene	524.2	0.5	--	<	0.5		ug/L	--	--	--	--	1.0	--	03/23/2018 12:38	3695785
LMB	1,1,1-Trichloroethane	524.2	0.5	--	<	0.5		ug/L	--	--	--	--	1.0	--	03/23/2018 12:38	3695785
LMB	1,1,2-Trichloroethane	524.2	0.5	--	<	0.5		ug/L	--	--	--	--	1.0	--	03/23/2018 12:38	3695785
LMB	Trichloroethylene	524.2	0.5	--	<	0.5		ug/L	--	--	--	--	1.0	--	03/23/2018 12:38	3695785
LMB	Vinyl chloride	524.2	0.2	--	<	0.2		ug/L	--	--	--	--	1.0	--	03/23/2018 12:38	3695785

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
LMB	1,2-Xylene	524.2	0.5	---	<	0.5		ug/L	---	---	---	---	1.0	---	03/23/2018 12:38	3895785
LMB	1,3 + 1,4-Xylene	524.2	0.5	---	<	0.5		ug/L	---	---	---	---	1.0	---	03/23/2018 12:38	3895785
LTB	IS-1,4-Difluorobenzene	524.2	N/A	LTB 2-21-18		300298	275582	ug/L	109	70 - 130	---	---	1.0	---	03/23/2018 13:11	3895754
LTB	SS-Bromofluorobenzene	524.2	N/A	LTB 2-21-18		4.9650	5.0	ug/L	99	70 - 130	---	---	1.0	---	03/23/2018 13:11	3895754
LTB	SS-1,2-Dichlorobenzene-d4	524.2	N/A	LTB 2-21-18		9.5250	10.0	ug/L	95	70 - 130	---	---	1.0	---	03/23/2018 13:11	3895754
LTB	SS-1,2-Dichloroethane-d4	524.2	N/A	LTB 2-21-18		9.9360	10.0	ug/L	99	70 - 130	---	---	1.0	---	03/23/2018 13:11	3895754
LTB	SS-Toluene-d8	524.2	N/A	LTB 2-21-18		9.8750	10.0	ug/L	99	70 - 130	---	---	1.0	---	03/23/2018 13:11	3895754
LTB	Benzene	524.2	0.5	LTB 2-21-18	<	0.5		ug/L	---	---	---	---	1.0	---	03/23/2018 13:11	3895754
LTB	Carbon tetrachloride	524.2	0.5	LTB 2-21-18	<	0.5		ug/L	---	---	---	---	1.0	---	03/23/2018 13:11	3895754
LTB	Chlorobenzene	524.2	0.5	LTB 2-21-18	<	0.5		ug/L	---	---	---	---	1.0	---	03/23/2018 13:11	3895754
LTB	1,2-Dichlorobenzene	524.2	0.5	LTB 2-21-18	<	0.5		ug/L	---	---	---	---	1.0	---	03/23/2018 13:11	3895754
LTB	1,4-Dichlorobenzene	524.2	0.5	LTB 2-21-18	<	0.5		ug/L	---	---	---	---	1.0	---	03/23/2018 13:11	3895754
LTB	1,2-Dichloroethane	524.2	0.5	LTB 2-21-18	<	0.5		ug/L	---	---	---	---	1.0	---	03/23/2018 13:11	3895754
LTB	1,1-Dichloroethylene	524.2	0.5	LTB 2-21-18	<	0.5		ug/L	---	---	---	---	1.0	---	03/23/2018 13:11	3895754
LTB	cis-1,2-Dichloroethylene	524.2	0.5	LTB 2-21-18	<	0.5		ug/L	---	---	---	---	1.0	---	03/23/2018 13:11	3895754
LTB	trans-1,2-Dichloroethylene	524.2	0.5	LTB 2-21-18	<	0.5		ug/L	---	---	---	---	1.0	---	03/23/2018 13:11	3895754
LTB	Dichloromethane	524.2	0.5	LTB 2-21-18	<	0.5		ug/L	---	---	---	---	1.0	---	03/23/2018 13:11	3895754
LTB	1,2-Dichloropropane	524.2	0.5	LTB 2-21-18	<	0.5		ug/L	---	---	---	---	1.0	---	03/23/2018 13:11	3895754
LTB	Ethylbenzene	524.2	0.5	LTB 2-21-18	<	0.5		ug/L	---	---	---	---	1.0	---	03/23/2018 13:11	3895754
LTB	Naphthalene	524.2	0.5	LTB 2-21-18	<	0.5		ug/L	---	---	---	---	1.0	---	03/23/2018 13:11	3895754
LTB	Styrene	524.2	0.5	LTB 2-21-18	<	0.5		ug/L	---	---	---	---	1.0	---	03/23/2018 13:11	3895754
LTB	Tetrachloroethylene	524.2	0.5	LTB 2-21-18	<	0.5		ug/L	---	---	---	---	1.0	---	03/23/2018 13:11	3895754
LTB	Toluene	524.2	0.5	LTB 2-21-18	<	0.5		ug/L	---	---	---	---	1.0	---	03/23/2018 13:11	3895754
LTB	1,2,4-Trichlorobenzene	524.2	0.5	LTB 2-21-18	<	0.5		ug/L	---	---	---	---	1.0	---	03/23/2018 13:11	3895754
LTB	1,1,1-Trichloroethane	524.2	0.5	LTB 2-21-18	<	0.5		ug/L	---	---	---	---	1.0	---	03/23/2018 13:11	3895754
LTB	1,1,2-Trichloroethane	524.2	0.5	LTB 2-21-18	<	0.5		ug/L	---	---	---	---	1.0	---	03/23/2018 13:11	3895754
LTB	Vinyl chloride	524.2	0.2	LTB 2-21-18	<	0.2		ug/L	---	---	---	---	1.0	---	03/23/2018 13:11	3895754
LTB	1,3 + 1,4-Xylene	524.2	0.5	LTB 2-21-18	<	0.5		ug/L	---	---	---	---	1.0	---	03/23/2018 13:11	3895754
LTB	Xylenes, Total	524.2	0.5	LTB 2-21-18	<	0.5		ug/L	---	---	---	---	1.0	---	03/23/2018 13:11	3895754
FS	IS-1,4-Difluorobenzene	524.2	N/A	18-03920_8PHH Red H#		301780	275582	ug/L	110	70 - 130	---	---	1.0	---	03/23/2018 13:45	3895751
FS	SS-Bromofluorobenzene	524.2	N/A	18-03920_8PHH Red H#		4.8680	5.0	ug/L	97	70 - 130	---	---	1.0	---	03/23/2018 13:45	3895751
FS	SS-1,2-Dichlorobenzene-d4	524.2	N/A	18-03920_8PHH Red H#		9.5150	10.0	ug/L	95	70 - 130	---	---	1.0	---	03/23/2018 13:45	3895751
FS	SS-1,2-Dichloroethane-d4	524.2	N/A	18-03920_8PHH Red H#		8.7070	10.0	ug/L	97	70 - 130	---	---	1.0	---	03/23/2018 13:45	3895751
FS	SS-Toluene-d8	524.2	N/A	18-03920_8PHH Red H#		9.6660	10.0	ug/L	97	70 - 130	---	---	1.0	---	03/23/2018 13:45	3895751
FS	Benzene	524.2	0.5	18-03920_8PHH Red H#	<	0.5		ug/L	---	---	---	---	1.0	---	03/23/2018 13:45	3895751
FS	Carbon tetrachloride	524.2	0.5	18-03920_8PHH Red H#	<	0.5		ug/L	---	---	---	---	1.0	---	03/23/2018 13:45	3895751
FS	Chlorobenzene	524.2	0.5	18-03920_8PHH Red H#	<	0.5		ug/L	---	---	---	---	1.0	---	03/23/2018 13:45	3895751
FS	1,2-Dichlorobenzene	524.2	0.5	18-03920_8PHH Red H#	<	0.5		ug/L	---	---	---	---	1.0	---	03/23/2018 13:45	3895751
FS	1,4-Dichlorobenzene	524.2	0.5	18-03920_8PHH Red H#	<	0.5		ug/L	---	---	---	---	1.0	---	03/23/2018 13:45	3895751
FS	1,2-Dichloroethane	524.2	0.5	18-03920_8PHH Red H#	<	0.5		ug/L	---	---	---	---	1.0	---	03/23/2018 13:45	3895751

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
FS	1,1-Dichloroethylene	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 13:45	3895751
FS	cis-1,2-Dichloroethylene	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 13:45	3895751
FS	trans-1,2-Dichloroethylene	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 13:45	3895751
FS	Dichloromethane	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 13:45	3895751
FS	1,2-Dichloropropane	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 13:45	3895751
FS	Ethylbenzene	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 13:45	3895751
FS	Naphthalene	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 13:45	3895751
FS	Styrene	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 13:45	3895751
FS	Tetrachloroethylene	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 13:45	3895751
FS	Toluene	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 13:45	3895751
F6	1,2,4-Trichlorobenzene	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 13:45	3895751
FS	1,1,1-Trichloroethane	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 13:45	3895751
FS	1,1,2-Trichloroethane	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 13:45	3895751
FS	Trichloroethylene	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 13:45	3895751
FS	Vinyl chloride	524.2	0.2	18-03920_08PHH Red H#	<	0.2		ug/L	--	--	--	1.0	--	03/23/2018 13:45	3895751
FS	1,2-Xylene	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 13:45	3895751
FS	1,3 + 1,4-Xylene	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 13:45	3895751
FS	Xylenes, Total	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 13:45	3895751
FD	IS-1,4-Difluorobenzene	524.2	N/A	18-03920_08PHH Red H#	<	307095	275582	ug/L	111	70 - 130	--	1.0	--	03/23/2018 14:18	3896131
FD	SS-Bromofluorobenzene	524.2	N/A	18-03920_08PHH Red H#	<	4.7250	5.0	ug/L	94	70 - 130	--	1.0	--	03/23/2018 14:18	3896131
FD	SS-1,2-Dichlorobenzene-d4	524.2	N/A	18-03920_08PHH Red H#	<	9.3420	10.0	ug/L	93	70 - 130	--	1.0	--	03/23/2018 14:18	3896131
FD	SS-1,2-Dichloroethane-d4	524.2	N/A	18-03920_08PHH Red H#	<	9.6590	10.0	ug/L	97	70 - 130	--	1.0	--	03/23/2018 14:18	3896131
FD	SS-Toluene-d8	524.2	N/A	18-03920_08PHH Red H#	<	9.5870	10.0	ug/L	96	70 - 130	--	1.0	--	03/23/2018 14:18	3896131
FD	Benzene	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 14:18	3896131
FD	Carbon tetrachloride	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 14:18	3896131
FD	Chlorobenzene	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 14:18	3896131
FD	1,2-Dichlorobenzene	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 14:18	3896131
FD	1,4-Dichlorobenzene	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 14:18	3896131
FD	1,2-Dichloroethane	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 14:18	3896131
FD	1,1-Dichloroethylene	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 14:18	3896131
FD	cis-1,2-Dichloroethylene	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 14:18	3896131
FD	trans-1,2-Dichloroethylene	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 14:18	3896131
FD	Dichloromethane	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 14:18	3896131
FD	1,2-Dichloropropane	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 14:18	3896131
FD	Ethylbenzene	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 14:18	3896131
FD	Naphthalene	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 14:18	3896131
FD	Styrene	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 14:18	3896131
FD	Tetrachloroethylene	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 14:18	3896131
FD	Toluene	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 14:18	3896131
FD	1,2,4-Trichlorobenzene	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 14:18	3896131
FD	1,1,1-Trichloroethane	524.2	0.5	18-03920_08PHH Red H#	<	0.5		ug/L	--	--	--	1.0	--	03/23/2018 14:18	3896131

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
FD	1,1,2-Trichloroethane	524.2	0.5	18-03920_JBPHH Red H8	<	0.5		ug/L	--	--	--	--	1.0	--	03/23/2018 14:18	3896131
FD	Trichloroethylene	524.2	0.5	18-03920_JBPHH Red H8	<	0.5		ug/L	--	--	--	--	1.0	--	03/23/2018 14:18	3896131
FD	Vinyl chloride	524.2	0.2	18-03920_JBPHH Red H8	<	0.2		ug/L	--	--	--	--	1.0	--	03/23/2018 14:18	3896131
FD	1,2-Xylene	524.2	0.5	18-03920_JBPHH Red H8	<	0.5		ug/L	--	--	--	--	1.0	--	03/23/2018 14:18	3896131
FD	1,3 + 1,4-Xylene	524.2	0.5	18-03920_JBPHH Red H8	<	0.5		ug/L	--	--	--	--	1.0	--	03/23/2018 14:18	3896131
CCC	IS-1,4-Difluorobenzene	524.2	N/A			290398	290398	ug/L	100	50 - 150	--	--	1.0	--	03/23/2018 19:51	3896167
CCC	SS-Bromofluorobenzene	524.2	N/A			4.9270	5.0	ug/L	99	70 - 130	--	--	1.0	--	03/23/2018 19:51	3896167
CCC	SS-1,2-Dichlorobenzene-d4	524.2	N/A			9.8160	10.0	ug/L	98	70 - 130	--	--	1.0	--	03/23/2018 19:51	3896167
CCC	SS-1,2-Dichloroethane-d4	524.2	N/A			9.9240	10.0	ug/L	99	70 - 130	--	--	1.0	--	03/23/2018 19:51	3896167
CCC	SS-Toluene-d8	524.2	N/A			10.1860	10.0	ug/L	102	70 - 130	--	--	1.0	--	03/23/2018 19:51	3896167
CCC	Benzene	524.2	0.5			9.9320	10.0	ug/L	99	70 - 130	--	--	1.0	--	03/23/2018 19:51	3896167
CCC	Carbon tetrachloride	524.2	0.5			9.8110	10.0	ug/L	98	70 - 130	--	--	1.0	--	03/23/2018 19:51	3896167
CCC	Chlorobenzene	524.2	0.5			10.1190	10.0	ug/L	101	70 - 130	--	--	1.0	--	03/23/2018 19:51	3896167
CCC	1,2-Dichlorobenzene	524.2	0.5			9.7490	10.0	ug/L	97	70 - 130	--	--	1.0	--	03/23/2018 19:51	3896167
CCC	1,4-Dichlorobenzene	524.2	0.5			9.8640	10.0	ug/L	99	70 - 130	--	--	1.0	--	03/23/2018 19:51	3896167
CCC	1,2-Dichloroethane	524.2	0.5			10.0500	10.0	ug/L	100	70 - 130	--	--	1.0	--	03/23/2018 19:51	3896167
CCC	1,1-Dichloroethylene	524.2	0.5			9.8130	10.0	ug/L	98	70 - 130	--	--	1.0	--	03/23/2018 19:51	3896167
CCC	cis-1,2-Dichloroethylene	524.2	0.5			9.7500	10.0	ug/L	98	70 - 130	--	--	1.0	--	03/23/2018 19:51	3896167
CCC	trans-1,2-Dichloroethylene	524.2	0.5			9.8020	10.0	ug/L	98	70 - 130	--	--	1.0	--	03/23/2018 19:51	3896167
CCC	Dichloromethane	524.2	0.5			9.9400	10.0	ug/L	99	70 - 130	--	--	1.0	--	03/23/2018 19:51	3896167
CCC	1,2-Dichloropropane	524.2	0.5			9.9950	10.0	ug/L	100	70 - 130	--	--	1.0	--	03/23/2018 19:51	3896167
CCC	Ethylbenzene	524.2	0.5			9.9850	10.0	ug/L	100	70 - 130	--	--	1.0	--	03/23/2018 19:51	3896167
CCC	Naphthalene	524.2	0.5			10.3290	10.0	ug/L	103	70 - 130	--	--	1.0	--	03/23/2018 19:51	3896167
CCC	Styrene	524.2	0.5			10.2160	10.0	ug/L	102	70 - 130	--	--	1.0	--	03/23/2018 19:51	3896167
CCC	Toluene	524.2	0.5			9.6470	10.0	ug/L	96	70 - 130	--	--	1.0	--	03/23/2018 19:51	3896167
CCC	Tetrachloroethylene	524.2	0.5			9.8510	10.0	ug/L	99	70 - 130	--	--	1.0	--	03/23/2018 19:51	3896167
CCC	1,2,4-Trichlorobenzene	524.2	0.5			9.5810	10.0	ug/L	96	70 - 130	--	--	1.0	--	03/23/2018 19:51	3896167
CCC	1,1,1-Trichloroethane	524.2	0.5			9.8170	10.0	ug/L	98	70 - 130	--	--	1.0	--	03/23/2018 19:51	3896167
CCC	1,1,2-Trichloroethane	524.2	0.5			10.1520	10.0	ug/L	102	70 - 130	--	--	1.0	--	03/23/2018 19:51	3896167
CCC	Trichloroethylene	524.2	0.5			9.4240	10.0	ug/L	84	70 - 130	--	--	1.0	--	03/23/2018 19:51	3896167
CCC	Vinyl chloride	524.2	0.2			10.1620	10.0	ug/L	102	70 - 130	--	--	1.0	--	03/23/2018 19:51	3896167
CCC	1,2-Xylene	524.2	0.5			9.8330	10.0	ug/L	96	70 - 130	--	--	1.0	--	03/23/2018 19:51	3896167
CCC	1,3 + 1,4-Xylene	524.2	0.5			19.6670	20.0	ug/L	98	70 - 130	--	--	1.0	--	03/23/2018 19:51	3896167



Eaton Analytical

Eurofins Eaton Analytical

Run Log

Run ID: 241218 Method: 525.2

<u>Type</u>	<u>Sample Id</u>	<u>Sample Site</u>	<u>Matrix</u>	<u>Instrument ID</u>	<u>Analysis Date</u>	<u>Calibration File</u>
CCC	3896814		OS	DO	03/26/2018 15:11	525 2-DO-101216a-up1.mth
CCC	3896815		OS	DO	03/26/2018 15:53	525 2-DO-101216a-up1.mth
CCC	3896816		OS	DO	03/26/2018 16:35	525 2-DO-101216a-up1.mth
LFB	3896809		RW	DO	03/26/2018 17:17	525 2-DO-101216a-up1.mth
LFB	3896810		RW	DO	03/26/2018 17:59	525 2-DO-101216a-up1.mth
LFB	3896811		RW	DO	03/26/2018 18:41	525 2-DO-101216a-up1.mth
LMB	3896807		RW	DO	03/26/2018 19:23	525 2-DO-101216a-up1.mth
FS	3895752	18-03920, JBPHH Red Hill	DW	DO	03/26/2018 20:05	525 2-DO-101216a-up1.mth

QC Summary Report

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	DH Factor	Extracted	Analyzed	EEA ID #
CCC	IS-Chrysene-d12	525.2	N/A	--		2865000	2865000	ug/L	100	50 - 150	--	--	1.0	03/26/2018 06:08	03/26/2018 15:11	3896814
CCC	IS-Phenanthrene-d10	525.2	N/A	--		4561000	4561000	ug/L	100	50 - 150	--	--	1.0	03/26/2018 06:08	03/26/2018 15:11	3896814
CCC	IS-Pyrene-d10	525.2	N/A	--		3218000	3218000	ug/L	100	50 - 150	--	--	1.0	03/26/2018 06:08	03/26/2018 15:11	3896814
CCC	SS-4,4'-Dichlorobiphenyl	525.2	N/A	--		4.2000	5.0	ug/L	84	70 - 130	--	--	1.0	03/26/2018 06:08	03/26/2018 15:11	3896814
CCC	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	--		5.2400	5.0	ug/L	105	70 - 130	--	--	1.0	03/26/2018 06:08	03/26/2018 15:11	3896814
CCC	SS-Triphenylphosphate	525.2	N/A	--		5.6710	5.0	ug/L	113	70 - 130	--	--	1.0	03/26/2018 06:08	03/26/2018 15:11	3896814
CCC	Acenaphthene	525.2	0.1	--		3.7410	5.0	ug/L	75	72 - 122	--	--	1.0	03/26/2018 06:08	03/26/2018 15:11	3896814
CCC	Acenaphthylene	525.2	0.1	--		4.0530	5.0	ug/L	81	70 - 130	--	--	1.0	03/26/2018 06:08	03/26/2018 15:11	3896814
CCC	Anthracene	525.2	0.1	--		4.7070	5.0	ug/L	94	70 - 130	--	--	1.0	03/26/2018 06:08	03/26/2018 15:11	3896814
CCC	Phenanthrene	525.2	0.1	--		4.0180	5.0	ug/L	80	70 - 130	--	--	1.0	03/26/2018 06:08	03/26/2018 15:11	3896814
CCC	Pyrene	525.2	0.1	--		4.4460	5.0	ug/L	89	70 - 130	--	--	1.0	03/26/2018 06:08	03/26/2018 15:11	3896814
CCC	IS-Chrysene-d12	525.2	N/A	--		2322000	2322000	ug/L	100	50 - 150	--	--	1.0	03/26/2018 06:08	03/26/2018 15:53	3896815
CCC	IS-Phenanthrene-d10	525.2	N/A	--		3915000	3915000	ug/L	100	50 - 150	--	--	1.0	03/26/2018 06:08	03/26/2018 15:53	3896815
CCC	IS-Pyrene-d10	525.2	N/A	--		2829000	2829000	ug/L	100	50 - 150	--	--	1.0	03/26/2018 06:08	03/26/2018 15:53	3896815
CCC	SS-4,4'-Dichlorobiphenyl	525.2	N/A	--		5.0800	5.0	ug/L	102	70 - 130	--	--	1.0	03/26/2018 06:08	03/26/2018 15:53	3896815
CCC	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	--		4.6950	5.0	ug/L	94	70 - 130	--	--	1.0	03/26/2018 06:08	03/26/2018 15:53	3896815
CCC	SS-Triphenylphosphate	525.2	N/A	--		5.7780	5.0	ug/L	116	70 - 130	--	--	1.0	03/26/2018 06:08	03/26/2018 15:53	3896815
CCC	Fluoranthene	525.2	0.1	--		5.1740	5.0	ug/L	103	73 - 122	--	--	1.0	03/26/2018 06:08	03/26/2018 15:53	3896815
CCC	IS-Chrysene-d12	525.2	N/A	--		2658000	2658000	ug/L	100	50 - 150	--	--	1.0	03/26/2018 06:08	03/26/2018 16:35	3896816
CCC	IS-Phenanthrene-d10	525.2	N/A	--		4157000	4157000	ug/L	100	50 - 150	--	--	1.0	03/26/2018 06:08	03/26/2018 16:35	3896816
CCC	IS-Pyrene-d10	525.2	N/A	--		2871000	2871000	ug/L	100	50 - 150	--	--	1.0	03/26/2018 06:08	03/26/2018 16:35	3896816
CCC	SS-4,4'-Dichlorobiphenyl	525.2	N/A	--		5.5350	5.0	ug/L	111	70 - 130	--	--	1.0	03/26/2018 06:08	03/26/2018 16:35	3896816
CCC	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	--		4.5780	5.0	ug/L	92	70 - 130	--	--	1.0	03/26/2018 06:08	03/26/2018 16:35	3896816
CCC	SS-Triphenylphosphate	525.2	N/A	--		5.6840	5.0	ug/L	114	70 - 130	--	--	1.0	03/26/2018 06:08	03/26/2018 16:35	3896816
CCC	Benzol(a)pyrene	525.2	0.02	--		5.9450	5.0	ug/L	118	70 - 130	--	--	1.0	03/26/2018 06:08	03/26/2018 16:35	3896816
CCC	D(2-ethylhexyl)adipate	525.2	0.8	--		5.8940	5.0	ug/L	118	70 - 130	--	--	1.0	03/26/2018 06:08	03/26/2018 16:35	3896816
CCC	D(2-ethylhexyl)phthalate	525.2	0.8	--		6.0250	5.0	ug/L	120	70 - 130	--	--	1.0	03/26/2018 06:08	03/26/2018 16:35	3896816
LFB	IS-Chrysene-d12	525.2	N/A	--		2435000	2659000	ug/L	92	70 - 130	--	--	1.0	03/26/2018 06:08	03/26/2018 17:17	3896809
LFB	IS-Phenanthrene-d10	525.2	N/A	--		3813000	4157000	ug/L	92	70 - 130	--	--	1.0	03/26/2018 06:08	03/26/2018 17:17	3896809
LFB	IS-Pyrene-d10	525.2	N/A	--		2901000	2971000	ug/L	98	70 - 130	--	--	1.0	03/26/2018 06:08	03/26/2018 17:17	3896809
LFB	SS-4,4'-Dichlorobiphenyl	525.2	N/A	--		5.1230	5.0	ug/L	102	70 - 130	--	--	1.0	03/26/2018 06:08	03/26/2018 17:17	3896809
LFB	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	--		4.4230	5.0	ug/L	88	70 - 130	--	--	1.0	03/26/2018 06:08	03/26/2018 17:17	3896809
LFB	SS-Triphenylphosphate	525.2	N/A	--		5.6780	5.0	ug/L	114	70 - 130	--	--	1.0	03/26/2018 06:08	03/26/2018 17:17	3896809
LFB	Fluoranthene	525.2	0.1	--		5.2820	5.0	ug/L	106	74 - 125	--	--	1.0	03/26/2018 06:08	03/26/2018 17:17	3896809
LFB	IS-Chrysene-d12	525.2	N/A	--		2562000	2659000	ug/L	96	70 - 130	--	--	1.0	03/26/2018 06:08	03/26/2018 17:59	3896810
LFB	IS-Phenanthrene-d10	525.2	N/A	--		3851000	4157000	ug/L	95	70 - 130	--	--	1.0	03/26/2018 06:08	03/26/2018 17:59	3896810
LFB	IS-Pyrene-d10	525.2	N/A	--		2851000	2971000	ug/L	99	70 - 130	--	--	1.0	03/26/2018 06:08	03/26/2018 17:59	3896810
LFB	SS-4,4'-Dichlorobiphenyl	525.2	N/A	--		5.2450	5.0	ug/L	105	70 - 130	--	--	1.0	03/26/2018 06:08	03/26/2018 17:59	3896810
LFB	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	--		4.3860	5.0	ug/L	86	70 - 130	--	--	1.0	03/26/2018 06:08	03/26/2018 17:59	3896810
LFB	SS-Triphenylphosphate	525.2	N/A	--		5.9330	5.0	ug/L	118	70 - 130	--	--	1.0	03/26/2018 06:08	03/26/2018 17:59	3896810

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	DII Factor	Extracted	Analyzed	EEA ID #
LFB	Benzo(a)pyrene	525.2	0.02	--		5.7480	5.0	ug/L	115	70 - 130	---	---	1.0	03/26/2018 08:08	03/26/2018 17:59	3896810
LFB	Di(2-ethylhexyl)adipate	525.2	0.6	--		5.9800	5.0	ug/L	120	70 - 130	---	---	1.0	03/26/2018 08:08	03/26/2018 17:59	3896810
LFB	Di(2-ethylhexyl)phthalate	525.2	0.6	--		6.1940	5.0	ug/L	124	70 - 130	---	---	1.0	03/26/2018 08:08	03/26/2018 17:59	3896810
LFB	IS-Chrysene-d12	525.2	N/A	--		2527000	2659000	ug/L	95	70 - 130	---	---	1.0	03/26/2018 08:08	03/26/2018 18:41	3896811
LFB	IS-Phenanthrene-d10	525.2	N/A	--		3907000	4157000	ug/L	94	70 - 130	---	---	1.0	03/26/2018 08:08	03/26/2018 18:41	3896811
LFB	IS-Pyrene-d10	525.2	N/A	--		2928000	2971000	ug/L	99	70 - 130	---	---	1.0	03/26/2018 08:08	03/26/2018 18:41	3896811
LFB	SS-4,4'-Dichlorobiphenyl	525.2	N/A	--		4.1750	5.0	ug/L	84	70 - 130	---	---	1.0	03/26/2018 08:08	03/26/2018 18:41	3896811
LFB	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	--		5.1130	5.0	ug/L	102	70 - 130	---	---	1.0	03/26/2018 08:08	03/26/2018 18:41	3896811
LFB	SS-Triphenylphosphate	525.2	N/A	--		5.7550	5.0	ug/L	115	70 - 130	---	---	1.0	03/26/2018 08:08	03/26/2018 18:41	3896811
LFB	Acenaphthene	525.2	0.1	--		3.7660	5.0	ug/L	75	58 - 116	---	---	1.0	03/26/2018 08:08	03/26/2018 18:41	3896811
LFB	Acenaphthylene	525.2	0.1	--		4.0050	5.0	ug/L	80	70 - 130	---	---	1.0	03/26/2018 08:08	03/26/2018 18:41	3896811
LFB	Anthracene	525.2	0.1	--		4.5230	5.0	ug/L	90	70 - 130	---	---	1.0	03/26/2018 08:08	03/26/2018 18:41	3896811
LFB	Phenanthrene	525.2	0.1	--		4.1380	5.0	ug/L	83	70 - 130	---	---	1.0	03/26/2018 08:08	03/26/2018 18:41	3896811
LFB	Pyrene	525.2	0.1	--		4.5250	5.0	ug/L	90	70 - 130	---	---	1.0	03/26/2018 08:08	03/26/2018 18:41	3896811
LMB	IS-Chrysene-d12	525.2	N/A	--		2005000	2659000	ug/L	75	70 - 130	---	---	0.98	03/26/2018 08:08	03/26/2018 19:23	3896807
LMB	IS-Phenanthrene-d10	525.2	N/A	--		3443000	4157000	ug/L	83	70 - 130	---	---	0.98	03/26/2018 08:08	03/26/2018 19:23	3896807
LMB	IS-Pyrene-d10	525.2	N/A	--		2843000	2971000	ug/L	89	70 - 130	---	---	0.98	03/26/2018 08:08	03/26/2018 19:23	3896807
LMB	SS-4,4'-Dichlorobiphenyl	525.2	N/A	--		5.2350	5.0	ug/L	107	70 - 130	---	---	0.98	03/26/2018 08:08	03/26/2018 19:23	3896807
LMB	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	--		5.1600	5.0	ug/L	105	70 - 130	---	---	0.98	03/26/2018 08:08	03/26/2018 19:23	3896807
LMB	SS-Triphenylphosphate	525.2	N/A	--		5.9230	5.0	ug/L	121	70 - 130	---	---	0.98	03/26/2018 08:08	03/26/2018 19:23	3896807
LMB	Acenaphthene	525.2	0.1	--	<	0.1		ug/L	--		---	---	0.98	03/26/2018 08:08	03/26/2018 19:23	3896807
LMB	Acenaphthylene	525.2	0.1	--	<	0.1		ug/L	--		---	---	0.98	03/26/2018 08:08	03/26/2018 19:23	3896807
LMB	Anthracene	525.2	0.1	--	<	0.1		ug/L	--		---	---	0.98	03/26/2018 08:08	03/26/2018 19:23	3896807
LMB	Benzo(a)pyrene	525.2	0.02	--	<	0.02		ug/L	--		---	---	0.98	03/26/2018 08:08	03/26/2018 19:23	3896807
LMB	Di(2-ethylhexyl)adipate	525.2	0.6	--	<	0.6		ug/L	--		---	---	0.98	03/26/2018 08:08	03/26/2018 19:23	3896807
LMB	Di(2-ethylhexyl)phthalate	525.2	0.6	--	<	0.6		ug/L	--		---	---	0.98	03/26/2018 08:08	03/26/2018 19:23	3896807
LMB	Fluoranthene	525.2	0.1	--	<	0.1		ug/L	--		---	---	0.98	03/26/2018 08:08	03/26/2018 19:23	3896807
LMB	Phenanthrene	525.2	0.1	--	<	0.1		ug/L	--		---	---	0.98	03/26/2018 08:08	03/26/2018 19:23	3896807
LMB	Pyrene	525.2	0.1	--	<	0.1		ug/L	--		---	---	0.98	03/26/2018 08:08	03/26/2018 19:23	3896807
FS	IS-Chrysene-d12	525.2	N/A	16-03920_BPHH Red H#		2305000	2659000	ug/L	87	70 - 130	---	---	0.97	03/26/2018 08:08	03/26/2018 20:05	3895752
FS	IS-Phenanthrene-d10	525.2	N/A	16-03920_BPHH Red H#		3552000	4157000	ug/L	85	70 - 130	---	---	0.97	03/26/2018 08:08	03/26/2018 20:05	3895752
FS	IS-Pyrene-d10	525.2	N/A	16-03920_BPHH Red H#		2667000	2971000	ug/L	90	70 - 130	---	---	0.97	03/26/2018 08:08	03/26/2018 20:05	3895752
FS	SS-4,4'-Dichlorobiphenyl	525.2	N/A	16-03920_BPHH Red H#		5.2800	5.0	ug/L	109	70 - 130	---	---	0.97	03/26/2018 08:08	03/26/2018 20:05	3895752
FS	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	16-03920_BPHH Red H#		5.2190	5.0	ug/L	108	70 - 130	---	---	0.97	03/26/2018 08:08	03/26/2018 20:05	3895752
FS	SS-Triphenylphosphate	525.2	N/A	16-03920_BPHH Red H#		5.4410	5.0	ug/L	112	70 - 130	---	---	0.97	03/26/2018 08:08	03/26/2018 20:05	3895752
FS	Acenaphthene	525.2	0.1	16-03920_BPHH Red H#	<	0.1		ug/L	--		---	---	0.97	03/26/2018 08:08	03/26/2018 20:05	3895752
FS	Acenaphthylene	525.2	0.1	16-03920_BPHH Red H#	<	0.1		ug/L	--		---	---	0.97	03/26/2018 08:08	03/26/2018 20:05	3895752
FS	Anthracene	525.2	0.1	16-03920_BPHH Red H#	<	0.1		ug/L	--		---	---	0.97	03/26/2018 08:08	03/26/2018 20:05	3895752
FS	Benzo(a)pyrene	525.2	0.02	16-03920_BPHH Red H#	<	0.02		ug/L	--		---	---	0.97	03/26/2018 08:08	03/26/2018 20:05	3895752
FS	Di(2-ethylhexyl)adipate	525.2	0.6	16-03920_BPHH Red H#	<	0.6		ug/L	--		---	---	0.97	03/26/2018 08:08	03/26/2018 20:05	3895752
FS	Di(2-ethylhexyl)phthalate	525.2	0.6	16-03920_BPHH Red H#	<	0.6		ug/L	--		---	---	0.97	03/26/2018 08:08	03/26/2018 20:05	3895752

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	DII Factor	Extracted	Analyzed	EEA ID #
FS	Fluoranthene	525.2	0.1	18-03920_JBPHH Red H8	<	0.1		ug/L	--	--	--	--	0.97	03/26/2018 08:08	03/26/2018 20:05	3895752
FS	Phenanthrene	525.2	0.1	18-03920_JBPHH Red H8	<	0.1		ug/L	--	--	--	--	0.97	03/26/2018 08:08	03/26/2018 20:05	3895752
FS	Pyrene	525.2	0.1	18-03920_JBPHH Red H8	<	0.1		ug/L	--	--	--	--	0.97	03/26/2018 08:08	03/26/2018 20:05	3895752

Sample Type Key

<u>Type (Abbr.)</u>	<u>Sample Type</u>	<u>Type (Abbr.)</u>	<u>Sample Type</u>
CCV	Continuing Cali. Verification		
CCB	Continuing Calibration Blank		
CCC	Continuing Calibration Check		
CCL	Continuing Calibration Low		
FD	Field Duplicate		
FS	Field Sample		
ICV	Initial Cali. Verification		
ICB	Initial Calibration Blank		
LFB	Laboratory Fortified Blank		
LMB	Laboratory Method Blank		
LRB	Laboratory Reagent Blank		
LTB	Laboratory Trip Blank		
QCS	Quality Control Sample		

END OF REPORT



NAVFAC HAWAII ENVIRONMENTAL SERVICES LABORATORY CHAIN-OF-CUSTODY

Navy Facilities Engineering Command, Hawaii, Pearl Harbor, Hawaii Phone: (808) 474-3704, FAX: (808) 471-4534

JON: 178014602018	ESM: Kyle Teraoka	POC: Kyle Teraoka	PIH#: 473-3160	FAX#: 473-1545
Report To: Kyle Teraoka	Copy To: Ravi Mohandie			
NAVFAC HI OPBP6		NAVFAC HI EV1		
kyle.teraoka@navy.mil		ravi.mohandie@navy.mil		

Sample ID	Sample Description	Matrix Code	Sampling		Container		Analysis Required	Preservative / Res. Cl (ppm)	pH	FOR LAB USE ONLY			Cond.
			Date	Time	Vol	Type				Lab Number	Ext.	Lctn.	
Joint Base Pearl Harbor-Hickam (360-011)	Red Hill, TP001, Tap outside the C12 Bldg	DW	3/20/2018	0725	3x40mL	Glass	Volatiles (524.2)	Ascorbic, HCl			1-3	C	✓
Trip Blank					2x1L	Glass	Semi-Volatiles (525.2)	Sulfite, HCl			4-5	C	✓
					3x40mL	Glass	TPII as Diesel (JP-8) (8015)				6-8	C	✓
					125mL	Plastic	Lead (200.8)	HNO ₃ , pH<2			9	C	✓
					2x40mL	Glass	Volatiles	Ascorbic, HCl			1-2	C	✓

Sampling Information	Transportation Information	Unused Sample Disposition
Location Sampled: Red Hill	Transported/Stored in: Cooler with ice	<input checked="" type="checkbox"/> Received with CoC
Sampler(s): (Print names clearly) K. Miyaki	Cooler Temp: _____ °C Air bill/Carrier ID#: _____	<input type="checkbox"/> Return to customer <input checked="" type="checkbox"/> Dispose at 60 Days <input type="checkbox"/> Archive for _____ Days <input type="checkbox"/> Contact before disposal

Remarks: Any EPA approved drinking water method for organic chemicals, 40 CFR 141.24, may be used.
Laboratory must certified by the Hawaii State DOH Drinking Water Program.

Relinquished By: (Print clearly & Sign) K. Miyaki <i>Kingid</i>	Date 3/20/18	Time 1245	Received By: (Print clearly & Sign) <i>L. Mohandie</i>	Date 3/20/18	Time 1245
--------------------------------------------------------------------	-----------------	--------------	-----------------------------------------------------------	-----------------	--------------

MEMORANDUM

16 Jul 18

Packet No: 18-064520716

From: NAVFAC HAWAII, Environmental Services Laboratory, PRP411

To: Kyle Teraoka NAVFACHI OPBP6

Copy To: Ravi Mohandie NAVFAC HI, EV1

Subj: LABORATORY REPORTS
 MISCELLANEOUS CHARGES AND/OR CHAIN(S) OF CUSTODY SHEETS

Encl: Lab Number(s) 18-06452 , 18-06453

1. Thank you for using our laboratory to provide you with quality test results and/or services.
2. Please take a few minutes and check over the enclosures. If you believe anything is missing or in need of correction, let us know immediately and we will send you a correction as soon as possible.
3. Our goal is to better serve all our customers and we are concerned that you are receiving our services in the most efficient and timely manner possible. Please acknowledge receipt by signing below and returning this memo so we will know that you have received the enclosures. Also feel free to include any comments you have concerning our services. You may return this memo to us through the guardmail (NAVFAC HI PRP411) or fax it to 471-4534.
4. After the laboratory reports are archived, additional copies are available with an archival fee of \$72.00/hr. If you have any questions, please contact us at 474-3704 or at the above fax number.

~~5. Laboratory certifies that the results meet all A2LA requirements unless noted in the "remarks" section of the report.~~

UAB
7/16/18



Duane Morita, Acting Laboratory Manager

TOTAL NO. OF PAGES: 35

To: NAVFAC HI PRP4

Receipt acknowledged. Enclosures appear complete and acceptable.

Comments/discrepancies noted.

Please fax corrections/amendments to Fax#: _____
or guardmail to: _____

Customer's Signature/Date: _____

LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

This report may not be reproduced, except in full, without written approval from EEA.

STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Missouri	880
Alaska	IN00035	Montana	CERT0026
Arizona	AZ0432	Nebraska	NE-OS-05-04
Arkansas	IN00035	Nevada	IN00035
California	2920	New Hampshire*	2124
Colorado	IN035	New Jersey*	IN598
Colorado Radiochemistry	IN035	New Mexico	IN00035
Connecticut	PH-0132	New York*	11398
Delaware	IN035	North Carolina	18700
Florida*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon (Primary AB)*	4074-001
Illinois*	200001	Pennsylvania*	68-00466
Illinois Microbiology	17767	Puerto Rico	IN00035
Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
Iowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187-15-8
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA180008	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
EPA	IN00035		

*NELAP/TNI Recognized Accreditation Bodies

LABORATORY CASE NARRATIVE

Client: NAVFAC Hawaii

Report #: 420118CN

All method QC was within acceptance limits.

Note: This report may not be reproduced, except in full, without written approval from EEA.

Kelly Blackburn ASM 06/27/2018

Authorized Signature Title Date
Page 1 of 1

Sample Analysis Report

Client: NAVFAC Hawaii
Contact: Duane Morita
 Environmental Lab Code PRJ411
 Building 1423
 Central Ave.
 JBPHH, Hawaii 96860
 Voice: (808)-474-0768

Order No.: 338375
Receipt Batch No.: 420118

Analytical Method Summary:

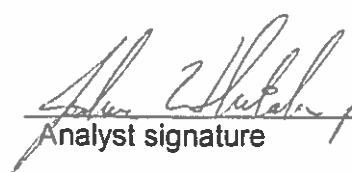
Headspace analysis GC/FID – The sample was analyzed as received. 15 mL sample was pipetted into a 20 mL headspace vial containing 4 grams of sodium chloride. 10 µL of 5.5% isopropyl alcohol was added to the sample. Isopropyl alcohol was used as an internal standard. The sample was capped and heated to 75 °C for 30 minutes. The headspace was then sampled and analyzed using a modified EPA Method 8015B, a headspace GC/FID technique. The calibration concentration range was 0.05-4 mg/L. A quadratic calibration was used with a correlation coefficient (r^2) of 0.99. The minimum reporting level (MRL) was 0.1 mg/L.

For quantitation of JP-8 Fuel, the analysis included a set of initial calibration standards, an initial continuing calibration check (CCC) at 0.1 mg/L, a laboratory method blank (LMB), a matrix spike (MS) at 1.0 mg/L, and a closing CCC at 1.0 mg/L at the end of the run.


LAB SAMPLE ID: 3968426

SAMPLE SITE: 18-06452,JBPHHRedHill TP001360-011

Analyte	MRL (mg/L)	Sample Result (mg/L)	LMB Result (mg/L)	MS Recovery (%)	Initial CCC Recovery (%)	Closing CCC Recovery (%)
JP-8 Fuel	0.1	< 0.1	< 0.1	80	104	118


 Analyst signature

 Date 06-27-2018


 Reviewer signature

 Date 06/27/2018



Eaton Analytical

110 S. Hill Street
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order # 338375
Batch # 4 2018

www.eatonanalytical.com

CHAIN OF CUSTODY RECORD

Page 2 of 2

REPORT TO: NAVFAC Hawaii

BILL TO: NAVFAC Hawaii

LAB Number	COLLECTION		SAMPLER (Signature)	COMPLIANCE MONITORING	Yes	No	POPULATION SERVED	STATE (sample origin)	PROJECT NAME	PO#	CHLORINATED	TURNAROUND TIME
	DATE	TIME										
1	06/19/18	0915	18-06452 JBPHH Red Hill				HI				X	DW RV
2			TP001-360-011				GW					
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												

TEST NAME: TPH as Diesel (P-8) (8015)

SAMPLING SITE: Red Hill

TEST NAME: PUSH VERBAL

RELINQUISHED BY (Signature): *Dan White* DATE: 06/19/18 TIME: 1430 AM

RECEIVED BY (Signature): FedEx DATE: DATE TIME: AM | PM

RELINQUISHED BY (Signature): *KRW* DATE: 6-21-18 TIME: 0830 AM

RECEIVED FOR LABORATORY BY: DATE: DATE TIME: AM | PM

LAB COMMENTS: LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF HIGH-AQUEOUS SAMPLES TO CLIENT

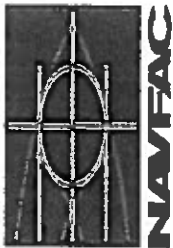
CONDITIONS UPON RECEIPT (check one):
 Icd, Wet/Blue
 Ambient
 °C Upon Receipt
 N/A

MATRIX CODES:
 DW-DRINKING WATER
 RW-REAGENT WATER
 GW-GROUND WATER
 EW-EXPOSURE WATER
 SW-SURFACE WATER
 PW-POOL WATER
 WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES:
 SW = Standard Writen (15 working days) 0%
 RW = Rush Writen (5 working days) 50%
 RW* = Rush Writen (5 working days) 75%
 N* = Immediate Verbal (3 working days) 100%
 RW* = Immediate Writen (3 working days) 125%
 SP* = Weekend Holiday CALL
 STAT* = Less than 48 hours CALL

Sample analysis will be provided according to the standard EEA Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agree to in writing by EEA.

06-LO-F0435 Issue 4.0 Effective Date 2014-05-01



NAVFAC HAWAII ENVIRONMENTAL SERVICES LABORATORY CHAIN-OF-CUSTODY

Navy Facilities Engineering Command, Hawaii, Pearl Harbor, Hawaii Phone: (808) 474-3704, FAX: (808) 471-4534

JON: 178014602018	ESM:	POC: Kyle Teraoka	PIH#: 473-3160	FAX#: 473-1545
Report To: Kyle Teraoka	Copy To: Ravi Mohandie			
NAVFAC HI OPBP6	NAVFAC HI EV1			
kyle.teraoka@navy.mil	ravi.mohandie@navy.mil			

Sample ID	Sample Description	Matrix Code	Sampling		Container		Analysis Required	Preservative Res. Cl (ppm)	pH	FOR LAB USE ONLY		Cond. A U
			Date	Time	Vol	Type				Lab Number	Exl.	
Joint Base Pearl Harbor-Hickam (360-011)	Red Hill, TP001, Tap outside the C12 Bldg	DW	6/19/2018	09:15	2x1L	Glass	Volatiles (524.2)	Ascorbic, HCl			1-3	C
Trip Blank			5/23/2018		3x40ml	Glass	Semi-Volatiles (525.2)	Sulfite, HCl			4-5	C
					125ml	Plastic	PH as Diesel (JP-8) (8015)				6-8	C
					2x40ml	Glass	Lead (200.8)	HNO ₃ , pH=2			9	C
							Volatiles	Ascorbic, HCl			1-2	C

Sampling Information Location Sampled: Red Hill Sampler(s): (Print names clearly) K. Miyaki	Transportation Information Transported/Stored in: Cooler with ice Cooler Temp: _____ °C Air bill/Carrier ID#: _____	Sample Condition <input checked="" type="checkbox"/> Received with CoC <input type="checkbox"/> Received with Custody Seals <input type="checkbox"/> Seals Required <input type="checkbox"/> Seals Intact <input type="checkbox"/> Labels and CoC agree
-------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Remarks: Any EPA approved drinking water method for organic chemicals, 40 CFR 141.24, may be used.
 Laboratory must be certified by the Hawaii State DOH Drinking Water Program.

Relinquished By: (Print clearly & Sign) K. Miyaki	Date 6/19/18	Time 1315	Received By: (Print clearly & Sign) K. Teraoka	Date 6/19/18	Time 1315
------------------------------------------------------	-----------------	--------------	---------------------------------------------------	-----------------	--------------

SENDER

Name: Duane Morita .Phone: (808) 474-3704

Company: NAVFAC Hawaii

Address: Environmental Lab, PRJ411

Address: Bldg 1423, Central Avenue

City: JBPHH . State: HI . Zip Code: 96860 .

Email: duane.morita@navy.mil

RECIPIENT

Name: Donna Martis . Phone: (574) 233-4777

Company: Eurofins Eaton Ana - South Bend .

Address: 110 S. Hill Street

Address: _____

City: South Bend . State : IN Zip Code: 46617

Fedex Account #: 3594-2662-3

Email: KellyBlackburn@EurofinsUS.com

Signature: Yes X . No _____ \$ Value: 30.00

END OF REPORT

LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

This report may not be reproduced, except in full, without written approval from EEA.

STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Missouri	880
Alaska	IN00035	Montana	CERT0026
Arizona	AZ0432	Nebraska	NE-OS-05-04
Arkansas	IN00035	Nevada	IN00035
California	2920	New Hampshire*	2124
Colorado	IN035	New Jersey*	IN598
Colorado Radiochemistry	IN035	New Mexico	IN00035
Connecticut	PH-0132	New York*	11398
Delaware	IN035	North Carolina	18700
Florida*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon (Primary AB)*	4074-001
Illinois*	200001	Pennsylvania*	68-00466
Illinois Microbiology	17767	Puerto Rico	IN00035
Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
Iowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187-15-8
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA180008	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
EPA	IN00035		

*NELAP/TNI Recognized Accreditation Bodies

110 South Hill Street
 South Bend, IN 46617
 Tel: (574) 233-4777
 Fax: (574) 233-8207
 1 800 332 4345

Laboratory Report

Client: NAVFAC Hawaii
 Attn: Duane Morita
 Environmental Lab, Code PRJ411
 Building 1423, Central Avenue
 JBPHH, HI 96860

Report: 420117
 Priority: Rush Verbal
 Status: Final
 PWS ID: HI0000360

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
3968420	18-06452, JBPHH Red Hill	524.2	06/19/18 09:15	Client	06/21/18 08:30
3968421	18-06452, JBPHH Red Hill	525.2	06/19/18 09:15	Client	06/21/18 08:30
3968422	18-06452, JBPHH Red Hill	200.8	06/19/18 09:15	Client	06/21/18 08:30

Report Summary

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Kelly Blackburn at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

Kelly Blackburn A.S.M.

Authorized Signature

Title

06/28/2018

Date

Client Name: NAVFAC Hawaii

Report #: 420117

Sampling Point: 18-06452, JBPHH Red Hill

PWS ID: HI0000360

Metals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
7439-92-1	Lead	200.8	15 l	1.0	< 1.0	ug/L	—	06/25/18 15:52	3968422

Semi-volatile Organic Chemicals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
83-32-9	Acenaphthene \$	525.2	—	0.1	< 0.1	ug/L	06/26/18 08:55	06/27/18 23:08	3968421
208-96-8	Acenaphthylene \$	525.2	—	0.1	< 0.1	ug/L	06/26/18 08:55	06/27/18 23:08	3968421
120-12-7	Anthracene \$	525.2	—	0.1	< 0.1	ug/L	06/26/18 08:55	06/27/18 23:08	3968421
50-32-8	Benzo(a)pyrene	525.2	0.2 *	0.02	< 0.02	ug/L	06/26/18 08:55	06/27/18 23:08	3968421
103-23-1	Di(2-ethylhexyl)adipate	525.2	400 *	0.6	< 0.6	ug/L	06/26/18 08:55	06/27/18 23:08	3968421
117-81-7	Di(2-ethylhexyl)phthalate	525.2	6 *	0.6	< 0.6	ug/L	06/26/18 08:55	06/27/18 23:08	3968421
206-44-0	Fluoranthene \$	525.2	---	0.1	< 0.1	ug/L	06/26/18 08:55	06/27/18 23:08	3968421
85-01-8	Phenanthrene \$	525.2	---	0.1	< 0.1	ug/L	06/26/18 08:55	06/27/18 23:08	3968421
129-00-0	Pyrene \$	525.2	---	0.1	< 0.1	ug/L	06/26/18 08:55	06/27/18 23:08	3968421

Volatile Organic Chemicals									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
71-43-2	Benzene	524.2	5 *	0.5	< 0.5	ug/L	---	06/25/18 18:52	3968420
56-23-5	Carbon tetrachloride	524.2	5 *	0.5	< 0.5	ug/L	---	06/25/18 18:52	3968420
108-90-7	Chlorobenzene	524.2	100 *	0.5	< 0.5	ug/L	---	06/25/18 18:52	3968420
95-50-1	1,2-Dichlorobenzene	524.2	600 *	0.5	< 0.5	ug/L	---	06/25/18 18:52	3968420
106-46-7	1,4-Dichlorobenzene	524.2	75 *	0.5	< 0.5	ug/L	---	06/25/18 18:52	3968420
107-06-2	1,2-Dichloroethane	524.2	5 *	0.5	< 0.5	ug/L	---	06/25/18 18:52	3968420
75-35-4	1,1-Dichloroethylene	524.2	7 *	0.5	< 0.5	ug/L	---	06/25/18 18:52	3968420
156-59-2	cis-1,2-Dichloroethylene	524.2	70 *	0.5	< 0.5	ug/L	---	06/25/18 18:52	3968420
156-60-5	trans-1,2-Dichloroethylene	524.2	100 *	0.5	< 0.5	ug/L	---	06/25/18 18:52	3968420
75-09-2	Dichloromethane	524.2	5 *	0.5	< 0.5	ug/L	---	06/25/18 18:52	3968420
78-87-5	1,2-Dichloropropane	524.2	5 *	0.5	< 0.5	ug/L	---	06/25/18 18:52	3968420
100-41-4	Ethylbenzene	524.2	700 *	0.5	< 0.5	ug/L	---	06/25/18 18:52	3968420
91-20-3	Naphthalene	524.2	---	0.5	< 0.5	ug/L	---	06/25/18 18:52	3968420
100-42-5	Styrene	524.2	100 *	0.5	< 0.5	ug/L	---	06/25/18 18:52	3968420
127-18-4	Tetrachloroethylene	524.2	5 *	0.5	< 0.5	ug/L	---	06/25/18 18:52	3968420
108-88-3	Toluene	524.2	1000 *	0.5	< 0.5	ug/L	---	06/25/18 18:52	3968420
120-82-1	1,2,4-Trichlorobenzene	524.2	70 *	0.5	< 0.5	ug/L	---	06/25/18 18:52	3968420
71-55-6	1,1,1-Trichloroethane	524.2	200 *	0.5	< 0.5	ug/L	---	06/25/18 18:52	3968420
79-00-5	1,1,2-Trichloroethane	524.2	5 *	0.5	< 0.5	ug/L	---	06/25/18 18:52	3968420
79-01-6	Trichloroethylene	524.2	5 *	0.5	< 0.5	ug/L	---	06/25/18 18:52	3968420
75-01-4	Vinyl chloride	524.2	2 *	0.2	< 0.2	ug/L	---	06/25/18 18:52	3968420
95-47-6	1,2-Xylene	524.2	---	0.5	< 0.5	ug/L	---	06/25/18 18:52	3968420
179601-23-1	1,3 + 1,4-Xylene	524.2	---	0.5	< 0.5	ug/L	---	06/25/18 18:52	3968420
1330-20-7	Xylenes, Total	524.2	10000 *	0.5	< 0.5	ug/L	---	06/25/18 18:52	3968420

\$ The state of origin does not offer certification for this parameter.

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.



Eaton Analytical

110 S. Hill Street
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order # 338375
Batch # 420117

www.eatonanalytical.com

CHAIN OF CUSTODY RECORD

Page 1 of 2

Shaded area for EEA use only

LAB Number	COLLECTION		SAMPLER (Signature)	COMPLIANCE MONITORING	SAMPLING SITE	TEST NAME	PWS ID #	STATE (sample origin)		PROJECT NAME	POP#	CHLORINATED		OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
	DATE	TIME						AM	PM			Yes	No			
1 → 420	06/19/18	0915	X		18-06452 JBPHH Red Hill	Volatiles (524.2) See attached list	HI0000360	HI				X		3	DW	RV
2				X	TP001 360-011	Semivolatiles (525.2) See attached list						X		2	DW	RV
3 → 421						Lead (200.8)						X		1	DW	RV
4 → 422																
5 → 423	05/23/18				18-06453	Volatiles (524.2)						X		2	DW	RV
6					Trip Blank											
7																
8																
9																
10																
11																
12																
13																
14																

RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)	DATE	TIME	LAB COMMENTS
<i>[Signature]</i>	19 Jun 2018	1430	Fedex			
RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)	DATE	TIME	
RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME	CONDITIONS UPON RECEIPT (check one)
			<i>[Signature]</i>	6-21-18	0830	X Fed Waive Ambient 1.8 °C Upon Receipt N/A

MATRIX CODES:	TURN-AROUND TIME (TAT) - SURCHARGES
DW-DRINKING WATER	SW = Standard Written (15 working days) 0%
RW-REAGENT WATER	RV = Rush Verbal (5 working days) 50%
GW-GROUND WATER	RW* = Rush Written (5 working days) 75%
EW-EXPOSURE WATER	
SW-SURFACE WATER	
PW-POOL WATER	
WW-WASTE WATER	

* Please call, expedited service not available for all testing

Sample analysis will be provided according to the standard EEA Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agree to in writing by EEA.



Eaton Analytical

Eurofins Eaton Analytical

Run Log

Run ID: 244977 Method: 200.8

<u>Type</u>	<u>Sample Id</u>	<u>Sample Site</u>	<u>Matrix</u>	<u>Instrument ID</u>	<u>Analysis Date</u>	<u>Calibration File</u>
QCS	3970901		RW	DS	06/25/2018 15:13	
ICV	3970902		RW	DS	06/25/2018 15:17	
ICB	3970903		RW	DS	06/25/2018 15:21	
LRB	3970904		RW	DS	06/25/2018 15:29	
LFB	3970905		RW	DS	06/25/2018 15:37	
FS	3968422	18-06452, JBPHH Red Hill	DW	DS	06/25/2018 15:52	
CCV	3969034		RW	DS	06/25/2018 16:16	
CCB	3969035		RW	DS	06/25/2018 16:20	

QC Summary Report

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD Limit	DII Factor	Extracted	Analyzed	EEA ID #
QCS	IS-Bismuth	200.8	N/A	---		0.8612	1.0	N/A	86	60 - 125	---	1.0	---	06/25/2018 15:13	3970901
QCS	IS-Indium	200.8	N/A	---		0.8389	1.0	N/A	84	60 - 125	---	1.0	---	06/25/2018 15:13	3970901
QCS	Lead	200.8	1.0	---		52.9910	50.0	ug/L	106	90 - 110	---	1.0	---	06/25/2018 15:13	3970901
QCS	IS-Scandium	200.8	N/A	---		0.8777	1.0	N/A	88	60 - 125	---	1.0	---	06/25/2018 15:13	3970901
QCS	IS-Terbium	200.8	N/A	---		0.8372	1.0	N/A	84	60 - 125	---	1.0	---	06/25/2018 15:13	3970901
QCS	IS-Yttrium	200.8	N/A	---		0.8581	1.0	N/A	86	60 - 125	---	1.0	---	06/25/2018 15:13	3970901
ICV	IS-Bismuth	200.8	N/A	---		0.9017	1.0	N/A	90	60 - 125	---	1.0	---	06/25/2018 15:17	3970902
ICV	IS-Indium	200.8	N/A	---		0.8903	1.0	N/A	88	60 - 125	---	1.0	---	06/25/2018 15:17	3970902
ICV	Lead	200.8	1.0	---		50.8080	50.0	ug/L	102	90 - 110	---	1.0	---	06/25/2018 15:17	3970902
ICV	IS-Scandium	200.8	N/A	---		0.9308	1.0	N/A	93	60 - 125	---	1.0	---	06/25/2018 15:17	3970902
ICV	IS-Terbium	200.8	N/A	---		0.8866	1.0	N/A	89	60 - 125	---	1.0	---	06/25/2018 15:17	3970902
ICV	IS-Yttrium	200.8	N/A	---		0.9140	1.0	N/A	91	60 - 125	---	1.0	---	06/25/2018 15:17	3970902
ICB	IS-Bismuth	200.8	N/A	---		0.8893	1.0	N/A	89	60 - 125	---	1.0	---	06/25/2018 15:21	3970903
ICB	IS-Indium	200.8	N/A	---		0.8828	1.0	N/A	88	60 - 125	---	1.0	---	06/25/2018 15:21	3970903
ICB	Lead	200.8	1.0	---	<	1.0		ug/L	---	---	---	1.0	---	06/25/2018 15:21	3970903
ICB	IS-Scandium	200.8	N/A	---		0.9272	1.0	N/A	93	60 - 125	---	1.0	---	06/25/2018 15:21	3970903
ICB	IS-Terbium	200.8	N/A	---		0.8811	1.0	N/A	88	60 - 125	---	1.0	---	06/25/2018 15:21	3970903
ICB	IS-Yttrium	200.8	N/A	---		0.9066	1.0	N/A	91	60 - 125	---	1.0	---	06/25/2018 15:21	3970903
LRB	IS-Bismuth	200.8	N/A	---		0.8915	1.0	N/A	89	60 - 125	---	1.0	---	06/25/2018 15:29	3970904
LRB	IS-Indium	200.8	N/A	---		0.8839	1.0	N/A	88	60 - 125	---	1.0	---	06/25/2018 15:29	3970904
LRB	Lead	200.8	1.0	---	<	1.0		ug/L	---	---	---	1.0	---	06/25/2018 15:29	3970904
LRB	IS-Scandium	200.8	N/A	---		0.9344	1.0	N/A	93	60 - 125	---	1.0	---	06/25/2018 15:29	3970904
LRB	IS-Terbium	200.8	N/A	---		0.8799	1.0	N/A	88	60 - 125	---	1.0	---	06/25/2018 15:29	3970904
LRB	IS-Yttrium	200.8	N/A	---		0.9108	1.0	N/A	91	60 - 125	---	1.0	---	06/25/2018 15:29	3970904
LFB	IS-Bismuth	200.8	N/A	---		0.8875	1.0	N/A	89	60 - 125	---	1.0	---	06/25/2018 15:37	3970905
LFB	IS-Indium	200.8	N/A	---		0.8779	1.0	N/A	88	60 - 125	---	1.0	---	06/25/2018 15:37	3970905
LFB	Lead	200.8	1.0	---		53.1400	50.0	ug/L	106	85 - 115	---	1.0	---	06/25/2018 15:37	3970905
LFB	IS-Scandium	200.8	N/A	---		0.9292	1.0	N/A	93	60 - 125	---	1.0	---	06/25/2018 15:37	3970905
LFB	IS-Terbium	200.8	N/A	---		0.8658	1.0	N/A	87	60 - 125	---	1.0	---	06/25/2018 15:37	3970905
LFB	IS-Yttrium	200.8	N/A	---		0.9004	1.0	N/A	90	60 - 125	---	1.0	---	06/25/2018 15:37	3970905
FS	IS-Bismuth	200.8	N/A	18-08452_JBPHH Red HII		0.8512	1.0	N/A	85	60 - 125	---	1.0	---	06/25/2018 15:52	3968422
FS	IS-Indium	200.8	N/A	18-08452_JBPHH Red HII		0.8540	1.0	N/A	85	60 - 125	---	1.0	---	06/25/2018 15:52	3968422
FS	Lead	200.8	1.0	18-08452_JBPHH Red HII	<	1.0		ug/L	---	---	---	1.0	---	06/25/2018 15:52	3968422
FS	IS-Scandium	200.8	N/A	18-08452_JBPHH Red HII		0.9565	1.0	N/A	96	60 - 125	---	1.0	---	06/25/2018 15:52	3968422
FS	IS-Terbium	200.8	N/A	18-08452_JBPHH Red HII		0.8697	1.0	N/A	87	60 - 125	---	1.0	---	06/25/2018 15:52	3968422
FS	IS-Yttrium	200.8	N/A	18-08452_JBPHH Red HII		0.8881	1.0	N/A	89	60 - 125	---	1.0	---	06/25/2018 15:52	3968422
OCV	IS-Bismuth	200.8	N/A	---		0.9300	1.0	N/A	93	60 - 125	---	1.0	---	06/25/2018 16:16	3969034
OCV	IS-Indium	200.8	N/A	---		0.8949	1.0	N/A	89	60 - 125	---	1.0	---	06/25/2018 16:16	3969034
OCV	Lead	200.8	1.0	---		50.2510	50.0	ug/L	101	85 - 115	---	1.0	---	06/25/2018 16:16	3969034
OCV	IS-Scandium	200.8	N/A	---		0.9384	1.0	N/A	94	60 - 125	---	1.0	---	06/25/2018 16:16	3969034

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCV	IS-Terbitum	200.8	N/A	---		0.9013	1.0	N/A	90	60 - 125	---	1.0	---	06/25/2018 16:16	3969034
CCV	IS-Yttrium	200.8	N/A	---		0.9144	1.0	N/A	91	60 - 125	---	1.0	---	06/25/2018 16:16	3969034
CCB	IS-Bismuth	200.8	N/A	---		0.9112	1.0	N/A	91	60 - 125	---	1.0	---	06/25/2018 16:20	3969035
CCB	IS-Indium	200.8	N/A	---		0.8886	1.0	N/A	89	60 - 125	---	1.0	---	06/25/2018 16:20	3969035
CCB	Lead	200.8	1.0	---	<	1.0	1.0	ug/L	---	---	---	1.0	---	06/25/2018 16:20	3969035
CCB	IS-Scandium	200.8	N/A	---		0.9319	1.0	N/A	93	60 - 125	---	1.0	---	06/25/2018 16:20	3969035
CCB	IS-Terbitum	200.8	N/A	---		0.8898	1.0	N/A	89	60 - 125	---	1.0	---	06/25/2018 16:20	3969035
CCB	IS-Yttrium	200.8	N/A	---		0.9017	1.0	N/A	90	60 - 125	---	1.0	---	06/25/2018 16:20	3969035



Eaton Analytical

Eurofins Eaton Analytical

Run Log

Run ID: 245136 Method: 524.2

<u>Type</u>	<u>Sample Id</u>	<u>Sample Site</u>	<u>Matrix</u>	<u>Instrument ID</u>	<u>Analysis Date</u>	<u>Calibration File</u>
CCC	3970747		RW	CF	06/25/2018 16:19	524 2-061918CF.mth
CCL	3970748		RW	CF	06/25/2018 17:01	524 2-061918CF.mth
LMB	3970749		RW	CF	06/25/2018 17:45	524 2-061918CF.mth
LTB	3968423	LTB 5-23-18	RW	CF	06/25/2018 18:19	524 2-061918CF.mth
FS	3968420	18-06452, JBPHH Red Hill	DW	CF	06/25/2018 18:52	524 2-061918CF.mth
CCC	3971011		RW	CF	06/26/2018 02:05	524 2-061918CF.mth

QC Summary Report

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCC	IS-1,4-Difluorobenzene	524.2	N/A	--		164375	164375	ug/L	100	50 - 150	--	1.0	--	06/25/2018 16:19	3970747
CCC	SS-Bromofluorobenzene	524.2	N/A	--		5.0430	5.0	ug/L	101	70 - 130	--	1.0	--	06/25/2018 16:19	3970747
CCC	SS-1,2-Dichlorobenzene-d4	524.2	N/A	--		10.4280	10.0	ug/L	104	70 - 130	--	1.0	--	06/25/2018 16:19	3970747
CCC	SS-1,2-Dichloroethane-d4	524.2	N/A	--		10.1750	10.0	ug/L	102	70 - 130	--	1.0	--	06/25/2018 16:19	3970747
CCC	SS-Toluene-d8	524.2	N/A	--		10.0640	10.0	ug/L	101	70 - 130	--	1.0	--	06/25/2018 16:19	3970747
CCC	Benzene	524.2	0.5	--		5.0940	5.0	ug/L	102	70 - 130	--	1.0	--	06/25/2018 16:19	3970747
CCC	Carbon tetrachloride	524.2	0.5	--		5.5810	5.0	ug/L	112	70 - 130	--	1.0	--	06/25/2018 16:19	3970747
CCC	Chlorobenzene	524.2	0.5	--		5.1880	5.0	ug/L	104	70 - 130	--	1.0	--	06/25/2018 16:19	3970747
CCC	1,2-Dichlorobenzene	524.2	0.5	--		5.3480	5.0	ug/L	107	70 - 130	--	1.0	--	06/25/2018 16:19	3970747
CCC	1,4-Dichlorobenzene	524.2	0.5	--		5.4440	5.0	ug/L	109	70 - 130	--	1.0	--	06/25/2018 16:19	3970747
CCC	1,2-Dichloroethane	524.2	0.5	--		5.3780	5.0	ug/L	108	70 - 130	--	1.0	--	06/25/2018 16:19	3970747
CCC	1,1-Dichloroethylene	524.2	0.5	--		5.2240	5.0	ug/L	104	70 - 130	--	1.0	--	06/25/2018 16:19	3970747
CCC	cis-1,2-Dichloroethylene	524.2	0.5	--		5.1810	5.0	ug/L	104	70 - 130	--	1.0	--	06/25/2018 16:19	3970747
CCC	trans-1,2-Dichloroethylene	524.2	0.5	--		5.1280	5.0	ug/L	103	70 - 130	--	1.0	--	06/25/2018 16:19	3970747
CCC	Dichloromethane	524.2	0.5	--		4.6730	5.0	ug/L	93	70 - 130	--	1.0	--	06/25/2018 16:19	3970747
CCC	1,2-Dichloropropane	524.2	0.5	--		5.1880	5.0	ug/L	104	70 - 130	--	1.0	--	06/25/2018 16:19	3970747
CCC	Ethylbenzene	524.2	0.5	--		5.1740	5.0	ug/L	103	70 - 130	--	1.0	--	06/25/2018 16:19	3970747
CCC	Naphthalene	524.2	0.5	--		4.9720	5.0	ug/L	99	70 - 130	--	1.0	--	06/25/2018 16:19	3970747
CCC	Styrene	524.2	0.5	--		5.2440	5.0	ug/L	105	70 - 130	--	1.0	--	06/25/2018 16:19	3970747
CCC	Tetrachloroethylene	524.2	0.5	--		5.2980	5.0	ug/L	106	70 - 130	--	1.0	--	06/25/2018 16:19	3970747
CCC	Toluene	524.2	0.5	--		5.1670	5.0	ug/L	103	70 - 130	--	1.0	--	06/25/2018 16:19	3970747
CCC	1,2,4-Trichlorobenzene	524.2	0.5	--		5.1600	5.0	ug/L	103	70 - 130	--	1.0	--	06/25/2018 16:19	3970747
CCC	1,1,1-Trichloroethane	524.2	0.5	--		5.2380	5.0	ug/L	105	70 - 130	--	1.0	--	06/25/2018 16:19	3970747
CCC	1,1,2-Trichloroethane	524.2	0.5	--		5.1390	5.0	ug/L	103	70 - 130	--	1.0	--	06/25/2018 16:19	3970747
CCC	Trichloroethylene	524.2	0.5	--		5.1280	5.0	ug/L	103	70 - 130	--	1.0	--	06/25/2018 16:19	3970747
CCC	Vinyl chloride	524.2	0.2	--		5.3500	5.0	ug/L	107	70 - 130	--	1.0	--	06/25/2018 16:19	3970747
CCC	1,2-Xylene	524.2	0.5	--		5.1770	5.0	ug/L	104	70 - 130	--	1.0	--	06/25/2018 16:19	3970747
CCC	1,3 + 1,4-Xylene	524.2	0.5	--		10.5980	10.0	ug/L	106	70 - 130	--	1.0	--	06/25/2018 16:19	3970747
CCL	IS-1,4-Difluorobenzene	524.2	N/A	--		168144	168144	ug/L	100	50 - 150	--	1.0	--	06/25/2018 17:01	3970748
CCL	SS-Bromofluorobenzene	524.2	N/A	--		5.2060	5.0	ug/L	104	70 - 130	--	1.0	--	06/25/2018 17:01	3970748
CCL	SS-1,2-Dichlorobenzene-d4	524.2	N/A	--		10.6680	10.0	ug/L	107	70 - 130	--	1.0	--	06/25/2018 17:01	3970748
CCL	SS-1,2-Dichloroethane-d4	524.2	N/A	--		10.2920	10.0	ug/L	103	70 - 130	--	1.0	--	06/25/2018 17:01	3970748
CCL	SS-Toluene-d8	524.2	N/A	--		10.2100	10.0	ug/L	102	70 - 130	--	1.0	--	06/25/2018 17:01	3970748
CCL	Benzene	524.2	0.5	--		0.5510	0.5	ug/L	110	68 - 118	--	1.0	--	06/25/2018 17:01	3970748
CCL	Carbon tetrachloride	524.2	0.5	--		0.5000	0.5	ug/L	100	61 - 118	--	1.0	--	06/25/2018 17:01	3970748
CCL	Chlorobenzene	524.2	0.5	--		0.5610	0.5	ug/L	112	66 - 122	--	1.0	--	06/25/2018 17:01	3970748
CCL	1,2-Dichlorobenzene	524.2	0.5	--		0.5940	0.5	ug/L	119	67 - 126	--	1.0	--	06/25/2018 17:01	3970748
CCL	1,4-Dichlorobenzene	524.2	0.5	--		0.5990	0.5	ug/L	120	61 - 126	--	1.0	--	06/25/2018 17:01	3970748
CCL	1,2-Dichloroethane	524.2	0.5	--		0.5560	0.5	ug/L	111	69 - 119	--	1.0	--	06/25/2018 17:01	3970748
CCL	1,1-Dichloroethylene	524.2	0.5	--		0.5510	0.5	ug/L	110	62 - 121	--	1.0	--	06/25/2018 17:01	3970748

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCL	cis-1,2-Dichloroethylene	524.2	0.5	--		0.5570	0.5	ug/L	111	67 - 117	--	1.0	--	06/25/2018 17:01	3970748
CCL	trans-1,2-Dichloroethylene	524.2	0.5	--		0.5420	0.5	ug/L	108	63 - 119	---	1.0	--	06/25/2018 17:01	3970748
CCL	Dichloromethane	524.2	0.5	---		0.3240	0.5	ug/L	65	38 - 154	--	1.0	--	06/25/2018 17:01	3970748
CCL	1,2-Dichloropropane	524.2	0.5	---		0.5370	0.5	ug/L	107	65 - 121	---	1.0	--	06/25/2018 17:01	3970748
CCL	Ethylbenzene	524.2	0.5	---		0.5420	0.5	ug/L	108	63 - 119	--	1.0	--	06/25/2018 17:01	3970748
CCL	Styrene	524.2	0.5	---		0.5390	0.5	ug/L	108	54 - 133	--	1.0	--	06/25/2018 17:01	3970748
CCL	Tetrachloroethylene	524.2	0.5	---		0.5750	0.5	ug/L	115	59 - 124	--	1.0	--	06/25/2018 17:01	3970748
CCL	Toluene	524.2	0.5	---		0.5470	0.5	ug/L	109	65 - 119	--	1.0	--	06/25/2018 17:01	3970748
CCL	1,2,4-Trichlorobenzene	524.2	0.5	---		0.4920	0.5	ug/L	98	57 - 150	--	1.0	--	06/25/2018 17:01	3970748
CCL	1,1,1-Trichloroethane	524.2	0.5	---		0.5340	0.5	ug/L	107	61 - 116	--	1.0	--	06/25/2018 17:01	3970748
CCL	1,1,2-Trichloroethane	524.2	0.5	---		0.5370	0.5	ug/L	107	66 - 118	---	1.0	--	06/25/2018 17:01	3970748
CCL	Trichloroethylene	524.2	0.5	---		0.5620	0.5	ug/L	112	64 - 119	--	1.0	--	06/25/2018 17:01	3970748
CCL	Vinyl chloride	524.2	0.2	---		0.5270	0.5	ug/L	105	52 - 130	--	1.0	--	06/25/2018 17:01	3970748
CCL	1,2-Xylene	524.2	0.5	---		0.5510	0.5	ug/L	110	67 - 119	--	1.0	--	06/25/2018 17:01	3970748
CCL	1,3 + 1,4-Xylene	524.2	0.5	---		1.1110	1.0	ug/L	111	65 - 119	--	1.0	--	06/25/2018 17:01	3970748
LMB	IS-1,4-Difluorobenzene	524.2	N/A	---		157437	168144	ug/L	94	70 - 130	---	1.0	--	06/25/2018 17:45	3970749
LMB	SS-Bromofluorobenzene	524.2	N/A	---		5.3040	5.0	ug/L	106	70 - 130	--	1.0	--	06/25/2018 17:45	3970749
LMB	SS-1,2-Dichlorobenzene-d4	524.2	N/A	---		10.7770	10.0	ug/L	108	70 - 130	--	1.0	--	06/25/2018 17:45	3970749
LMB	SS-1,2-Dichloroethane-d4	524.2	N/A	---		9.9760	10.0	ug/L	100	70 - 130	--	1.0	--	06/25/2018 17:45	3970749
LMB	SS-Toluene-d8	524.2	N/A	---		10.1370	10.0	ug/L	101	70 - 130	--	1.0	--	06/25/2018 17:45	3970749
LMB	Benzene	524.2	0.5	---	<	0.5		ug/L	---		--	1.0	--	06/25/2018 17:45	3970749
LMB	Carbon tetrachloride	524.2	0.5	---	<	0.5		ug/L	---		--	1.0	--	06/25/2018 17:45	3970749
LMB	Chlorobenzene	524.2	0.5	---	<	0.5		ug/L	---		--	1.0	--	06/25/2018 17:45	3970749
LMB	1,2-Dichlorobenzene	524.2	0.5	---	<	0.5		ug/L	---		--	1.0	--	06/25/2018 17:45	3970749
LMB	1,4-Dichlorobenzene	524.2	0.5	---	<	0.5		ug/L	---		--	1.0	--	06/25/2018 17:45	3970749
LMB	1,2-Dichloroethane	524.2	0.5	---	<	0.5		ug/L	---		--	1.0	--	06/25/2018 17:45	3970749
LMB	1,1-Dichloroethylene	524.2	0.5	---	<	0.5		ug/L	---		--	1.0	--	06/25/2018 17:45	3970749
LMB	cis-1,2-Dichloroethylene	524.2	0.5	---	<	0.5		ug/L	---		--	1.0	--	06/25/2018 17:45	3970749
LMB	trans-1,2-Dichloroethylene	524.2	0.5	---	<	0.5		ug/L	---		--	1.0	--	06/25/2018 17:45	3970749
LMB	Dichloromethane	524.2	0.5	---	<	0.5		ug/L	---		--	1.0	--	06/25/2018 17:45	3970749
LMB	1,2-Dichloropropane	524.2	0.5	---	<	0.5		ug/L	---		--	1.0	--	06/25/2018 17:45	3970749
LMB	Ethylbenzene	524.2	0.5	---	<	0.5		ug/L	---		--	1.0	--	06/25/2018 17:45	3970749
LMB	Napthalene	524.2	0.5	---	<	0.5		ug/L	---		--	1.0	--	06/25/2018 17:45	3970749
LMB	Styrene	524.2	0.5	---	<	0.5		ug/L	---		--	1.0	--	06/25/2018 17:45	3970749
LMB	Tetrachloroethylene	524.2	0.5	---	<	0.5		ug/L	---		--	1.0	--	06/25/2018 17:45	3970749
LMB	Toluene	524.2	0.5	---	<	0.5		ug/L	---		--	1.0	--	06/25/2018 17:45	3970749
LMB	1,2,4-Trichlorobenzene	524.2	0.5	---	<	0.5		ug/L	---		--	1.0	--	06/25/2018 17:45	3970749
LMB	1,1,1-Trichloroethane	524.2	0.5	---	<	0.5		ug/L	---		--	1.0	--	06/25/2018 17:45	3970749
LMB	1,1,2-Trichloroethane	524.2	0.5	---	<	0.5		ug/L	---		--	1.0	--	06/25/2018 17:45	3970749
LMB	Trichloroethylene	524.2	0.5	---	<	0.5		ug/L	---		--	1.0	--	06/25/2018 17:45	3970749
LMB	Vinyl chloride	524.2	0.2	---	<	0.5		ug/L	---		--	1.0	--	06/25/2018 17:45	3970749

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
LMB	1,2-Xylene	524.2	0.5	---	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 17:45	3970749
LMB	1,3 + 1,4-Xylene	524.2	0.5	---	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 17:45	3970749
LTB	IS-1,4-Difluorobenzene	524.2	N/A	LTB 5-23-18		181781	168144	ug/L	108	70 - 130	---	1.0	---	06/25/2018 18:19	3968423
LTB	SS-Bromofluorobenzene	524.2	N/A	LTB 5-23-18		5,0480	5.0	ug/L	101	70 - 130	---	1.0	---	06/25/2018 18:19	3968423
LTB	SS-1,2-Dichlorobenzene-d4	524.2	N/A	LTB 5-23-18		9,9550	10.0	ug/L	100	70 - 130	---	1.0	---	06/25/2018 18:19	3968423
LTB	SS-1,2-Dichloroethane-d4	524.2	N/A	LTB 5-23-18		9,8340	10.0	ug/L	98	70 - 130	---	1.0	---	06/25/2018 18:19	3968423
LTB	SS-Toluene-d8	524.2	N/A	LTB 5-23-18		10,0760	10.0	ug/L	101	70 - 130	---	1.0	---	06/25/2018 18:19	3968423
LTB	Benzene	524.2	0.5	LTB 5-23-18	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:19	3968423
LTB	Carbon tetrachloride	524.2	0.5	LTB 5-23-18	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:19	3968423
LTB	Chlorobenzene	524.2	0.5	LTB 5-23-18	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:19	3968423
LTB	1,2-Dichlorobenzene	524.2	0.5	LTB 5-23-18	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:19	3968423
LTB	1,4-Dichlorobenzene	524.2	0.5	LTB 5-23-18	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:19	3968423
LTB	1,2-Dichloroethane	524.2	0.5	LTB 5-23-18	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:19	3968423
LTB	1,1-Dichloroethane	524.2	0.5	LTB 5-23-18	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:19	3968423
LTB	cis-1,2-Dichloroethylene	524.2	0.5	LTB 5-23-18	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:19	3968423
LTB	trans-1,2-Dichloroethylene	524.2	0.5	LTB 5-23-18	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:19	3968423
LTB	Dichloromethane	524.2	0.5	LTB 5-23-18	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:19	3968423
LTB	1,2-Dichloropropane	524.2	0.5	LTB 5-23-18	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:19	3968423
LTB	Ethylbenzene	524.2	0.5	LTB 5-23-18	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:19	3968423
LTB	Naphthalene	524.2	0.5	LTB 5-23-18	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:19	3968423
LTB	Styrene	524.2	0.5	LTB 5-23-18	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:19	3968423
LTB	Tetrachloroethylene	524.2	0.5	LTB 5-23-18	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:19	3968423
LTB	Toluene	524.2	0.5	LTB 5-23-18	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:19	3968423
LTB	1,2,4-Trichlorobenzene	524.2	0.5	LTB 5-23-18	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:19	3968423
LTB	1,1,1-Trichloroethane	524.2	0.5	LTB 5-23-18	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:19	3968423
LTB	1,1,2-Trichloroethane	524.2	0.5	LTB 5-23-18	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:19	3968423
LTB	Vinyl chloride	524.2	0.2	LTB 5-23-18	<	0.2		ug/L	---	---	---	1.0	---	06/25/2018 18:19	3968423
LTB	1,2-Xylene	524.2	0.5	LTB 5-23-18	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:19	3968423
LTB	1,3 + 1,4-Xylene	524.2	0.5	LTB 5-23-18	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:19	3968423
LTB	Xylenes, Total	524.2	0.5	LTB 5-23-18	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:19	3968423
FS	IS-1,4-Difluorobenzene	524.2	N/A	18-06452_JBPHH Red H#		187793	168144	ug/L	112	70 - 130	---	1.0	---	06/25/2018 18:52	3968420
FS	SS-Bromofluorobenzene	524.2	N/A	18-06452_JBPHH Red H#		4,8960	5.0	ug/L	98	70 - 130	---	1.0	---	06/25/2018 18:52	3968420
FS	SS-1,2-Dichlorobenzene-d4	524.2	N/A	18-06452_JBPHH Red H#		9,7920	10.0	ug/L	98	70 - 130	---	1.0	---	06/25/2018 18:52	3968420
FS	SS-1,2-Dichloroethane-d4	524.2	N/A	18-06452_JBPHH Red H#		9,8060	10.0	ug/L	98	70 - 130	---	1.0	---	06/25/2018 18:52	3968420
FS	SS-Toluene-d8	524.2	N/A	18-06452_JBPHH Red H#		10,1800	10.0	ug/L	102	70 - 130	---	1.0	---	06/25/2018 18:52	3968420
FS	Benzene	524.2	0.5	18-06452_JBPHH Red H#	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:52	3968420
FS	Carbon tetrachloride	524.2	0.5	18-06452_JBPHH Red H#	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:52	3968420
FS	Chlorobenzene	524.2	0.5	18-06452_JBPHH Red H#	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:52	3968420
FS	1,2-Dichlorobenzene	524.2	0.5	18-06452_JBPHH Red H#	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:52	3968420
FS	1,4-Dichlorobenzene	524.2	0.5	18-06452_JBPHH Red H#	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:52	3968420
FS	1,2-Dichloroethane	524.2	0.5	18-06452_JBPHH Red H#	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:52	3968420

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
FS	1,1-Dichloroethylene	524.2	0.5	18-06452_JBP111 Red H11	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:52	3968420
FS	cis-1,2-Dichloroethylene	524.2	0.5	18-06452_JBP111 Red H11	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:52	3968420
FS	trans-1,2-Dichloroethylene	524.2	0.5	18-06452_JBP111 Red H11	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:52	3968420
FS	Dichloromethane	524.2	0.5	18-06452_JBP111 Red H11	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:52	3968420
FS	1,2-Dichloropropane	524.2	0.5	18-06452_JBP111 Red H11	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:52	3968420
FS	Ethylbenzene	524.2	0.5	18-06452_JBP111 Red H11	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:52	3968420
FS	Naphthalene	524.2	0.5	18-06452_JBP111 Red H11	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:52	3968420
FS	Styrene	524.2	0.5	18-06452_JBP111 Red H11	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:52	3968420
FS	Tetrachloroethylene	524.2	0.5	18-06452_JBP111 Red H11	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:52	3968420
FS	Toluene	524.2	0.5	18-06452_JBP111 Red H11	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:52	3968420
FS	1,2,4-Trichlorobenzene	524.2	0.5	18-06452_JBP111 Red H11	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:52	3968420
FS	1,1,1-Trichloroethane	524.2	0.5	18-06452_JBP111 Red H11	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:52	3968420
FS	1,1,2-Trichloroethane	524.2	0.5	18-06452_JBP111 Red H11	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:52	3968420
FS	Trichloroethylene	524.2	0.5	18-06452_JBP111 Red H11	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:52	3968420
FS	Vinyl chloride	524.2	0.2	18-06452_JBP111 Red H11	<	0.2		ug/L	---	---	---	1.0	---	06/25/2018 18:52	3968420
FS	1,2-Xylene	524.2	0.5	18-06452_JBP111 Red H11	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:52	3968420
FS	1,3 + 1,4-Xylene	524.2	0.5	18-06452_JBP111 Red H11	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:52	3968420
FS	Xylenes, Total	524.2	0.5	18-06452_JBP111 Red H11	<	0.5		ug/L	---	---	---	1.0	---	06/25/2018 18:52	3968420
CCC	IS-1,4-Difluorobenzene	524.2	N/A	---		183726	183726	ug/L	100	50 - 150	---	1.0	---	06/26/2018 02:05	3971011
CCC	SS-Bromofluorobenzene	524.2	N/A	---		5.0920	5.0	ug/L	102	70 - 130	---	1.0	---	06/26/2018 02:05	3971011
CCC	SS-1,2-Dichlorobenzene-d4	524.2	N/A	---		9.7910	10.0	ug/L	98	70 - 130	---	1.0	---	06/26/2018 02:05	3971011
CCC	SS-1,2-Dichloroethane-d4	524.2	N/A	---		9.9590	10.0	ug/L	100	70 - 130	---	1.0	---	06/26/2018 02:05	3971011
CCC	SS-Toluene-d8	524.2	N/A	---		10.1290	10.0	ug/L	101	70 - 130	---	1.0	---	06/26/2018 02:05	3971011
CCC	Benzene	524.2	0.5	---		10.3040	10.0	ug/L	103	70 - 130	---	1.0	---	06/26/2018 02:05	3971011
CCC	Carbon tetrachloride	524.2	0.5	---		10.3070	10.0	ug/L	103	70 - 130	---	1.0	---	06/26/2018 02:05	3971011
CCC	Chlorobenzene	524.2	0.5	---		10.1930	10.0	ug/L	102	70 - 130	---	1.0	---	06/26/2018 02:05	3971011
CCC	1,2-Dichlorobenzene	524.2	0.5	---		10.1590	10.0	ug/L	102	70 - 130	---	1.0	---	06/26/2018 02:05	3971011
CCC	1,4-Dichlorobenzene	524.2	0.5	---		10.2890	10.0	ug/L	103	70 - 130	---	1.0	---	06/26/2018 02:05	3971011
CCC	1,2-Dichloroethane	524.2	0.5	---		10.0450	10.0	ug/L	100	70 - 130	---	1.0	---	06/26/2018 02:05	3971011
CCC	1,1-Dichloroethylene	524.2	0.5	---		9.9650	10.0	ug/L	100	70 - 130	---	1.0	---	06/26/2018 02:05	3971011
CCC	cis-1,2-Dichloroethylene	524.2	0.5	---		9.9300	10.0	ug/L	99	70 - 130	---	1.0	---	06/26/2018 02:05	3971011
CCC	trans-1,2-Dichloroethylene	524.2	0.5	---		9.8710	10.0	ug/L	99	70 - 130	---	1.0	---	06/26/2018 02:05	3971011
CCC	Dichloromethane	524.2	0.5	---		9.8180	10.0	ug/L	98	70 - 130	---	1.0	---	06/26/2018 02:05	3971011
CCC	1,2-Dichloropropane	524.2	0.5	---		10.1740	10.0	ug/L	102	70 - 130	---	1.0	---	06/26/2018 02:05	3971011
CCC	Ethylbenzene	524.2	0.5	---		10.1150	10.0	ug/L	101	70 - 130	---	1.0	---	06/26/2018 02:05	3971011
CCC	Naphthalene	524.2	0.5	---		10.3580	10.0	ug/L	104	70 - 130	---	1.0	---	06/26/2018 02:05	3971011
CCC	Styrene	524.2	0.5	---		10.0830	10.0	ug/L	101	70 - 130	---	1.0	---	06/26/2018 02:05	3971011
CCC	Tetrachloroethylene	524.2	0.5	---		9.9230	10.0	ug/L	99	70 - 130	---	1.0	---	06/26/2018 02:05	3971011
CCC	Toluene	524.2	0.5	---		10.3040	10.0	ug/L	103	70 - 130	---	1.0	---	06/26/2018 02:05	3971011
CCC	1,2,4-Trichlorobenzene	524.2	0.5	---		10.0030	10.0	ug/L	100	70 - 130	---	1.0	---	06/26/2018 02:05	3971011
CCC	1,1,1-Trichloroethane	524.2	0.5	---		10.0580	10.0	ug/L	101	70 - 130	---	1.0	---	06/26/2018 02:05	3971011

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD Limit	DII Factor	Extracted	Analyzed	EEA ID #
CCC	1,1,2-Trichloroethane	524.2	0.5	---		9.8780	10.0	ug/L	99	70 - 130	---	1.0	---	06/26/2018 02:05	3971011
CCC	Trichloroethylene	524.2	0.5	---		9.9570	10.0	ug/L	100	70 - 130	---	1.0	---	06/26/2018 02:05	3971011
CCC	Vinyl chloride	524.2	0.2	---		10.6300	10.0	ug/L	106	70 - 130	---	1.0	---	06/26/2018 02:05	3971011
CCC	1,2-Xylene	524.2	0.5	---		10.3160	10.0	ug/L	103	70 - 130	---	1.0	---	06/26/2018 02:05	3971011
CCC	1,3 + 1,4-Xylene	524.2	0.5	---		20.2310	20.0	ug/L	101	70 - 130	---	1.0	---	06/26/2018 02:05	3971011



Eaton Analytical

Eurofins Eaton Analytical

Run Log

Run ID: 245144 Method: 525.2

<u>Type</u>	<u>Sample Id</u>	<u>Sample Site</u>	<u>Matrix</u>	<u>Instrument ID</u>	<u>Analysis Date</u>	<u>Calibration File</u>
CCC	3971923		OS	DO	06/27/2018 17:32	525 2-DO-101216a-up1.mth
CCC	3971924		OS	DO	06/27/2018 18:14	525 2-DO-101216a-up1.mth
CCC	3971925		OS	DO	06/27/2018 18:56	525 2-DO-101216a-up1.mth
LFB	3971920		RW	DO	06/27/2018 20:20	525 2-DO-101216a-up1.mth
LFB	3971921		RW	DO	06/27/2018 21:02	525 2-DO-101216a-up1.mth
LFB	3971922		RW	DO	06/27/2018 21:44	525 2-DO-101216a-up1.mth
LMB	3971919		RW	DO	06/27/2018 22:26	525 2-DO-101216a-up1.mth
FS	3968421	18-06452, JBPHH Red Hill	DW	DO	06/27/2018 23:08	525 2-DO-101216a-up1.mth

QC Summary Report

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCC	IS-Chrysene-d12	525.2	N/A	---		1912000	1912000	ug/L	100	50 - 150	---	---	1.0	06/26/2018 08:55	06/27/2018 17:32	3971923
CCC	IS-Phenanthrene-d10	525.2	N/A	---		2531000	2531000	ug/L	100	50 - 150	---	---	1.0	06/26/2018 08:55	06/27/2018 17:32	3971923
CCC	IS-Pyrene-d10	525.2	N/A	---		2059000	2059000	ug/L	100	50 - 150	---	---	1.0	06/26/2018 08:55	06/27/2018 17:32	3971923
CCC	SS-4,4'-Dichlorobiphenyl	525.2	N/A	---		4.7330	5.0	ug/L	95	70 - 130	---	---	1.0	06/26/2018 08:55	06/27/2018 17:32	3971923
CCC	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	---		5.4910	5.0	ug/L	110	70 - 130	---	---	1.0	06/26/2018 08:55	06/27/2018 17:32	3971923
CCC	SS-Triphenylphosphate	525.2	N/A	---		5.6680	5.0	ug/L	114	70 - 130	---	---	1.0	06/26/2018 08:55	06/27/2018 17:32	3971923
CCC	Acenaphthene	525.2	0.1	---		3.9080	5.0	ug/L	78	72 - 122	---	---	1.0	06/26/2018 08:55	06/27/2018 17:32	3971923
CCC	Acenaphthylene	525.2	0.1	---		4.6720	5.0	ug/L	93	70 - 130	---	---	1.0	06/26/2018 08:55	06/27/2018 17:32	3971923
CCC	Anthracene	525.2	0.1	---		5.0890	5.0	ug/L	102	70 - 130	---	---	1.0	06/26/2018 08:55	06/27/2018 17:32	3971923
CCC	Phenanthrene	525.2	0.1	---		4.5190	5.0	ug/L	90	70 - 130	---	---	1.0	06/26/2018 08:55	06/27/2018 17:32	3971923
CCC	Pyrene	525.2	0.1	---		5.4200	5.0	ug/L	108	70 - 130	---	---	1.0	06/26/2018 08:55	06/27/2018 17:32	3971923
CCC	IS-Chrysene-d12	525.2	N/A	---		1647000	1647000	ug/L	100	50 - 150	---	---	1.0	06/26/2018 08:55	06/27/2018 18:14	3971924
CCC	IS-Phenanthrene-d10	525.2	N/A	---		2634000	2634000	ug/L	100	50 - 150	---	---	1.0	06/26/2018 08:55	06/27/2018 18:14	3971924
CCC	IS-Pyrene-d10	525.2	N/A	---		2082000	2082000	ug/L	100	50 - 150	---	---	1.0	06/26/2018 08:55	06/27/2018 18:14	3971924
CCC	SS-4,4'-Dichlorobiphenyl	525.2	N/A	---		5.4270	5.0	ug/L	109	70 - 130	---	---	1.0	06/26/2018 08:55	06/27/2018 18:14	3971924
CCC	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	---		5.3100	5.0	ug/L	106	70 - 130	---	---	1.0	06/26/2018 08:55	06/27/2018 18:14	3971924
CCC	SS-Triphenylphosphate	525.2	N/A	---		5.7410	5.0	ug/L	115	70 - 130	---	---	1.0	06/26/2018 08:55	06/27/2018 18:14	3971924
CCC	Fluoranthene	525.2	0.1	---		6.1100	5.0	ug/L	122	73 - 122	---	---	1.0	06/26/2018 08:55	06/27/2018 18:14	3971924
CCC	IS-Chrysene-d12	525.2	N/A	---		2122000	2122000	ug/L	100	50 - 150	---	---	1.0	06/26/2018 08:55	06/27/2018 18:56	3971925
CCC	IS-Phenanthrene-d10	525.2	N/A	---		3140000	3140000	ug/L	100	50 - 150	---	---	1.0	06/26/2018 08:55	06/27/2018 18:56	3971925
CCC	IS-Pyrene-d10	525.2	N/A	---		2473000	2473000	ug/L	100	50 - 150	---	---	1.0	06/26/2018 08:55	06/27/2018 18:56	3971925
CCC	SS-4,4'-Dichlorobiphenyl	525.2	N/A	---		5.9270	5.0	ug/L	119	70 - 130	---	---	1.0	06/26/2018 08:55	06/27/2018 18:56	3971925
CCC	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	---		5.1680	5.0	ug/L	103	70 - 130	---	---	1.0	06/26/2018 08:55	06/27/2018 18:56	3971925
CCC	SS-Triphenylphosphate	525.2	N/A	---		5.7210	5.0	ug/L	114	70 - 130	---	---	1.0	06/26/2018 08:55	06/27/2018 18:56	3971925
CCC	Benzo(a)pyrene	525.2	0.02	---		5.3180	5.0	ug/L	106	70 - 130	---	---	1.0	06/26/2018 08:55	06/27/2018 18:56	3971925
CCC	Di(2-ethylhexyl)adipate	525.2	0.6	---		5.9710	5.0	ug/L	119	70 - 130	---	---	1.0	06/26/2018 08:55	06/27/2018 18:56	3971925
CCC	Di(2-ethylhexyl)phthalate	525.2	0.6	---		6.1820	5.0	ug/L	124	70 - 130	---	---	1.0	06/26/2018 08:55	06/27/2018 18:56	3971925
LFB	IS-Chrysene-d12	525.2	N/A	---		1988000	2122000	ug/L	94	70 - 130	---	---	1.0	06/26/2018 08:55	06/27/2018 20:20	3971920
LFB	IS-Phenanthrene-d10	525.2	N/A	---		3015000	3140000	ug/L	96	70 - 130	---	---	1.0	06/26/2018 08:55	06/27/2018 20:20	3971920
LFB	IS-Pyrene-d10	525.2	N/A	---		2468000	2473000	ug/L	100	70 - 130	---	---	1.0	06/26/2018 08:55	06/27/2018 20:20	3971920
LFB	SS-4,4'-Dichlorobiphenyl	525.2	N/A	---		5.5410	5.0	ug/L	111	70 - 130	---	---	1.0	06/26/2018 08:55	06/27/2018 20:20	3971920
LFB	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	---		5.0210	5.0	ug/L	100	70 - 130	---	---	1.0	06/26/2018 08:55	06/27/2018 20:20	3971920
LFB	SS-Triphenylphosphate	525.2	N/A	---		5.8740	5.0	ug/L	117	70 - 130	---	---	1.0	06/26/2018 08:55	06/27/2018 20:20	3971920
LFB	Fluoranthene	525.2	0.1	---		6.0860	5.0	ug/L	122	74 - 125	---	---	1.0	06/26/2018 08:55	06/27/2018 20:20	3971920
LFB	IS-Chrysene-d12	525.2	N/A	---		2150000	2122000	ug/L	101	70 - 130	---	---	1.0	06/26/2018 08:55	06/27/2018 21:02	3971921
LFB	IS-Phenanthrene-d10	525.2	N/A	---		3143000	3140000	ug/L	100	70 - 130	---	---	1.0	06/26/2018 08:55	06/27/2018 21:02	3971921
LFB	IS-Pyrene-d10	525.2	N/A	---		2504000	2473000	ug/L	101	70 - 130	---	---	1.0	06/26/2018 08:55	06/27/2018 21:02	3971921
LFB	SS-4,4'-Dichlorobiphenyl	525.2	N/A	---		5.8020	5.0	ug/L	116	70 - 130	---	---	1.0	06/26/2018 08:55	06/27/2018 21:02	3971921
LFB	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	---		4.9200	5.0	ug/L	98	70 - 130	---	---	1.0	06/26/2018 08:55	06/27/2018 21:02	3971921
LFB	SS-Triphenylphosphate	525.2	N/A	---		5.8930	5.0	ug/L	118	70 - 130	---	---	1.0	06/26/2018 08:55	06/27/2018 21:02	3971921



QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
LFB	Benzo(a)pyrene	525.2	0.02	---		4.7090	5.0	ug/L	94	70 - 130	---	1.0	06/26/2018 08:55	06/27/2018 21:02	3971921
LFB	Di(2-ethylhexyl)adipate	525.2	0.6	---		6.1490	5.0	ug/L	123	70 - 130	---	1.0	06/26/2018 08:55	06/27/2018 21:02	3971921
LFB	Di(2-ethylhexyl)phthalate	525.2	0.6	---		6.4180	5.0	ug/L	128	70 - 130	---	1.0	06/26/2018 08:55	06/27/2018 21:02	3971921
LFB	IS-Chrysene-d12	525.2	N/A	---		2323000	2122000	ug/L	109	70 - 130	---	1.0	06/26/2018 08:55	06/27/2018 21:44	3971922
LFB	IS-Phenanthrene-d10	525.2	N/A	---		3111000	3140000	ug/L	99	70 - 130	---	1.0	06/26/2018 08:55	06/27/2018 21:44	3971922
LFB	IS-Pyrene-d10	525.2	N/A	---		2615000	2473000	ug/L	106	70 - 130	---	1.0	06/26/2018 08:55	06/27/2018 21:44	3971922
LFB	SS-4,4'-Dichlorobiphenyl	525.2	N/A	---		4.7970	5.0	ug/L	96	70 - 130	---	1.0	06/26/2018 08:55	06/27/2018 21:44	3971922
LFB	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	---		5.2760	5.0	ug/L	108	70 - 130	---	1.0	06/26/2018 08:55	06/27/2018 21:44	3971922
LFB	SS-Triphenylphosphate	525.2	N/A	---		5.6090	5.0	ug/L	112	70 - 130	---	1.0	06/26/2018 08:55	06/27/2018 21:44	3971922
LFB	Acenaphthene	525.2	0.1	---		4.0380	5.0	ug/L	81	58 - 116	---	1.0	06/26/2018 08:55	06/27/2018 21:44	3971922
LFB	Acenaphthylene	525.2	0.1	---		4.5730	5.0	ug/L	91	70 - 130	---	1.0	06/26/2018 08:55	06/27/2018 21:44	3971922
LFB	Anthracene	525.2	0.1	---		4.8000	5.0	ug/L	96	70 - 130	---	1.0	06/26/2018 08:55	06/27/2018 21:44	3971922
LFB	Phenanthrene	525.2	0.1	---		4.5410	5.0	ug/L	91	70 - 130	---	1.0	06/26/2018 08:55	06/27/2018 21:44	3971922
LFB	Pyrene	525.2	0.1	---		5.3970	5.0	ug/L	108	70 - 130	---	1.0	06/26/2018 08:55	06/27/2018 21:44	3971922
LMB	IS-Chrysene-d12	525.2	N/A	---		1567000	2122000	ug/L	74	70 - 130	---	0.98	06/26/2018 08:55	06/27/2018 22:26	3971919
LMB	IS-Phenanthrene-d10	525.2	N/A	---		2486000	3140000	ug/L	79	70 - 130	---	0.98	06/26/2018 08:55	06/27/2018 22:26	3971919
LMB	IS-Pyrene-d10	525.2	N/A	---		2162000	2473000	ug/L	87	70 - 130	---	0.98	06/26/2018 08:55	06/27/2018 22:26	3971919
LMB	SS-4,4'-Dichlorobiphenyl	525.2	N/A	---		5.4490	5.0	ug/L	111	70 - 130	---	0.98	06/26/2018 08:55	06/27/2018 22:26	3971919
LMB	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	---		5.3690	5.0	ug/L	110	70 - 130	---	0.98	06/26/2018 08:55	06/27/2018 22:26	3971919
LMB	SS-Triphenylphosphate	525.2	N/A	---		5.9420	5.0	ug/L	121	70 - 130	---	0.98	06/26/2018 08:55	06/27/2018 22:26	3971919
LMB	Acenaphthene	525.2	0.1	<		0.1		ug/L	---	---	---	0.98	06/26/2018 08:55	06/27/2018 22:26	3971919
LMB	Acenaphthylene	525.2	0.1	<		0.1		ug/L	---	---	---	0.98	06/26/2018 08:55	06/27/2018 22:26	3971919
LMB	Anthracene	525.2	0.1	<		0.1		ug/L	---	---	---	0.98	06/26/2018 08:55	06/27/2018 22:26	3971919
LMB	Benzo(a)pyrene	525.2	0.02	<		0.02		ug/L	---	---	---	0.98	06/26/2018 08:55	06/27/2018 22:26	3971919
LMB	Di(2-ethylhexyl)adipate	525.2	0.6	<		0.6		ug/L	---	---	---	0.98	06/26/2018 08:55	06/27/2018 22:26	3971919
LMB	Di(2-ethylhexyl)phthalate	525.2	0.6	<		0.6		ug/L	---	---	---	0.98	06/26/2018 08:55	06/27/2018 22:26	3971919
LMB	Fluoranthene	525.2	0.1	<		0.1		ug/L	---	---	---	0.98	06/26/2018 08:55	06/27/2018 22:26	3971919
LMB	Phenanthrene	525.2	0.1	<		0.1		ug/L	---	---	---	0.98	06/26/2018 08:55	06/27/2018 22:26	3971919
LMB	Pyrene	525.2	0.1	<		0.1		ug/L	---	---	---	0.98	06/26/2018 08:55	06/27/2018 22:26	3971919
FS	IS-Chrysene-d12	525.2	N/A	18-06452_JBPHH Red H#		1590000	2122000	ug/L	75	70 - 130	---	0.98	06/26/2018 08:55	06/27/2018 23:08	3968421
FS	IS-Phenanthrene-d10	525.2	N/A	18-06452_JBPHH Red H#		2473000	3140000	ug/L	79	70 - 130	---	0.98	06/26/2018 08:55	06/27/2018 23:08	3968421
FS	IS-Pyrene-d10	525.2	N/A	18-06452_JBPHH Red H#		2155000	2473000	ug/L	87	70 - 130	---	0.98	06/26/2018 08:55	06/27/2018 23:08	3968421
FS	SS-4,4'-Dichlorobiphenyl	525.2	N/A	18-06452_JBPHH Red H#		5.5920	5.0	ug/L	114	70 - 130	---	0.98	06/26/2018 08:55	06/27/2018 23:08	3968421
FS	SS-2,4,5,6-Tetrachloro-m-xylene	525.2	N/A	18-06452_JBPHH Red H#		5.4650	5.0	ug/L	112	70 - 130	---	0.98	06/26/2018 08:55	06/27/2018 23:08	3968421
FS	SS-Triphenylphosphate	525.2	N/A	18-06452_JBPHH Red H#		5.9370	5.0	ug/L	121	70 - 130	---	0.98	06/26/2018 08:55	06/27/2018 23:08	3968421
FS	Acenaphthene	525.2	0.1	18-06452_JBPHH Red H#	<	0.1		ug/L	---	---	---	0.98	06/26/2018 08:55	06/27/2018 23:08	3968421
FS	Acenaphthylene	525.2	0.1	18-06452_JBPHH Red H#	<	0.1		ug/L	---	---	---	0.98	06/26/2018 08:55	06/27/2018 23:08	3968421
FS	Anthracene	525.2	0.1	18-06452_JBPHH Red H#	<	0.1		ug/L	---	---	---	0.98	06/26/2018 08:55	06/27/2018 23:08	3968421
FS	Benzo(a)pyrene	525.2	0.02	18-06452_JBPHH Red H#	<	0.02		ug/L	---	---	---	0.98	06/26/2018 08:55	06/27/2018 23:08	3968421
FS	Di(2-ethylhexyl)adipate	525.2	0.6	18-06452_JBPHH Red H#	<	0.6		ug/L	---	---	---	0.98	06/26/2018 08:55	06/27/2018 23:08	3968421
FS	Di(2-ethylhexyl)phthalate	525.2	0.6	18-06452_JBPHH Red H#	<	0.6		ug/L	---	---	---	0.98	06/26/2018 08:55	06/27/2018 23:08	3968421

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
FS	Fluoranthene	525.2	0.1	18-08452, JBP/HH Red Hill	<	0.1		ug/L	---	---	---	0.98	06/26/2018 08:55	06/27/2018 23:08	3968421
FS	Phenanthrene	525.2	0.1	18-08452, JBP/HH Red Hill	<	0.1		ug/L	---	---	---	0.98	06/26/2018 08:55	06/27/2018 23:08	3968421
FS	Pyrene	525.2	0.1	18-08452, JBP/HH Red Hill	<	0.1		ug/L	---	---	---	0.98	06/26/2018 08:55	06/27/2018 23:08	3968421

Sample Type Key

<u>Type (Abbr.)</u>	<u>Sample Type</u>	<u>Type (Abbr.)</u>	<u>Sample Type</u>
CCV	Continuing Cali. Verification		
CCB	Continuing Calibration Blank		
CCC	Continuing Calibration Check		
CCL	Continuing Calibration Low		
FS	Field Sample		
ICV	Initial Cali. Verification		
ICB	Initial Calibration Blank		
LFB	Laboratory Fortified Blank		
LMB	Laboratory Method Blank		
LRB	Laboratory Reagent Blank		
LTB	Laboratory Trip Blank		
QCS	Quality Control Sample		

END OF REPORT



NAVFAC HAWAII ENVIRONMENTAL SERVICES LABORATORY CHAIN-OF-CUSTODY

Navy Facilities Engineering Command, Hawaii, Pearl Harbor, Hawaii Phone: (808) 474-3704, FAX: (808) 471-4534

JON: 178014602018	ESM:	POC: Kyle Teraoka	PIH#: 473-3160	FAX#: 473-1545
Report To: Kyle Teraoka	Copy To: Ravi Mohandic			
NAVFAC HI OPBP6		NAVFAC HI EVI		
kyle.teraoka@navy.mil		ravi.mohandic@navy.mil		

Sample ID	Sample Description	Matrix Code	Sampling		Container		Analysis Required	Preservative / Res. Cl (ppm)	FOR LAB USE ONLY				
			Date	Time	Vol	Type			pH	Lab Number	Ext.	Lctn.	Cond.
Joint Base Pearl Harbor-Hickam (360-011)	Red Hill, TP001, Tap outside the C12 Bldg	DW	6/19/2018	0915	3x40mL	Glass	Volatiles (524.2)	Ascorbic, IIC			1-3	C	
Trip Blank			5/23/2018		2x1L	Glass	Semi-Volatiles (525.2)	Sulfite, IIC	10-06452		4-5	C	
					3x40mL	Glass	TPH as Diesel (JP-8) (8015)		10-06453		6-8	C	
					125mL	Plastic	Lead (200.8)	HNO ₃ pH < 2			9	C	
					2x40mL	Glass	Volatiles	Ascorbic, IIC			1-2	C	

Sampling Information Location Sampled: Red Hill Sampler(s): (Print names clearly) K. Miyaki	Transportation Information Transported/Stored in: Cooler with ice Cooler Temp: °C Air bill/Carrier ID#:	Unused Sample Disposition <input type="checkbox"/> Return to customer <input checked="" type="checkbox"/> Dispose at 60 Days <input type="checkbox"/> Archive for ___ Days <input type="checkbox"/> Contact before disposal
Sample Condition <input checked="" type="checkbox"/> Received with CoC <input type="checkbox"/> Received with Custody Seals <input type="checkbox"/> Seals Required Seals Intact <input checked="" type="checkbox"/> Labels and CoC agree		

Remarks: Any EPA approved drinking water method for organic chemicals, 40 CFR 141.24, may be used.
 Laboratory must certified by the Hawaii State DOH Drinking Water Program.

Relinquished By: (Print clearly & Sign) K. Miyaki <i>K. Miyaki</i>	Date 6/19/18	Time 1315	Received By: (Print clearly & Sign) <i>K. Teraoka</i>	Date 6/19/18	Time 1315
-----------------------------------------------------------------------	-----------------	--------------	----------------------------------------------------------	-----------------	--------------